

NOSTRADAMUS

INTERNAL REPORT T3.3: ANALYSE AGRICULTURAL MARKET AND SOCIO-ECONOMIC DATA

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T3.3 ANALYSE AGRICULTURAL MARKET AND SOCIO-ECONOMIC DATA

INTERNAL REPORT

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Abstract	This report presents a design framework for Nostradamus Module for Market and Socio-Economic Analysis. This Module is developed to address data that contributes to agricultural decision-making and rural policy formulation. The module integrates inputs for digital tool interfaces to improve the availability, accessibility, and utilization of up-to-date data for farm-level business decisions and socio-economic analysis of farmers and rural communities for policy makers. The report reviews existing economic and social analysis models, presents current data sources, identifies systemic data gaps, establishes a baseline for module architecture and provides teaching materials. The module will be tested by Nostradamus Consortium through third-party solutions in pilot deployments under the Open Call framework.
Keywords	Agricultural data, socio-economic analysis, development, markets

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EXECUTIVE SUMMARY

Agricultural systems and rural economies across Europe operate at the intersection of volatile markets, evolving policies, and deeply contextual social realities. Farmers and rural communities face mounting pressures from climate variability, shifting trade regimes, technological disruption, and demographic transitions. The capacity to make informed farm-level decisions and craft effective, evidence-based policies depends critically on the timeliness, quality, and accessibility of data — yet significant gaps persist between what data exists and what decision-makers can actually use.

This report presents the results of Task 3.3 within the Horizon Europe Nostradamus project (Grant Agreement 101134888), which aims to develop a dedicated Module for Market and Socio-Economic Analysis. The module integrates into the broader Nostradamus Data Cube infrastructure to transform fragmented, outdated, or inaccessible information into actionable intelligence for two distinct stakeholder groups: (1) farming businesses seeking to optimise market positioning and operational decisions (Group A Solutions), and (2) policymakers and rural development actors requiring robust socio-economic evidence (Group B Solutions).

Methodology. The work done in Task 3.3 followed a rigorous five-phase, evidence-driven methodology.

- Phase 1 involved a systematic review of 108 existing economic and social analysis models, mapping their analytical levels (farm/micro vs. policy/macro), disciplinary domains, data consumption patterns, and transferability across regional contexts.
- Phase 2 comprised a comprehensive audit of over 50 open data sources — including FAOSTAT, World Bank WDI, OECD, EUROSTAT, Copernicus Earth Observation, FADN, and UN/ILO databases — evaluated against criteria of accessibility, quality, scope, granularity, and timeliness. This work also includes links to most suitable data sources and APIs for them.
- Phase 3 synthesised these findings into a structured data gap analysis, establishing the types of data gaps by handling them in the studies and by group.
- Phase 4 translated findings into technical specifications for the data cube infrastructure and digital tool interfaces. It outlines the framework for real-world applications:
    - for app developers,
    - for end users,
    - and by design of a so-called “data tree” - the object that will shape the socio-economic module of Nostradamus Project.
- Phase 5 developed teaching materials for validation through third-party pilot solutions under Work Package 6 (WP6). This work includes slides, speech text and quiz prepared with accordance to Guidelines from WP6 for video production with AI assistance.

Key Findings.

1. The model review revealed considerable analytical sophistication across the 108 tools examined, but also a systematic pattern of data constraints. Most models are interconnected and build upon one another, meaning that data gaps in foundational sources propagate through derivative frameworks. Only one reviewed model — SWISSFoodSys — covers social, economic, environmental, agricultural, rural, policy, health, and nutrition dimensions simultaneously, underscoring the challenge of integrated analysis.
2. The data source audit identified over 50 open data for agri-food socio-economic analysis, for example, FAO/FAOSTAT (10,000+ indicators, 245 countries), World Bank WDI (~100 agricultural indicators, 217 economies), OECD/EUROSTAT (policy support indicators), Copernicus/Earth Observation (near-real-time satellite data), FADN (EU farm-level economics), and UN/ILO/UNCTAD (employment, trade, and sustainability). However, these sources suffer from persistent interoperability challenges, temporal mismatches (daily satellite data vs. decadal census cycles), spatial resolution gaps (sub-field precision vs. national aggregates), and governance constraints including GDPR compliance.
3. The gap analysis classified deficiencies by handling type — data missing from discussion sections, survey questionnaires, and minimum model requirements — and by stakeholder group. For Group A (farm business), critical gaps include the absence of real-time farm-level price and cost data, limited input supply chain coverage, insufficient production granularity, and weak integration of financial metrics with operational data. For Group B (socio-economic), gaps include infrequent household surveys, non-standardised community indicators, missing gender and inclusion dimensions, and digital exclusion of vulnerable populations.
4. A socio-economic "data tree" was suggested and clarified for real-world applications socio-economic module of Nostradamus Project.
5. Teaching materials were developed for video production with AI assistance.

Module Design. The Nostradamus Socio-Economic Module addresses these gaps through a data cube architecture implementing dimensional modelling. For Group A, dimensions include time (monthly to annual), geography (farm to national), and commodity (crop, livestock, input). For Group B, dimensions include time, geography (household to region), and demographic characteristics (gender, age, education). The module operationalises over 1,000 key socio-economic indicators, that can be harmonised and systematically evaluated using reproducible statistical routines.

For each indicator and territory, the tool should generate the most recent available value, historical minimum and maximum values, long-term averages, and short-, medium-, and long-term trend estimations based on linear regression analyses (five-, and ten-year horizons). The module exposes data through REST APIs designed for integration with third-party digital tools, implementing authentication, rate limiting, and data governance controls. The technology stack includes columnar data stores, stream processing frameworks, containerised microservices, cloud-native architecture, and edge computing capabilities for low-connectivity contexts.

Indicators Framework. Group A indicators cover five families: Market Access & Prices (FAO Food Price Index, producer prices, domestic volatility); Employment & Labor (agricultural wages, gender-disaggregated employment from ILOSTAT); Productivity & Yield (cereal yield, crop/livestock production indices, labour productivity); Finance & Credit (lending rates, non-performing loans, warehouse receipt systems); and Input Use & Economics (fertilizer/pesticide consumption, seed quality ratios, mechanization density, irrigation coverage). Group B indicators cover five families: Land & Resource Governance (17 LGAF indicators on tenure, expropriation, women's rights, dispute resolution); Agricultural Policy Support (OECD PSE, CSE, GSSE, TSE indicators); Food Security (Prevalence of Undernourishment, FIES, food deficit depth, cereal import dependency); Climate-Smart Agriculture Policy (adaptation/mitigation strategies, R&D investment, social safety nets); and Agri-Environmental & Trade (GHG emissions, nitrogen balance, export competitiveness, value-added analysis). Cross-cutting agri-environmental indicators serve both groups. These and other indicators that may be of interest to both groups shape the socio-economic data tree.

Pilot Testing and Training. The module will be validated through third-party solutions selected via the Open Call framework under WP6 (Tasks 6.4 and 6.5), tested across five pilot countries: Cyprus, Germany, Serbia, Slovenia, and Switzerland. Success criteria span three dimensions: technical performance (data latency, query response times, system uptime), analytical validity (accuracy of trend detection, robustness of pattern identification), and user utility (relevance to farm decisions, utility for policy formulation, ease of integration).

Training material. A 45-minute training module (0.04 ECTS) has been prepared for the Nostradamus Digital Ecosystem (TU2.2), comprising five sections: an introductory video, a handout on data sources, a practical exercise, a knowledge quiz, and a summary. The learning outcomes focus on identifying key agricultural market and socio-economic data sources and indicators and interpreting basic trends to support planning and decision-making.

Output and Dissemination. Task 3.3 has produced eight deliverables: two conference presentations (RSCy2025, RSCy2026), two published abstracts, one published paper, two openly available internal reports, one Excel document mapping socio-economic indicators for pipeline production, and training materials including documentation, presentations, and video content. These outputs contribute directly to Deliverable 3.1 (integrated databases) and inform Tasks 2.2 (needs-based data requirements), 2.4 (API/SDK generation engine), and 3.1 (database integration).

Strategic recommendations include:

- prioritising investment in real-time data infrastructure for market and price information;
- establishing partnerships with national statistical offices and international organisations to secure sustainable data flows;
- implementing robust data governance frameworks that balance accessibility with privacy protection;
- designing user interfaces that accommodate diverse digital literacy levels;

- embedding continuous evaluation mechanisms to ensure module relevance over time;
- encompass machine learning approaches for gap filling and data imputation,
- integration of non-traditional data sources (IoT sensors, mobile network data, social media), exploration of blockchain for data provenance, expansion of language localisation, enhancement of offline functionality;
- creation of synthetic data generation capabilities.

The ultimate test of the module lies in its real-world deployment through the Open Call, where it will be stress-tested across diverse pilot contexts and refined through iterative feedback loops.

Conclusions. This report identifies the socio-economic data required for effective farm decision-making and rural policy formulation. The Nostradamus module, through its data cube architecture and digital tool integration, offers a pathway to bridge these data for agricultural and socio-economic data analysis.

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ABBREVIATIONS

AGFT	AgFutura Technologies, a consulting company
AGLINK	Agricultural Market and Policy Analysis Tool
AI	Artificial Intelligence
API	Application Programming Interface
AUTH	Aristotle University of Thessaloniki
CAP	Common Agricultural Policy
CGE	Computable general equilibrium
COSA	Committee on Sustainability Assessment
CSA	Climate-Smart Agriculture
CSE	Consumer Support Estimate
DC	Data Cubes
DFID	Department for International Development
DHS	Demographic and Health Surveys
ECoE	The ERATOSTHENES Centre of Excellence
ECTS	European Credit Transfer and Accumulation System
EO	Earth Observation
EU	European Union
FADN	Farm Accountancy Data Network
FAO	The Food and Agriculture Organization of the United Nations
FDI	Foreign Direct Investment
FIES	Food Insecurity Experience Scale
GDP	Gross Domestic Product

GDPR	General Data Protection Regulation
GHG	Greenhouse gas
GIEWS	Global Information and Early Warning System
GSSE	General Services Support Estimate
GUI	Graphical User Interface
HSG	University of St. Gallen
IFPRI	International Food Policy Research Institute
IoT	Internet of Things
LCA	Life Cycle Assessment
LGAF	Land Governance Assessment Framework
LSMS	Living Standards Measurement Study
LULUCF	Land Use, Land-Use Change, and Forestry
MIS	Market Information Systems
ML	Machine Learning
NAC	Producer Nominal Assistance Coefficient
NPC	Producer Nominal Protection Coefficient
OECD	Organisation for Economic Co-operation and Development
POU	Prevalence of Undernourishment
PSE	Producer Support Estimate
R&D	Research and Development
RISE	Response-Inducing Sustainability Evaluation
RSCy	Remote Sensing Cyprus Conference
SAFA	Sustainability Assessment of Food and Agriculture Systems
SCT	Single Commodity Transfers

SDG	Sustainable Development Goal
SERI	State Secretariat for Education, Research and Innovation, Switzerland
SMART	Sustainability Monitoring and Assessment Routine
SPIE	Society of Photographic Instrumentation Engineers, now International Society for Optics and Photonics
TSE	Total Support Estimate
TU	Teaching Unit
UN	United Nations
UNIGE	University of Geneva
VCR	Value/cost ratio
WDI	World Development Indicators
WP	Work Package

1. INTRODUCTION

Agricultural systems and rural economies operate at the intersection of volatile markets, evolving policies, and deeply contextual social realities. Farmers and rural communities across diverse regions face mounting pressures from climate variability, shifting trade regimes, technological disruption, and demographic transitions. In this landscape, the capacity to make informed farm-level decisions and craft effective, evidence-based policies depends critically on the timeliness, quality, and accessibility of data. Yet, significant gaps persist between what data exists and what decision-makers can use.

1.1 NOSTRADAMUS PROJECT OVERVIEW

Nostradamus is a research and innovation project funded by Horizon Europe and the State Secretariat for Education, Research and Innovation (SERI), aiming to transform land-use management across Europe.

Nostradamus is dedicated to strengthening food security and lowering reliance on agrochemical inputs throughout the European Union. In harmony with major EU frameworks—including the Farm to Fork Strategy, the Common Agricultural Policy, and the European Strategy for Data—the initiative harnesses multi-actor partnerships to build a scalable, resilient digital infrastructure for gathering and analysing agricultural data in near real time.

By weaving together diverse data streams such as Copernicus Earth Observation, Internet of Things networks, and publicly accessible databases, Nostradamus aspires to generate practical insights that bolster the sustainability, competitiveness, and resilience of European agriculture. At the heart of the effort stand Data Cubes: unified hubs offering ongoing assistance to stakeholders, enabling sound decision-making and robust policy formulation. The project employs state-of-the-art tools to cultivate an inclusive, evidence-based methodology that tackles pressing challenges, seizes emerging opportunities, and nurtures thriving ecosystems and adaptable communities.

Nostradamus also aims to lift agricultural productivity by pioneering edge, cloud, and hybrid digital solutions, all while trimming input expenses and curbing environmental harm—even in regions with sparse connectivity. It further intends to reinforce administrative oversight and monitoring capabilities, rendering farming operations more streamlined and accountable. Steered by principles of ethics, gender equity, and cultural inclusivity, the project guarantees that its workflows and deliverables reach a wide spectrum of users, laying groundwork for a fairer, more sustainable future. Policy dialogue, skills development, and stakeholder cooperation rank high on Nostradamus's agenda. Through deliberate outreach and training programmes, the initiative equips policymakers, land stewards, and local populations with the means to advance climate-resilient, sustainable farming practices across Europe.

Nostradamus project contains 7 work packages, 37 tasks and 68 deliverables. Hereafter,

- WP stands for Nostradamus Work Package and followed by work package number,
- T stands for Nostradamus Task and followed by t task number,
- D stands for Nostradamus Deliverable and followed by deliverable number,
- WPs stands for plural form, meaning all or several of Nostradamus Work Packages
- the numbers after WP, T, D correspond to the numbers defined in the grant agreement Project 101134888 — Nostradamus.

Nostradamus WPs are named as follows:

- WP1: Multi-actor networking, D & E activities, and post-project sustainability plan
- WP2: Preliminary actions for digital solutions and needs-driven requirements
- WP3: Development of cohesive data production pipelines
- WP4: Deployment of core modules for EU Food Security and Independence
- WP5: Development and implementation of Data Cubes
- WP6: Third-party funding for digital applications and capacity building
- WP7: Project management

1.2 PURPOSE OF THE TASK 3.3 AND THIS INTERNAL REPORT

Task 3.3 "ANALYSE AGRICULTURAL MARKET AND SOCIO-ECONOMIC DATA" is a part of WP3 and results into a contribution to Deliverable 3.1 by AGFT. D3.1 is designed to support Task 3.1 "Integrate existing databases for agricultural management practices" and other Nostradamus activities. The Task 3.3 is formulated in project proposal as follows:

Formulation of the Task 3.3 ANALYSE AGRICULTURAL MARKET AND SOCIO-ECONOMIC DATA
"This task starts with reviewing existing models for economic (farm and policy/macro level) and social analysis that have been developed and used in different site-specific settings. The aim is to better understand the performance of these models when it comes to the analysis of trends, patterns, and factors affecting both, the agricultural market and the socio-economic conditions of farmers and rural communities in the selected regions. Current sources of data for market and socio-economic analysis will be reviewed and assessed (accessibility, quality, scope) to identify the data GAP. The data GAP serves as a baseline for the design of the Nostradamus module for market and socio-economic analysis. This module - through the technology embedded in the data cubes, and the solutions that feed into the digital tools - aims to improve the current availability of data for optimal utilisation of these "up-to-date" data for farm decision making and policy creation. Two sets of data will be provided and used in two separate groups of solutions, targeted in the Open Call (WP6): (1) data related to the farming business (Group A Solutions) and (2) socio-economic data on farmers and rural communities (Group B Solutions). The developed module in this task will be tested though the third-party solutions in the pilots (Tasks 6.4 and 6.5)."

This report addresses Task 3.3 within the Nostradamus project framework, which aims to contribute to the development of a dedicated Market and Socio-Economic Analysis Module. The module contributes to data cube technology and digital tool integrations to transform fragmented, outdated, or inaccessible information streams into actionable intelligence for two distinct stakeholder groups: (1) farming businesses seeking to optimise market positioning and operational decisions (Group A Solutions), and (2) policymakers and rural development actors requiring robust socio-economic evidence (Group B Solutions).

The task is structured around four interconnected objectives:

- systematic assessment of existing economic and social analysis models;
- evaluation of current data sources for market and socio-economic analysis;
- defining the data baseline that informs module design; and
- building and validating the Nostradamus module through third-party pilot solutions. The ultimate test of this module lies not in its technical sophistication alone, but in its performance during real-world deployment through the Open Call solutions (WP6, Tasks 6.4 and 6.5), where it will be stress-tested across diverse pilot contexts.

For clarity throughout this report, the following terms are defined.

- **Group A Solutions** refer to digital tools and services targeting farming business data—encompassing market prices, input costs, production volumes, farm financial performance, supply chain logistics, and commodity trends.
- **Group B Solutions** refer to digital tools and services targeting socio-economic data on farmers and rural communities—including household income, employment patterns, social capital, access to services, gender dynamics, and rural welfare indicators.
- **The data gap** is defined as the measurable shortfall between data required for robust decision-making (at farm and policy levels) and data currently available, accessible, and usable.
- **Data cubes** are multi-dimensional data structures enabling flexible querying, aggregation, and analysis across time, geography, and thematic dimensions.
- **Data pipelines** are soft-tools that can be activated for access to data and training the models.

This task employs a multi-phase, evidence-driven methodology. **Phase 1** involves a systematic model review, mapping and evaluating economic (farm-level and macro/policy-level) and social analysis models, with attention to their performance in trend analysis, pattern recognition, and factor identification across different regional contexts. **Phase 2** comprises a data source audit, reviewing and scoring existing data sources against criteria of accessibility, quality, scope, granularity, and timeliness. **Phase 3** synthesises findings to define the data gap, which helps for module design. **Phase 4** translates findings into technical specifications for the data cube infrastructure and digital tool interfaces. **Phase 5** tests module performance through third-party solutions in real-world pilot settings.

This report also contains training material related to work in Task 3.3 for agricultural market and socio-economic data analysis, that will be hosted in TU2 "Nostradamus digital ecosystem" (UNIGE), inside the training sub-unit TU2.2: Interaction of Ecosystem Components (led by Terradue). The learning outcome of this training sub-unit TU2.2 is defined as:

LO2: describe the interaction models, data flows, and dependencies between the key ecosystem components (e.g., Edge Components, Logic Components, GUI Components with Data Hub, IoT Observatory, and Data Cubes) within application development workflows.

This will aim at presenting a simplified overview of the Nostradamus data flows, reusable APIs and software tools, and how they interact. The audience will be primarily non-technical stakeholders, for them to understand how Nostradamus-powered applications can use these APIs and software tools. Therefore, TU2.2 is the place where one can explain to an audience that NOSTRADAMUS can prepare specific socio-economic trends analysis tools, which can be configured (selecting the data sources and their dimensions/properties) based on stakeholder use cases. At the same time, this work will be double checked with AGFT and AUTH that it can be exploited for software implementation:

- in compliance with the guidelines from Task 2.2: Needs-based data requirements for Data Cubes [Leader: ECoE; Participants: UNIGE, TRD, BIOS, CPT, WBF, CZU, AGFT, HSG]
- at the DB level by Task 3.1: Integrate existing databases for agricultural management practices [Leader: AGFT; Participants: CZU, MARDE, DLG, HSG, EcoE, ITC]
- at the NOSTRADAMUS API/SDK level by Task 2.4: Develop generation engine for digital applications [Leader: AUTH; Participants: UNIGE, HSG]:

At this stage of shared understanding in WP3, Task 3.3 only provides:

- Name of the indicator (e.g. “Producer Price for Apples”)
- Organisation(s) producing the data (e.g. FAOSTAT, EUROSTAT)
- Download Link and/or API endpoint

The remainder of this report is organised as follows. Section 2 reviews existing models for economic and social analysis. Section 3 assesses current data sources for market and socio-economic analysis, evaluating their fitness for purpose. Section 4 presents data gap analysis, establishing the baseline for module design. Section 5 details the design of the Nostradamus module, including data architecture pathways. Section 6 outlines the pilot testing framework, validation criteria and provides teaching materials for implementation. Section 7 concludes.

1.3 OUTPUTS OF TASK3.3

The output of the deliverable are presented in Table 1. The contributions from T3.3 to the consortium may be summarized as follows:

- Two presentations given at international conferences
- Two published abstracts
- One published paper
- Two internal reports openly available
- One Excel document with socio-economic indicators
- One teaching material

TABLE 1: OUTPUT OF TASK 3.3

#	Title	Type	Lead	Author
1	Nostradamus:Harnessing Data Cubes and Multiple Sources of Data for Sustainable Agriculture and Food Security.	Presentation RSCy2025, Published abstract	ECoE	Varvaris et al. (2025).
2	Agri-food modelling: socio-economic data and data-gaps	Presentation RSCy2025, Published abstract, Published paper	HSG	Loginova, Hoidn (2025)
3	The List of Open Data Sources for Agricultural, Food, Land, and Socio-Economic Research	Published report	HSG	Loginova, Varvaris (2025)
4	A Socio-Economic Decision-Support Tool for Sustainable Agricultural Policy	Presentation RSCy2026, Published abstract	HSG	Loginova et al. (2026).
5	Analyse agricultural market and socio-economic data	internal report for Nostradamus T3.3.	HSG	Loginova (2026)
6	Table of sources and links to socio-economic indicators for pipelines production in Nostradamus T3.1	Excel document, Appendix	HSG	Loginova (2026)
7	Teaching material	Teaching documentation, Teaching content, Presentation, Video input, Speaker design.	HSG	Loginova (2026)
8	Feedback for D3.1.	Feedback to AGFT	HSG	Loginova (2025,2026)

2. MODELS FOR SOCIO-ECONOMIC ANALYSIS IN AGRICULTURAL SECTOR

For the Nostradamus Project, Task 3.3, many socio-economic models have been reviewed. The key part of this review was published in Loginova & Hoidn (2025) – the work that was supported by Nostradamus project, the European Union's Horizon Europe Research and Innovation Programme (HORIZON-CL6-2023-GOVERNANCE-01-13) under Grant Agreement No 101134888 and SERI. The texts and results of this report use the texts and results of this study. This section presents a short review on types of existing models in 2.1 and later relies heavily on a published work by Loginova & Hoidn (2025).

2.1 TYPES OF AGRICULTURAL ECONOMIC MODELS

- **Farm-level economic models** represent the micro-foundations of agricultural decision-making. Production function models estimate the relationship between inputs (labour, capital, land, materials) and agricultural outputs, enabling efficiency analysis and input optimisation (Coelli et al., 2005).
- **Farm household models** integrate production decisions with consumption choices, recognising that farm households in developing contexts often operate under non-separable conditions where market imperfections bind (Singh et al., 1986).
- **Agent-based models** simulate farm decision-making as emergent behaviour from interacting autonomous agents, capturing heterogeneity and adaptation in response to policy or market shocks (Berger & Troost, 2014).
- **Bio-economic models** link biophysical processes with economic optimisation, particularly relevant for sustainable intensification and climate adaptation analysis (Antle & Capalbo, 2001).
- **Macro and policy level, partial equilibrium models** such as the Agricultural Market and Policy Analysis Tool (AGLINK) and the OECD-FAO Agricultural Outlook model analyse commodity markets, trade flows, and price formation under policy scenarios (OECD, 2021). Computable general equilibrium (CGE) models capture economy-wide repercussions of agricultural and trade policies, accounting for inter-sectoral linkages (Hertel, 1997).
- **Policy impact simulation models**, including those developed by the International Food Policy Research Institute (IFPRI), assess the distributional consequences of agricultural interventions (Rosegrant et al., 2008).
- **Trade and price transmission models** examine how international price signals propagate through domestic markets, with critical implications for farm-gate prices and farmer welfare (Minot, 2011).
- **The sustainable livelihoods framework**, developed by the Department for International Development (DFID, 1999), conceptualises rural households as managing portfolios of assets (human, natural, financial, physical, and social capital) within transforming structures and processes.

- **Social network analysis** models map the relational infrastructure of rural communities, revealing how information, resources, and social support flow through kinship, market, and institutional ties (Bodin & Prell, 2011).
- **Rural welfare and poverty assessment models**, including multidimensional poverty indices, move beyond income-based measures to capture deprivation in health, education, and living standards (Alkire & Foster, 2011).
- **Gender and inclusion analytical frameworks** examine differential access to resources, decision-making authority, and benefits from agricultural interventions (Doss, 2014).

2.2 108 MODELS REVIEWED

Socio-economic models in the agricultural sector help to analyze trends, patterns, and factors affecting both, the agricultural market and the socio-economic conditions of farmers and rural communities. Several works have aimed to harmonize knowledge about tools, indicators, and models in agriculture and socio-economics, while also compiling a comprehensive list of existing models through systematic literature reviews (Norton & Schiefer, 1980; Schader et al, 2014). One of the most recent review studies, by Jayasinghe et al. (2023), identified 62 indicators (17 biophysical, 29 economic, and 16 social), 45 tools and frameworks, 28 biophysical and economic models, and 95 references to advanced statistical methods applied to specific agricultural questions. A deeper look at indicators from a broader socio-economic perspective reveals that their number may be much higher. For example, it is known that UN (2024) uses 231 unique sustainability indicators that cover socio-economic, environmental, and often agricultural dimensions.

Regarding modelling tools and their data consumption, the situation is even less clear. A few studies, including Jayasinghe et al. (2023), have attempted to compare a few models from the existing variety, and basic data sources for modelling were listed by, for example, Loginova and Mann (2024, pp. 144-145); however, data gaps remain one of the key uncertainties in the dynamic and evolving field of agri-food socio-economic modelling.

The snowball literature review allowed Loginova & Hoidn (2025, for Nostradamus project) to select 108 models and tools and to look at their data consumption in more detail (Figure 1). Subject to the limitations of snowball sampling, the resulting list of models has no ambition to be final, but it is sufficient to identify common data usage and data gaps in agri-food modelling. Considering the strengths, limitations, and transferability of reviewed models across site-specific settings, key evaluation criteria for models usually include predictive accuracy in trend analysis, robustness in pattern recognition, explanatory power for factor identification, data requirements, computational complexity, and suitability for integration with digital tool architectures. The implications of this evaluation for Nostradamus module design are discussed, with particular attention to model selection criteria that balance analytical rigour with operational feasibility in diverse pilot contexts.

SELECTED 108 MODELS AND TOOLS REVIEWED			
A-F	**F-M**	**M-S**	**S-Y**
Agri-LCA	Farmpredict	MESMIS	SAFE
ABSTRACT	FaSSET	MGLP	SALCA
AGRIPOLIS	FESLM	MGLPe	SALCAsustain
APSIM	Field print calculator	MIDAS	SAM
AUI	Framework 12 indicators	MILPd	SDA
AVIBIO	FSSIM	MIMOSA	SEAMLESS/SEAMLESS-IF
CAPRI	GEMIS	MMF	SEEbalance
CATCHSCAPE	GPFARM	MODAM	SGS Pasture Model
CERES-EGC	GrassGro	MOTAD	SILAS
COSA	GrazFeed	MOTIFS	SIM
CropSyst	Green DSS-ESSA	MP-MAS	SIMSDAIRY
DairyMod	IDEA	OCIS PG	SIRIUS
DairyWise	IFSC	Opt'INRA	SMART
Daisy	IFSMIFSM	Opus	SOILN
DayCent	IMT	OVERSEER	SOSTARE
Dexcel model	ISAP	PALM	SPA
DLGZertifikat	KSNL	PaSim	SRP
DNDC	LEACHM	PASMA	STICS
DRAM	LINCFARM	PG Tool	SWAT
DSSAT	LUDAS	PMP	SWISSfoodSys
ECECMOD	LUPAS	PSDCIFASA	SWISSland
EPIC	LUSO	RAUMIS	The Hurley Pasture Model
FARM-AC	MCDA	RegMAS	The Loginova-Mann Model
FARMAX	MCDM	REPRO	UDDER
FARMDYN	MCDM	RISE	VIC–CropSyst-v2
FarmGHG	MDSM	RothC	WAVE
FARMIS	MELODIE	SAFA	Yield Prophet

SOURCE: LOGINOVA & HOIDN (2025)

FIGURE 1: SELECTED 108 MODELS AND TOOLS REVIEWED

Most models in agricultural socio-economics are interconnected (Möhring et al., 2016). The easiest examples are Indicator-Based Frameworks by, among others, Zhen and Routray (2003) and Bechini and Castoldi (2009) that use indicators from previous studies to design a new weighted indicator. A more difficult example is a family of Life-Cycle Assessment (LCA) models, that use similar data and calculation approaches, and parent some databases that contain the results of LCA simulation. Some models use other models in their design, for example, SAFA uses 38 supportive tools, including impact assessments by COSA, RISE, SMART and various types of LCA. Models that are designed with the use of other models collect shortcomings of the used parts.

In this selection, there is only one model that covers social, economic, environmental, agricultural (crop, animal, bio), rural and farming, policy, health and nutrition dimensions. This is a SWISSfoodSys model, which is a non-trivial match between SALCAsustain, Green DSS-ESSA, SWISSland, and a Dietary block (Loginova & Mann, 2024; Loginova & Hoidn, 2025; Djanibekov et al., 2026; Reguant-Closa et al., 2026). This contributed heavily to lower possibilities to integrate them into other tools.

3. DATA SOURCES

Interoperability and standardisation remain persistent challenges not only for models but also for data collected across different platforms. These data are rarely compatible without substantial transformation effort. Temporal coverage and update frequencies vary dramatically across sources, from near-real-time satellite data to decadal census cycles, creating temporal mismatches that complicate integrated analysis. Spatial resolution ranges from sub-field precision in precision agriculture systems to coarse national aggregates, with significant gaps at the sub-national and community levels. Data governance and privacy considerations, including compliance with the General Data Protection Regulation (GDPR) and national data protection frameworks, impose additional constraints on data sharing and utilisation.

3.1 LIST OF DATA SOURSES AND API

Table 2 presents open databases that cover socio-economic factors that are used for most types of agri-food and socio-economic analysis. These databases are selected from a list published by Loginova & Varvaris (2025, for Nostradamus project) because they are most fit for inclusion to Nostradamus frameworks. Tables 3 and 4 present additional data sources for future works.

TABLE 2: DATABASES FOR AGRI-FOOD RESEARCH USED BY EXISTING MODELS

Database	Link	Scope	API
FAO	https://www.fao.org/home/en	Information about foods and agriculture in different countries	https://github.com/FAOSTAT/faostat-api
EUROSTAT	https://ec.europa.eu/eurostat/databrowser/explore/all/all_themes	Socio-economic indicators for EU countries	https://ec.europa.eu/eurostat/web/main/data/web-services
World bank	https://www.worldbank.org/en/home	Socio-economic indicators by country and worldwide	https://datahelpdesk.worldbank.org/knowledgebase/articles/898611-api-basic-call-structures
UN	https://unstats.un.org/UNSDWebsite/	Socio-economic indicators by country and worldwide, sustainability indicators	https://population.un.org/dataportalapi/index.html
OECD	https://www.oecd.org/	Socio-economic indicators in OECD countries	https://www.oecd.org/en/data/insights/data-explainers/2024/09/api.html
International Trade Centre	https://www.trademap.org/	Trade flows	https://comtradedeveloper.un.org/signin?returnUrl=%2F
The Swiss Food Composition Database	https://naehrwertdaten.ch/en/	Nutritional value of foods, less foods more accuracy	https://naehrwertdaten.ch/en/downloads/
FADN	https://agridata.ec.europa.eu/extensions/FarmEconomyFocus/FADNDatabase.html	Farm data	https://data.europa.eu/data/datasets/farm-accountancy-data-network-public-database?locale=en

TABLE 3: DAUGHTERLY PORTALS FOR AGRICULTURAL INDICATORS

Database	Indicators Covered	Coverage	Main Portal
FAOSTAT	10,000+ indicators on production, trade, prices, land, inputs, food security, agri-environment	245 countries/territories, 1961-present	https://www.fao.org/faostat/en/
World Bank WDI	~100 agricultural indicators: land, yields, value added, employment, irrigation, mechanization	217 economies, 1960-present	https://databank.worldbank.org/source/world-development-indicators
OECD Agricultural Policy Monitoring	PSE, CSE, GSSE, TSE and sub-indicators for agricultural support	38 OECD members + partners	https://www.oecd.org/en/topics/policy-issues/agricultural-policy-monitoring.html
OECD-FAO Agricultural Outlook	Commodity prices, production, trade, labor productivity projections	Global, regional, national	https://www.oecd.org/en/publications/2025/07/oecd-fao-agricultural-outlook-2025-2034_3eb15914.html
World Bank LGAF	21 land governance indicators across 5 thematic areas	30+ countries (assessment-based)	https://www.worldbank.org/en/topic/land , https://landportal.org/book/dataset/wb-lgaf2013
FAO AQUASTAT	Water use, irrigation, and water resources in agriculture	Global	https://www.fao.org/aquastat/en/
FAO GIEWS	Food security early warning indicators	Global	https://www.fao.org/giews/en/
World Bank AgriConnect	Smallholder-focused indicators on productivity, market access, finance	Pilot countries (Senegal, Brazil, etc.)	https://www.worldbank.org/ext/en/agriconnect, https://data360.worldbank.org/en/api
ILO ILOSTAT	Agricultural employment, wages, working conditions	200+ countries	https://ilostat.ilo.org/data/
UNCTADstat	Agricultural trade, FDI, commodity prices	Global	https://unctadstat.unctad.org/

TABLE 4: OTHER DATABASES AND APIS THAT SUIT FOR FUTURE VERSIONS OF NOSTRADAMUS

Database	Link	API
Aerial photos	https://www.archives.gov/research/cartographic/aerial-photography	Aerial Photography | National Archives
AGRIBALYSE	https://doc.agribalyse.fr/documentation-en/agribalyse-data/data-access	API Impacts environnementaux - AGRIBALYSE® - api.gouv.fr
Agrometeo	https://www.agrometeo.ch/de	data.europa.eu
ALOS-PALSAR	https://earth.esa.int/eogateway/catalog/alos-palsar-products	ALOS PALSAR | NASA Earthdata
Apollomapping (incl. Quickbird, Ikonos)	https://apollomapping.com/	https://apollomapping.com/blog/image-hunter-updates-so-many-new-apis

AQUASTAT (FAO)	https://www.fao.org/aquastat/en/	AQUASTAT - FAO's Global Information System on Water and Agriculture
Centre for Agriculture and Biosciences International (CABI)	https://www.cabi.org/	https://techdocs.gbif.org/en/openapi/
Copernicus Atmosphere Monitoring Service (CAMS)	https://atmosphere.copernicus.eu/	Data | Copernicus
Copernicus Climate Data Store	https://cds.climate.copernicus.eu/	CDSAPI setup - Climate Data Store
Copernicus Land Monitoring Service (CLMS)	https://land.copernicus.eu/en	GitHub - eea/copernicus-land-monitoring-service-ApiTools: Copernicus
Copernicus Marine Monitoring Service (CMEMS)	https://marine.copernicus.eu/	Which APIs are provided? | Copernicus Marine Help Center
Earth resources observation and science (EROS, SRTM) center	https://www.usgs.gov/centers/eros/science/usgs-eros-archive-products-overview	https://data.nasa.gov/dataset/?tags=earth-science&tags=topography&organization=nasa&page=7
EarthData (NASA)	https://modis.gsfc.nasa.gov/	Earthdata Search APIs | NASA Earthdata
Emissions Database for Global Atmospheric Research	https://edgar.jrc.ec.europa.eu/	Joint Research Centre Data Catalogue - Emissions Database for Global Atmospheric Research - European Commission
ERA5-Land	https://www.ecmwf.int/en/era5-land	https://www.youtube.com/watch?v=7S8L8_-4R8Q
ESA - Sentinel-2	https://www.esa.int/Applications/Observing_the_Earth/Copernicus/Sentinel-2	FREE ESA SENTINEL-2 DATA - Arlula API
ESA Sentinel Hub	https://www.sentinel-hub.com/	API
European and Mediterranean Plant Protection Organization (EPPO)	https://www.eppo.int/	EPPO Global Database
European Environment Agency (EEA)	https://www.eea.europa.eu/en	API — European Environment Agency
European Soil Data Centre (ESDAC)	https://esdac.jrc.ec.europa.eu/	ESDAC - European Commission
European Space Agency (EESA):Satinel 1-2	https://sentinels.copernicus.eu/web/sentinel/home	ESA - The Sentinel missions
Eurostat	https://ec.europa.eu/eurostat	API - Getting started - User guides - Eurostat
FADN	https://agridata.ec.europa.eu/extensions/FarmEconomyFocus/FADNDatabase.html	European Commission | Agri-food data portal | FADN Database
FAOSTAT	https://www.fao.org/faostat/en/#home	https://github.com/FAOSTAT/faostat-api
GBIF | Global Biodiversity Information Facility	https://www.gbif.org/	CRAN: Package rgbif
GEOGLAM Crop Monitor	https://www.cropmonitor.org/	GEOGLAM Crop Monitor
Global Agro-Ecological Zones (GAEZ)	https://gaez.fao.org/	GAEZ v4 Data Portal
Global Biodiversity Information Facility (GBIF)	https://www.gbif.org/	GBIF API Reference :: Technical Documentation

Global Forest Watch	https://www.globalforestwatch.org/	GFW Data API - ReDoc
Global Surface Water Explorer	https://global-surface-water.appspot.com/	Global Surface Water - Data Access
Global Yield Gap Atlas (GYGA)	https://www.yieldgap.org/	Subscription and service - Global yield gap atlas
Google Earth Engine	https://earthengine.google.com/	Google Earth Engine | Google for Developers
High-resolution Landsat 4-9.	http://landsat.usgs.gov/	Machine-to-Machine (M2M) API
International Trade Centre	https://www.trademap.org/	International Trade Centre data • European University Institute
ISRIC – World Soil Information	https://www.isric.org/	Soilgrids REST API - Swagger UI
ISRIC SoilGrids	https://www.isric.org/explore/soilgrids	Soilgrids REST API - Swagger UI
LUCAS Soil Database	https://esdac.jrc.ec.europa.eu/projects/lucas	data.europa.eu
NASA Crop Drought Monitor (GRACE-FO & SMAP)	https://nasagrace.unl.edu/	Data Catalog | Drought.gov
NASA Earthdata (LP DAAC, MODIS, Landsat, Sentinel)	https://www.earthdata.nasa.gov/	Earthdata Search | Earthdata Search
National Oceanic and Atmospheric Administration NOAA, NASA	https://oceanservice.noaa.gov/, https://www.ngdc.noaa.gov/eog/	NASA Open APIs
Natura 2000 Database	https://natura2000.eea.europa.eu/	Natura 2000 sites open data in a single API request
OECD	https://www.oecd.org/	API
OpenStreetMap (OSM)	https://www.openstreetmap.org/#map=8/46.825/8.224	Mapbox vs. Google Maps vs. OpenStreetMap APIs
PlanetScope Agriculture Monitoring	https://www.planet.com/	Subscriptions API for Daily Agriculture Monitoring
Sentinel Hub (Copernicus)	https://scihub.copernicus.eu/	Sentinel Hub | Copernicus Data Space Ecosystem
SoilGrids	https://soilgrids.org/	SoilGrids250m 2.0
Street view (Google, Baidu)	https://www.google.de/intl/de/streetview/	Street View Static API overview | Google for Developers
TerraSAR-X	https://terrasar-x-archive.terrasar.com/	TerraSAR-X and TanDEM-X - Earth Online
The Swiss Food Composition Database	https://naehrwertdaten.ch/en/	https://naehrwertdaten.ch/en/
UN	https://unstats.un.org/UNSDWebsite/	Data Portal
USAID's Famine Early Warning Systems Network (FEWS NET)	https://fews.net/	Famine Early Warning Systems Network (FEWS NET) - Catalog
USDA	https://fdc.nal.usda.gov/; https://www.fas.usda.gov/data	Data APIs | Economic Research Service
World Bank Open Data	https://www.worldbank.org/en/home	API Document
World Environment Situation Room	https://wesr.unep.org/	WESR Resources | WESR
World Food LCA database	https://ira.agroscope.ch/en-US/publication/34029	WFLDB: World Food LCA Database - Quantis

3.2 DATA TYPES AND CLASSIFICATION CRITERIA (GROUPS AND SOLUTIONS A AND B)

The databases mentioned in Section 3.1 enable the tracking and analysis of the dynamics and current state of agri-food sectors worldwide, albeit most often on a yearly basis and at the country level. Obviously, their content cannot be fully allocated to either business data or policy making data. To solve this issue, further actions took place at a level of indicators:

- obtaining a list of indicators for the data sources at a focus
- defining precisely the groups
- identifying the likelihood that the indicators belong to each group

The groups are defined as follows:

- **DATA FOR MARKET AND AGRICULTURAL ECONOMIC ANALYSIS (GROUP A).** Official statistics and administrative data, including national agricultural censuses, economic accounts, and trade statistics, provide foundational information on agricultural structure and performance. However, these sources often suffer from significant time lags, with data publication delays of one to three years common in many jurisdictions. Market Information Systems (MIS), such as those operated by the Food and Agriculture Organization (FAO) and national ministries, provide timelier price and supply data but vary considerably in geographic coverage and data quality (Svensson & Yanagizawa, 2009). Remote sensing and Earth observation data, including satellite-derived vegetation indices and yield estimates, offer near-real-time information on crop conditions but require substantial calibration and ground-truthing (Lobell et al., 2009). Private and crowdsourced data streams, including mobile-based price reporting and farmer-generated data, represent emerging sources with high potential but variable reliability and standardisation.

- **DATA FOR SOCIO-ECONOMIC ANALYSIS OF FARMERS AND RURAL COMMUNITIES (GROUP B)** Census and household survey data, such as the Living Standards Measurement Study (LSMS) and Demographic and Health Surveys (DHS), provide comprehensive socio-economic profiles but are typically conducted at multi-year intervals, limiting their utility for real-time decision support (Grosh & Glewwe, 2000). Living standards measurement studies offer detailed income, consumption, and welfare data but are resource-intensive and geographically concentrated. Participatory rural appraisal data capture local knowledge and community dynamics but are often qualitative, non-standardised, and difficult to aggregate or compare across sites (Chambers, 1994). Mobile and digital trace data, including call detail records and mobile money transactions, offer unprecedented granularity on mobility, communication, and financial behaviour but raise significant privacy and ethical concerns (Blumenstock, 2018).

Indicator assignment rules were as follows:

- Economic/market terms (GDP, trade, investment) got higher **business score** (Solution A)
- Social/public terms (education, health, inequality) got higher **policy score** (Solution B)
- Labor-related indicators are considered moderate-to-high relevance **for both**
- Ambiguous indicators got a **balanced (50/50) score**

These criteria allowed for defining

- **Open Call 1 – Farm Decision Making** – with High scores (70–100) for
    - Crop performance (yield, production)
    - Environmental conditions (soil, weather)
    - Market signals affecting farm choices (prices, costs)
- **Open Call 2 – Policy Creation** – High scores (70–100) for:
    - Regulation, subsidies, compliance
    - Sustainability and environmental indicators
    - Social systems (education, health)

Selected broad indicators used in planning or evaluation and selected general economic indicators that indirectly affect farming were used in both Calls. The indicators in this guide were selected **using the following criteria**, designed to ensure relevance for both operational decision-making (farmers and agribusinesses) and strategic policy design (land-policy and food-policy makers):

- **Official and openly available data source**: Each indicator is drawn from an internationally recognized database (FAO, World Bank, OECD, etc.) to ensure credibility, comparability, and standardized methodologies.
- **actionability for farmers & businesses**: Indicators must directly inform farm-level or business-level decisions — e.g., input costs, yields, market prices, credit access, mechanization, and seed quality.
- **policy relevance for land & food policy makers**: Indicators must inform land governance, food security strategy, agricultural support policy, trade policy, or environmental regulation.
- **international comparability:** Indicators are measured consistently across countries and time periods, enabling benchmarking and cross-country analysis.
- **coverage of key domains:** The selection covers the full agricultural value chain — from land and inputs, through production and productivity, to markets, trade, food security, and environmental sustainability.
- **frequency & timeliness**: Indicators are updated regularly (typically annual) to support both short-term operational planning and long-term strategic monitoring.
- **disaggregation potential**: Where possible, indicators can be broken down by commodity, farm size, gender, region, or income group to support targeted interventions.

3.3 NOSTRADAMUS CUBES - CREATIVE VISUALISATION

It is worth mentioning that socio-economic module is not the only one data-cube and module in Nostradamus Project. Figure 2 demonstrates one of the creative visualizations of the Nostradamus design (all Figure) and a socio-economic module in it (e,g. green cube). The more technical example of data that feeds data cubes is available at Example of Content for Socioeconomic Data-Cubes in Nostradamus TEAMs environment (available for members of Nostradamus Consortium and upon request)



FIGURE 2: CREATIVE VISUALISATION OF THE NOSTRADAMUS DATA CUBES

4. DATA GAP ANALYSIS AND BASELINE FOR MODULE DESIGN

The data gap is operationalised as the difference between the data requirements implied by the analytical models reviewed in Section 2 and the data available from the sources assessed in Section 3. Data gaps identified in studies can be categorised into three groups:

- Studies explicitly discussing data gaps as a core limitation;
- Studies relying on surveys, indicating that the requested data is not available in existing governmental statistics;
- Studies outlining minimum data requirements necessary for model functionality. This classification helps to identify data demands from modelers that should be met in the development of future databases.

4.1 TYPES OF DATA GAPS BY HANDLING

Numerous studies have addressed the limitations of data availability:

- As a core limitation in the discussion sections of their manuscripts and reports
- asked the necessary data in the surveys
- settled minimum requirements for agri-food models.

In the discussion sections, studies highlighted recurring issues that impede the adoption of advanced models and limit the accuracy of analyses. A lack of data, narrow data coverage and low level of detail in data is particularly prevalent in remote or underdeveloped regions, where data limitations significantly constrain the applicability of existing models for long-term analysis and comparative research. Studies highlight the importance of:

- collecting data pieces from field
- considering labour aspects, working patterns
- considering organic (livestock) farming,
- reduction in the number of animals, their types and price
- considering field-scale restrictions with respect to the crop rotation
- considering spatial and industry coverage
- narrowing disbalance between environmental and farm data quality,
- providing data transparency, dependency, accuracy, reliability, guarantees,
- covering downstream processes, such as processing, transports, storage, packaging, retail or consumption,
- considering food energy content, processing, waste, new foods and the weight of food packaging and bones in meat
- CO2 emissions (or sinks) from the land use, land-use changes and forestry (LULUCF) sector in the short and the long term
- many other

The questions asked in the questionnaires may serve as an identification which data is missing and therefore cannot be used in modeling until collected by someone. The questions that are usually asked in questionnaires include questions on:

- Governance: covers institutional accountability through business documentation (personnel manuals, bylaws) and stakeholder engagement via interviews with management and senior leadership.
- Environmental tracks: resource use and ecological impact through direct environmental testing (soil, wastewater), utility and fuel consumption records, and visual facility inspections.
- Economics: focuses on financial viability via company bookkeeping, business planning documents, and interviews with financial personnel or management.
- Social input: labour conditions through employee and supplier interviews, review of personnel files and pay records, and physical workplace inspections.
- Farm System & Production documents: biophysical farm characteristics (cropping and livestock systems, yields, milk/meat output), material and energy flows (purchased inputs like fertilisers, seeds, fuel, and energy; sold outputs including crops, animals, and manure), and economic farm performance (gross output value, intermediate consumption costs, five-year investments, and labour wages).
- Human & Social Wellbeing: evaluates quality of life and human capital dimensions: financial and working conditions, living conditions, health, work/life balance, education and skills, social connections, and civic participation and governance.

Finally, most difficult models have minimum data requirements. For example, the current version of SWISSFoodSys encompasses at least 43 crops, three crop production intensities (conventional, extenso and organic), 11 seed varieties used for (or produced from) 12 crops, 41 livestock categories, six types of livestock farms, 55 fodder products, 13 fodder nutrients, 13 fodder nutrient requirements by livestock category. Additionally, it includes 181 agricultural products, three macronutrients, 13 micronutrients, and 101 environmental impact factors. The model consumes data gathered since 1990, featuring both yearly and, in many cases, monthly indicators in SWISSFoodSys turnover. The approximate range of variables to launch SWISSFoodSys includes:

- Crop variables: crop area and amount, harvest and seed requirements
- Livestock variables: number of livestock (next generation, slaughtered, mother and offspring), information on livestock products (milk, eggs)
- Fodder: number, nutrient content, and supply structure (by targeted livestock, type and source of fodder)
- Stocks: presence and movement of stocks at the end of each period
- Raw products: raw products available for processing, processed and unprocessed product quantities, food supply from processed products and by-products
- Food waste at processing and by-product production stages

- Import and export: quantity of each and all the products, fodder, and deviations between modelled and observed import and export
- Supply of food products (total and for consumption), calorie supply
- Support: total current direct payments for agriculture, export high-cost assumptions for commodities, export low-cost assumptions for commodities, export costs, export low-cost assumptions for all commodities
- Consumption by food, food groups, nutrients, and in calories, total consumption of vegetables, also nutrient rich food index, limiting nutrient index for mentioned categories, where possible
- Calorie: consumption, import, export, domestic calorie production
- Agricultural:
    - nitrogen and phosphorous use for crops, their supply, demand and shortage, environmental effects, import from fodder, deposit in agriculture, removal from plants, input and output (total and through mineral fertilizer),
    - plant protection risk indicator for surface water, semi-natural habitat, groundwater,
    - greenhouse gas, ammonia, nitrate, nitrous oxide, inert nitrogen emissions from all stages of the food system.

Most of these indicators are not openly available, highlighting a data gap for future research.

4.2 TYPES OF DATA GAPS BY GROUP

Nostradamus needs data gaps to be classified by groups. The following classification allows to see the gaps discussed in Section 4.1 from the Nostradamus perspective.

GROUP A: FARMING BUSINESS DATA GAPS. Critical gaps in farming business data include the absence of real-time, farm-level price and cost data; limited coverage of input supply chain dynamics; insufficient granularity in production and yield data; and weak integration of financial performance metrics with operational data. Temporal gaps are particularly acute for market data, where the lag between price formation and data availability often exceeds the decision window for farmers. Spatial gaps concentrate in remote or underserved regions where market information systems have limited reach.

GROUP B: SOCIO-ECONOMIC DATA GAPS. Socio-economic data gaps are characterised by insufficient frequency of household-level surveys with openly available results, limited standardisation of community-level indicators, weak integration of gender and social inclusion dimensions into routine data collection, and poor coverage of intangible assets such as social capital and institutional trust. The absence of longitudinal data on rural welfare trajectories limits the capacity to assess causal impacts of policy interventions. Digital exclusion further compounds these gaps, as populations without mobile or internet access are systematically underrepresented in emerging data streams.

5. DESIGN OF THE NOSTRADAMUS SOCIO-ECONOMIC MODULE

Sustainable agricultural policy increasingly depends on timely, integrated socio-economic evidence that extends beyond traditional global statistical systems. While such systems provide extensive datasets, they rarely offer operational tools capable of translating data into structured, standardized, decision- and policy-ready insights. Nostradamus socio-economic module developed within the Horizon Europe project Nostradamus, will be designed to strengthen evidence-informed policymaking in agricultural sustainability governance.

The tool forms part of the broader Nostradamus Data Cube infrastructure, which integrates environmental, agricultural and socio-economic data within an analytical environment across five countries (Cyprus, Germany, Serbia, Slovenia, Switzerland). Within this ecosystem, the socio-economic module provides a structured analytical layer that translates large-scale indicator datasets into standardised, policy-related outputs.

5.1 TECHNICALITIES FOR APP DEVELOPERS

This section shortly introduces the key objectives, functional requirements, outlook on data, architecture, and other technical aspects of the Module.

Objectives and Functional Requirements. The Nostradamus module should be designed to achieve three primary objectives:

- consolidate disparate data streams into unified data structure;
- enable real-time and retrospective analytics for farm decision support and policy formulation; and
- provide standardised interfaces for third-party digital tool integration.

Functional requirements include support for multi-dimensional querying, automated data quality assessment, temporal and spatial aggregation, and export capabilities compatible with common analytical platforms.

Data cube architecture. The data cube architecture implements dimensional modelling for both Group A and Group B data.

- For Group A, dimensions include time (daily to annual), geography (farm, district, national), commodity (crop, livestock, input).
- For Group B, dimensions include time, geography (household, community, region), demographic characteristics (gender, age, education, health).

The integration layer should enable cross-group analytics, such as correlating farm financial performance with household welfare indicators or examining how market access mediates the relationship between agricultural productivity and rural poverty.

Digital Tool Integration Pathways. The module exposes data through application programming interfaces (APIs) designed for integration with Group A and Group B solutions. Group A interfaces prioritise real-time data delivery, alert mechanisms for price thresholds, and visualisation tools for market trends. Group B interfaces emphasise dashboard functionality for socio-economic monitoring, disaggregated reporting by gender and social group, and export formats compatible with policy brief production. Both interface sets implement authentication, rate limiting, and data governance controls to ensure responsible data use. I good example of how this may work is a site of The Swiss Food Composition Database that includes data and reporting sections.

Technology Stack and Implementation Considerations. The technology stack balances performance, scalability, and maintainability. Core components include columnar data stores for efficient multi-dimensional querying, stream processing frameworks for real-time data ingestion and processing, and containerised microservices for modular deployment. Implementation considerations include cloud-native architecture for elastic scaling, edge computing capabilities for low-latency farm-level applications, and comprehensive logging and monitoring for operational reliability.

For each indicator and territory, the tool should be able to generate:

- **the most recent available value,**
- **historical minimum and maximum values,**
- **long-term averages, and**
- **short-, medium-, and long-term trend estimations based on linear regression analyses (one-, five- and ten-year horizons).**

5.2 PRACTICALITIES FOR END USERS

The tool operationalises more than 1000 key socio-economic indicators. Through automated bulk processing implemented in Nostradamus tool, indicators of agricultural and non-agricultural relevance are harmonised, grouped by country and systematically evaluated using reproducible statistical routines. For each indicator and territory, the tool generates, by design:

- **the most recent available value,**
- **historical minimum and maximum values,**
- **long-term averages, and**
- **short-, medium-, and long-term trend estimations based on linear regression analyses (one-, five- and ten-year horizons).**

These outputs enable rapid assessment of structural socio-economic developments relevant to rural resilience, agricultural productivity, governance capacity and market dynamics. By enabling systematic comparison of socio-economic trajectories across countries and over time, it facilitates anticipatory governance rather than retrospective reporting.

In practice, the socio-economic decision-support tool enhances policymakers' capacity to detect emerging socio-economic shifts through structured and regular multi-horizon trend monitoring assess long-term development patterns, and calibrate policy interventions accordingly. It demonstrates how socio-economic modelling can be embedded within integrated data ecosystems to provide structured, transparent and actionable information for sustainable agricultural policy.

5.3 DATA TREE FOR SOCIO-ECONOMIC MODULE

For Farmers and Agribusinesses – Data for market and agricultural economic analysis (Group A):

- Use productivity and yield indicators to benchmark your farm against regional averages.
- Monitor input price ratios (nutrient/output, seed-to-grain) to optimize input purchases and planting decisions.
- Track market access indicators (transport costs, dealer density, road access) to identify bottlenecks and investment opportunities.
- Use finance indicators to assess credit availability and negotiate better loan terms.

For Land-Policy and Food-Policy Makers – Data for socio-economic analysis (Group B):

- Use LGAF indicators to diagnose weaknesses in land governance and prioritize reform areas.
- Monitor land use change, irrigation coverage, and organic farming adoption to guide spatial planning and sustainable land management.
- Track land tenure indicators (women's rights, customary recognition, dispute resolution) to design inclusive land policies.
- Use food security indicators (PoU, FIES, food deficit depth) to target social protection and food assistance.
- Monitor cereal import dependency and food price volatility to design trade and buffer stock policies.
- Use OECD PSE/GSSE indicators to assess the efficiency and equity of agricultural support.
- Track agri-environmental indicators to align agricultural policy with climate and sustainability commitments.

For All Users: Cross-reference indicators across databases (e.g., compare FAOSTAT production data with World Bank WDI yield data) for triangulation; time-series data to identify trends and set baselines for monitoring and evaluation; disaggregated indicators by region, gender, farm size, or commodity where possible. **DATA TREE (GROUPS A&B) IS AVAILABLE IN APPENDIX.**

5.3.1 INDICATORS FOR FARMERS AND AGRICULTURAL BUSINESSES – GROUP A

The indicators in Tables 5-9 support operational decision-making at the farm and enterprise level — input sourcing, production planning, profitability assessment, and market access.

TABLE 5: GROUP A - MARKET ACCESS & PRICES

Indicator Name	Description	Relevance	Link to Source
FAO Food Price Index	Monthly measure of global food commodity price changes	Track price trends for cereals, meat, dairy, oils, sugar	https://www.fao.org/worldfoodsituation/foodpricesindex/en/
Domestic food price index	National food price level relative to base period	Monitor local price volatility and inflation risk	https://www.fao.org/faostat/en/#data/FS
Producer price index for agriculture	Price changes received by farmers for agri-food products	Assess farm-gate price trends and revenue potential	https://www.fao.org/faostat/en/#data/PP
Cost of transportation ($/mt/km)	Transport cost per metric ton per kilometer	Evaluate logistics costs and market access barriers	https://documents1.worldbank.org/curated/en/698581468009642974/pdf/911330WP0REVIS0iness0Indicators0Web.pdf
Rural Access Index (%)	Proportion of rural population within 2 km of all-weather road	Assess connectivity to markets and input suppliers	https://documents1.worldbank.org/curated/en/187151469504088937/pdf/105162-WP-P132359-PUBLIC-CSAIndicatorsReportweb.pdf
Agro-input dealer density (per 10,000 farms)	Number of agro-dealers serving farm populations	Measure input market accessibility	https://documents1.worldbank.org/curated/en/698581468009642974/pdf/911330WP0REVIS0iness0Indicators0Web.pdf
Logistics Performance Index (LPI)	Quality of trade and transport infrastructure (0-5 scale)	Assess supply chain efficiency	https://lpi.worldbank.org/

TABLE 6: GROUP A - EMPLOYMENT & LABOR IN AGRICULTURE

Indicator Name	Description	Relevance	Link to Source
Employment in agriculture (% of total employment)	Share of workforce employed in agriculture	Assess sectoral importance and labor market structure	https://data.worldbank.org/indicator/SL.AGR.EMPL.ZS
Employment in agriculture, female (% of female employment)	Female share of agricultural employment	Understand gender dynamics in farming	https://data.worldbank.org/indicator/SL.AGR.EMPL.FE.ZS
Employment in agriculture, male (% of male employment)	Male share of agricultural employment	Understand gender dynamics in farming	https://data.worldbank.org/indicator/SL.AGR.EMPL.MA.ZS
Agricultural wage rates	Average wages paid to agricultural workers	Assess labor costs and farm worker income	https://ilostat.ilo.org/data/

TABLE 7: GROUP A - PRODUCTIVITY & YIELD

Indicator Name	Description	Relevance	Link to Source
Cereal yield (kg per hectare)	Average production of cereals per unit of land	Benchmark farm productivity against regional/national averages	https://data.worldbank.org/indicator/AG.YLD.CREL.KG
Crop production index (2014-2016 = 100)	Volume of crop production relative to base period	Track production trends over time	https://data.worldbank.org/indicator/AG.PRD.CROP.XD
Livestock production index (2014-2016 = 100)	Volume of livestock production relative to base period	Monitor livestock sector performance	https://databank.worldbank.org/source/world-development-indicators/Series/AG.PRD.LVSK.XD
Food production index (2014-2016 = 100)	Volume of food production relative to base period	Assess overall food production capacity	https://data.worldbank.org/indicator/AG.PRD.FOOD.XD
Agriculture, forestry, and fishing value added per worker (constant 2015 US$)	Economic output per agricultural worker	Measure labor productivity and income potential	https://data.worldbank.org/indicator/NV.AGR.EMPL.KD
Agricultural labor productivity (OECD-FAO)	Agricultural GDP divided by number of agricultural workers	Proxy for gross agricultural income per worker	https://www.oecd.org/en/publications/2026/06/oecd-fao-agricultural-outlook-2026-2035_5610f218.html

TABLE 8: GROUP A - INPUT USE & ECONOMICS

Indicator Name	Description	Relevance	Link to Source
Fertilizer consumption (kg per hectare of arable land)	Total fertilizer nutrients applied per hectare	Optimize fertilizer use; compare against Abuja target (50 kg/ha)	https://data.worldbank.org/indicator/AG.CON.FERT.ZS
Nutrient/output price ratio (Pn/Po)	Ratio of nitrogen price to crop output price	Assess profitability of fertilizer use	https://documents1.worldbank.org/curated/en/698581468009642974/pdf/911330WP0REVIS0iness0Indicators0Web.pdf
Value/cost ratio (VCR) of fertilizer use	Marginal value product over marginal cost of fertilizer	Determine economic viability of fertilizer investment	
Use of certified/improved seeds (%)	Share of crop area planted with certified or improved seed	Assess seed quality and adoption of modern varieties	
Seed-to-grain price ratio	Price of seed relative to price of grain produced	Evaluate seed market efficiency	
Tractor density (per 100 km^2 of arable land)	Number of tractors per unit of arable land	Assess mechanization level and labor substitution potential	
Agricultural irrigated land (% of total agricultural land)	Share of agricultural land under irrigation	Plan water-dependent crops and assess drought risk	https://data.worldbank.org/indicator/AG.LND.IRIG.AG.ZS
Pesticide consumption (per ha)	Total pesticide use per unit of agri-land	Monitor input costs and environmental impact	https://www.fao.org/faostat/en/#data/RP

TABLE 9: GROUP A - FINANCE & CREDIT ACCESS

Indicator Name	Description	Relevance	Link to Source
Average lending rates for agricultural loans (real rates)	Interest rates charged on loans to agricultural borrowers	Assess cost of capital for farm investments	https://documents1.worldbank.org/curated/en/698581468009642974/pdf/911330WP0REVIS0iness0Indicators0Web.pdf
Percentage of non-performing agricultural loans	Share of agricultural loans in default	Gauge credit risk and banking sector health	
Percentage of commercial banks lending to agriculture	Share of bank portfolios allocated to agricultural lending	Assess financial sector engagement with agriculture	
Number of bank branches per 100,000 adult population	Banking infrastructure density	Measure financial inclusion and access to credit	
Warehouse receipt systems (existence/quality)	Systems allowing stored crops to serve as loan collateral	Access to post-harvest financing	
Credit reference bureaus (existence/quality)	Systems tracking borrower credit history	Reduce information asymmetry and lending risk	

5.3.2 INDICATORS FOR LAND-POLICY AND FOOD-POLICY MAKERS – GROUP B

The indicators in Tables 10-14 support strategic policy design, monitoring, and evaluation in land governance, food security, agricultural support, and sustainable development.

TABLE 10: GROUP B - LAND & RESOURCE GOVERNANCE

Indicator Name	Description	Policy Relevance	Link to Source
Agricultural land (% of land area)	Share of total land area used for agriculture	Monitor land use trends and agricultural expansion	https://data.worldbank.org/indicator/AG.LND.AGRI.ZS
Arable land (% of land area)	Share of land under temporary crops	Assess cultivable land availability	https://data.worldbank.org/indicator/AG.LND.ARBL.ZS
Arable land (hectares per person)	Cultivable land per capita	Track land scarcity and population pressure	https://data.worldbank.org/indicator/AG.LND.ARBL.HA.PC
Permanent cropland (% of land area)	Land under long-term crops (trees, vines)	Monitor permanent crop expansion	https://data.worldbank.org/indicator/AG.LND.CROP.ZS
Forest area (% of land area)	Forest coverage as share of total land	Track deforestation and land use change	https://data.worldbank.org/indicator/AG.LND.FRST.ZS
Area equipped for irrigation (million hectares)	Total land with irrigation infrastructure	Plan water infrastructure investment	https://www.fao.org/faostat/en/#data/RL
Share of arable land equipped for irrigation (%)	Irrigated share of cultivable land	Assess water infrastructure coverage	https://www.fao.org/faostat/en/#data/EL
Agricultural area under organic farming (%)	Share of agri-land under organic practices	Monitor sustainable agriculture adoption	https://www.fao.org/faostat/en/#data/RL
Land area equipped for irrigation (% of cropland)	Irrigation coverage relative to cropland	Assess irrigation expansion and water security	https://www.fao.org/faostat/en/#data/EL
Agricultural land use change (year-on-year %)	Annual change in agricultural land area	Detect land conversion trends	https://www.fao.org/faostat/en/#data/EL
Cropping patterns (arable, permanent crops, pastures)	Distribution of agricultural land by use type	Inform land use planning and diversification policy	https://www.fao.org/faostat/en/#data/EL
Livestock density (per km^2)	Number of livestock units per unit area	Assess carrying capacity and land pressure	https://www.fao.org/faostat/en/#data/EL

TABLE 11: GROUP B - LAND GOVERNANCE ASSESSMENT FRAMEWORK (LGAF) INDICATORS

Indicator Name	Description	Policy Relevance
LGI 1: Recognition of rights	Extent to which land rights are recognized and recorded	Design land tenure regularization programs
LGI 2: Rights to forest and common lands	Formal recognition of group and customary tenure	Protect communal and indigenous land rights
LGI 3: Urban land use restrictions	Justification and enforcement of urban land regulations	Inform urban planning and zoning policy
LGI 4: Transparency of land use restrictions	Public availability of land use change information	Ensure transparent land use decision-making
LGI 5: Restrictions on rights	Conditions attached to land ownership and transfer	Reform overly restrictive land laws
LGI 6: Speed of enforcement of restricted land uses	Timeliness of building and development permits	Improve regulatory efficiency
LGI 7: Land use planning	Quality and implementation of land use plans	Strengthen spatial planning capacity
LGI 8: Speed and predictability of enforcement	Efficiency of development permit processing	Reduce bureaucratic delays
LGI 9: Justification and time-efficiency of expropriation	Fairness and speed of land expropriation processes	Reform expropriation laws and compensation
LGI 10: Transparency of land valuations	Clarity and uniformity of property valuation for taxation	Improve land tax systems
LGI 11: Management of public land	Transparency and fairness in allocation of public land	Prevent corruption in public land transactions
LGI 12: Transfer of public land to private use	Competitive process and payment collection for leases	Ensure fair public land disposal
LGI 13: Public provision of land information	Quality and accessibility of land registry and cadastre	Modernize land administration systems
LGI 14: Assignment of responsibility for conflict resolution	Clear assignment and accessibility of dispute mechanisms	Strengthen land dispute resolution
LGI 15: Share of land affected by pending conflicts	Proportion of land under unresolved disputes	Target conflict resolution interventions
LGI 16: Large-scale land acquisition	Transparency and fairness in investor contracts	Regulate foreign and domestic land investments
LGI 17: Women's property rights to land	Gender equality in land ownership and inheritance	Design gender-equitable land policies

Note: Link is same for all indicators: https://thedocs.worldbank.org/en/doc/a91b90185037e5f11e9f99a989ac11dd-0050062013/original/LGAF-Manual-Oct-2013.pdf

TABLE 12: GROUP B - AGRICULTURAL POLICY SUPPORT INDICATORS (OECD)

Indicator Name	Description	Policy Relevance
Producer Support Estimate (PSE)	Annual monetary value of transfers to farmers from consumers and taxpayers	Measure total support to agricultural producers
Percentage PSE (%PSE)	PSE as % of gross farm receipts	Compare support levels across countries and time
Consumer Support Estimate (CSE)	Gross transfers to consumers of agricultural products	Assess consumer tax/subsidy from agricultural policies
Percentage CSE (%CSE)	CSE as % of consumption expenditure on farm products	Compare consumer burden across countries
General Services Support Estimate (GSSE)	Transfers for sector-wide services (R&D, infrastructure, biosecurity)	Measure public investment in agricultural enabling environment
Percentage GSSE (% of TSE)	Share of general services in total agricultural support	Assess balance between direct payments and public goods
Total Support Estimate (TSE)	Aggregate of all transfers to the agricultural sector	Measure total public and private support to agriculture
Percentage TSE (% of GDP)	TSE as % of national GDP	Assess fiscal burden of agricultural support
Producer Nominal Protection Coefficient (NPC)	Ratio of domestic to border price at farm gate	Measure price protection for producers
Producer Nominal Assistance Coefficient (NAC)	Ratio of gross farm receipts with support to receipts at border prices	Measure overall assistance to producers
Single Commodity Transfers (SCT)	Support tied to specific commodities	Assess commodity-specific distortions
Percentage SCT (%SCT)	SCT as % of gross receipts for specific commodity	Compare support by commodity

Note: Link is same for all indicators: https://www.oecd.org/en/topics/policy-issues/agricultural-policy-monitoring.html

TABLE 13: GROUP B - CLIMATE-SMART AGRICULTURE POLICY INDICATORS

Indicator Name	Description	Policy Relevance
CSA-PoI Index (Policy Support)	Composite index of climate-smart agricultural policy adoption	Assess enabling environment for CSA
Agricultural adaptation policy	Existence and quality of climate adaptation strategies for agriculture	Guide adaptation investment priorities
Agricultural mitigation policy	Existence and quality of GHG reduction strategies for agriculture	Guide mitigation policy design
Multisectoral coordination	Mechanisms for cross-ministry coordination on CSA	Strengthen institutional coherence
Disaster risk management	Policies and systems for agricultural risk management	Design crop insurance
Agricultural R&D investment	Public spending on climate-adaptive agricultural research	Prioritize research funding
Social safety nets for agriculture	Existence of targeted safety nets for farming communities	Design resilience-building social protection
National GHG inventory system	Agricultural emissions tracking and reporting	Meet international climate commitments

Note: Link is same for all indicators: https://documents1.worldbank.org/curated/en/187151469504088937/pdf/105162-WP-P132359-PUBLIC-CSAIndicatorsReportweb.pdf

TABLE 14: GROUP B - FOOD SECURITY INDICATORS

Indicator Name	Description	Policy Relevance
Prevalence of undernourishment (PoU)	% of population with insufficient caloric intake	Monitor hunger and target food assistance
Prevalence of moderate or severe food insecurity (FIES)	Experience-based food insecurity measure	Assess food access dimension of food security
Depth of the food deficit	Average kilocalorie shortfall of undernourished population	Quantify the food gap for policy targeting
Average dietary energy supply (kcal/capita/day)	Average calories available per person	Monitor food availability at national level
Average value of food production	Monetary value of food produced per capita	Assess agricultural contribution to food availability
Share of dietary energy from cereals, roots and tubers	Dependence on staple crops for calories	Assess dietary diversity and nutrition quality
Cereal import dependency ratio	Share of cereal consumption met by imports	Assess food self-sufficiency and trade vulnerability
Per capita food production variability	Year-to-year variation in food production per person	Assess production stability and resilience
Per capita food supply variability	Year-to-year variation in food supply per person	Assess supply chain stability
Domestic food price volatility	Variation in national food prices over time	Monitor price stability and inflation risk
Value of food imports over total merchandise exports	Food import burden relative to export earnings	Assess foreign exchange vulnerability for food imports
Cost and affordability of a healthy diet	Economic access to nutritious food	Design nutrition-sensitive social protection

Note: Link is same for all indicators. https://www.fao.org/faostat/en/#data/FS

5.3.3 AGRI-ENVIRONMENTAL INDICATORS – GROUPS A&B

The indicators in Table 15 measure the environmental footprint of agriculture and support sustainable land management policies.

TABLE 15: GROUPS A&B - AGRI-ENVIRONMENTAL INDICATORS

Indicator Name	Description	Policy Relevance	Link to Source
Gross nitrogen balance	Excess nitrogen in agricultural systems (inputs minus outputs)	Assess nutrient pollution and eutrophication risk	https://www.fao.org/faostat/en/#data/EM
Gross phosphate balance	Excess phosphorus in agricultural systems	Assess water pollution from agriculture	
Ammonia emissions from agriculture	NH3 released from livestock and fertilizer use	Monitor air quality and acidification	
GHG emissions from agriculture	Total greenhouse gas emissions from agriculture	Track climate impact of agriculture	
Share of agricultural GHG on total GHG (%)	Agriculture's contribution to national emissions	Prioritize sectoral mitigation strategies	
Water abstraction for agriculture	Volume and share of water used for irrigation	Manage water scarcity and allocation	
Soil erosion rate	Average soil loss per hectare per year	Target soil conservation investments	
Soil quality (carbon content in topsoil)	Organic carbon content in upper soil layers	Monitor soil health and carbon sequestration	
Conservation agriculture area (% of cultivated area)	Land under minimum tillage and soil cover practices	Promote sustainable farming practices	
Area under organic farming (% of agricultural land)	Share of land certified as organic	Monitor organic agriculture adoption	
Protected area as % of total area	Land under environmental protection	Assess conservation commitment	
Biofuels production	Volume of agricultural feedstock used for biofuel	Assess land use competition (food vs. fuel)	
Energy use in agriculture/forestry	Total energy consumed by agricultural sector	Monitor energy intensity of farming	
Share of agricultural energy on total energy (%)	Agriculture's share of national energy consumption	Assess sectoral energy dependence	
Pesticide consumption (total and per hectare)	Total and intensity of pesticide use	Monitor chemical input dependency and environmental risk	https://www.fao.org/faostat/en/#data/RP
Mineral fertilizer consumption (N, P, K)	Fertilizer use by nutrient type	Target nutrient management policies	https://www.fao.org/faostat/en/#data/RFN

5.3.4 AGRICULTURAL TRADE & MARKET INDICATORS – GROUPS A&B

The indicators in Table 16 support trade policy, market analysis, and value chain development.

TABLE 16: GROUPS A&B - AGRICULTURAL TRADE & MARKET INDICATORS

Indicator Name	Description	Policy Relevance	Link to Source
Agricultural exports value	Total value of agricultural product exports	Assess export competitiveness and diversification	https://www.fao.org/faostat/en/#data/TM
Agricultural imports value	Total value of agricultural product imports	Monitor food import dependency	
Net agricultural trade balance	Exports minus imports of agricultural products	Assess trade position and food sovereignty	
Agriculture, forestry, and fishing value added (% of GDP)	Agricultural sector contribution to national economy	Assess sectoral economic importance	https://data.worldbank.org/indicator/NV.AGR.TOTL.ZS
Producer returns on export crops	Share of FOB export price captured by producers	Assess value chain equity and farmer income	https://documents1.worldbank.org/curated/en/698581468009642974/pdf/911330WP0REVIS0iness0Indicators0Web.pdf
Degree of value added to exports	Share of exports that are processed vs. raw	Guide agro-processing investment policy	
Export policy disincentives	Export taxes, quotas, or bans on agricultural products	Identify trade policy barriers	
Export approval procedures	Steps, costs, and time to obtain export approvals	Reduce trade transaction costs	

6. PILOT TESTING AND VALIDATION FRAMEWORK

6.1 OBJECTIVES, SUCCESS CRITERIA AND A ROLE OF WP6

Pilot testing objectives are defined across three dimensions:

- technical performance (data latency, query response times, system uptime),
- analytical validity (accuracy of trend detection, robustness of pattern identification, reliability of factor analysis), and
- user utility (relevance to farm decisions, utility for policy formulation, ease of integration with third-party tools).

Success criteria are specified as measurable thresholds for each dimension, with explicit tolerances for deviation. The module is designed for integration with solutions selected through the Open Call process under Work Package 6. Integration protocols specify data exchange formats, API endpoints, authentication mechanisms, and service level agreements. The Open Call framework ensures that module testing occurs across a diverse portfolio of third-party solutions, reflecting varied regional contexts, target crops, and user populations.

The role of WP6 is among other tasks is to:

- establish the pilot deployment protocol, including site selection criteria, baseline data collection procedures, module installation and configuration guidelines, and user training protocols. The protocol specifies monitoring arrangements, data collection schedules, and contingency procedures for technical failures or data quality issues.
- implement the performance evaluation framework, combining quantitative metrics (system performance, analytical accuracy) with qualitative assessment (user satisfaction, decision impact). Feedback loops are designed to channel pilot findings into iterative module refinement, with explicit mechanisms for bug reporting, feature requests, and priority setting. Evaluation results inform the final module specification and deployment roadmap.

The scalability and replication assessment examines the feasibility of extending module deployment beyond pilot sites to broader geographic and thematic coverage. Assessment criteria include technical scalability (data volume, user load), financial sustainability (operational costs, revenue models), and institutional readiness (data governance capacity, stakeholder engagement). Replication pathways are specified for different regional and sectoral contexts.

6.2 TEACHING MATERIALS PREPARED BY T3.3 FOR WP6

In today's dynamic agricultural environment, reliable data and sound analysis are essential for understanding market trends, identifying opportunities and challenges, and making informed decisions. This training introduces practical approaches for collecting, interpreting, and using agricultural market and socio-economic data to support evidence-based planning, improve interventions, and contribute to sustainable agricultural development and improved livelihoods.The training overview is presented in Table 17.

TABLE 17: TRAINING TIMING

Activity	Timing
Estimated Learning Duration *	45 min, 0.04 ECTS
Guided Learning Time	20 min
Self-Study	10 min
Practical Implementation	5 min
Assessment	10 min

Note: * based on Guidelines for Estimating Total Learning Duration

6.3 THE FEATURES OF THE TRAINING

Learning Outcomes:

- LO1: Identify key agricultural market and socio-economic data sources and indicators
  - Identify key data sources used in agricultural analysis
  - Identify key indicators used in agricultural analysis
- LO2: Analyse agricultural market and socio-economic data
  - Interpret basic trends and patterns from datasets
  - Apply data insights to support planning and decision-making

Assessment:

To successfully complete this sub-unit, learners must:

- pass knowledge quiz (L01, 5 minutes)

Note: Assessment is based on guidelines: section 9 of guideline 2

Software / Platform Requirements (if applicable)

- Windows
- Microsoft Excel
- Internet access
- Internet Browser
- Nostradamus tool access

Cross-Cutting Considerations:

☑ Accessibility requirements have been considered where relevant (e.g., readable fonts, sufficient contrast, plain language, accessible file formats)

☑ Gender, diversity, equity and inclusion aspects have been considered where relevant (e.g., users, datasets, use cases, application design).

☑ Ethical and responsible use of data has been considered where relevant (e.g., data quality, transparency of data sources, privacy and data protection).

Learning Objective:

By the end of this session, participants will be able to identify key agricultural market and socio-economic indicators, interpret basic data trends, and use findings to support decision-making and planning.

Section	Content (What?)	Learner Effort/ Learning Mode	Type of Activity (Method)[1]	Learning Resources	Estimated Time
1	Introduction to Agricultural Market and Socio-economic Data and Learning Objectives	Guided Learning	Short video	M1 (webinar, PowerPoint slides)	15 min
2	Handout 1: List of sources to Agricultural Market and Socio-economic Data	Self-Study	Reading task	M2 (handout)	10 min
3	Practical Exercise	Practical implementation	Practical exercise	M3 (exercise)	5 min
4	Knowledge Check	Assessment	Quiz	M4 (questions)	10 min
5	Summary and Key Takeaways	Guided Learning	Short video	M1 (webinar, PowerPoint slides)	5 min

Note: an outline of the learning pathway, is based on guideline 2: How to design training materials, activities, and assessment criteria], and Guidelines for estimating total learning effort. **Section 1:** based on Agri-food modelling: socio-economic data and data-gaps. **Section 2:** based on The List of Open Data Sources for Agricultural, Food, Land, and Socio-Economic Research. **Section 3:** based on seminar "Data & Sustainable food system" HSG 01.04.2026. **Section 4:** 5 questions and a feedback question.

6.4 LEARNING MATERIAL

The training material consists of 3 main pillars:

1) The presentation

The presentation is created based on this report

TABLE 18: PRESENTATION OVERVIEW

Slide	Topic	Content	Timing
1	Title	Project overview & key numbers	0:00–1:00
2	The Challenge	Data gaps for farmers & policymakers	1:00–3:30
3	Method	Five-phase evidence-driven approach	3:30–6:00
4	Data Sources	The six main data sources (FAO, World Bank, OECD, Copernicus, FADN, UN)	6:00–8:30
5	Module Design	Group A (farm business) & Group B (policy) indicators	8:30–11:00
6	Architecture	Data cube dimensions & technical stack	11:00–13:00
7	Impact & Roadmap	Immediate value, future directions, training materials	13:00–15:00

2) The materials for reading

- The paper for reading: Loginova & Hoidn "Agri-food modelling: socio-economic data and data-gaps", Proc. SPIE 13816, Eleventh International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2025), 138160K (19 Sept 2025); https://doi.org/10.1117/12.3069528
- The list of indicators for reading: The List of Open Data Sources for Agricultural, Food, Land, and Socio-Economic Research
- The current report

3) The video and a quiz

The video will be created using NotebookLM – the soft that creates supplementary learning materials such as: summaries, study guides, debates, deep dives, podcasts (not primarily intended for creating narrated videos) through the following steps:

- Upload teaching material (e.g., slides, PDFs, readings, transcripts)
- Let NotebookLM generate a concise summary, FAQs, key takeaways, an audio overview (podcast-style discussion)
- Create alternative explanations tailored to different learner groups
- Use NotebookLM to generate potential discussion questions, reflection prompts, or quiz questions

6.4.1 PRESENTATION

SLIDE 1 — TITLE SLIDE (0:00 – 1:00)

Opening Hook:

- "Agriculture operates at the intersection of volatile markets, evolving policies, and deeply contextual social realities. Yet the data farmers and policymakers need is fragmented, delayed, or simply missing."
- Key Points to Cover:
- This is Task 3.3 of the Nostradamus project (Horizon Europe, Grant 101134888).
- We reviewed 108 socio-economic models, mapped 50+ data sources, and designed a module that turns fragmented data into actionable intelligence.
- Two user groups: Group A (farmers / agribusinesses) and Group B (policymakers / rural development actors).
- Five pilot countries: Cyprus, Germany, Serbia, Slovenia, and Switzerland.

Transition: "But before we talk about the solution, let's understand the problem."

SLIDE 2 — THE CHALLENGE (1:00 – 3:30)
Frame the problem as two-sided:

For Farmers (Group A)

- No real-time, farm-level price and cost data.
- Official statistics lag 1–3 years — too slow for operational decisions.
- Financial and operational data live in separate silos.
- Market Information Systems have patchy geographic coverage.
- Remote and underserved regions are especially data-poor.

For Policymakers (Group B)

- Household surveys occur only every 3–5 years — too infrequent for dynamic policy.
- Community-level indicators are not standardised across countries.
- Gender and social inclusion dimensions are largely absent
- Digital exclusion means the most vulnerable populations are invisible in emerging data streams (mobile, IoT, etc.).

We have sophisticated analytical models — 108 of them reviewed — but they are data-starved. The gap between analytical demand and data supply is the single biggest barrier to evidence-based agriculture.

Transition: "So how did we tackle this? Through a rigorous five-phase methodology."

SLIDE 3 — OUR METHOD (3:30 – 6:00)

Walk through the five phases with confidence:

- Phase 1 — Systematic Model Review: Mapped 108 models across three domains: farm-level economic, macro/policy-level, and social analysis. Evaluated each on predictive accuracy, data requirements, computational complexity, and transferability across regions.
- Phase 2 — Data Source Audit: Assessed 50+ databases from FAO, World Bank, OECD, EUROSTAT, Copernicus, and more. Scored them on accessibility, quality, scope, granularity, and timeliness.
- Phase 3 — Gap Analysis & Baseline: Quantified the shortfall between what models need and what sources provide. Classified gaps by handling type (discussion limitations, survey questions, minimum requirements) and by stakeholder group (A vs B).
- Phase 4 — Module Architecture Design: Designed a data cube infrastructure with dimensional modelling for both Group A and Group B data streams.
- Phase 5 — Pilot Testing (WP6): Real-world validation through third-party solutions selected via the Open Call, across five pilot countries.

Transition: "Let's look at the data sources that form the backbone of this module."

SLIDE 4 — DATA SOURCES (6:00 – 8:30)

Present the six pillars as the foundation:

- FAO / FAOSTAT: The heavyweight — 10,000+ indicators, 245 countries, data from 1961 to present. Covers production, trade, prices, land, inputs, food security, and agri-environment.
- World Bank WDI: ~100 agricultural indicators across 217 economies. Great for land, yields, value added, employment, irrigation, and mechanization.
- OECD / EUROSTAT: Essential for policy analysis — PSE, CSE, GSSE, TSE indicators for agricultural support monitoring across 38+ members.
- Copernicus / Earth Observation: Near-real-time satellite data for land monitoring, climate, and crop conditions. This is where Nostradamus gets its competitive edge.
- FADN (Farm Accountancy Data Network): The only EU-wide source for farm-level economics — critical for micro-level analysis.
- UN / ILO / UNCTAD: Employment, trade, sustainability, and demographic indicators with global coverage.

These sources rarely talk to each other. Temporal mismatches (daily satellite vs. decadal census), spatial mismatches (sub-field precision vs. national aggregates), and interoperability barriers create the "data cube" problem that Nostradamus solves.

Transition: "So what does the actual module look like?"

SLIDE 5 — THE MODULE DESIGN (8:30 – 11:00)
Present the two groups side by side:

Group A — Farm Business Intelligence

- Market Access & Prices — FAO Food Price Index, producer prices, domestic price volatility.
- Employment & Labor — Agricultural wages, gender-disaggregated employment (ILOSTAT).
- Productivity & Yield — Cereal yield, crop/livestock production indices, labour productivity.
- Finance & Credit — Lending rates, non-performing loans, warehouse receipt systems, credit reference bureaus.
- Input Use & Economics — Fertilizer/pesticide consumption, seed quality ratios, mechanization density, irrigation coverage.

Group B — Policy & Rural Development

- Land & Resource Governance — 17 LGAF indicators covering tenure, expropriation, women's rights, dispute resolution.
- Agricultural Policy Support (OECD) — PSE, CSE, GSSE, TSE to measure efficiency and equity of agricultural support.
- Food Security — PoU (Prevalence of Undernourishment), FIES, food deficit depth, cereal import dependency.
- Climate-Smart Agriculture Policy — Adaptation/mitigation strategies, R&D investment, social safety nets, disaster risk management.
- Agri-Environmental & Trade — GHG emissions, nitrogen balance, export competitiveness, value-added analysis.

Key Message: Every indicator is drawn from an internationally recognised source, selected for actionability, policy relevance, international comparability, and disaggregation potential.

Transition: "But how does this all work technically? Let me show you the data cube architecture."

SLIDE 6 — DATA CUBE ARCHITECTURE (11:00 – 13:00)
Explain the data cube concept simply:

Think of it as a multi-dimensional spreadsheet where every cell is an intersection of time, geography, commodity, and market channel. This allows flexible querying, aggregation, and cross-domain analysis.

The Four Dimensions

- Time: From daily to annual granularity, with automated trend detection at 1, 5, and 10-year horizons via linear regression.
- Geography: From farm to district to national, enabling cross-country benchmarking across the five pilot countries.
- Commodity / Domain: Crops, livestock, inputs, welfare domains, demographic groups (gender, age, education).
- Market Channel: Wholesale, retail, export, farm-gate — enabling value chain analysis.

From App Developers

- REST APIs with authentication and rate limiting.
- Columnar data stores for fast multi-dimensional querying.
- Stream processing frameworks for real-time data ingestion.
- Containerised microservices for modular deployment.
- Cloud-native + edge computing for low-latency farm applications.

For End Users

- Automated bulk processing of 1000+ indicators.
- Outputs: latest value, historical min/max/average, short/medium/long-term trend estimates.
- Dashboards for socio-economic monitoring and policy brief production.
- Export to Excel, PDF, and common analytics platforms.
- Disaggregated reporting by gender, social group, region, and farm size.

Transition:
"So where does this all lead? Let's talk about impact and the road ahead."

SLIDE 7 — IMPACT & ROADMAP (13:00 – 15:00)
Close with vision and credibility:

Immediate Impact:

- Farmers can benchmark yields and input costs against regional averages in near real time.
- Policymakers can detect emerging socio-economic shifts before they become crises.
- Anticipatory governance replaces retrospective reporting.
- Cross-country comparability enables best-practice transfer across Cyprus, Germany, Serbia, Slovenia, and Switzerland.

Future Directions

- Machine learning approaches for data gap filling and imputation.
- Integration of non-traditional data sources — IoT sensors, mobile network data, social media.
- Blockchain and distributed ledger technologies for data provenance and trust.
- Offline functionality for low-connectivity rural regions.
- Language localisation and synthetic data generation for training and testing.

Training Materials Ready for WP6

A 45-minute learning module is prepared for the Nostradamus Digital Ecosystem (TU2.2), with 5 sections, a quiz assessment, and practical exercises. Requirements: Windows, Microsoft Excel, internet browser, and Nostradamus tool access.

Closing Line
"Nostradamus doesn't just collect data — it transforms fragmented, outdated, or inaccessible information into actionable intelligence for farmers and policymakers across Europe. Thank you."

Be Ready for Q&A On:

- Data privacy and GDPR compliance frameworks.
- Pilot timeline (Tasks 6.4 and 6.5 under WP6).
- Integration with other WP3 tasks, especially T3.1 (database integration by AGFT).
- Open Call selection criteria for third-party solutions.
- Interoperability with existing national statistical systems.

6.4.2 SLIDES

The key information on the slides is presented in Figures 3-9.



FIGURE 3: SLIDE 1. TITLE SLIDE

1 THE CHALLENGE

Why Agricultural Data Falls Short

🌾 For Farmers (Group A)

- No real-time, farm-level price & cost data
- 1–3 year delays in official statistics
- Weak integration of financial + operational data
- Limited market information in remote regions

🏛️ For Policymakers (Group B)

- Household surveys only every 3–5 years
- No standardised community-level indicators
- Gender & inclusion data largely missing
- Digital exclusion creates blind spots

💡 The Core Insight

Sophisticated models exist (108 reviewed), but they are **data-starved**. The gap between what models need and what data sources provide is the single biggest barrier to evidence-based agriculture.

FIGURE 4: SLIDE 2. GROUPS A AND B

2 OUR METHOD

A Five-Phase Evidence-Driven Approach

1 **Systematic Model Review**

Mapped 108 models across farm-level, macro/policy, and social analysis domains. Evaluated predictive accuracy, data requirements, and transferability.

2 **Data Source Audit**

Assessed 50+ databases (FAO, World Bank, OECD, EUROSTAT, etc.) against accessibility, quality, scope, granularity, and timeliness criteria.

3 **Gap Analysis & Baseline**

Quantified the shortfall between analytical demand and data supply. Classified gaps by handling type and by stakeholder group (A vs B).

4 **Module Architecture Design**

Designed data cube infrastructure with dimensional modelling for Group A (farm business) and Group B (socio-economic) data streams.

5 **Pilot Testing via Open Call (WP6)**

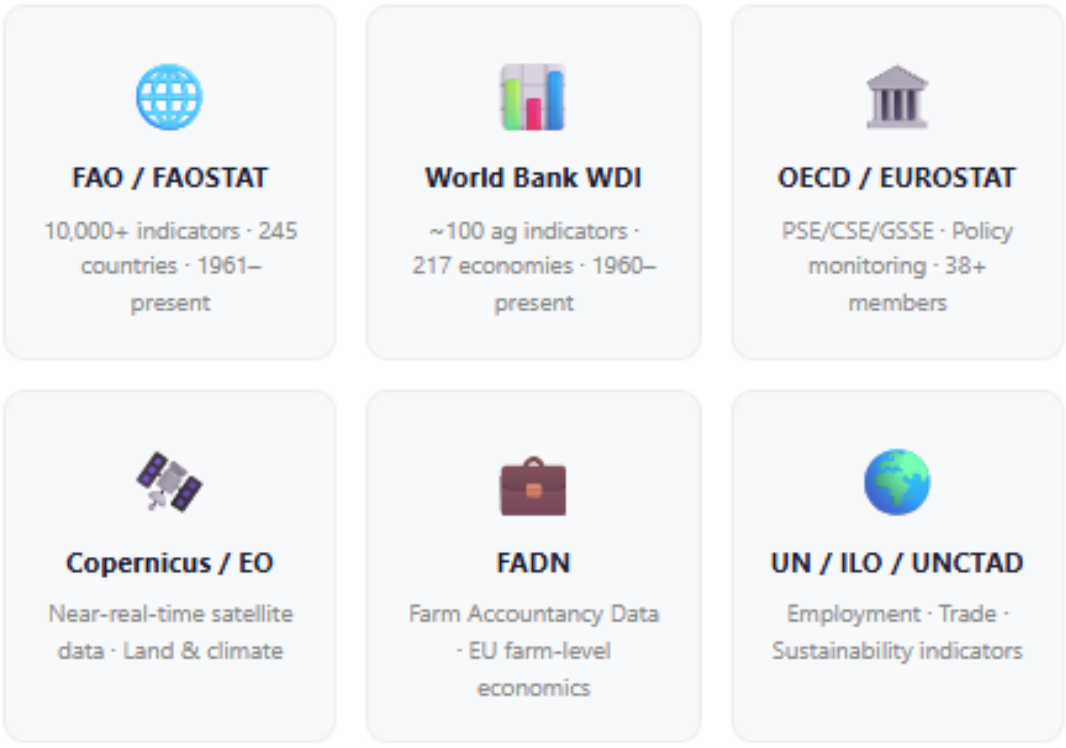
Real-world validation through third-party solutions across Cyprus, Germany, Serbia, Slovenia, and Switzerland.

FIGURE 5: SLIDE 3. APPROACH

3 THE FOUNDATION

Key Data Sources & APIs Integrated

We reviewed 50+ databases. Here are the pillars of the Nostradamus socio-economic module:



⚠ **Challenge:** These sources rarely talk to each other. Temporal mismatches (daily satellite vs. decadal census), spatial mismatches (sub-field vs. national), and interoperability barriers create the "data cube" problem we solve.

FIGURE 6: SLIDE 4. DATA SOURCES

4 THE SOLUTION

The Nostradamus Socio-Economic Module

🎯 Group A: Farm Business Intelligence

Market Access & Prices
FAO Food Price Index, Producer Prices, Domestic Price Volatility

Employment & Labor
Agricultural wages, Gender-disaggregated employment (ILOSTAT)

Productivity & Yield
Cereal yield, Crop/livestock production indices, Labor productivity

Finance & Credit
Lending rates, Non-performing loans, Warehouse receipt systems

Input Use & Economics
Fertilizer/pesticide consumption, Seed quality, Mechanization density

🏛️ Group B: Policy & Rural Development

Land & Resource Governance
17 LGAF indicators — tenure, expropriation, women's rights, dispute resolution

Agricultural Policy Support (OECD)
PSE, CSE, GSSE, TSE — measure efficiency & equity of support

Food Security Indicators
PoU, FIES, Food Deficit Depth, Cereal Import Dependency

Climate-Smart Agriculture Policy
Adaptation/mitigation strategies, R&D investment, Social safety nets

Agri-Environmental & Trade
GHG emissions, Nitrogen balance, Export competitiveness, Value-added analysis

FIGURE 7: SLIDE 5. THE MODULE

5 ARCHITECTURE

How the Data Cube Works

Dimensional Model

Time Dimension

Daily → Annual granularity with automated trend detection (1, 5, 10-year horizons)

Geography Dimension

Farm → District → National → Cross-country comparability

Commodity / Domain Dimension

Crop, livestock, input, welfare domain, demographic group

Market Channel Dimension

Wholesale, retail, export, farm-gate price linkages

For App Developers

- REST APIs with authentication & rate limiting
- Columnar data stores for fast querying
- Stream processing for real-time ingestion
- Containerised microservices architecture
- Cloud-native + edge computing support

For End Users

- Automated bulk processing of 1000+ indicators
- Latest value + historical min/max/average
- Short, medium, long-term trend estimates
- Dashboards for policy brief production
- Export to Excel, PDF, common analytics platforms

FIGURE 8: SLIDE 6. ARCHITECTURE OF THE MODULE



FIGURE 9: SLIDE 7. CONCLUDING REMARKS

6.4.3 VIDEO

The video will be created using NotebookLM – the soft recommended by teaching guide that creates supplementary learning materials such as summaries, study guides, debates, deep dives, podcasts (not primarily intended for creating narrated videos).

Speaker of the video is not yet selected by WP6 and the leaders of T3.1 in deliverable D3.1. This report suggests that gender-free and cube-related speakers talk on behalf of Nostradamus Consortium. The suggested design of potential speakers is presented in Figure 10.



FIGURE 10: POTENTIAL SPEAKERS OF NOSTRADAMUS TEACHING MODULE

Speaker(s) presented in Figure 10 can gain the ability to move, blink and interact with learners, when they are processed in AI tools. The main benefit of this approach is that it does not use human photos and faces, which prevents the developers from scammers in the future. In addition, they can use any impersonalized voice which allows for unified and simplified video production and correction.

6.4.4 QUIZ

Instructions: This open-book quiz contains 15 multiple-choice questions based on the Nostradamus Task 3.3 Internal Report. The task is to select one best answer for each question. Explanations are provided on the answer key page at the end.

Question 1: How many socio-economic models were systematically reviewed in Task 3.3?

- A. 62
- B. 95
- C. 108
- D. 231

Question 2: What is the primary purpose of Group A Solutions in the Nostradamus module?

- A. Socio-economic analysis of rural communities
- B. Farm-level business decision-making and market positioning
- C. Land governance assessment
- D. Climate policy formulation

Question 3: Which of the following is NOT one of the five phases of the evidence-driven methodology used in Task 3.3?

- A. Systematic model review
- B. Data source audit
- C. Machine learning deployment
- D. Gap analysis and baseline

Question 4: What does the acronym 'PSE' stand for in the OECD agricultural policy indicators?

- A. Public Sector Engagement
- B. Producer Support Estimate
- C. Policy Sustainability Evaluation
- D. Production System Efficiency

Question 5: Which database provides the only EU-wide source for farm-level economics data?

- A. FAOSTAT
- B. World Bank WDI
- C. FADN
- D. OECD Agricultural Policy Monitoring

Question 6: What is the approximate data publication delay for official agricultural statistics in many jurisdictions?

- A. 1-3 months
- B. 6-9 months
- C. 1-3 years
- D. 5-7 years

Question 7: Which of the following indicators belongs to Group B (Policy & Rural Development) rather than Group A (Farm Business)?

- A. Producer Price Index for Agriculture
- B. Fertilizer Consumption per Hectare
- C. LGAF Indicator 1: Recognition of Rights
- D. Cereal Yield per Hectare

Question 8: What is the 'data gap' defined as in the Nostradamus context?

- A. The difference between data storage capacity and actual usage
- B. The shortfall between data required for decision-making and data currently available, accessible, and usable
- C. The geographic distance between data collection points
- D. The time difference between data collection and model execution

Question 9: Which technology component is described as 'multi-dimensional data structures enabling flexible querying, aggregation, and analysis across time, geography, and thematic dimensions'?

- A. Data pipelines
- B. Data cubes
- C. API endpoints
- D. Stream processing frameworks

Question 10: In the data cube architecture, which dimension is NOT explicitly mentioned for Group B (socio-economic) data?

- A. Time
- B. Geography
- C. Commodity type
- D. Demographic characteristics

Question 11: What is the minimum number of crops covered by the current version of the SWISSFoodSys model mentioned in the report?

- A. 12
- B. 25
- C. 43
- D. 55

Question 12: Which of the following is a key success criterion for pilot testing under WP6?

- A. Number of academic papers published
- B. Technical performance, analytical validity, and user utility
- C. Total funding allocated to third parties
- D. Number of countries adopting the module

Question 13: What is the estimated learning duration for the training materials prepared by T3.3 for WP6?

- A. 15 minutes
- B. 30 minutes
- C. 45 minutes
- D. 60 minutes

Question 14: Which indicator would be most relevant for assessing a country's food self-sufficiency and trade vulnerability for cereals?

- A. Agricultural wage rates
- B. Cereal import dependency ratio
- C. Tractor density per 100 km^2
- D. Producer Nominal Protection Coefficient

Question 15: What of the following will NOT be calculated in the Nostradamus socio-economic module

- A. The most recent available value
- B. Historical minimum and maximum values
- C. Average value
- D. Mode value

6.4.5 ANSWER KEY

Question 1: Correct Answer: C. Explanation: The snowball literature review selected 108 models and tools, examining their data consumption in detail. While Jayasinghe et al. (2023) identified 62 indicators, and UN (2024) uses 231 sustainability indicators, the Nostradamus review specifically covered 108 models.

Question 2: Correct Answer: B. Explanation: Group A Solutions target farming business data — encompassing market prices, input costs, production volumes, farm financial performance, supply chain logistics, and commodity trends. Group B Solutions target socio-economic data on farmers and rural communities.

Question 3: Correct Answer: C. Explanation: The five phases are: (1) Systematic model review, (2) Data source audit, (3) Gap analysis and baseline, (4) Module architecture design, and (5) Pilot testing via Open Call. ML deployment is mentioned as a future direction, not a current methodology phase.

Question 4: Correct Answer: B. Explanation: PSE measures the annual monetary value of transfers to farmers from consumers and taxpayers. Related indicators include CSE (Consumer Support Estimate), GSSE (General Services Support Estimate), and TSE (Total Support Estimate).

Question 5: Correct Answer: C. Explanation: FADN (Farm Accountancy Data Network) is the only EU-wide source for farm-level economics. FAOSTAT provides global agricultural statistics, World Bank WDI covers macro indicators across 217 economies, and OECD focuses on policy support indicators.

Question 6: Correct Answer: C. Explanation: The report notes that official statistics and administrative data often suffer from significant time lags, with data publication delays of one to three years common in many jurisdictions. This is a critical gap for real-time decision-making.

Question 7: Correct Answer: C. Explanation: The Land Governance Assessment Framework (LGAF) indicators are part of Group B, supporting land-policy and food-policy makers. Producer prices, fertilizer consumption, and cereal yields are all Group A indicators for farm business decision-making.

Question 8: Correct Answer: B. Explanation: The data gap is defined as the shortfall between data required for robust decision-making (at farm and policy levels) and data currently available, accessible, and usable. This serves as the architectural foundation for module design.

Question 9: Correct Answer: B. Explanation: Data cubes are central to the Nostradamus architecture. Data pipelines are soft-tools for data access and model training. APIs are interfaces for third-party integration. Stream processing handles real-time data ingestion.

Question 10: Correct Answer: C. Explanation: Group B dimensions include time, geography (household, community, region), demographic characteristics (gender, age, education), and welfare domain (income, health, education, social capital). Commodity type is a Group A dimension for farm business data.

Question 11: Correct Answer: C. Explanation: The SWISSFoodSys model encompasses at least 43 crops, three crop production intensities (conventional, extenso, organic), 11 seed varieties, 41 livestock categories, six livestock farm types, 55 fodder products, and 101 environmental impact factors.

Question 12: Correct Answer: B. Explanation: Pilot testing objectives are defined across three dimensions: technical performance (data latency, query response times, system uptime), analytical validity (accuracy of trend detection, robustness of pattern identification), and user utility (relevance to farm decisions, utility for policy formulation).

Question 13: Correct Answer: C. Explanation: The training module is estimated at 45 minutes total (0.04 ECTS), broken down as: 20 min guided learning, 15 min self-study/practical implementation, and 5 min assessment. It will be hosted in TU2.2 of the Nostradamus Digital Ecosystem.

Question 14: Correct Answer: B. Explanation: The cereal import dependency ratio measures the share of cereal consumption met by imports and is used to assess food self-sufficiency and trade vulnerability. Wage rates relate to labor, tractor density to mechanization, and NPC to price protection for producers.

Question 15: Correct Answer: D. Explanation: For each indicator and territory, the tool should be able to generate: the most recent available value, historical minimum and maximum values, long-term averages, and short-, medium-, and long-term trend estimations based on linear regression analyses (one-, five- and ten-year horizons).

SCORE SUMMARY: Table 19 suggests an approach to track score.

TABLE 19: SCORE SUMMARY

Correct answers	Result and Message
13-15 correct (87-100%)	Outstanding — Mastered the material
10-12 correct (67-86%)	Well Done — Strong understanding
8-9 correct (53-66%)	Good Effort — Review recommended
0-7 correct (0-52%)	Keep Learning — Re-read the report

7. CONCLUSIONS AND RECOMMENDATIONS

This report has identified significant and systematic gaps between the data required for effective farm decision-making and rural policy formulation and the data currently available through existing sources. Existing models for economic and social analysis demonstrate considerable analytical sophistication but are often constrained by data limitations that compromise their practical utility. The Nostradamus module, through its data cube architecture and digital tool integration pathways, offers a pathway to bridge these gaps by consolidating, standardising, and democratising access to existing agricultural and socio-economic data.

Strategic recommendations include:

- prioritising investment in real-time data infrastructure for market and price information;
- establishing partnerships with national statistical offices and international organisations to secure sustainable data flows;
- implementing robust data governance frameworks that balance accessibility with privacy protection;
- designing user interfaces that accommodate diverse digital literacy levels among farmer and policymaker populations; and
- embedding continuous evaluation mechanisms to ensure module relevance and performance over time.

Future research priorities include the development of machine learning approaches for gap filling and data imputation, the integration of non-traditional data sources (social media, mobile network data, IoT sensors) into analytical workflows, and the exploration of blockchain and distributed ledger technologies for data provenance and trust. Development priorities encompass the expansion of language localisation, the enhancement of offline functionality for low-connectivity contexts, and the creation of synthetic data generation capabilities for training and testing purposes.

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APPENDIX. SOCIO-ECONOMIC DATA-TREE

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
FADN	Agriculture & Food Systems	Agricultural Finance	Balance of interest paid and received	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Finance	Interest paid	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Finance	Rent paid	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Inputs	Fertiliser K2O	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Inputs	Fertiliser N	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Inputs	Fertiliser P2O5	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Inputs	Fertilisers	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Labour	Labour input	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Labour	Paid labour input	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Labour	Paid labour Input	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Labour	Share of OGA work /AWU	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Labour	Total labour input	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Labour	Unpaid labour input	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Labour	Unpaid labour input	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Labour	Wages paid	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Land Use	Agricultural fallows	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Land Use	Agricultural land	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Land Use	Arable land	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Land Use	Permanent grassland	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Land Use	Rented UAA	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Land Use	Total agricultural area out of production	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Land Use	Total Utilised Agricultural Area	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Machinery & Equipment	Machinery and equipment	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Machinery & Infrastructure	Machinery & building current costs	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Policy	Decoupled payments	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Policy	Set aside	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Policy	Single Area payment	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Policy	Single Farm payment	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Policy	Support_Art68	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Services	Contract work	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Services	Contractual work services	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Stocks	Stock of agricultural products	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Additional aid	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Balance current subsidies & taxes	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Balance subsidies & taxes on investments	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Compensatory payments/area payments	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Other crops subsidies	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Other subsidies	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Set aside premiums	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Subsidies on agricultural investments	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Subsidies on external factors	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Subsidies on intermediate consumption	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Subsidies on investments	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Total direct payments	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Total subsidies - excluding on investments	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Total subsidies on crops	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Subsidies	Total subsidies on livestock	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Taxation	Taxes	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Agricultural Taxation	VAT balance excluding on investments	FADN PUBLIC DATABASE SO

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
FADN	Agriculture & Food Systems	Agricultural Taxation	VAT balance on investments	FADN PUBLIC DATABASE SO
OECD	Agriculture & Food Systems	Agriculture	Agricultural financial support	Agricultural financial support
OECD	Agriculture & Food Systems	Agriculture	Agricultural producer protection	Agricultural producer protection
EUROSTAT	Agriculture & Food Systems	Agriculture	Agriculture	Agriculture
OECD	Agriculture & Food Systems	Agriculture	Crop production	Crop production
EUROSTAT	Agriculture & Food Systems	Agriculture	Farm structure survey	Farm structure survey
EUROSTAT	Agriculture & Food Systems	Agriculture	Organic farming	Organic farming
EUROSTAT	Agriculture & Food Systems	Agriculture & Environment	Agri-environmental indicators	Agri-environmental indicators
EUROSTAT	Agriculture & Food Systems	Agriculture & Environment	Forestry	Forestry
OECD	Agriculture & Food Systems	Agriculture & Environment	Nutrient balance	Nutrient balance
UN	Agriculture & Food Systems	Agriculture & Food Security	FAOSTAT	UNdata | explorer
OECD	Agriculture & Food Systems	Agriculture & Land Use	Agricultural land	Agricultural land
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Agricultural irrigated land (% of total agricultural land)	Agricultural irrigated land (% of total agricultural land)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Agricultural land (% of land area)	Agricultural land (% of land area)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Agriculture, forestry, and fishing, value added (% of GDP)	Agriculture, forestry, and fishing, value added (% of GDP)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Arable land (% of land area)	Arable land (% of land area)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Arable land (hectares per person)	Arable land (hectares per person)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Cereal yield (kg per hectare)	Cereal yield (kg per hectare)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Crop production index (2014-2016 = 100)	Crop production index (2014-2016 = 100)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Employment in agriculture, female (% of female employment) (modeled ILO estimate)	Employment in agriculture, female (% of female employment) (modeled ILO estimate)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Employment in agriculture, male (% of male employment) (modeled ILO estimate)	Employment in agriculture, male (% of male employment) (modeled ILO estimate)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Fertilizer consumption (kilograms per hectare of arable land)	Fertilizer consumption (kilograms per hectare of arable land)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Food production index (2014-2016 = 100)	Food production index (2014-2016 = 100)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Forest area (% of land area)	Forest area (% of land area)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Forest area (sq. km)	Forest area (sq. km)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Land area (sq. km)	Land area (sq. km)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Land under cereal production (hectares)	Land under cereal production (hectares)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Livestock production index (2014-2016 = 100)	Livestock production index (2014-2016 = 100)
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Permanent cropland (% of land area)	Permanent cropland (% of land area)
EUROSTAT	Agriculture & Food Systems	Agriculture & Rural Development	Rural development	Rural development
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Rural population	Rural population
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Rural population (% of total population)	Rural population (% of total population)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Agriculture & Food Systems	Agriculture & Rural Development	Surface area (sq. km)	Surface area (sq. km)
FADN	Agriculture & Food Systems	Animal Feed	Feed for grazing livestock	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Animal Feed	Feed for grazing livestock home-grown	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Animal Feed	Feed for pigs & poultry	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Animal Feed	Feed for pigs&poultry home-grown	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Inputs	Seeds and plants	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Inputs	Seeds and plants home-grown	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production	Cereals	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production	Oil-seed crops	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production	Other field crops	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production	Other permanent crops	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production	Permanent crops	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production	Permanent crops	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production	Potatoes	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production	Protein crops	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production	Sugar beet	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production Costs	Other crop specific costs	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production Costs	Specific crop costs	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production Economics	Cereals	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production Economics	Other crop output	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production Economics	Total crops output	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Production Economics	Total output crops & crop production	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Productivity	Yield of maize	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Productivity	Yield of wheat	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Crop Protection	Crop protection	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Farming	Buffalo dairy cows	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Farming	Cattle dairy cows	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Farming	Cows' milk & milk products	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Farming	Dairy cows	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Farming	Ewes' and goats' milk	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Policy	Payments to dairy outgoers	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Processing	Cows' milk processing specific cost	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Processing	Milk processing specific cost	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Productivity	Milk yield	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Productivity	Milk yield buffalo dairy cows	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Productivity	Milk yield cattle dairy cows	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Dairy Subsidies	Subsidies dairying	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Accounting	Depreciation	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Accounting	Total external factors	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Assets & Capital	Buildings	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Assets & Capital	Intangible assets	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Assets & Capital	Inventories	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Assets & Capital	Land, permanent crops & quotas	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Assets & Capital	Other circulating capital	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Assets & Capital	Total assets	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Assets & Capital	Total assets, opening valuation	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Assets & Capital	Total current assets	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Assets & Capital	Total fixed assets	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Capital	Average farm capital	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Consumption	Farm use	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Costs & Inputs	Other direct inputs	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Costs & Inputs	Total Inputs	FADN PUBLIC DATABASE SO

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
FADN	Agriculture & Food Systems	Farm Costs & Inputs	Total intermediate consumption	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Costs & Inputs	Total specific costs	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Economics	Economic size	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Efficiency	Total output / Total input	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Finance	Cash flow / farm total capital	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Finance	Cash Flow 1	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Finance	Cash Flow 2	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Finance	Long & medium-term loans	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Finance	Short-term loans	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Finance	Total liabilities	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Household Economics	Farmhouse consumption	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Income	Family Farm Income	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Income	Farm Net Income	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Income	Farm Net Value Added	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Income	Farm Net Value Added	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Income	Gross Farm Income	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Investment	Gross Investment on fixed assets	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Investment	Net Investment on fixed assets	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Management Costs	Total farming overheads	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Output & Revenue	Other output	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Output & Revenue	Total output	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Structure	Farms represented	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Surveys & Sampling	Sample farms	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Wealth	Change in net worth	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Farm Wealth	Net worth	FADN PUBLIC DATABASE SO
EUROSTAT	Agriculture & Food Systems	Fisheries & Aquaculture	Aquaculture	Aquaculture
EUROSTAT	Agriculture & Food Systems	Fisheries & Aquaculture	Catches (fishery)	Catches (fishery)
EUROSTAT	Agriculture & Food Systems	Fisheries & Aquaculture	Fish landings	Fish landings
EUROSTAT	Agriculture & Food Systems	Fisheries & Aquaculture	Fisheries	Fisheries
EUROSTAT	Agriculture & Food Systems	Fisheries & Aquaculture	Fleet (fishing fleet)	Fleet (fishing fleet)
OECD	Agriculture & Food Systems	Food & Consumption	Meat consumption	Meat consumption
FAOSTAT	Agriculture & Food Systems	Food and Diet	Apparent intake (based on household consumption and expenditure surveys)	https://www.fao.org/faostat/en/#data/HCES
FAOSTAT	Agriculture & Food Systems	Food and Diet	Availability (based on supply utilization accounts)	https://www.fao.org/faostat/en/#data/SUA
FAOSTAT	Agriculture & Food Systems	Food and Diet	Diversity (MDD-W, based on individual qualitative dietary surveys)	https://www.fao.org/faostat/en/#data/MDDW
FAOSTAT	Agriculture & Food Systems	Food and Diet	Intake (based on individual quantitative dietary surveys)	https://www.fao.org/faostat/en/#data/FDIQ
FAOSTAT	Agriculture & Food Systems	Food Balances	Commodity Balances (non-food) (2010-)	https://www.fao.org/faostat/en/#data/CB
FAOSTAT	Agriculture & Food Systems	Food Balances	Commodity Balances (non-food) (-2013, old methodology)	https://www.fao.org/faostat/en/#data/CBH
FAOSTAT	Agriculture & Food Systems	Food Balances	Food Balances (2010-)	https://www.fao.org/faostat/en/#data/FBS
FAOSTAT	Agriculture & Food Systems	Food Balances	Food Balances (-2013, old methodology and population)	https://www.fao.org/faostat/en/#data/FBSH
FAOSTAT	Agriculture & Food Systems	Food Balances	Supply Utilization Accounts (2010-)	https://www.fao.org/faostat/en/#data/SCL

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
FADN	Agriculture & Food Systems	Food Processing	Processing of animals and animals' products	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Food Processing	Processing of crops	FADN PUBLIC DATABASE SO
FAOSTAT	Agriculture & Food Systems	Food Security and Nutrition	Suite of Food Security Indicators	https://www.fao.org/faostat/en/#data/FS
FAOSTAT	Agriculture & Food Systems	Food Value Chain	Value shares by industry and primary factors	https://www.fao.org/faostat/en/#data/GFDI
FADN	Agriculture & Food Systems	Forestry	Forest land including standing timber	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Forestry	Forestry and wood processing	FADN PUBLIC DATABASE SO
FAOSTAT	Agriculture & Food Systems	Forestry	Forestry Production and Trade	https://www.fao.org/faostat/en/#data/FO
FADN	Agriculture & Food Systems	Forestry	Woodland area	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Forestry Economics	Forestry specific costs	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Fruit Farming	Citrus fruit	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Fruit Farming	Fruit excl. Citrus and grapes	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Fruit Farming	Orchards	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Horticulture	Vegetables & flowers	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Horticulture	Vegetables and flowers	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Industrial Agriculture	Industrial crops	FADN PUBLIC DATABASE SO
FAOSTAT	Agriculture & Food Systems	Inputs	Detailed trade matrix (fertilizers)	https://www.fao.org/faostat/en/#data/RFM
FAOSTAT	Agriculture & Food Systems	Inputs	Fertilizers by Product	https://www.fao.org/faostat/en/#data/RFB
FAOSTAT	Agriculture & Food Systems	Inputs	Livestock Manure	https://www.fao.org/faostat/en/#data/EMN
FAOSTAT	Agriculture & Food Systems	Inputs	Pesticides Trade	https://www.fao.org/faostat/en/#data/RT
FAOSTAT	Agriculture & Food Systems	Inputs	Pesticides Use	https://www.fao.org/faostat/en/#data/RP
FAOSTAT	Agriculture & Food Systems	Land	Inputs, Fertilizers by Nutrient	https://www.fao.org/faostat/en/#data/RFN
FAOSTAT	Agriculture & Food Systems	Land	Land Cover	https://www.fao.org/faostat/en/#data/LC
FAOSTAT	Agriculture & Food Systems	Land	Land Use	https://www.fao.org/faostat/en/#data/RL
FADN	Agriculture & Food Systems	Livestock Assets	Breeding livestock	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Assets	Non-breeding livestock	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Costs	Other livestock specific costs incl. veterinary expenses	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Costs	Specific livestock costs	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Economics	Change in value of livestock	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Economics	Other livestock & products	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Economics	Total livestock output	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Economics	Total output livestock & livestock products	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Farming	Other cattle	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Farming	Pigs	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Farming	Sheep and goats	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Farming	Sheep and goats	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Farming	Total livestock units	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Feed & Forage	Forage crops	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Feed & Forage	Forage crops	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Management	Stocking density	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Subsidies	Other livestock subsidies	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Subsidies	Subsidies other cattle	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Livestock Subsidies	Subsidies sheep & goats	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Meat Processing	Meat processing specific cost	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Meat Production	Beef and veal	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Meat Production	Pigmeat	FADN PUBLIC DATABASE SO

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
SFCD	Agriculture & Food Systems	Nutrition	Composition by nutrient	Downloads - The Swiss Food Composition Database
FADN	Agriculture & Food Systems	Olive Farming	Olive groves	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Olive Farming	Olives & olive oil	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Other Gainful Activities	Other OGA output	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Other Gainful Activities	Total OGA output	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Other Gainful Activities	Total specific costs for OGA	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Poultry Farming	Eggs	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Poultry Farming	Poultry	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Poultry Farming	Poultrymeat	FADN PUBLIC DATABASE SO
FAOSTAT	Agriculture & Food Systems	Production	Crops and livestock products	https://www.fao.org/faostat/en/#data/QCL
FAOSTAT	Agriculture & Food Systems	Production	Production Indices	https://www.fao.org/faostat/en/#data/QI
FAOSTAT	Agriculture & Food Systems	Production	Value of Agricultural Production	https://www.fao.org/faostat/en/#data/QV
FADN	Agriculture & Food Systems	Veterinary Services	Veterinary expenses	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Viticulture	Vineyards	FADN PUBLIC DATABASE SO
FADN	Agriculture & Food Systems	Viticulture	Wine and grapes	FADN PUBLIC DATABASE SO
UN	Agriculture & Food Systems	Weather & Climate	World Meteorological Organization Standard Normals	UNdata | explorer
FAOSTAT	Agriculture & Food Systems	World Census of Agriculture	Structural data from agricultural censuses	https://www.fao.org/faostat/en/#data/WCAD
EUROSTAT	Data, Statistics & Methodology	Classifications & Methodology	Classification of economic activities (NACE)	Classification of economic activities (NACE)
EUROSTAT	Data, Statistics & Methodology	Classifications & Methodology	Classifications	Classifications
EUROSTAT	Data, Statistics & Methodology	Classifications & Methodology	NACE	NACE
EUROSTAT	Data, Statistics & Methodology	Classifications & Methodology	Nomenclatures	Nomenclatures
FAOSTAT	Data, Statistics & Methodology	Discontinued archives and data series	ASTI-Expenditures	https://www.fao.org/faostat/en/#data/AE
FAOSTAT	Data, Statistics & Methodology	Discontinued archives and data series	ASTI-Researchers	https://www.fao.org/faostat/en/#data/AF
FAOSTAT	Data, Statistics & Methodology	Discontinued archives and data series	Fertilizers archive	https://www.fao.org/faostat/en/#data/RA
FAOSTAT	Data, Statistics & Methodology	Discontinued archives and data series	Food Aid Shipments (WFP)	https://www.fao.org/faostat/en/#data/FA
FAOSTAT	Data, Statistics & Methodology	Discontinued archives and data series	Forestry Trade Flows	https://www.fao.org/faostat/en/#data/FT
FAOSTAT	Data, Statistics & Methodology	Discontinued archives and data series	Indicators from Household Surveys (gender, area, socio-economics)	https://www.fao.org/faostat/en/#data/HS
FAOSTAT	Data, Statistics & Methodology	Discontinued archives and data series	Machinery	https://www.fao.org/faostat/en/#data/RM
FAOSTAT	Data, Statistics & Methodology	Discontinued archives and data series	Machinery Archive	https://www.fao.org/faostat/en/#data/RY
FAOSTAT	Data, Statistics & Methodology	Discontinued archives and data series	Producer Prices (old series)	https://www.fao.org/faostat/en/#data/PA
EUROSTAT	Data, Statistics & Methodology	Methodology & Quality	Data revision policy	Data revision policy
EUROSTAT	Data, Statistics & Methodology	Methodology & Quality	European Statistical Monitor	European Statistical Monitor
EUROSTAT	Data, Statistics & Methodology	Methodology & Quality	Experimental statistics	Experimental statistics
EUROSTAT	Data, Statistics & Methodology	Methodology & Quality	Modernisation of European enterprise and trade statistics (MEETS)	Modernisation of European enterprise and trade statistics (MEETS)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
EUROSTAT	Data, Statistics & Methodology	Methodology & Quality	Policy of data revision	Policy of data revision
EUROSTAT	Data, Statistics & Methodology	Methodology & Quality	Quality of European statistics	Quality of European statistics
EUROSTAT	Data, Statistics & Methodology	Methodology & Quality	Revision of data	Revision of data
UN	Data, Statistics & Methodology	Multidisciplinary Statistics	OECD Data	UNdata | explorer
ITC	Economy, Finance & Trade	Balance	Trade balance	Trade statistics | ITC
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Business demography	Business demography
OECD	Economy, Finance & Trade	Business & Enterprise	Business financing	Business financing
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Business registers	Business registers
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Business services	Business services
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Business statistics	Business statistics
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Business statistics: Short-term statistics	Business statistics: Short-term statistics
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Business statistics: Structural business statistics (incl. SME)	Business statistics: Structural business statistics (incl. SME)
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Demography of businesses	Demography of businesses
OECD	Economy, Finance & Trade	Business & Enterprise	Employees by business size	Employees by business size
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Enterprise statistics	Enterprise statistics
OECD	Economy, Finance & Trade	Business & Enterprise	Enterprises by business size	Enterprises by business size
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Enterprises: demography	Enterprises: demography
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	EuroGroups register	EuroGroups register
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	European business statistics	European business statistics
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	High growth enterprises	High growth enterprises
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Short-term business statistics (STS)	Short-term business statistics (STS)
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Small and medium-sized enterprises (SMEs)	Small and medium-sized enterprises (SMEs)
EUROSTAT	Economy, Finance & Trade	Business & Enterprise	Structural business statistics (SBS)	Structural business statistics (SBS)
OECD	Economy, Finance & Trade	Business Environment	Running a business	Running a business
OECD	Economy, Finance & Trade	Consumption & Living Conditions	Household spending	Household spending
UN	Economy, Finance & Trade	Development & Economy	World Development Indicators	UNdata | explorer
OECD	Economy, Finance & Trade	Digital Economy	Business use of broadband	Business use of broadband
EUROSTAT	Economy, Finance & Trade	Digital Economy	Collaborative economy platforms	Collaborative economy platforms
EUROSTAT	Economy, Finance & Trade	Digital Economy	Communication technologies	Communication technologies
EUROSTAT	Economy, Finance & Trade	Digital Economy	Digital economy and society	Digital economy and society
EUROSTAT	Economy, Finance & Trade	Digital Economy	Digitalisation dashboard	Digitalisation dashboard
EUROSTAT	Economy, Finance & Trade	Digital Economy	E-Commerce	E-Commerce
EUROSTAT	Economy, Finance & Trade	Digital Economy	Enterprises and the internet	Enterprises and the internet
OECD	Economy, Finance & Trade	Digital Economy	Fixed broadband subscriptions	Fixed broadband subscriptions
OECD	Economy, Finance & Trade	Digital Economy	Households with broadband access	Households with broadband access
OECD	Economy, Finance & Trade	Digital Economy	ICT employment	ICT employment
OECD	Economy, Finance & Trade	Digital Economy	ICT investment	ICT investment
OECD	Economy, Finance & Trade	Digital Economy	ICT value added	ICT value added
EUROSTAT	Economy, Finance & Trade	Digital Economy	Information society (Digital economy and society)	Information society (Digital economy and society)
EUROSTAT	Economy, Finance & Trade	Digital Economy	Internet	Internet
OECD	Economy, Finance & Trade	Digital Economy	Internet access in households	Internet access in households
OECD	Economy, Finance & Trade	Digital Economy	Mobile broadband subscriptions	Mobile broadband subscriptions
UN	Economy, Finance & Trade	Digital Economy & ICT	World Telecommunication/ICT Indicators Database	UNdata | explorer
UN	Economy, Finance & Trade	Digital Economy & ICT	World Telecommunication/ICT Indicators Table	UNdata | explorer
OECD	Economy, Finance & Trade	Digital Economy & Society	Access to computers from home	Access to computers from home

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
OECD	Economy, Finance & Trade	Digital Economy & Trade	ICT goods exports	ICT goods exports
OECD	Economy, Finance & Trade	Economic Forecasts	Current account balance forecast	Current account balance forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Domestic demand forecast	Domestic demand forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Household savings forecast	Household savings forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Inflation forecast	Inflation forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Investment forecast	Investment forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Labour force forecast	Labour force forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Labour productivity forecast	Labour productivity forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Long-term interest rates forecast	Long-term interest rates forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Nominal GDP forecast	Nominal GDP forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Real GDP forecast	Real GDP forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Real GDP long-term forecast	Real GDP long-term forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Short-term interest rates forecast	Short-term interest rates forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Trade in goods and services forecast	Trade in goods and services forecast
OECD	Economy, Finance & Trade	Economic Forecasts	Unemployment rate forecast	Unemployment rate forecast
EUROSTAT	Economy, Finance & Trade	Economy & Finance	Balance of payments	Balance of payments
OECD	Economy, Finance & Trade	Economy & Finance	Banking sector leverage	Banking sector leverage
OECD	Economy, Finance & Trade	Economy & Finance	Broad money (M3)	Broad money (M3)
OECD	Economy, Finance & Trade	Economy & Finance	Current account balance	Current account balance
EUROSTAT	Economy, Finance & Trade	Economy & Finance	Direct investments	Direct investments
EUROSTAT	Economy, Finance & Trade	Economy & Finance	Economy	Economy
OECD	Economy, Finance & Trade	Economy & Finance	Exchange rates	Exchange rates
EUROSTAT	Economy, Finance & Trade	Economy & Finance	Exchange rates (source: ECB)	Exchange rates (source: ECB)
EUROSTAT	Economy, Finance & Trade	Economy & Finance	Financial accounts	Financial accounts
OECD	Economy, Finance & Trade	Economy & Finance	Financial corporations debt to equity ratio	Financial corporations debt to equity ratio
OECD	Economy, Finance & Trade	Economy & Finance	Gross national income	Gross national income
EUROSTAT	Economy, Finance & Trade	Economy & Finance	Household financial statistics (sector accounts)	Household financial statistics (sector accounts)
EUROSTAT	Economy, Finance & Trade	Economy & Finance	Interest rates (source: ECB)	Interest rates (source: ECB)
UN	Economy, Finance & Trade	Economy & Finance	International Financial Statistics	UNdata | explorer
OECD	Economy, Finance & Trade	Economy & Finance	Long-term interest rates	Long-term interest rates
EUROSTAT	Economy, Finance & Trade	Economy & Finance	Macroeconomic imbalance procedure (MIP)	Macroeconomic imbalance procedure (MIP)
OECD	Economy, Finance & Trade	Economy & Finance	Narrow money (M1)	Narrow money (M1)
OECD	Economy, Finance & Trade	Economy & Finance	Net national income	Net national income
OECD	Economy, Finance & Trade	Economy & Finance	Non-financial corporations debt to surplus ratio	Non-financial corporations debt to surplus ratio
OECD	Economy, Finance & Trade	Economy & Finance	Purchasing power parities (PPP)	Purchasing power parities (PPP)
EUROSTAT	Economy, Finance & Trade	Economy & Finance	Purchasing power parities (PPPs)	Purchasing power parities (PPPs)
OECD	Economy, Finance & Trade	Economy & Finance	Short-term interest rates	Short-term interest rates
OECD	Economy, Finance & Trade	Economy & Finance	Value-added in financial corporations	Value-added in financial corporations
OECD	Economy, Finance & Trade	Economy & Finance	Value-added in non-financial corporations	Value-added in non-financial corporations
WorldBank	Economy, Finance & Trade	Economy & Growth	Adjusted net savings, including particulate emission damage (% of GNI)	Adjusted net savings, including particulate emission damage (% of GNI)
WorldBank	Economy, Finance & Trade	Economy & Growth	Agriculture, forestry, and fishing, value added (% of GDP)	Agriculture, forestry, and fishing, value added (% of GDP)
WorldBank	Economy, Finance & Trade	Economy & Growth	Central government debt, total (% of GDP)	Central government debt, total (% of GDP)
WorldBank	Economy, Finance & Trade	Economy & Growth	Charges for the use of intellectual property, payments (BoP, current US$)	Charges for the use of intellectual property, payments (BoP, current US$)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Economy, Finance & Trade	Economy & Growth	Charges for the use of intellectual property, receipts (BoP, current US$)	Charges for the use of intellectual property, receipts (BoP, current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	Current account balance (BoP, current US$)	Current account balance (BoP, current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	Expense (% of GDP)	Expense (% of GDP)
WorldBank	Economy, Finance & Trade	Economy & Growth	Exports of goods and services (% of GDP)	Exports of goods and services (% of GDP)
WorldBank	Economy, Finance & Trade	Economy & Growth	External debt stocks (% of GNI)	External debt stocks (% of GNI)
WorldBank	Economy, Finance & Trade	Economy & Growth	External debt stocks, total (DOD, current US$)	External debt stocks, total (DOD, current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	Foreign direct investment, net inflows (BoP, current US$)	Foreign direct investment, net inflows (BoP, current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	GDP (current US$)	GDP (current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	GDP growth (annual %)	GDP growth (annual %)
WorldBank	Economy, Finance & Trade	Economy & Growth	GDP per capita (current US$)	GDP per capita (current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	GDP per capita growth (annual %)	GDP per capita growth (annual %)
WorldBank	Economy, Finance & Trade	Economy & Growth	GDP per capita, PPP (current international $)	GDP per capita, PPP (current international $)
WorldBank	Economy, Finance & Trade	Economy & Growth	GNI per capita, Atlas method (current US$)	GNI per capita, Atlas method (current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	GNI per capita, PPP (current international $)	GNI per capita, PPP (current international $)
WorldBank	Economy, Finance & Trade	Economy & Growth	GNI, Atlas method (current US$)	GNI, Atlas method (current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	GNI, PPP (current international $)	GNI, PPP (current international $)
WorldBank	Economy, Finance & Trade	Economy & Growth	Grants, excluding technical cooperation (BoP, current US$)	Grants, excluding technical cooperation (BoP, current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	Gross capital formation (% of GDP)	Gross capital formation (% of GDP)
WorldBank	Economy, Finance & Trade	Economy & Growth	Gross savings (% of GDP)	Gross savings (% of GDP)
WorldBank	Economy, Finance & Trade	Economy & Growth	Imports of goods and services (% of GDP)	Imports of goods and services (% of GDP)
WorldBank	Economy, Finance & Trade	Economy & Growth	Industry (including construction), value added (% of GDP)	Industry (including construction), value added (% of GDP)
WorldBank	Economy, Finance & Trade	Economy & Growth	Inflation, consumer prices (annual %)	Inflation, consumer prices (annual %)
WorldBank	Economy, Finance & Trade	Economy & Growth	Inflation, GDP deflator (annual %)	Inflation, GDP deflator (annual %)
WorldBank	Economy, Finance & Trade	Economy & Growth	Medium and high-tech manufacturing value added (% manufacturing value added)	Medium and high-tech manufacturing value added (% manufacturing value added)
WorldBank	Economy, Finance & Trade	Economy & Growth	Net ODA received (% of GNI)	Net ODA received (% of GNI)
WorldBank	Economy, Finance & Trade	Economy & Growth	Net ODA received per capita (current US$)	Net ODA received per capita (current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	Net official development assistance received (current US$)	Net official development assistance received (current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	Personal remittances, received (current US$)	Personal remittances, received (current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	PPP conversion factor, GDP (LCU per international $)	PPP conversion factor, GDP (LCU per international $)
WorldBank	Economy, Finance & Trade	Economy & Growth	Price level ratio of PPP conversion factor (GDP) to market exchange rate	Price level ratio of PPP conversion factor (GDP) to market exchange rate
WorldBank	Economy, Finance & Trade	Economy & Growth	Revenue, excluding grants (% of GDP)	Revenue, excluding grants (% of GDP)
WorldBank	Economy, Finance & Trade	Economy & Growth	Short-term debt (% of total reserves)	Short-term debt (% of total reserves)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Economy, Finance & Trade	Economy & Growth	Technical cooperation grants (BoP, current US$)	Technical cooperation grants (BoP, current US$)
WorldBank	Economy, Finance & Trade	Economy & Growth	Total debt service (% of exports of goods, services and primary income)	Total debt service (% of exports of goods, services and primary income)
WorldBank	Economy, Finance & Trade	Economy & Growth	Total reserves (includes gold, current US$)	Total reserves (includes gold, current US$)
OECD	Economy, Finance & Trade	Economy & Indicators	Business confidence index (BCI)	Business confidence index (BCI)
OECD	Economy, Finance & Trade	Economy & Indicators	Composite leading indicator (CLI)	Composite leading indicator (CLI)
OECD	Economy, Finance & Trade	Economy & Indicators	Consumer confidence index (CCI)	Consumer confidence index (CCI)
EUROSTAT	Economy, Finance & Trade	Economy & Indicators	Euro indicators/PEEIS	Euro indicators/PEEIS
EUROSTAT	Economy, Finance & Trade	Economy & Indicators	Principal economic indicators (PEEIs)	Principal economic indicators (PEEIs)
ITC	Economy, Finance & Trade	Export	Quantity	Trade statistics | ITC
ITC	Economy, Finance & Trade	Export	Share in country's trade	Trade statistics | ITC
ITC	Economy, Finance & Trade	Export	Share in world trade	Trade statistics | ITC
ITC	Economy, Finance & Trade	Export	Unit value	Trade statistics | ITC
ITC	Economy, Finance & Trade	Export	Value	Trade statistics | ITC
WorldBank	Economy, Finance & Trade	External Debt	Current account balance (BoP, current US$)	Current account balance (BoP, current US$)
WorldBank	Economy, Finance & Trade	External Debt	External debt stocks (% of GNI)	External debt stocks (% of GNI)
WorldBank	Economy, Finance & Trade	External Debt	External debt stocks, private nonguaranteed (PNG) (DOD, current US$)	External debt stocks, private nonguaranteed (PNG) (DOD, current US$)
WorldBank	Economy, Finance & Trade	External Debt	External debt stocks, public and publicly guaranteed (PPG) (DOD, current US$)	External debt stocks, public and publicly guaranteed (PPG) (DOD, current US$)
WorldBank	Economy, Finance & Trade	External Debt	External debt stocks, short-term (DOD, current US$)	External debt stocks, short-term (DOD, current US$)
WorldBank	Economy, Finance & Trade	External Debt	External debt stocks, total (DOD, current US$)	External debt stocks, total (DOD, current US$)
WorldBank	Economy, Finance & Trade	External Debt	Foreign direct investment, net inflows (BoP, current US$)	Foreign direct investment, net inflows (BoP, current US$)
WorldBank	Economy, Finance & Trade	External Debt	Grants, excluding technical cooperation (BoP, current US$)	Grants, excluding technical cooperation (BoP, current US$)
WorldBank	Economy, Finance & Trade	External Debt	IBRD loans and IDA credits (DOD, current US$)	IBRD loans and IDA credits (DOD, current US$)
WorldBank	Economy, Finance & Trade	External Debt	Net ODA received (% of GNI)	Net ODA received (% of GNI)
WorldBank	Economy, Finance & Trade	External Debt	Net ODA received per capita (current US$)	Net ODA received per capita (current US$)
WorldBank	Economy, Finance & Trade	External Debt	Net official development assistance received (current US$)	Net official development assistance received (current US$)
WorldBank	Economy, Finance & Trade	External Debt	Personal remittances, received (current US$)	Personal remittances, received (current US$)
WorldBank	Economy, Finance & Trade	External Debt	Short-term debt (% of total reserves)	Short-term debt (% of total reserves)
WorldBank	Economy, Finance & Trade	External Debt	Technical cooperation grants (BoP, current US$)	Technical cooperation grants (BoP, current US$)
WorldBank	Economy, Finance & Trade	External Debt	Total debt service (% of exports of goods, services and primary income)	Total debt service (% of exports of goods, services and primary income)
WorldBank	Economy, Finance & Trade	External Debt	Total reserves (includes gold, current US$)	Total reserves (includes gold, current US$)
WorldBank	Economy, Finance & Trade	External Debt	Use of IMF credit (DOD, current US$)	Use of IMF credit (DOD, current US$)
OECD	Economy, Finance & Trade	Financial Markets	Share prices	Share prices
WorldBank	Economy, Finance & Trade	Financial Sector	Automated teller machines (ATMs) (per 100,000 adults)	Automated teller machines (ATMs) (per 100,000 adults)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Economy, Finance & Trade	Financial Sector	Bank capital to assets ratio (%)	Bank capital to assets ratio (%)
WorldBank	Economy, Finance & Trade	Financial Sector	Bank nonperforming loans to total gross loans (%)	Bank nonperforming loans to total gross loans (%)
WorldBank	Economy, Finance & Trade	Financial Sector	Broad money (% of GDP)	Broad money (% of GDP)
WorldBank	Economy, Finance & Trade	Financial Sector	Broad money growth (annual %)	Broad money growth (annual %)
WorldBank	Economy, Finance & Trade	Financial Sector	Commercial bank branches (per 100,000 adults)	Commercial bank branches (per 100,000 adults)
WorldBank	Economy, Finance & Trade	Financial Sector	Deposit interest rate (%)	Deposit interest rate (%)
WorldBank	Economy, Finance & Trade	Financial Sector	Depth of credit information index (0=low to 8=high)	Depth of credit information index (0=low to 8=high)
WorldBank	Economy, Finance & Trade	Financial Sector	Domestic credit provided by financial sector (% of GDP)	Domestic credit provided by financial sector (% of GDP)
WorldBank	Economy, Finance & Trade	Financial Sector	Domestic credit to private sector (% of GDP)	Domestic credit to private sector (% of GDP)
WorldBank	Economy, Finance & Trade	Financial Sector	Foreign direct investment, net inflows (BoP, current US$)	Foreign direct investment, net inflows (BoP, current US$)
WorldBank	Economy, Finance & Trade	Financial Sector	Inflation, consumer prices (annual %)	Inflation, consumer prices (annual %)
WorldBank	Economy, Finance & Trade	Financial Sector	Interest rate spread (lending rate minus deposit rate, %)	Interest rate spread (lending rate minus deposit rate, %)
WorldBank	Economy, Finance & Trade	Financial Sector	International migrant stock, total	International migrant stock, total
WorldBank	Economy, Finance & Trade	Financial Sector	Lending interest rate (%)	Lending interest rate (%)
WorldBank	Economy, Finance & Trade	Financial Sector	Listed domestic companies, total	Listed domestic companies, total
WorldBank	Economy, Finance & Trade	Financial Sector	Market capitalization of listed domestic companies (% of GDP)	Market capitalization of listed domestic companies (% of GDP)
WorldBank	Economy, Finance & Trade	Financial Sector	Market capitalization of listed domestic companies (current US$)	Market capitalization of listed domestic companies (current US$)
WorldBank	Economy, Finance & Trade	Financial Sector	Net migration	Net migration
WorldBank	Economy, Finance & Trade	Financial Sector	Official exchange rate (LCU per US$, period average)	Official exchange rate (LCU per US$, period average)
WorldBank	Economy, Finance & Trade	Financial Sector	Personal remittances, received (current US$)	Personal remittances, received (current US$)
WorldBank	Economy, Finance & Trade	Financial Sector	Real interest rate (%)	Real interest rate (%)
WorldBank	Economy, Finance & Trade	Financial Sector	Risk premium on lending (lending rate minus treasury bill rate, %)	Risk premium on lending (lending rate minus treasury bill rate, %)
WorldBank	Economy, Finance & Trade	Financial Sector	S&P Global Equity Indices (annual % change)	S&P Global Equity Indices (annual % change)
WorldBank	Economy, Finance & Trade	Financial Sector	Stocks traded, total value (% of GDP)	Stocks traded, total value (% of GDP)
WorldBank	Economy, Finance & Trade	Financial Sector	Stocks traded, turnover ratio of domestic shares (%)	Stocks traded, turnover ratio of domestic shares (%)
WorldBank	Economy, Finance & Trade	Financial Sector	Strength of legal rights index (0=weak to 12=strong)	Strength of legal rights index (0=weak to 12=strong)
WorldBank	Economy, Finance & Trade	Financial Sector	Total reserves (includes gold, current US$)	Total reserves (includes gold, current US$)
OECD	Economy, Finance & Trade	Globalisation & Investment	FDI flows	FDI flows
OECD	Economy, Finance & Trade	Globalisation & Investment	FDI income payments by industry	FDI income payments by industry
OECD	Economy, Finance & Trade	Globalisation & Investment	FDI income payments by partner country	FDI income payments by partner country
OECD	Economy, Finance & Trade	Globalisation & Investment	FDI income receipts by industry	FDI income receipts by industry
OECD	Economy, Finance & Trade	Globalisation & Investment	FDI income receipts by partner country	FDI income receipts by partner country
OECD	Economy, Finance & Trade	Globalisation & Investment	FDI restrictiveness	FDI restrictiveness

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
OECD	Economy, Finance & Trade	Globalisation & Investment	FDI stocks	FDI stocks
OECD	Economy, Finance & Trade	Globalisation & Investment	Inward FDI flows by industry	Inward FDI flows by industry
OECD	Economy, Finance & Trade	Globalisation & Investment	Inward FDI flows by partner country	Inward FDI flows by partner country
OECD	Economy, Finance & Trade	Globalisation & Investment	Inward FDI stocks by industry	Inward FDI stocks by industry
OECD	Economy, Finance & Trade	Globalisation & Investment	Inward FDI stocks by partner country	Inward FDI stocks by partner country
OECD	Economy, Finance & Trade	Globalisation & Investment	Outward FDI flows by industry	Outward FDI flows by industry
OECD	Economy, Finance & Trade	Globalisation & Investment	Outward FDI flows by partner country	Outward FDI flows by partner country
OECD	Economy, Finance & Trade	Globalisation & Investment	Outward FDI stocks by industry	Outward FDI stocks by industry
OECD	Economy, Finance & Trade	Globalisation & Investment	Outward FDI stocks by partner country	Outward FDI stocks by partner country
EUROSTAT	Economy, Finance & Trade	Globalisation & Trade	Foreign affiliates / foreign-controlled enterprises	Foreign affiliates / foreign-controlled enterprises
EUROSTAT	Economy, Finance & Trade	Globalisation & Trade	Foreign direct investments	Foreign direct investments
EUROSTAT	Economy, Finance & Trade	Globalisation & Trade	Globalisation dashboard	Globalisation dashboard
EUROSTAT	Economy, Finance & Trade	Globalisation & Trade	Globalised businesses	Globalised businesses
EUROSTAT	Economy, Finance & Trade	Globalisation & Trade	International sourcing	International sourcing
EUROSTAT	Economy, Finance & Trade	Government & Public Finance	Civil servants remunerations	Civil servants remunerations
OECD	Economy, Finance & Trade	Government Finance	Central government spending	Central government spending
EUROSTAT	Economy, Finance & Trade	Government Finance	Debt and deficit	Debt and deficit
EUROSTAT	Economy, Finance & Trade	Government Finance	Excessive deficit procedure (EDP)	Excessive deficit procedure (EDP)
EUROSTAT	Economy, Finance & Trade	Government Finance	Expenditure of government (by function)	Expenditure of government (by function)
OECD	Economy, Finance & Trade	Government Finance	General government debt	General government debt
OECD	Economy, Finance & Trade	Government Finance	General government deficit	General government deficit
OECD	Economy, Finance & Trade	Government Finance	General government financial wealth	General government financial wealth
OECD	Economy, Finance & Trade	Government Finance	General government revenue	General government revenue
OECD	Economy, Finance & Trade	Government Finance	General government spending	General government spending
OECD	Economy, Finance & Trade	Government Finance	General government spending by destination	General government spending by destination
EUROSTAT	Economy, Finance & Trade	Government Finance	Government debt and deficit	Government debt and deficit
EUROSTAT	Economy, Finance & Trade	Government Finance	Government finance statistics	Government finance statistics
OECD	Economy, Finance & Trade	Government Finance	Government production costs	Government production costs
OECD	Economy, Finance & Trade	Government Finance	Government reserves	Government reserves
EUROSTAT	Economy, Finance & Trade	Government Finance	Maastricht debt and deficit	Maastricht debt and deficit
OECD	Economy, Finance & Trade	Government Finance	Social security contributions	Social security contributions
EUROSTAT	Economy, Finance & Trade	Government Finance	Tax rates	Tax rates
OECD	Economy, Finance & Trade	Household Finance	Household debt	Household debt
OECD	Economy, Finance & Trade	Household Finance	Household financial assets	Household financial assets
OECD	Economy, Finance & Trade	Household Finance	Household financial transactions	Household financial transactions
OECD	Economy, Finance & Trade	Household Finance	Household net worth	Household net worth
OECD	Economy, Finance & Trade	Household Finance	Household savings	Household savings
OECD	Economy, Finance & Trade	Household Finance	Saving rate	Saving rate
ITC	Economy, Finance & Trade	Import	Quantity	Trade statistics | ITC
ITC	Economy, Finance & Trade	Import	Share in country's trade	Trade statistics | ITC
ITC	Economy, Finance & Trade	Import	Share in world trade	Trade statistics | ITC
ITC	Economy, Finance & Trade	Import	Unit value	Trade statistics | ITC
ITC	Economy, Finance & Trade	Import	Value	Trade statistics | ITC
OECD	Economy, Finance & Trade	Income & Living Conditions	Household disposable income	Household disposable income
EUROSTAT	Economy, Finance & Trade	Industry & Manufacturing	Business statistics: Manufactured goods (Prodcom)	Business statistics: Manufactured goods (Prodcom)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
UN	Economy, Finance & Trade	Industry & Manufacturing	INDSTAT	UNdata | explorer
UN	Economy, Finance & Trade	Industry & Manufacturing	Industrial Commodity Statistics Database	UNdata | explorer
OECD	Economy, Finance & Trade	Industry & Manufacturing	Industrial production	Industrial production
EUROSTAT	Economy, Finance & Trade	Industry & Manufacturing	Industry (production, turnover, producer prices), short term indicators	Industry (production, turnover, producer prices), short term indicators
EUROSTAT	Economy, Finance & Trade	Industry & Manufacturing	Industry, structural indicators	Industry, structural indicators
EUROSTAT	Economy, Finance & Trade	Industry & Manufacturing	Manufactured goods (Prodcom)	Manufactured goods (Prodcom)
EUROSTAT	Economy, Finance & Trade	Industry & Manufacturing	Prodcom (production of manufactured goods)	Prodcom (production of manufactured goods)
OECD	Economy, Finance & Trade	Insurance & Finance	Gross direct insurance premiums	Gross direct insurance premiums
OECD	Economy, Finance & Trade	Insurance & Finance	Gross insurance premiums	Gross insurance premiums
OECD	Economy, Finance & Trade	Insurance & Finance	Insurance spending	Insurance spending
OECD	Economy, Finance & Trade	Insurance & Finance	National insurance market share	National insurance market share
FAOSTAT	Economy, Finance & Trade	Investment	Country Investment Statistics Profile	https://www.fao.org/faostat/en/#data/CISP
FAOSTAT	Economy, Finance & Trade	Investment	Credit to Agriculture	https://www.fao.org/faostat/en/#data/IC
FAOSTAT	Economy, Finance & Trade	Investment	Development Flows to Agriculture	https://www.fao.org/faostat/en/#data/EA
FAOSTAT	Economy, Finance & Trade	Investment	Foreign Direct Investment (FDI)	https://www.fao.org/faostat/en/#data/FDI
FAOSTAT	Economy, Finance & Trade	Investment	Government Expenditure	https://www.fao.org/faostat/en/#data/IG
OECD	Economy, Finance & Trade	Investment & Capital	Investment by asset	Investment by asset
OECD	Economy, Finance & Trade	Investment & Capital	Investment by sector	Investment by sector
FAOSTAT	Economy, Finance & Trade	Macro-Economic Indicators	Capital Stock	https://www.fao.org/faostat/en/#data/CS
FAOSTAT	Economy, Finance & Trade	Macro-Economic Indicators	Macro Indicators	https://www.fao.org/faostat/en/#data/MK
EUROSTAT	Economy, Finance & Trade	National Accounts	ESA 2010 - European system of regional and national accounts	ESA 2010 - European system of regional and national accounts
EUROSTAT	Economy, Finance & Trade	National Accounts	ESA input-output tables	ESA input-output tables
EUROSTAT	Economy, Finance & Trade	National Accounts	European sector accounts	European sector accounts
EUROSTAT	Economy, Finance & Trade	National Accounts	FIGARO	FIGARO
EUROSTAT	Economy, Finance & Trade	National Accounts	Gross domestic product (GDP)	Gross domestic product (GDP)
EUROSTAT	Economy, Finance & Trade	National Accounts	Input-output tables	Input-output tables
OECD	Economy, Finance & Trade	National Accounts	Investment (GFCF)	Investment (GFCF)
EUROSTAT	Economy, Finance & Trade	National Accounts	National accounts (incl. GDP)	National accounts (incl. GDP)
OECD	Economy, Finance & Trade	National Accounts	Net lending/borrowing by sector	Net lending/borrowing by sector
OECD	Economy, Finance & Trade	National Accounts	Nominal gross domestic product (GDP)	Nominal gross domestic product (GDP)
OECD	Economy, Finance & Trade	National Accounts	Real Gross Domestic Product (GDP)	Real Gross Domestic Product (GDP)
EUROSTAT	Economy, Finance & Trade	National Accounts	Sector accounts	Sector accounts
OECD	Economy, Finance & Trade	National Accounts	Value added by activity	Value added by activity
UN	Economy, Finance & Trade	National Accounts & GDP	National Accounts Estimates of Main Aggregates	UNdata | explorer
UN	Economy, Finance & Trade	National Accounts & GDP	National Accounts Official Country Data	UNdata | explorer
OECD	Economy, Finance & Trade	Pensions & Finance	Pension funds' assets	Pension funds' assets
OECD	Economy, Finance & Trade	Pensions & Finance	Private pension assets	Private pension assets
FAOSTAT	Economy, Finance & Trade	Prices	Consumer Price Indices	https://www.fao.org/faostat/en/#data/CP

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
FAOSTAT	Economy, Finance & Trade	Prices	Deflators	https://www.fao.org/faostat/en/#data/PD
FAOSTAT	Economy, Finance & Trade	Prices	Exchange rates	https://www.fao.org/faostat/en/#data/PE
FAOSTAT	Economy, Finance & Trade	Prices	Producer Prices	https://www.fao.org/faostat/en/#data/PP
EUROSTAT	Economy, Finance & Trade	Prices & Inflation	Consumer prices (HICP)	Consumer prices (HICP)
EUROSTAT	Economy, Finance & Trade	Prices & Inflation	Food price monitoring	Food price monitoring
EUROSTAT	Economy, Finance & Trade	Prices & Inflation	Harmonised indices of consumer prices (HICP)	Harmonised indices of consumer prices (HICP)
EUROSTAT	Economy, Finance & Trade	Prices & Inflation	Inflation	Inflation
OECD	Economy, Finance & Trade	Prices & Inflation	Inflation (CPI)	Inflation (CPI)
EUROSTAT	Economy, Finance & Trade	Prices & Inflation	Monitoring of food prices	Monitoring of food prices
OECD	Economy, Finance & Trade	Prices & Inflation	Price level indices	Price level indices
EUROSTAT	Economy, Finance & Trade	Prices & Inflation	Prices (comparative price levels)	Prices (comparative price levels)
EUROSTAT	Economy, Finance & Trade	Prices & Inflation	Prices (inflation / HICP)	Prices (inflation / HICP)
WorldBank	Economy, Finance & Trade	Private Sector	Business extent of disclosure index (0=less disclosure to 10=more disclosure)	Business extent of disclosure index (0=less disclosure to 10=more disclosure)
WorldBank	Economy, Finance & Trade	Private Sector	Depth of credit information index (0=low to 8=high)	Depth of credit information index (0=low to 8=high)
WorldBank	Economy, Finance & Trade	Private Sector	Domestic credit to private sector (% of GDP)	Domestic credit to private sector (% of GDP)
WorldBank	Economy, Finance & Trade	Private Sector	Ease of doing business rank (1=most business-friendly regulations)	Ease of doing business rank (1=most business-friendly regulations)
WorldBank	Economy, Finance & Trade	Private Sector	Firms experiencing electrical outages (% of firms)	Firms experiencing electrical outages (% of firms)
WorldBank	Economy, Finance & Trade	Private Sector	Firms experiencing losses due to theft and vandalism (% of firms)	Firms experiencing losses due to theft and vandalism (% of firms)
WorldBank	Economy, Finance & Trade	Private Sector	Firms that spend on R&D (% of firms)	Firms that spend on R&D (% of firms)
WorldBank	Economy, Finance & Trade	Private Sector	Firms using banks to finance working capital (% of firms)	Firms using banks to finance working capital (% of firms)
WorldBank	Economy, Finance & Trade	Private Sector	Firms visited or required meetings with tax officials (% of firms)	Firms visited or required meetings with tax officials (% of firms)
WorldBank	Economy, Finance & Trade	Private Sector	Firms with female participation in ownership (% of firms)	Firms with female participation in ownership (% of firms)
WorldBank	Economy, Finance & Trade	Private Sector	Firms with female top manager (% of firms)	Firms with female top manager (% of firms)
WorldBank	Economy, Finance & Trade	Private Sector	Fuel exports (% of merchandise exports)	Fuel exports (% of merchandise exports)
WorldBank	Economy, Finance & Trade	Private Sector	High-technology exports (% of manufactured exports)	High-technology exports (% of manufactured exports)
WorldBank	Economy, Finance & Trade	Private Sector	High-technology exports (current US$)	High-technology exports (current US$)
WorldBank	Economy, Finance & Trade	Private Sector	International tourism, expenditures (% of total imports)	International tourism, expenditures (% of total imports)
WorldBank	Economy, Finance & Trade	Private Sector	International tourism, receipts (% of total exports)	International tourism, receipts (% of total exports)
WorldBank	Economy, Finance & Trade	Private Sector	Investment in energy with private participation (current US$)	Investment in energy with private participation (current US$)
WorldBank	Economy, Finance & Trade	Private Sector	Investment in transport with private participation (current US$)	Investment in transport with private participation (current US$)
WorldBank	Economy, Finance & Trade	Private Sector	Investment in water and sanitation with private participation (current US$)	Investment in water and sanitation with private participation (current US$)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Economy, Finance & Trade	Private Sector	Lead time to export, median case (days)	Lead time to export, median case (days)
WorldBank	Economy, Finance & Trade	Private Sector	Lead time to import, median case (days)	Lead time to import, median case (days)
WorldBank	Economy, Finance & Trade	Private Sector	Logistics performance index: Overall (1=low to 5=high)	Logistics performance index: Overall (1=low to 5=high)
WorldBank	Economy, Finance & Trade	Private Sector	Medium and high-tech exports (% manufactured exports)	Medium and high-tech exports (% manufactured exports)
WorldBank	Economy, Finance & Trade	Private Sector	Merchandise exports (current US$)	Merchandise exports (current US$)
WorldBank	Economy, Finance & Trade	Private Sector	Merchandise imports (current US$)	Merchandise imports (current US$)
WorldBank	Economy, Finance & Trade	Private Sector	Merchandise trade (% of GDP)	Merchandise trade (% of GDP)
WorldBank	Economy, Finance & Trade	Private Sector	Net barter terms of trade index (2015 = 100)	Net barter terms of trade index (2015 = 100)
WorldBank	Economy, Finance & Trade	Private Sector	New businesses registered (number)	New businesses registered (number)
WorldBank	Economy, Finance & Trade	Private Sector	Ores and metals exports (% of merchandise exports)	Ores and metals exports (% of merchandise exports)
WorldBank	Economy, Finance & Trade	Private Sector	Start-up procedures to register a business (number)	Start-up procedures to register a business (number)
WorldBank	Economy, Finance & Trade	Private Sector	Start-up procedures to register a business, female (number)	Start-up procedures to register a business, female (number)
WorldBank	Economy, Finance & Trade	Private Sector	Start-up procedures to register a business, male (number)	Start-up procedures to register a business, male (number)
WorldBank	Economy, Finance & Trade	Private Sector	Strength of legal rights index (0=weak to 12=strong)	Strength of legal rights index (0=weak to 12=strong)
WorldBank	Economy, Finance & Trade	Private Sector	Time required to get electricity (days)	Time required to get electricity (days)
WorldBank	Economy, Finance & Trade	Private Sector	Time required to start a business (days)	Time required to start a business (days)
WorldBank	Economy, Finance & Trade	Private Sector	Time required to start a business, female (days)	Time required to start a business, female (days)
WorldBank	Economy, Finance & Trade	Private Sector	Time required to start a business, male (days)	Time required to start a business, male (days)
WorldBank	Economy, Finance & Trade	Private Sector	Time spent dealing with the requirements of government regulations (% of senior management time)	Time spent dealing with the requirements of government regulations (% of senior management time)
WorldBank	Economy, Finance & Trade	Private Sector	Total tax and contribution rate (% of profit)	Total tax and contribution rate (% of profit)
OECD	Economy, Finance & Trade	Productivity & Economy	GDP per hour worked	GDP per hour worked
OECD	Economy, Finance & Trade	Productivity & Economy	Labour productivity and utilisation	Labour productivity and utilisation
OECD	Economy, Finance & Trade	Productivity & Economy	Multifactor productivity	Multifactor productivity
WorldBank	Economy, Finance & Trade	Public Sector	Central government debt, total (% of GDP)	Central government debt, total (% of GDP)
WorldBank	Economy, Finance & Trade	Public Sector	CPIA economic management cluster average (1=low to 6=high)	CPIA economic management cluster average (1=low to 6=high)
WorldBank	Economy, Finance & Trade	Public Sector	CPIA policies for social inclusion/equity cluster average (1=low to 6=high)	CPIA policies for social inclusion/equity cluster average (1=low to 6=high)
WorldBank	Economy, Finance & Trade	Public Sector	CPIA public sector management and institutions cluster average (1=low to 6=high)	CPIA public sector management and institutions cluster average (1=low to 6=high)
WorldBank	Economy, Finance & Trade	Public Sector	CPIA structural policies cluster average (1=low to 6=high)	CPIA structural policies cluster average (1=low to 6=high)
WorldBank	Economy, Finance & Trade	Public Sector	Expense (% of GDP)	Expense (% of GDP)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Economy, Finance & Trade	Public Sector	IDA resource allocation index (1=low to 6=high)	IDA resource allocation index (1=low to 6=high)
WorldBank	Economy, Finance & Trade	Public Sector	Intentional homicides (per 100,000 people)	Intentional homicides (per 100,000 people)
WorldBank	Economy, Finance & Trade	Public Sector	Military expenditure (% of GDP)	Military expenditure (% of GDP)
WorldBank	Economy, Finance & Trade	Public Sector	Military expenditure (% of general government expenditure)	Military expenditure (% of general government expenditure)
WorldBank	Economy, Finance & Trade	Public Sector	Net acquisition of financial assets (% of GDP)	Net acquisition of financial assets (% of GDP)
WorldBank	Economy, Finance & Trade	Public Sector	Net incurrence of liabilities, total (% of GDP)	Net incurrence of liabilities, total (% of GDP)
WorldBank	Economy, Finance & Trade	Public Sector	Net investment in nonfinancial assets (% of GDP)	Net investment in nonfinancial assets (% of GDP)
WorldBank	Economy, Finance & Trade	Public Sector	Net lending (+) / net borrowing (-) (% of GDP)	Net lending (+) / net borrowing (-) (% of GDP)
WorldBank	Economy, Finance & Trade	Public Sector	Proportion of seats held by women in national parliaments (%)	Proportion of seats held by women in national parliaments (%)
WorldBank	Economy, Finance & Trade	Public Sector	Revenue, excluding grants (% of GDP)	Revenue, excluding grants (% of GDP)
WorldBank	Economy, Finance & Trade	Public Sector	Strength of legal rights index (0=weak to 12=strong)	Strength of legal rights index (0=weak to 12=strong)
WorldBank	Economy, Finance & Trade	Public Sector	Tax revenue (% of GDP)	Tax revenue (% of GDP)
WorldBank	Economy, Finance & Trade	Public Sector	Total tax and contribution rate (% of profit)	Total tax and contribution rate (% of profit)
EUROSTAT	Economy, Finance & Trade	Regional Policy	Cohesion policy indicators	Cohesion policy indicators
EUROSTAT	Economy, Finance & Trade	Regions & Geography	Coastal regions	Coastal regions
EUROSTAT	Economy, Finance & Trade	Regions & Geography	Maritime regions	Maritime regions
EUROSTAT	Economy, Finance & Trade	Regions & Geography	Metropolitan regions	Metropolitan regions
EUROSTAT	Economy, Finance & Trade	Regions & Geography	NUTS (statistical classification of EU regions)	NUTS (statistical classification of EU regions)
EUROSTAT	Economy, Finance & Trade	Regions & Geography	Regions	Regions
EUROSTAT	Economy, Finance & Trade	Space Economy	Economy: Space thematic account (experimental statistics)	Economy: Space thematic account (experimental statistics)
EUROSTAT	Economy, Finance & Trade	Space Economy	Space economy (experimental statistics)	Space economy (experimental statistics)
ITC	Economy, Finance & Trade	Tariff	Tariff faced/applied	Trade statistics | ITC
OECD	Economy, Finance & Trade	Taxation	Tax on corporate profits	Tax on corporate profits
OECD	Economy, Finance & Trade	Taxation	Tax on goods and services	Tax on goods and services
OECD	Economy, Finance & Trade	Taxation	Tax on payroll	Tax on payroll
OECD	Economy, Finance & Trade	Taxation	Tax on personal income	Tax on personal income
OECD	Economy, Finance & Trade	Taxation	Tax on property	Tax on property
OECD	Economy, Finance & Trade	Taxation	Tax revenue	Tax revenue
OECD	Economy, Finance & Trade	Taxation & Labour Market	Tax wedge	Tax wedge
EUROSTAT	Economy, Finance & Trade	Tourism	Tourism	Tourism
OECD	Economy, Finance & Trade	Tourism	Tourism employment	Tourism employment
OECD	Economy, Finance & Trade	Tourism	Tourism flows	Tourism flows
OECD	Economy, Finance & Trade	Tourism	Tourism GDP	Tourism GDP
OECD	Economy, Finance & Trade	Tourism	Tourism receipts and spending	Tourism receipts and spending
UN	Economy, Finance & Trade	Tourism	World Tourism Data	UNdata | explorer
FAOSTAT	Economy, Finance & Trade	Trade	Crops and livestock products	https://www.fao.org/faostat/en/#data/TCL
FAOSTAT	Economy, Finance & Trade	Trade	Crops and livestock products indicators	https://www.fao.org/faostat/en/#data/TCLI
FAOSTAT	Economy, Finance & Trade	Trade	Detailed trade matrix	https://www.fao.org/faostat/en/#data/TM
WorldBank	Economy, Finance & Trade	Trade	Energy imports, net (% of energy use)	Energy imports, net (% of energy use)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Economy, Finance & Trade	Trade	Exports of goods and services (% of GDP)	Exports of goods and services (% of GDP)
EUROSTAT	Economy, Finance & Trade	Trade	External trade	External trade
WorldBank	Economy, Finance & Trade	Trade	Fuel exports (% of merchandise exports)	Fuel exports (% of merchandise exports)
WorldBank	Economy, Finance & Trade	Trade	High-technology exports (% of manufactured exports)	High-technology exports (% of manufactured exports)
WorldBank	Economy, Finance & Trade	Trade	High-technology exports (current US$)	High-technology exports (current US$)
WorldBank	Economy, Finance & Trade	Trade	Imports of goods and services (% of GDP)	Imports of goods and services (% of GDP)
WorldBank	Economy, Finance & Trade	Trade	International tourism, expenditures (% of total imports)	International tourism, expenditures (% of total imports)
WorldBank	Economy, Finance & Trade	Trade	International tourism, receipts (% of total exports)	International tourism, receipts (% of total exports)
EUROSTAT	Economy, Finance & Trade	Trade	International trade in goods	International trade in goods
EUROSTAT	Economy, Finance & Trade	Trade	International trade in services	International trade in services
WorldBank	Economy, Finance & Trade	Trade	Lead time to export, median case (days)	Lead time to export, median case (days)
WorldBank	Economy, Finance & Trade	Trade	Lead time to import, median case (days)	Lead time to import, median case (days)
WorldBank	Economy, Finance & Trade	Trade	Logistics performance index: Overall (1=low to 5=high)	Logistics performance index: Overall (1=low to 5=high)
WorldBank	Economy, Finance & Trade	Trade	Medium and high-tech exports (% manufactured exports)	Medium and high-tech exports (% manufactured exports)
WorldBank	Economy, Finance & Trade	Trade	Merchandise exports (current US$)	Merchandise exports (current US$)
WorldBank	Economy, Finance & Trade	Trade	Merchandise imports (current US$)	Merchandise imports (current US$)
WorldBank	Economy, Finance & Trade	Trade	Merchandise trade (% of GDP)	Merchandise trade (% of GDP)
WorldBank	Economy, Finance & Trade	Trade	Net barter terms of trade index (2015 = 100)	Net barter terms of trade index (2015 = 100)
WorldBank	Economy, Finance & Trade	Trade	Ores and metals exports (% of merchandise exports)	Ores and metals exports (% of merchandise exports)
OECD	Economy, Finance & Trade	Trade	Terms of trade	Terms of trade
EUROSTAT	Economy, Finance & Trade	Trade	Trade in goods	Trade in goods
OECD	Economy, Finance & Trade	Trade	Trade in goods	Trade in goods
OECD	Economy, Finance & Trade	Trade	Trade in goods and services	Trade in goods and services
EUROSTAT	Economy, Finance & Trade	Trade	Trade in services	Trade in services
OECD	Economy, Finance & Trade	Trade	Trade in services	Trade in services
FAOSTAT	Economy, Finance & Trade	Trade	Trade Indices	https://www.fao.org/faostat/en/#data/TI
OECD	Economy, Finance & Trade	Trade & Business	Exports by business size	Exports by business size
OECD	Economy, Finance & Trade	Trade & Business	Imports by business size	Imports by business size
OECD	Economy, Finance & Trade	Trade & Globalisation	Domestic value added in gross exports	Domestic value added in gross exports
OECD	Economy, Finance & Trade	Trade & Globalisation	Import content of exports	Import content of exports
UN	Economy, Finance & Trade	Trade & International Commerce	Commodity Trade Statistics Database	UNdata | explorer
EUROSTAT	Economy, Finance & Trade	Trade & Retail	Retail and wholesale trade, short term statistics	Retail and wholesale trade, short term statistics
EUROSTAT	Economy, Finance & Trade	Trade & Retail	Retail and wholesale trade, structural indicators	Retail and wholesale trade, structural indicators
EUROSTAT	Economy, Finance & Trade	Trade & Retail	Wholesale and retail trade, short-term statistics	Wholesale and retail trade, short-term statistics
EUROSTAT	Economy, Finance & Trade	Trade & Retail	Wholesale and retail trade, structural indicators	Wholesale and retail trade, structural indicators
ITC	Economy, Finance & Trade	Trade Indicators	Average distance of partner countries	Trade statistics | ITC
ITC	Economy, Finance & Trade	Trade Indicators	CO2 emission	Trade statistics | ITC
ITC	Economy, Finance & Trade	Trade Indicators	Estimation of untapped potential trade	Trade statistics | ITC

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
ITC	Economy, Finance & Trade	Trade Indicators	Growth in quantity (last 5 years)	Trade statistics | ITC
ITC	Economy, Finance & Trade	Trade Indicators	Growth in value (last 2 years)	Trade statistics | ITC
ITC	Economy, Finance & Trade	Trade Indicators	Growth in value (last 5 years)	Trade statistics | ITC
ITC	Economy, Finance & Trade	Trade Indicators	Market concentration	Trade statistics | ITC
ITC	Economy, Finance & Trade	Trade Indicators	Number of non-tariff requirements	Trade statistics | ITC
ITC	Economy, Finance & Trade	Trade Indicators	Ranking in world trade	Trade statistics | ITC
ITC	Economy, Finance & Trade	Trade Indicators	Share in partner's trade	Trade statistics | ITC
ITC	Economy, Finance & Trade	Trade Indicators	Trend indicators	Trade statistics | ITC
WorldBank	Education, Science & Innovation	Education	Children out of school, primary, female	Children out of school, primary, female
WorldBank	Education, Science & Innovation	Education	Children out of school, primary, male	Children out of school, primary, male
EUROSTAT	Education, Science & Innovation	Education	Education and training	Education and training
OECD	Education, Science & Innovation	Education	Enrolment rate in early childhood education	Enrolment rate in early childhood education
OECD	Education, Science & Innovation	Education	Enrolment rate in secondary and tertiary education	Enrolment rate in secondary and tertiary education
WorldBank	Education, Science & Innovation	Education	Government expenditure on education, total (% of GDP)	Government expenditure on education, total (% of GDP)
WorldBank	Education, Science & Innovation	Education	Government expenditure on education, total (% of government expenditure)	Government expenditure on education, total (% of government expenditure)
WorldBank	Education, Science & Innovation	Education	Government expenditure per student, primary (% of GDP per capita)	Government expenditure per student, primary (% of GDP per capita)
WorldBank	Education, Science & Innovation	Education	Government expenditure per student, secondary (% of GDP per capita)	Government expenditure per student, secondary (% of GDP per capita)
WorldBank	Education, Science & Innovation	Education	Government expenditure per student, tertiary (% of GDP per capita)	Government expenditure per student, tertiary (% of GDP per capita)
WorldBank	Education, Science & Innovation	Education	Gross intake ratio in first grade of primary education, female (% of relevant age group)	Gross intake ratio in first grade of primary education, female (% of relevant age group)
WorldBank	Education, Science & Innovation	Education	Gross intake ratio in first grade of primary education, male (% of relevant age group)	Gross intake ratio in first grade of primary education, male (% of relevant age group)
WorldBank	Education, Science & Innovation	Education	Labor force, female (% of total labor force)	Labor force, female (% of total labor force)
WorldBank	Education, Science & Innovation	Education	Labor force, total	Labor force, total
WorldBank	Education, Science & Innovation	Education	Literacy rate, adult female (% of females ages 15 and above)	Literacy rate, adult female (% of females ages 15 and above)
WorldBank	Education, Science & Innovation	Education	Literacy rate, adult male (% of males ages 15 and above)	Literacy rate, adult male (% of males ages 15 and above)
WorldBank	Education, Science & Innovation	Education	Literacy rate, adult total (% of people ages 15 and above)	Literacy rate, adult total (% of people ages 15 and above)
WorldBank	Education, Science & Innovation	Education	Literacy rate, youth female (% of females ages 15-24)	Literacy rate, youth female (% of females ages 15-24)
WorldBank	Education, Science & Innovation	Education	Literacy rate, youth male (% of males ages 15-24)	Literacy rate, youth male (% of males ages 15-24)
WorldBank	Education, Science & Innovation	Education	Literacy rate, youth total (% of people ages 15-24)	Literacy rate, youth total (% of people ages 15-24)
OECD	Education, Science & Innovation	Education	Mathematics performance (PISA)	Mathematics performance (PISA)
OECD	Education, Science & Innovation	Education	Number of students	Number of students
WorldBank	Education, Science & Innovation	Education	Persistence to last grade of primary, female (% of cohort)	Persistence to last grade of primary, female (% of cohort)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Education, Science & Innovation	Education	Persistence to last grade of primary, male (% of cohort)	Persistence to last grade of primary, male (% of cohort)
WorldBank	Education, Science & Innovation	Education	Population ages 0-14 (% of total population)	Population ages 0-14 (% of total population)
WorldBank	Education, Science & Innovation	Education	Population ages 15-64 (% of total population)	Population ages 15-64 (% of total population)
OECD	Education, Science & Innovation	Education	Population with tertiary education	Population with tertiary education
WorldBank	Education, Science & Innovation	Education	Primary completion rate, female (% of relevant age group)	Primary completion rate, female (% of relevant age group)
WorldBank	Education, Science & Innovation	Education	Primary completion rate, male (% of relevant age group)	Primary completion rate, male (% of relevant age group)
WorldBank	Education, Science & Innovation	Education	Primary completion rate, total (% of relevant age group)	Primary completion rate, total (% of relevant age group)
WorldBank	Education, Science & Innovation	Education	Progression to secondary school, female (%)	Progression to secondary school, female (%)
WorldBank	Education, Science & Innovation	Education	Progression to secondary school, male (%)	Progression to secondary school, male (%)
WorldBank	Education, Science & Innovation	Education	Pupil-teacher ratio, primary	Pupil-teacher ratio, primary
OECD	Education, Science & Innovation	Education	Reading performance (PISA)	Reading performance (PISA)
WorldBank	Education, Science & Innovation	Education	Repeaters, primary, female (% of female enrollment)	Repeaters, primary, female (% of female enrollment)
WorldBank	Education, Science & Innovation	Education	Repeaters, primary, male (% of male enrollment)	Repeaters, primary, male (% of male enrollment)
WorldBank	Education, Science & Innovation	Education	School enrollment, preprimary (% gross)	School enrollment, preprimary (% gross)
WorldBank	Education, Science & Innovation	Education	School enrollment, primary (% gross)	School enrollment, primary (% gross)
WorldBank	Education, Science & Innovation	Education	School enrollment, primary (% net)	School enrollment, primary (% net)
WorldBank	Education, Science & Innovation	Education	School enrollment, primary (gross), gender parity index (GPI)	School enrollment, primary (gross), gender parity index (GPI)
WorldBank	Education, Science & Innovation	Education	School enrollment, primary and secondary (gross), gender parity index (GPI)	School enrollment, primary and secondary (gross), gender parity index (GPI)
WorldBank	Education, Science & Innovation	Education	School enrollment, secondary (% gross)	School enrollment, secondary (% gross)
WorldBank	Education, Science & Innovation	Education	School enrollment, secondary (% net)	School enrollment, secondary (% net)
WorldBank	Education, Science & Innovation	Education	School enrollment, tertiary (% gross)	School enrollment, tertiary (% gross)
OECD	Education, Science & Innovation	Education	School principals	School principals
OECD	Education, Science & Innovation	Education	Science performance (PISA)	Science performance (PISA)
OECD	Education, Science & Innovation	Education	Secondary graduation rate	Secondary graduation rate
EUROSTAT	Education, Science & Innovation	Education	Students	Students
OECD	Education, Science & Innovation	Education	Students per teaching staff	Students per teaching staff
OECD	Education, Science & Innovation	Education	Teachers by age	Teachers by age
OECD	Education, Science & Innovation	Education	Teaching hours	Teaching hours
OECD	Education, Science & Innovation	Education	Teaching staff	Teaching staff
OECD	Education, Science & Innovation	Education	Tertiary graduates by field	Tertiary graduates by field
OECD	Education, Science & Innovation	Education	Tertiary graduation rate	Tertiary graduation rate

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Education, Science & Innovation	Education	Trained teachers in primary education (% of total teachers)	Trained teachers in primary education (% of total teachers)
EUROSTAT	Education, Science & Innovation	Education	Training and education	Training and education
WorldBank	Education, Science & Innovation	Education	Unemployment, female (% of female labor force) (modeled ILO estimate)	Unemployment, female (% of female labor force) (modeled ILO estimate)
WorldBank	Education, Science & Innovation	Education	Unemployment, male (% of male labor force) (modeled ILO estimate)	Unemployment, male (% of male labor force) (modeled ILO estimate)
WorldBank	Education, Science & Innovation	Education	Unemployment, total (% of total labor force) (modeled ILO estimate)	Unemployment, total (% of total labor force) (modeled ILO estimate)
OECD	Education, Science & Innovation	Education & Health	Medical graduates	Medical graduates
OECD	Education, Science & Innovation	Education & Health	Nursing graduates	Nursing graduates
OECD	Education, Science & Innovation	Education & Labour Market	Teachers' salaries	Teachers' salaries
OECD	Education, Science & Innovation	Education & Mobility	International student mobility	International student mobility
OECD	Education, Science & Innovation	Education & Skills	Adult education level	Adult education level
EUROSTAT	Education, Science & Innovation	Education & Skills	Language skills	Language skills
EUROSTAT	Education, Science & Innovation	Education & Skills	Life long learning	Life long learning
EUROSTAT	Education, Science & Innovation	Education & Skills	Skills (visualisation tool)	Skills (visualisation tool)
EUROSTAT	Education, Science & Innovation	Education & Skills	Skills related statistics	Skills related statistics
OECD	Education, Science & Innovation	Education Finance	Private spending on education	Private spending on education
OECD	Education, Science & Innovation	Education Finance	Public spending on education	Public spending on education
OECD	Education, Science & Innovation	Education Finance	Spending on tertiary education	Spending on tertiary education
UN	Education, Science & Innovation	Education, Science & Culture	UIS Data Centre	UNdata | explorer
OECD	Education, Science & Innovation	Science & Innovation	Government researchers	Government researchers
OECD	Education, Science & Innovation	Science & Innovation	Gross domestic spending on R&D	Gross domestic spending on R&D
EUROSTAT	Education, Science & Innovation	Science & Innovation	Innovation	Innovation
OECD	Education, Science & Innovation	Science & Innovation	Patents on environment technologies	Patents on environment technologies
EUROSTAT	Education, Science & Innovation	Science & Innovation	Research and development	Research and development
OECD	Education, Science & Innovation	Science & Innovation	Researchers	Researchers
EUROSTAT	Education, Science & Innovation	Science & Innovation	Science, technology and innovation	Science, technology and innovation
OECD	Education, Science & Innovation	Science & Innovation	Triadic patent families	Triadic patent families
WorldBank	Education, Science & Innovation	Science & Technology	Charges for the use of intellectual property, payments (BoP, current US$)	Charges for the use of intellectual property, payments (BoP, current US$)
WorldBank	Education, Science & Innovation	Science & Technology	Charges for the use of intellectual property, receipts (BoP, current US$)	Charges for the use of intellectual property, receipts (BoP, current US$)
WorldBank	Education, Science & Innovation	Science & Technology	High-technology exports (% of manufactured exports)	High-technology exports (% of manufactured exports)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Education, Science & Innovation	Science & Technology	High-technology exports (current US$)	High-technology exports (current US$)
WorldBank	Education, Science & Innovation	Science & Technology	Patent applications, nonresidents	Patent applications, nonresidents
WorldBank	Education, Science & Innovation	Science & Technology	Patent applications, residents	Patent applications, residents
WorldBank	Education, Science & Innovation	Science & Technology	Research and development expenditure (% of GDP)	Research and development expenditure (% of GDP)
WorldBank	Education, Science & Innovation	Science & Technology	Researchers in R&D (per million people)	Researchers in R&D (per million people)
WorldBank	Education, Science & Innovation	Science & Technology	Scientific and technical journal articles	Scientific and technical journal articles
WorldBank	Education, Science & Innovation	Science & Technology	Technicians in R&D (per million people)	Technicians in R&D (per million people)
WorldBank	Environment & Climate	Climate Change	Access to electricity (% of population)	Access to electricity (% of population)
WorldBank	Environment & Climate	Climate Change	Agricultural irrigated land (% of total agricultural land)	Agricultural irrigated land (% of total agricultural land)
WorldBank	Environment & Climate	Climate Change	Agricultural land (% of land area)	Agricultural land (% of land area)
WorldBank	Environment & Climate	Climate Change	Agriculture, forestry, and fishing, value added (% of GDP)	Agriculture, forestry, and fishing, value added (% of GDP)
WorldBank	Environment & Climate	Climate Change	Annual freshwater withdrawals, total (% of internal resources)	Annual freshwater withdrawals, total (% of internal resources)
WorldBank	Environment & Climate	Climate Change	Annual freshwater withdrawals, total (billion cubic meters)	Annual freshwater withdrawals, total (billion cubic meters)
WorldBank	Environment & Climate	Climate Change	Arable land (% of land area)	Arable land (% of land area)
WorldBank	Environment & Climate	Climate Change	Cereal yield (kg per hectare)	Cereal yield (kg per hectare)
WorldBank	Environment & Climate	Climate Change	CPIA public sector management and institutions cluster average (1=low to 6=high)	CPIA public sector management and institutions cluster average (1=low to 6=high)
WorldBank	Environment & Climate	Climate Change	Ease of doing business rank (1=most business-friendly regulations)	Ease of doing business rank (1=most business-friendly regulations)
WorldBank	Environment & Climate	Climate Change	Electric power consumption (kWh per capita)	Electric power consumption (kWh per capita)
WorldBank	Environment & Climate	Climate Change	Energy use (kg of oil equivalent per capita)	Energy use (kg of oil equivalent per capita)
WorldBank	Environment & Climate	Climate Change	Forest area (% of land area)	Forest area (% of land area)
WorldBank	Environment & Climate	Climate Change	Forest area (sq. km)	Forest area (sq. km)
WorldBank	Environment & Climate	Climate Change	Land area where elevation is below 5 meters (% of total land area)	Land area where elevation is below 5 meters (% of total land area)
WorldBank	Environment & Climate	Climate Change	Mortality rate, under-5 (per 1,000 live births)	Mortality rate, under-5 (per 1,000 live births)
WorldBank	Environment & Climate	Climate Change	Population growth (annual %)	Population growth (annual %)
WorldBank	Environment & Climate	Climate Change	Population in urban agglomerations of more than 1 million (% of total population)	Population in urban agglomerations of more than 1 million (% of total population)
WorldBank	Environment & Climate	Climate Change	Population living in areas where elevation is below 5 meters (% of total population)	Population living in areas where elevation is below 5 meters (% of total population)
WorldBank	Environment & Climate	Climate Change	Population, total	Population, total
WorldBank	Environment & Climate	Climate Change	Poverty headcount ratio at $2.15 a day (2017 PPP) (% of population)	Poverty headcount ratio at $2.15 a day (2017 PPP) (% of population)
WorldBank	Environment & Climate	Climate Change	Prevalence of underweight, weight for age (% of children under 5)	Prevalence of underweight, weight for age (% of children under 5)
WorldBank	Environment & Climate	Climate Change	Primary completion rate, total (% of relevant age group)	Primary completion rate, total (% of relevant age group)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Environment & Climate	Climate Change	Renewable electricity output (% of total electricity output)	Renewable electricity output (% of total electricity output)
WorldBank	Environment & Climate	Climate Change	Renewable energy consumption (% of total final energy consumption)	Renewable energy consumption (% of total final energy consumption)
WorldBank	Environment & Climate	Climate Change	School enrollment, primary and secondary (gross), gender parity index (GPI)	School enrollment, primary and secondary (gross), gender parity index (GPI)
WorldBank	Environment & Climate	Climate Change	Terrestrial and marine protected areas (% of total territorial area)	Terrestrial and marine protected areas (% of total territorial area)
WorldBank	Environment & Climate	Climate Change	Urban population	Urban population
WorldBank	Environment & Climate	Climate Change	Urban population (% of total population)	Urban population (% of total population)
UN	Environment & Climate	Climate Change & Emissions	Greenhouse Gas Inventory Data	UNdata | explorer
FAOSTAT	Environment & Climate	Climate Change Indicators	Temperature change on land	https://www.fao.org/faostat/en/#data/ET
FAOSTAT	Environment & Climate	Climate Change: Agrifood systems emissions	Farm gate:Emissions from Crops	https://www.fao.org/faostat/en/#data/GCE
FAOSTAT	Environment & Climate	Climate Change: Agrifood systems emissions	Farm gate:Emissions from Energy use in agriculture	https://www.fao.org/faostat/en/#data/GN
FAOSTAT	Environment & Climate	Climate Change: Agrifood systems emissions	Farm gate:Emissions from Livestock	https://www.fao.org/faostat/en/#data/GLE
FAOSTAT	Environment & Climate	Climate Change: Agrifood systems emissions	Land use and change: Emissions from Forests	https://www.fao.org/faostat/en/#data/GF
FAOSTAT	Environment & Climate	Climate Change: Agrifood systems emissions	Land use and change: Emissions from Forests	https://www.fao.org/faostat/en/#data/GI
FAOSTAT	Environment & Climate	Climate Change: Agrifood systems emissions	Land use and change:Emissions from Drained organic soils	https://www.fao.org/faostat/en/#data/GV
FAOSTAT	Environment & Climate	Climate Change: Agrifood systems emissions	Pre and post agricultural production: Emissions from pre and post agricultural production	https://www.fao.org/faostat/en/#data/GPP
FAOSTAT	Environment & Climate	Climate Change: Agrifood systems emissions	Totals and Indicators: Emissions indicators	https://www.fao.org/faostat/en/#data/GT
FAOSTAT	Environment & Climate	Climate Change: Agrifood systems emissions	Totals and Indicators: Emissions totals	https://www.fao.org/faostat/en/#data/EM
FAOSTAT	Environment & Climate	Climate Change: Agrifood systems emissions	Totals and Indicators:Emissions intensities	https://www.fao.org/faostat/en/#data/EI
OECD	Environment & Climate	Energy	Crude oil import prices	Crude oil import prices
OECD	Environment & Climate	Energy	Crude oil production	Crude oil production
OECD	Environment & Climate	Energy	Electricity generation	Electricity generation
EUROSTAT	Environment & Climate	Energy	Energy	Energy
UN	Environment & Climate	Energy	Energy Statistics Database	UNdata | explorer
OECD	Environment & Climate	Energy	Nuclear power plants	Nuclear power plants
OECD	Environment & Climate	Energy	Primary energy supply	Primary energy supply
EUROSTAT	Environment & Climate	Energy	Renewable energy	Renewable energy
FADN	Environment & Climate	Energy & Agriculture	Energy crops	FADN PUBLIC DATABASE SO
FADN	Environment & Climate	Energy & Agriculture	Energy crops	FADN PUBLIC DATABASE SO
WorldBank	Environment & Climate	Energy & Mining	Access to electricity (% of population)	Access to electricity (% of population)
WorldBank	Environment & Climate	Energy & Mining	Alternative and nuclear energy (% of total energy use)	Alternative and nuclear energy (% of total energy use)
WorldBank	Environment & Climate	Energy & Mining	Electric power consumption (kWh per capita)	Electric power consumption (kWh per capita)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Environment & Climate	Energy & Mining	Energy imports, net (% of energy use)	Energy imports, net (% of energy use)
WorldBank	Environment & Climate	Energy & Mining	Energy intensity level of primary energy (MJ/$2017 PPP GDP)	Energy intensity level of primary energy (MJ/$2017 PPP GDP)
WorldBank	Environment & Climate	Energy & Mining	Energy use (kg of oil equivalent per capita)	Energy use (kg of oil equivalent per capita)
WorldBank	Environment & Climate	Energy & Mining	Fossil fuel energy consumption (% of total)	Fossil fuel energy consumption (% of total)
WorldBank	Environment & Climate	Energy & Mining	Fuel exports (% of merchandise exports)	Fuel exports (% of merchandise exports)
WorldBank	Environment & Climate	Energy & Mining	GDP per unit of energy use (constant 2021 PPP $ per kg of oil equivalent)	GDP per unit of energy use (constant 2021 PPP $ per kg of oil equivalent)
WorldBank	Environment & Climate	Energy & Mining	Investment in energy with private participation (current US$)	Investment in energy with private participation (current US$)
WorldBank	Environment & Climate	Energy & Mining	Ores and metals exports (% of merchandise exports)	Ores and metals exports (% of merchandise exports)
WorldBank	Environment & Climate	Energy & Mining	Renewable electricity output (% of total electricity output)	Renewable electricity output (% of total electricity output)
WorldBank	Environment & Climate	Energy & Mining	Renewable energy consumption (% of total final energy consumption)	Renewable energy consumption (% of total final energy consumption)
WorldBank	Environment & Climate	Energy & Mining	Time required to get electricity (days)	Time required to get electricity (days)
WorldBank	Environment & Climate	Energy & Mining	Total natural resources rents (% of GDP)	Total natural resources rents (% of GDP)
OECD	Environment & Climate	Energy & Sustainability	Renewable energy	Renewable energy
FADN	Environment & Climate	Energy Use	Energy	FADN PUBLIC DATABASE S0
WorldBank	Environment & Climate	Environment	Access to electricity (% of population)	Access to electricity (% of population)
WorldBank	Environment & Climate	Environment	Adjusted net savings, including particulate emission damage (% of GNI)	Adjusted net savings, including particulate emission damage (% of GNI)
WorldBank	Environment & Climate	Environment	Agricultural land (% of land area)	Agricultural land (% of land area)
WorldBank	Environment & Climate	Environment	Annual freshwater withdrawals, total (% of internal resources)	Annual freshwater withdrawals, total (% of internal resources)
WorldBank	Environment & Climate	Environment	Annual freshwater withdrawals, total (billion cubic meters)	Annual freshwater withdrawals, total (billion cubic meters)
WorldBank	Environment & Climate	Environment	Arable land (% of land area)	Arable land (% of land area)
WorldBank	Environment & Climate	Environment	Bird species, threatened	Bird species, threatened
WorldBank	Environment & Climate	Environment	Energy intensity level of primary energy (MJ/$2017 PPP GDP)	Energy intensity level of primary energy (MJ/$2017 PPP GDP)
WorldBank	Environment & Climate	Environment	Fish species, threatened	Fish species, threatened
WorldBank	Environment & Climate	Environment	Forest area (% of land area)	Forest area (% of land area)
WorldBank	Environment & Climate	Environment	Forest area (sq. km)	Forest area (sq. km)
WorldBank	Environment & Climate	Environment	Land area (sq. km)	Land area (sq. km)
WorldBank	Environment & Climate	Environment	Land area where elevation is below 5 meters (% of total land area)	Land area where elevation is below 5 meters (% of total land area)
WorldBank	Environment & Climate	Environment	Mammal species, threatened	Mammal species, threatened
WorldBank	Environment & Climate	Environment	Plant species (higher), threatened	Plant species (higher), threatened
WorldBank	Environment & Climate	Environment	PM2.5 air pollution, mean annual exposure (micrograms per cubic meter)	PM2.5 air pollution, mean annual exposure (micrograms per cubic meter)
WorldBank	Environment & Climate	Environment	PM2.5 air pollution, population exposed to levels exceeding	PM2.5 air pollution, population exposed to levels exceeding

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
			WHO guideline value (% of total)	WHO guideline value (% of total)
WorldBank	Environment & Climate	Environment	Population living in areas where elevation is below 5 meters (% of total population)	Population living in areas where elevation is below 5 meters (% of total population)
WorldBank	Environment & Climate	Environment	Population living in slums (% of urban population)	Population living in slums (% of urban population)
WorldBank	Environment & Climate	Environment	Renewable electricity output (% of total electricity output)	Renewable electricity output (% of total electricity output)
WorldBank	Environment & Climate	Environment	Renewable energy consumption (% of total final energy consumption)	Renewable energy consumption (% of total final energy consumption)
WorldBank	Environment & Climate	Environment	Renewable internal freshwater resources per capita (cubic meters)	Renewable internal freshwater resources per capita (cubic meters)
WorldBank	Environment & Climate	Environment	Renewable internal freshwater resources, total (billion cubic meters)	Renewable internal freshwater resources, total (billion cubic meters)
WorldBank	Environment & Climate	Environment	Surface area (sq. km)	Surface area (sq. km)
WorldBank	Environment & Climate	Environment	Terrestrial and marine protected areas (% of total territorial area)	Terrestrial and marine protected areas (% of total territorial area)
WorldBank	Environment & Climate	Environment	Total natural resources rents (% of GDP)	Total natural resources rents (% of GDP)
OECD	Environment & Climate	Environment & Biodiversity	Natural protected areas	Natural protected areas
OECD	Environment & Climate	Environment & Biodiversity	Threatened species	Threatened species
OECD	Environment & Climate	Environment & Climate	Air and GHG emissions	Air and GHG emissions
EUROSTAT	Environment & Climate	Environment & Climate	Climate change	Climate change
EUROSTAT	Environment & Climate	Environment & Climate	Emissions	Emissions
EUROSTAT	Environment & Climate	Environment & Climate	Environment	Environment
UN	Environment & Climate	Environment & Climate	Environment Statistics Database	UNdata | explorer
EUROSTAT	Environment & Climate	Environment & Climate	Environmental accounts	Environmental accounts
EUROSTAT	Environment & Climate	Environment & Climate	Environmental accounts dashboard	Environmental accounts dashboard
EUROSTAT	Environment & Climate	Environment & Climate	European green deal statistics	European green deal statistics
EUROSTAT	Environment & Climate	Environment & Climate	Greenhouse gas emissions	Greenhouse gas emissions
EUROSTAT	Environment & Climate	Environment & Climate	Waste	Waste
EUROSTAT	Environment & Climate	Environment & Climate	Water	Water
OECD	Environment & Climate	Environment & Forestry	Forest resources	Forest resources
OECD	Environment & Climate	Environment & Health	Air pollution effects	Air pollution effects
OECD	Environment & Climate	Environment & Health	Air pollution exposure	Air pollution exposure
OECD	Environment & Climate	Environment & Land Use	Land cover change	Land cover change
EUROSTAT	Environment & Climate	Environment & Land Use	Land: land cover / landscape / land use	Land: land cover / landscape / land use
EUROSTAT	Environment & Climate	Environment & Land Use	LUCAS: Land cover/use statistics	LUCAS: Land cover/use statistics
OECD	Environment & Climate	Environment & Resources	Material consumption	Material consumption
OECD	Environment & Climate	Environment & Taxation	Environmental tax	Environmental tax

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
OECD	Environment & Climate	Environment & Waste	Municipal waste	Municipal waste
OECD	Environment & Climate	Environment & Water	Wastewater treatment	Wastewater treatment
OECD	Environment & Climate	Environment & Water	Water withdrawals	Water withdrawals
FADN	Environment & Climate	Environmental Policy	Environmental subsidies	FADN PUBLIC DATABASE SO
FAOSTAT	Food, Consumption & Welfare	Cost and Affordability of a Healthy Diet	Cost and Affordability of a Healthy Diet (CoAHD)	https://www.fao.org/faostat/en/#data/CAHD
WorldBank	Governance & International Cooperation	Aid Effectiveness	Grants, excluding technical cooperation (BoP, current US$)	Grants, excluding technical cooperation (BoP, current US$)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Incidence of tuberculosis (per 100,000 people)	Incidence of tuberculosis (per 100,000 people)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Income share held by lowest 20%	Income share held by lowest 20%
WorldBank	Governance & International Cooperation	Aid Effectiveness	Maternal mortality ratio (modeled estimate, per 100,000 live births)	Maternal mortality ratio (modeled estimate, per 100,000 live births)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Mortality rate, under-5 (per 1,000 live births)	Mortality rate, under-5 (per 1,000 live births)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Net migration	Net migration
WorldBank	Governance & International Cooperation	Aid Effectiveness	Net ODA received (% of central government expense)	Net ODA received (% of central government expense)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Net ODA received (% of GNI)	Net ODA received (% of GNI)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Net ODA received (% of gross capital formation)	Net ODA received (% of gross capital formation)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Net ODA received (% of imports of goods, services and primary income)	Net ODA received (% of imports of goods, services and primary income)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Net ODA received per capita (current US$)	Net ODA received per capita (current US$)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Net official development assistance received (current US$)	Net official development assistance received (current US$)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Poverty headcount ratio at $2.15 a day (2017 PPP) (% of population)	Poverty headcount ratio at $2.15 a day (2017 PPP) (% of population)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Pregnant women receiving prenatal care (%)	Pregnant women receiving prenatal care (%)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Prevalence of HIV, total (% of population ages 15-49)	Prevalence of HIV, total (% of population ages 15-49)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Prevalence of stunting, height for age (% of children under 5)	Prevalence of stunting, height for age (% of children under 5)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Primary completion rate, total (% of relevant age group)	Primary completion rate, total (% of relevant age group)
WorldBank	Governance & International Cooperation	Aid Effectiveness	School enrollment, primary and secondary (gross), gender parity index (GPI)	School enrollment, primary and secondary (gross), gender parity index (GPI)
WorldBank	Governance & International Cooperation	Aid Effectiveness	Technical cooperation grants (BoP, current US$)	Technical cooperation grants (BoP, current US$)
OECD	Governance & International Cooperation	Governance	Trust in government	Trust in government
EUROSTAT	Governance & International Cooperation	International Cooperation	Co-operation with European Neighbourhood Policy countries	Co-operation with European Neighbourhood Policy countries
EUROSTAT	Governance & International Cooperation	International Cooperation	Enlargement countries	Enlargement countries
EUROSTAT	Governance & International Cooperation	International Cooperation	European neighbourhood policy countries	European neighbourhood policy countries
EUROSTAT	Governance & International Cooperation	International Cooperation	International statistical cooperation	International statistical cooperation
EUROSTAT	Governance & International Cooperation	International Cooperation	Non-EU countries	Non-EU countries
EUROSTAT	Governance & International Cooperation	International Cooperation	Ukraine	Ukraine

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
OECD	Governance & International Cooperation	International Development	Country Programmable Aid (CPA)	Country Programmable Aid (CPA)
OECD	Governance & International Cooperation	International Development	Distribution of net ODA	Distribution of net ODA
OECD	Governance & International Cooperation	International Development	Food aid	Food aid
OECD	Governance & International Cooperation	International Development	Grants by private agencies and NGOs	Grants by private agencies and NGOs
OECD	Governance & International Cooperation	International Development	Net ODA	Net ODA
OECD	Governance & International Cooperation	International Development	ODA by sector	ODA by sector
OECD	Governance & International Cooperation	International Development	Other official flows (OOF)	Other official flows (OOF)
OECD	Governance & International Cooperation	International Development	Private flows	Private flows
OECD	Governance & International Cooperation	International Development	Total official and private flows	Total official and private flows
EUROSTAT	Infrastructure & Urban Systems	Construction & Housing	Construction, short term indicators	Construction, short term indicators
EUROSTAT	Infrastructure & Urban Systems	Construction & Housing	Construction, structural indicators	Construction, structural indicators
EUROSTAT	Infrastructure & Urban Systems	Geography & GIS	GISCO: geographical information and maps	GISCO: geographical information and maps
EUROSTAT	Infrastructure & Urban Systems	Geography & GIS	Maps	Maps
OECD	Infrastructure & Urban Systems	Geography & Land Use	National area distribution	National area distribution
EUROSTAT	Infrastructure & Urban Systems	Housing & Living Conditions	Housing conditions	Housing conditions
OECD	Infrastructure & Urban Systems	Housing & Living Conditions	Housing overcrowding	Housing overcrowding
EUROSTAT	Infrastructure & Urban Systems	Housing & Real Estate	House price statistics	House price statistics
OECD	Infrastructure & Urban Systems	Housing & Real Estate	Housing prices	Housing prices
WorldBank	Infrastructure & Urban Systems	Infrastructure	Air transport, registered carrier departures worldwide	Air transport, registered carrier departures worldwide
WorldBank	Infrastructure & Urban Systems	Infrastructure	Annual freshwater withdrawals, total (% of internal resources)	Annual freshwater withdrawals, total (% of internal resources)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Annual freshwater withdrawals, total (billion cubic meters)	Annual freshwater withdrawals, total (billion cubic meters)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Container port traffic (TEU: 20 foot equivalent units)	Container port traffic (TEU: 20 foot equivalent units)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Electric power consumption (kWh per capita)	Electric power consumption (kWh per capita)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Fixed broadband subscriptions (per 100 people)	Fixed broadband subscriptions (per 100 people)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Fixed telephone subscriptions (per 100 people)	Fixed telephone subscriptions (per 100 people)
OECD	Infrastructure & Urban Systems	Infrastructure	Infrastructure investment	Infrastructure investment
OECD	Infrastructure & Urban Systems	Infrastructure	Infrastructure maintenance	Infrastructure maintenance
WorldBank	Infrastructure & Urban Systems	Infrastructure	Investment in energy with private participation (current US$)	Investment in energy with private participation (current US$)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Investment in transport with private participation (current US$)	Investment in transport with private participation (current US$)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Investment in water and sanitation with private participation (current US$)	Investment in water and sanitation with private participation (current US$)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Infrastructure & Urban Systems	Infrastructure	Mobile cellular subscriptions (per 100 people)	Mobile cellular subscriptions (per 100 people)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Public private partnerships investment in ICT (current US$)	Public private partnerships investment in ICT (current US$)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Rail lines (total route-km)	Rail lines (total route-km)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Renewable internal freshwater resources per capita (cubic meters)	Renewable internal freshwater resources per capita (cubic meters)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Renewable internal freshwater resources, total (billion cubic meters)	Renewable internal freshwater resources, total (billion cubic meters)
WorldBank	Infrastructure & Urban Systems	Infrastructure	Secure Internet servers (per 1 million people)	Secure Internet servers (per 1 million people)
EUROSTAT	Infrastructure & Urban Systems	Infrastructure & Transport	Infrastructure (roads, ports, airports, tracks…)	Infrastructure (roads, ports, airports, tracks…)
EUROSTAT	Infrastructure & Urban Systems	Regions & Urbanisation	Cities	Cities
EUROSTAT	Infrastructure & Urban Systems	Regions & Urbanisation	Degree of urbanisation	Degree of urbanisation
EUROSTAT	Infrastructure & Urban Systems	Regions & Urbanisation	Urbanisation (Degree of urbanisation)	Urbanisation (Degree of urbanisation)
UN	Infrastructure & Urban Systems	Reproductive Health	World Contraceptive Use	UNdata | explorer
FADN	Infrastructure & Urban Systems	Rural Development	LFA subsidies	FADN PUBLIC DATABASE SO
FADN	Infrastructure & Urban Systems	Rural Development	Other rural development payments	FADN PUBLIC DATABASE SO
FADN	Infrastructure & Urban Systems	Rural Development	Total support for rural development	FADN PUBLIC DATABASE SO
EUROSTAT	Infrastructure & Urban Systems	Transport	Aviation (air transport)	Aviation (air transport)
EUROSTAT	Infrastructure & Urban Systems	Transport	Cars (road transport statistics)	Cars (road transport statistics)
OECD	Infrastructure & Urban Systems	Transport	Container transport	Container transport
EUROSTAT	Infrastructure & Urban Systems	Transport	Freight (transport of goods, commodities)	Freight (transport of goods, commodities)
OECD	Infrastructure & Urban Systems	Transport	Freight transport	Freight transport
EUROSTAT	Infrastructure & Urban Systems	Transport	Inland waterways (folder: Inland waterways transport)	Inland waterways (folder: Inland waterways transport)
EUROSTAT	Infrastructure & Urban Systems	Transport	Maritime transport (sea)	Maritime transport (sea)
EUROSTAT	Infrastructure & Urban Systems	Transport	Means (vehicles, trailers, containers)	Means (vehicles, trailers, containers)
OECD	Infrastructure & Urban Systems	Transport	Passenger car registrations	Passenger car registrations
EUROSTAT	Infrastructure & Urban Systems	Transport	Passengers (transport)	Passengers (transport)
EUROSTAT	Infrastructure & Urban Systems	Transport	Pipelines (folder: oil pipeline transport)	Pipelines (folder: oil pipeline transport)
EUROSTAT	Infrastructure & Urban Systems	Transport	Rail transport	Rail transport
EUROSTAT	Infrastructure & Urban Systems	Transport	Road transport	Road transport
EUROSTAT	Infrastructure & Urban Systems	Transport	Transport	Transport
EUROSTAT	Infrastructure & Urban Systems	Transport Safety	Rail accidents (folder: multimodal data / transport safety)	Rail accidents (folder: multimodal data / transport safety)
OECD	Infrastructure & Urban Systems	Transport Safety	Road accidents	Road accidents

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
EUROSTAT	Infrastructure & Urban Systems	Transport Safety	Road accidents (folder: multimodal data / transport safety)	Road accidents (folder: multimodal data / transport safety)
WorldBank	Infrastructure & Urban Systems	Urban Development	Mortality caused by road traffic injury (per 100,000 population)	Mortality caused by road traffic injury (per 100,000 population)
WorldBank	Infrastructure & Urban Systems	Urban Development	PM2.5 air pollution, mean annual exposure (micrograms per cubic meter)	PM2.5 air pollution, mean annual exposure (micrograms per cubic meter)
WorldBank	Infrastructure & Urban Systems	Urban Development	PM2.5 air pollution, population exposed to levels exceeding WHO guideline value (% of total)	PM2.5 air pollution, population exposed to levels exceeding WHO guideline value (% of total)
WorldBank	Infrastructure & Urban Systems	Urban Development	Population density (people per sq. km of land area)	Population density (people per sq. km of land area)
WorldBank	Infrastructure & Urban Systems	Urban Development	Population in the largest city (% of urban population)	Population in the largest city (% of urban population)
WorldBank	Infrastructure & Urban Systems	Urban Development	Population in urban agglomerations of more than 1 million (% of total population)	Population in urban agglomerations of more than 1 million (% of total population)
WorldBank	Infrastructure & Urban Systems	Urban Development	Population living in slums (% of urban population)	Population living in slums (% of urban population)
WorldBank	Infrastructure & Urban Systems	Urban Development	Urban population	Urban population
WorldBank	Infrastructure & Urban Systems	Urban Development	Urban population (% of total population)	Urban population (% of total population)
OECD	Infrastructure & Urban Systems	Urbanisation & Demography	Urban population by city size	Urban population by city size
UN	Population, Health & Society	Children & Social Welfare	The State of the World's Children	UNdata | explorer
EUROSTAT	Population, Health & Society	Crime & Justice	Crime and criminal justice	Crime and criminal justice
EUROSTAT	Population, Health & Society	Crime & Justice	Gender-based violence	Gender-based violence
UN	Population, Health & Society	Crime & Justice	Homicide Statistics	UNdata | explorer
EUROSTAT	Population, Health & Society	Crime & Justice	Violence (gender-based)	Violence (gender-based)
EUROSTAT	Population, Health & Society	Culture & Leisure	Culture	Culture
EUROSTAT	Population, Health & Society	Culture & Leisure	Sport	Sport
OECD	Population, Health & Society	Equality & Education	Women teachers	Women teachers
OECD	Population, Health & Society	Equality & Gender	Social Institutions and Gender	Social Institutions and Gender
OECD	Population, Health & Society	Equality & Governance	Women in politics	Women in politics
OECD	Population, Health & Society	Equality & Inclusion	Discrimination in the family	Discrimination in the family
EUROSTAT	Population, Health & Society	Equality & Inclusion	Equality	Equality
EUROSTAT	Population, Health & Society	Equality & Inclusion	Gender equality	Gender equality
EUROSTAT	Population, Health & Society	Equality & Inclusion	Gender pay gap	Gender pay gap
OECD	Population, Health & Society	Equality & Income	Income inequality	Income inequality
OECD	Population, Health & Society	Equality & Innovation	Women inventors	Women inventors
OECD	Population, Health & Society	Equality & Labour Market	Gender wage gap	Gender wage gap
OECD	Population, Health & Society	Equality & Safety	Violence against women	Violence against women
UN	Population, Health & Society	Family & Demography	World Marriage Data	UNdata | explorer
OECD	Population, Health & Society	Family & Social Policy	Net childcare costs	Net childcare costs
UN	Population, Health & Society	Fertility & Population	World Fertility Data	UNdata | explorer
WorldBank	Population, Health & Society	Gender	Adolescent fertility rate (births per 1,000 women ages 15-19)	Adolescent fertility rate (births per 1,000 women ages 15-19)
WorldBank	Population, Health & Society	Gender	Births attended by skilled health staff (% of total)	Births attended by skilled health staff (% of total)
WorldBank	Population, Health & Society	Gender	Children in employment, female (% of female children ages 7-14)	Children in employment, female (% of female children ages 7-14)
WorldBank	Population, Health & Society	Gender	Children in employment, male (% of male children ages 7-14)	Children in employment, male (% of male children ages 7-14)
WorldBank	Population, Health & Society	Gender	Children out of school, primary, female	Children out of school, primary, female
WorldBank	Population, Health & Society	Gender	Children out of school, primary, male	Children out of school, primary, male

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Population, Health & Society	Gender	Contraceptive prevalence, any method (% of married women ages 15-49)	Contraceptive prevalence, any method (% of married women ages 15-49)
WorldBank	Population, Health & Society	Gender	Contributing family workers, female (% of female employment) (modeled ILO estimate)	Contributing family workers, female (% of female employment) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Contributing family workers, male (% of male employment) (modeled ILO estimate)	Contributing family workers, male (% of male employment) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Employment in agriculture, female (% of female employment) (modeled ILO estimate)	Employment in agriculture, female (% of female employment) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Employment in agriculture, male (% of male employment) (modeled ILO estimate)	Employment in agriculture, male (% of male employment) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Employment in industry, female (% of female employment) (modeled ILO estimate)	Employment in industry, female (% of female employment) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Employment in industry, male (% of male employment) (modeled ILO estimate)	Employment in industry, male (% of male employment) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Employment in services, female (% of female employment) (modeled ILO estimate)	Employment in services, female (% of female employment) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Employment in services, male (% of male employment) (modeled ILO estimate)	Employment in services, male (% of male employment) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Fertility rate, total (births per woman)	Fertility rate, total (births per woman)
WorldBank	Population, Health & Society	Gender	Firms with female participation in ownership (% of firms)	Firms with female participation in ownership (% of firms)
WorldBank	Population, Health & Society	Gender	Firms with female top manager (% of firms)	Firms with female top manager (% of firms)
WorldBank	Population, Health & Society	Gender	Gross intake ratio in first grade of primary education, female (% of relevant age group)	Gross intake ratio in first grade of primary education, female (% of relevant age group)
WorldBank	Population, Health & Society	Gender	Gross intake ratio in first grade of primary education, male (% of relevant age group)	Gross intake ratio in first grade of primary education, male (% of relevant age group)
WorldBank	Population, Health & Society	Gender	Labor force participation rate, female (% of female population ages 15+) (modeled ILO estimate)	Labor force participation rate, female (% of female population ages 15+) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Labor force participation rate, male (% of male population ages 15+) (modeled ILO estimate)	Labor force participation rate, male (% of male population ages 15+) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Labor force, female (% of total labor force)	Labor force, female (% of total labor force)
WorldBank	Population, Health & Society	Gender	Life expectancy at birth, female (years)	Life expectancy at birth, female (years)
WorldBank	Population, Health & Society	Gender	Life expectancy at birth, male (years)	Life expectancy at birth, male (years)
WorldBank	Population, Health & Society	Gender	Literacy rate, adult female (% of females ages 15 and above)	Literacy rate, adult female (% of females ages 15 and above)
WorldBank	Population, Health & Society	Gender	Literacy rate, adult male (% of males ages 15 and above)	Literacy rate, adult male (% of males ages 15 and above)
WorldBank	Population, Health & Society	Gender	Literacy rate, youth female (% of females ages 15-24)	Literacy rate, youth female (% of females ages 15-24)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Population, Health & Society	Gender	Literacy rate, youth male (% of males ages 15-24)	Literacy rate, youth male (% of males ages 15-24)
WorldBank	Population, Health & Society	Gender	Maternal mortality ratio (modeled estimate, per 100,000 live births)	Maternal mortality ratio (modeled estimate, per 100,000 live births)
WorldBank	Population, Health & Society	Gender	Persistence to last grade of primary, female (% of cohort)	Persistence to last grade of primary, female (% of cohort)
WorldBank	Population, Health & Society	Gender	Persistence to last grade of primary, male (% of cohort)	Persistence to last grade of primary, male (% of cohort)
WorldBank	Population, Health & Society	Gender	Pregnant women receiving prenatal care (%)	Pregnant women receiving prenatal care (%)
WorldBank	Population, Health & Society	Gender	Prevalence of HIV, female (% ages 15-24)	Prevalence of HIV, female (% ages 15-24)
WorldBank	Population, Health & Society	Gender	Prevalence of HIV, male (% ages 15-24)	Prevalence of HIV, male (% ages 15-24)
WorldBank	Population, Health & Society	Gender	Primary completion rate, female (% of relevant age group)	Primary completion rate, female (% of relevant age group)
WorldBank	Population, Health & Society	Gender	Primary completion rate, male (% of relevant age group)	Primary completion rate, male (% of relevant age group)
WorldBank	Population, Health & Society	Gender	Progression to secondary school, female (%)	Progression to secondary school, female (%)
WorldBank	Population, Health & Society	Gender	Progression to secondary school, male (%)	Progression to secondary school, male (%)
WorldBank	Population, Health & Society	Gender	Proportion of seats held by women in national parliaments (%)	Proportion of seats held by women in national parliaments (%)
WorldBank	Population, Health & Society	Gender	Proportion of time spent on unpaid domestic and care work, female (% of 24 hour day)	Proportion of time spent on unpaid domestic and care work, female (% of 24 hour day)
WorldBank	Population, Health & Society	Gender	Proportion of time spent on unpaid domestic and care work, male (% of 24 hour day)	Proportion of time spent on unpaid domestic and care work, male (% of 24 hour day)
WorldBank	Population, Health & Society	Gender	Repeaters, primary, female (% of female enrollment)	Repeaters, primary, female (% of female enrollment)
WorldBank	Population, Health & Society	Gender	Repeaters, primary, male (% of male enrollment)	Repeaters, primary, male (% of male enrollment)
WorldBank	Population, Health & Society	Gender	School enrollment, primary (gross), gender parity index (GPI)	School enrollment, primary (gross), gender parity index (GPI)
WorldBank	Population, Health & Society	Gender	School enrollment, primary and secondary (gross), gender parity index (GPI)	School enrollment, primary and secondary (gross), gender parity index (GPI)
WorldBank	Population, Health & Society	Gender	Teenage mothers (% of women ages 15-19 who have had children or are currently pregnant)	Teenage mothers (% of women ages 15-19 who have had children or are currently pregnant)
WorldBank	Population, Health & Society	Gender	Unemployment, female (% of female labor force)(modeled ILO estimate)	Unemployment, female (% of female labor force)(modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Unemployment, male (% of male labor force)(modeled ILO estimate)	Unemployment, male (% of male labor force)(modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Unemployment, youth female (% of female labor force ages 15-24)(modeled ILO estimate)	Unemployment, youth female (% of female labor force ages 15-24)(modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Unemployment, youth male (% of male labor force ages 15-24) (modeled ILO estimate)	Unemployment, youth male (% of male labor force ages 15-24) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Vulnerable employment, female (% of female employment)(modeled ILO estimate)	Vulnerable employment, female (% of female employment)(modeled ILO estimate)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Population, Health & Society	Gender	Vulnerable employment, male (% of male employment) (modeled ILO estimate)	Vulnerable employment, male (% of male employment) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Wage and salaried workers, female (% of female employment) (modeled ILO estimate)	Wage and salaried workers, female (% of female employment) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Wage and salaried workers, male (% of male employment) (modeled ILO estimate)	Wage and salaried workers, male (% of male employment) (modeled ILO estimate)
WorldBank	Population, Health & Society	Gender	Women making their own informed decisions regarding sexual relations, contraceptive use and reproductive health care (% of women age 15-49)	Women making their own informed decisions regarding sexual relations, contraceptive use and reproductive health care (% of women age 15-49)
UN	Population, Health & Society	Gender Equality	Gender Info	UNdata | explorer
UN	Population, Health & Society	Gender Equality	Indicators on Women and Men	UNdata | explorer
WorldBank	Population, Health & Society	Health	Adolescent fertility rate (births per 1,000 women ages 15-19)	Adolescent fertility rate (births per 1,000 women ages 15-19)
WorldBank	Population, Health & Society	Health	Age dependency ratio (% of working-age population)	Age dependency ratio (% of working-age population)
OECD	Population, Health & Society	Health	Alcohol consumption	Alcohol consumption
WorldBank	Population, Health & Society	Health	Birth rate, crude (per 1,000 people)	Birth rate, crude (per 1,000 people)
WorldBank	Population, Health & Society	Health	Births attended by skilled health staff (% of total)	Births attended by skilled health staff (% of total)
OECD	Population, Health & Society	Health	Caesarean sections	Caesarean sections
WorldBank	Population, Health & Society	Health	Cause of death, by communicable diseases and maternal, prenatal and nutrition conditions (% of total)	Cause of death, by communicable diseases and maternal, prenatal and nutrition conditions (% of total)
WorldBank	Population, Health & Society	Health	Cause of death, by injury (% of total)	Cause of death, by injury (% of total)
WorldBank	Population, Health & Society	Health	Cause of death, by non-communicable diseases (% of total)	Cause of death, by non-communicable diseases (% of total)
EUROSTAT	Population, Health & Society	Health	Causes of death	Causes of death
OECD	Population, Health & Society	Health	Child vaccination rates	Child vaccination rates
WorldBank	Population, Health & Society	Health	Completeness of birth registration (%)	Completeness of birth registration (%)
WorldBank	Population, Health & Society	Health	Completeness of death registration with cause-of-death information (%)	Completeness of death registration with cause-of-death information (%)
OECD	Population, Health & Society	Health	Computed tomography (CT) exams	Computed tomography (CT) exams
WorldBank	Population, Health & Society	Health	Contraceptive prevalence, any method (% of married women ages 15-49)	Contraceptive prevalence, any method (% of married women ages 15-49)
OECD	Population, Health & Society	Health	Daily smokers	Daily smokers
WorldBank	Population, Health & Society	Health	Death rate, crude (per 1,000 people)	Death rate, crude (per 1,000 people)
WorldBank	Population, Health & Society	Health	Diabetes prevalence (% of population ages 20 to 79)	Diabetes prevalence (% of population ages 20 to 79)
OECD	Population, Health & Society	Health	Doctors' consultations	Doctors' consultations
WorldBank	Population, Health & Society	Health	Fertility rate, total (births per woman)	Fertility rate, total (births per woman)
EUROSTAT	Population, Health & Society	Health	Health (including health and safety at work)	Health (including health and safety at work)
EUROSTAT	Population, Health & Society	Health	Health care	Health care
EUROSTAT	Population, Health & Society	Health	Health care expenditure	Health care expenditure
EUROSTAT	Population, Health & Society	Health	Healthy life years	Healthy life years
WorldBank	Population, Health & Society	Health	Hospital beds (per 1,000 people)	Hospital beds (per 1,000 people)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
OECD	Population, Health & Society	Health	Hospital discharge rates	Hospital discharge rates
WorldBank	Population, Health & Society	Health	Immunization, DPT (% of children ages 12-23 months)	Immunization, DPT (% of children ages 12-23 months)
WorldBank	Population, Health & Society	Health	Immunization, measles (% of children ages 12-23 months)	Immunization, measles (% of children ages 12-23 months)
WorldBank	Population, Health & Society	Health	Incidence of tuberculosis (per 100,000 people)	Incidence of tuberculosis (per 100,000 people)
OECD	Population, Health & Society	Health	Influenza vaccination rates	Influenza vaccination rates
WorldBank	Population, Health & Society	Health	International migrant stock, total	International migrant stock, total
OECD	Population, Health & Society	Health	Length of hospital stay	Length of hospital stay
EUROSTAT	Population, Health & Society	Health	Life expectancy	Life expectancy
OECD	Population, Health & Society	Health	Life expectancy at 65	Life expectancy at 65
OECD	Population, Health & Society	Health	Life expectancy at birth	Life expectancy at birth
WorldBank	Population, Health & Society	Health	Life expectancy at birth, female (years)	Life expectancy at birth, female (years)
WorldBank	Population, Health & Society	Health	Life expectancy at birth, male (years)	Life expectancy at birth, male (years)
WorldBank	Population, Health & Society	Health	Life expectancy at birth, total (years)	Life expectancy at birth, total (years)
OECD	Population, Health & Society	Health	Magnetic resonance imaging (MRI) exams	Magnetic resonance imaging (MRI) exams
WorldBank	Population, Health & Society	Health	Maternal mortality ratio (modeled estimate, per 100,000 live births)	Maternal mortality ratio (modeled estimate, per 100,000 live births)
WorldBank	Population, Health & Society	Health	Mortality caused by road traffic injury (per 100,000 population)	Mortality caused by road traffic injury (per 100,000 population)
WorldBank	Population, Health & Society	Health	Mortality rate, infant (per 1,000 live births)	Mortality rate, infant (per 1,000 live births)
WorldBank	Population, Health & Society	Health	Mortality rate, neonatal (per 1,000 live births)	Mortality rate, neonatal (per 1,000 live births)
WorldBank	Population, Health & Society	Health	Mortality rate, under-5 (per 1,000 live births)	Mortality rate, under-5 (per 1,000 live births)
WorldBank	Population, Health & Society	Health	Net migration	Net migration
WorldBank	Population, Health & Society	Health	Number of surgical procedures (per 100,000 population)	Number of surgical procedures (per 100,000 population)
OECD	Population, Health & Society	Health	Overweight or obese population	Overweight or obese population
WorldBank	Population, Health & Society	Health	Population ages 0-14 (% of total population)	Population ages 0-14 (% of total population)
WorldBank	Population, Health & Society	Health	Population ages 15-64 (% of total population)	Population ages 15-64 (% of total population)
WorldBank	Population, Health & Society	Health	Population ages 65 and above (% of total population)	Population ages 65 and above (% of total population)
WorldBank	Population, Health & Society	Health	Population growth (annual %)	Population growth (annual %)
WorldBank	Population, Health & Society	Health	Population, female (% of total population)	Population, female (% of total population)
WorldBank	Population, Health & Society	Health	Population, total	Population, total
WorldBank	Population, Health & Society	Health	Pregnant women receiving prenatal care (%)	Pregnant women receiving prenatal care (%)
WorldBank	Population, Health & Society	Health	Prevalence of anemia among children (% of children ages 6-59 months)	Prevalence of anemia among children (% of children ages 6-59 months)
WorldBank	Population, Health & Society	Health	Prevalence of HIV, female (% ages 15-24)	Prevalence of HIV, female (% ages 15-24)
WorldBank	Population, Health & Society	Health	Prevalence of HIV, male (% ages 15-24)	Prevalence of HIV, male (% ages 15-24)
WorldBank	Population, Health & Society	Health	Prevalence of HIV, total (% of population ages 15-49)	Prevalence of HIV, total (% of population ages 15-49)
WorldBank	Population, Health & Society	Health	Prevalence of overweight, weight for height (% of children under 5)	Prevalence of overweight, weight for height (% of children under 5)

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
WorldBank	Population, Health & Society	Health	Prevalence of severe wasting, weight for height (% of children under 5)	Prevalence of severe wasting, weight for height (% of children under 5)
WorldBank	Population, Health & Society	Health	Prevalence of stunting, height for age (% of children under 5)	Prevalence of stunting, height for age (% of children under 5)
WorldBank	Population, Health & Society	Health	Prevalence of undernourishment (% of population)	Prevalence of undernourishment (% of population)
WorldBank	Population, Health & Society	Health	Prevalence of underweight, weight for age (% of children under 5)	Prevalence of underweight, weight for age (% of children under 5)
WorldBank	Population, Health & Society	Health	Prevalence of wasting, weight for height (% of children under 5)	Prevalence of wasting, weight for height (% of children under 5)
EUROSTAT	Population, Health & Society	Health	Public health	Public health
WorldBank	Population, Health & Society	Health	Refugee population by country or territory of asylum	Refugee population by country or territory of asylum
WorldBank	Population, Health & Society	Health	Refugee population by country or territory of origin	Refugee population by country or territory of origin
WorldBank	Population, Health & Society	Health	Risk of catastrophic expenditure for surgical care (% of people at risk)	Risk of catastrophic expenditure for surgical care (% of people at risk)
WorldBank	Population, Health & Society	Health	Risk of impoverishing expenditure for surgical care (% of people at risk)	Risk of impoverishing expenditure for surgical care (% of people at risk)
WorldBank	Population, Health & Society	Health	Specialist surgical workforce (per 100,000 population)	Specialist surgical workforce (per 100,000 population)
WorldBank	Population, Health & Society	Health	Teenage mothers (% of women ages 15-19 who have had children or are currently pregnant)	Teenage mothers (% of women ages 15-19 who have had children or are currently pregnant)
WorldBank	Population, Health & Society	Health	Unmet need for contraception (% of married women ages 15-49)	Unmet need for contraception (% of married women ages 15-49)
EUROSTAT	Population, Health & Society	Health & Mortality	Death	Death
OECD	Population, Health & Society	Health & Mortality	Deaths from cancer	Deaths from cancer
EUROSTAT	Population, Health & Society	Health & Mortality	Infant mortality	Infant mortality
OECD	Population, Health & Society	Health & Mortality	Infant mortality rates	Infant mortality rates
EUROSTAT	Population, Health & Society	Health & Mortality	Mortality	Mortality
OECD	Population, Health & Society	Health & Mortality	Potential years of life lost	Potential years of life lost
OECD	Population, Health & Society	Health & Mortality	Suicide rates	Suicide rates
EUROSTAT	Population, Health & Society	Health & Safety	Accidents at work	Accidents at work
EUROSTAT	Population, Health & Society	Health & Safety	Health and safety at work	Health and safety at work
EUROSTAT	Population, Health & Society	Health & Safety	Occupational injuries	Occupational injuries
EUROSTAT	Population, Health & Society	Health & Safety	Work accidents	Work accidents
OECD	Population, Health & Society	Health Expenditure	Health spending	Health spending
OECD	Population, Health & Society	Health Expenditure	Pharmaceutical spending	Pharmaceutical spending
OECD	Population, Health & Society	Health Infrastructure	Computed tomography (CT) scanners	Computed tomography (CT) scanners
OECD	Population, Health & Society	Health Infrastructure	Hospital beds	Hospital beds
OECD	Population, Health & Society	Health Infrastructure	Magnetic resonance imaging (MRI) units	Magnetic resonance imaging (MRI) units
OECD	Population, Health & Society	Health Infrastructure	Mammography machines	Mammography machines
OECD	Population, Health & Society	Health Infrastructure	Radiotherapy equipment	Radiotherapy equipment
OECD	Population, Health & Society	Health Workforce	Doctors	Doctors
OECD	Population, Health & Society	Health Workforce	Nurses	Nurses
UN	Population, Health & Society	Human Development	Human Development Indices: A statistical update 2025	UNdata | explorer
EUROSTAT	Population, Health & Society	Labour Market	Employment and unemployment	Employment and unemployment
OECD	Population, Health & Society	Labour Market	Employment by activity	Employment by activity
OECD	Population, Health & Society	Labour Market	Employment by education level	Employment by education level
OECD	Population, Health & Society	Labour Market	Employment rate	Employment rate

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
OECD	Population, Health & Society	Labour Market	Employment rate by age group	Employment rate by age group
OECD	Population, Health & Society	Labour Market	Hours worked	Hours worked
EUROSTAT	Population, Health & Society	Labour Market	Households and employment	Households and employment
EUROSTAT	Population, Health & Society	Labour Market	Job vacancies	Job vacancies
OECD	Population, Health & Society	Labour Market	Labour force	Labour force
OECD	Population, Health & Society	Labour Market	Labour force participation rate	Labour force participation rate
EUROSTAT	Population, Health & Society	Labour Market	Labour force survey (LFS)	Labour force survey (LFS)
EUROSTAT	Population, Health & Society	Labour Market	Labour market (including LFS)	Labour market (including LFS)
EUROSTAT	Population, Health & Society	Labour Market	Labour productivity (folder: auxiliary indicators)	Labour productivity (folder: auxiliary indicators)
OECD	Population, Health & Society	Labour Market	Long-term unemployment rate	Long-term unemployment rate
OECD	Population, Health & Society	Labour Market	Native-born employment	Native-born employment
OECD	Population, Health & Society	Labour Market	Native-born participation rates	Native-born participation rates
OECD	Population, Health & Society	Labour Market	Native-born unemployment	Native-born unemployment
OECD	Population, Health & Society	Labour Market	Part-time employment rate	Part-time employment rate
OECD	Population, Health & Society	Labour Market	Self-employed with employees	Self-employed with employees
OECD	Population, Health & Society	Labour Market	Self-employed without employees	Self-employed without employees
OECD	Population, Health & Society	Labour Market	Self-employment by activity	Self-employment by activity
OECD	Population, Health & Society	Labour Market	Self-employment rate	Self-employment rate
EUROSTAT	Population, Health & Society	Labour Market	Temporary employment	Temporary employment
OECD	Population, Health & Society	Labour Market	Temporary employment	Temporary employment
EUROSTAT	Population, Health & Society	Labour Market	Unemployment	Unemployment
OECD	Population, Health & Society	Labour Market	Unemployment rate	Unemployment rate
OECD	Population, Health & Society	Labour Market	Unemployment rate by age group	Unemployment rate by age group
OECD	Population, Health & Society	Labour Market	Unemployment rates by education level	Unemployment rates by education level
EUROSTAT	Population, Health & Society	Labour Market	Unit labour cost (folder: auxiliary indicators)	Unit labour cost (folder: auxiliary indicators)
EUROSTAT	Population, Health & Society	Labour Market	Working time	Working time
OECD	Population, Health & Society	Labour Market & Earnings	Average annual wages	Average annual wages
EUROSTAT	Population, Health & Society	Labour Market & Earnings	Earnings	Earnings
OECD	Population, Health & Society	Labour Market & Earnings	Employee compensation by activity	Employee compensation by activity
EUROSTAT	Population, Health & Society	Labour Market & Earnings	Gross earnings	Gross earnings
OECD	Population, Health & Society	Labour Market & Earnings	Incidence of low and high pay	Incidence of low and high pay
OECD	Population, Health & Society	Labour Market & Earnings	Labour compensation per hour worked	Labour compensation per hour worked
EUROSTAT	Population, Health & Society	Labour Market & Earnings	Labour costs	Labour costs
EUROSTAT	Population, Health & Society	Labour Market & Earnings	Minimum wages (folder: Earnings)	Minimum wages (folder: Earnings)
EUROSTAT	Population, Health & Society	Labour Market & Earnings	Net earnings	Net earnings
EUROSTAT	Population, Health & Society	Labour Market & Earnings	Salaries	Salaries
EUROSTAT	Population, Health & Society	Labour Market & Earnings	Wages	Wages
OECD	Population, Health & Society	Labour Market & Education	Self-employed with tertiary education	Self-employed with tertiary education
UN	Population, Health & Society	Labour Market & Employment	Key Indicators of the Labour Market, 7th Edition	UNdata | explorer
UN	Population, Health & Society	Labour Market & Employment	LABORSTA	UNdata | explorer

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
OECD	Population, Health & Society	Labour Market & Productivity	Unit labour costs	Unit labour costs
OECD	Population, Health & Society	Labour Market & Social Policy	Financial disincentive to enter employment with childcare costs	Financial disincentive to enter employment with childcare costs
OECD	Population, Health & Society	Labour Market & Social Policy	Financial disincentive to increase working hours	Financial disincentive to increase working hours
OECD	Population, Health & Society	Labour Market & Social Policy	Financial disincentive to return to work	Financial disincentive to return to work
OECD	Population, Health & Society	Labour Market & Social Policy	Public spending on labour markets	Public spending on labour markets
EUROSTAT	Population, Health & Society	Living Conditions & Income	EU-SILC	EU-SILC
EUROSTAT	Population, Health & Society	Living Conditions & Income	Household budget surveys (HBS)	Household budget surveys (HBS)
EUROSTAT	Population, Health & Society	Living Conditions & Income	Income	Income
EUROSTAT	Population, Health & Society	Living Conditions & Income	Income and living conditions	Income and living conditions
EUROSTAT	Population, Health & Society	Living Conditions & Income	Living conditions (Income, Social Inclusion and Living Conditions)	Living conditions (Income, Social Inclusion and Living Conditions)
EUROSTAT	Population, Health & Society	Living Conditions & Income	SILC survey	SILC survey
EUROSTAT	Population, Health & Society	Living Conditions & Society	Child care (see folder: Living conditions)	Child care (see folder: Living conditions)
EUROSTAT	Population, Health & Society	Living Conditions & Society	Quality of life	Quality of life
EUROSTAT	Population, Health & Society	Living Conditions & Society	Time use, harmonised European time use surveys (HETUS)	Time use, harmonised European time use surveys (HETUS)
OECD	Population, Health & Society	Migration	Permanent immigrant inflows	Permanent immigrant inflows
EUROSTAT	Population, Health & Society	Migration & Asylum	Asylum	Asylum
EUROSTAT	Population, Health & Society	Migration & Asylum	Dublin statistics	Dublin statistics
EUROSTAT	Population, Health & Society	Migration & Asylum	Immigration	Immigration
EUROSTAT	Population, Health & Society	Migration & Asylum	Migration	Migration
EUROSTAT	Population, Health & Society	Migration & Asylum	Residence permits	Residence permits
OECD	Population, Health & Society	Migration & Demography	Foreign population	Foreign population
OECD	Population, Health & Society	Migration & Demography	Foreign-born population	Foreign-born population
OECD	Population, Health & Society	Migration & Demography	Stocks of foreign-born population in OECD countries	Stocks of foreign-born population in OECD countries
EUROSTAT	Population, Health & Society	Migration & Integration	Migrant integration	Migrant integration
EUROSTAT	Population, Health & Society	Migration & Integration	Migrant integration and inclusion dashboard	Migrant integration and inclusion dashboard
OECD	Population, Health & Society	Migration & Labour Market	Foreign-born employment	Foreign-born employment
OECD	Population, Health & Society	Migration & Labour Market	Foreign-born participation rates	Foreign-born participation rates
OECD	Population, Health & Society	Migration & Labour Market	Foreign-born unemployment	Foreign-born unemployment
UN	Population, Health & Society	Migration & Refugees	UNHCR Statistical Database	UNdata | explorer
OECD	Population, Health & Society	Pensions & Social Protection	Gross pension replacement rates	Gross pension replacement rates
OECD	Population, Health & Society	Pensions & Social Protection	Gross pension wealth	Gross pension wealth
OECD	Population, Health & Society	Pensions & Social Protection	Net pension replacement rates	Net pension replacement rates
OECD	Population, Health & Society	Pensions & Social Protection	Net pension wealth	Net pension wealth
OECD	Population, Health & Society	Pensions & Social Protection	Pension spending	Pension spending

Source	Level 0 – Trunk - Topic	Level 1 – Branch -Type	Level 2 - Leaf – Variable	Link
OECD	Population, Health & Society	Population & Ageing	Old-age dependency ratio	Old-age dependency ratio
EUROSTAT	Population, Health & Society	Population & Demography	Census	Census
EUROSTAT	Population, Health & Society	Population & Demography	Census hub	Census hub
EUROSTAT	Population, Health & Society	Population & Demography	Children	Children
UN	Population, Health & Society	Population & Demography	Demographic Statistics Database	UNdata | explorer
EUROSTAT	Population, Health & Society	Population & Demography	Demography	Demography
OECD	Population, Health & Society	Population & Demography	Elderly population	Elderly population
OECD	Population, Health & Society	Population & Demography	Fertility rates	Fertility rates
OECD	Population, Health & Society	Population & Demography	National population distribution	National population distribution
EUROSTAT	Population, Health & Society	Population & Demography	Population	Population
OECD	Population, Health & Society	Population & Demography	Population	Population

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