



Teaching Analysis Poll (TAP) in SQUARE: Insights into a Joint Practice and Research Project

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1. Theoretical Background and Research Questions

- Since 2016, the [Quality Development Services](#) (QD) and the [Centre for Learning and Teaching in Higher Education](#) at the [University of St. Gallen](#) (IWP) have been offering Teaching Analysis Polls (TAPs) to instructors on a voluntary basis.
- TAPs are a participatory, formative feedback method with which university instructors can obtain qualitative feedback on their courses *during* the semester. Insights regarding what helps or impedes their students' learning and any suggestions for improvement can be implemented directly in the same course (Hawelka & Hiltmann, 2018; Hurney et al., 2014)
- SQUARE was ceremonially opened in 2022. Designed by the Japanese architect Sou Fujimoto, the building is intended to be an experimental field for teaching and learning, which enables interaction between students, university faculty, business and industry professionals, and local residents (SQUARE, 2022)
- At the request of SQUARE, specialized TAPs were developed and conducted in the spring semester 2022 to gain insights into teaching and learning within SQUARE. Our main research questions were:
 - RQ1:** From the students' perspective – what aspects of the course and SQUARE support and impede the learning experience?
 - RQ2:** What suggestions do students have for improving teaching and learning in their course and in SQUARE?

Teaching Analysis Poll in a Nutshell

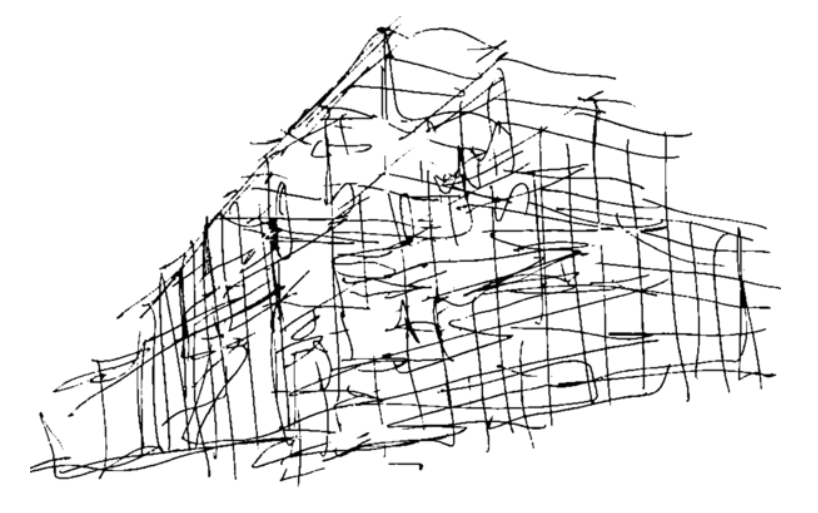
[Video](#) on the method by TUM ProLehre 

[Information on TAPs](#) – the offer and procedures at the University of St. Gallen 

Explore The SQUARE

[Video](#) report on the opening 

[Homepage](#) of SQUARE 



First sketch of SQUARE by Sou Fujimoto (SQUARE, 2022)

2. Methods

Sample and Procedure

- Sample: $N = 15$ TAP implementations
- 18 university instructors and 272 students involved

Data Collection

- TAPs (Hawelka & Hiltmann, 2018) ~ focus groups (Morgan, 2009) between members of the TAP Team and the students of a specific course
- Students documented their feedback via the web platform Padlet

Data Analysis

- Qualitative content analysis (Kuckartz, 2018) using the coding manual by Hawelka & Hiltmann (2018) and Hawelka (2019)



3. Insights into the Midterm TAPs of Spring Semester 2022

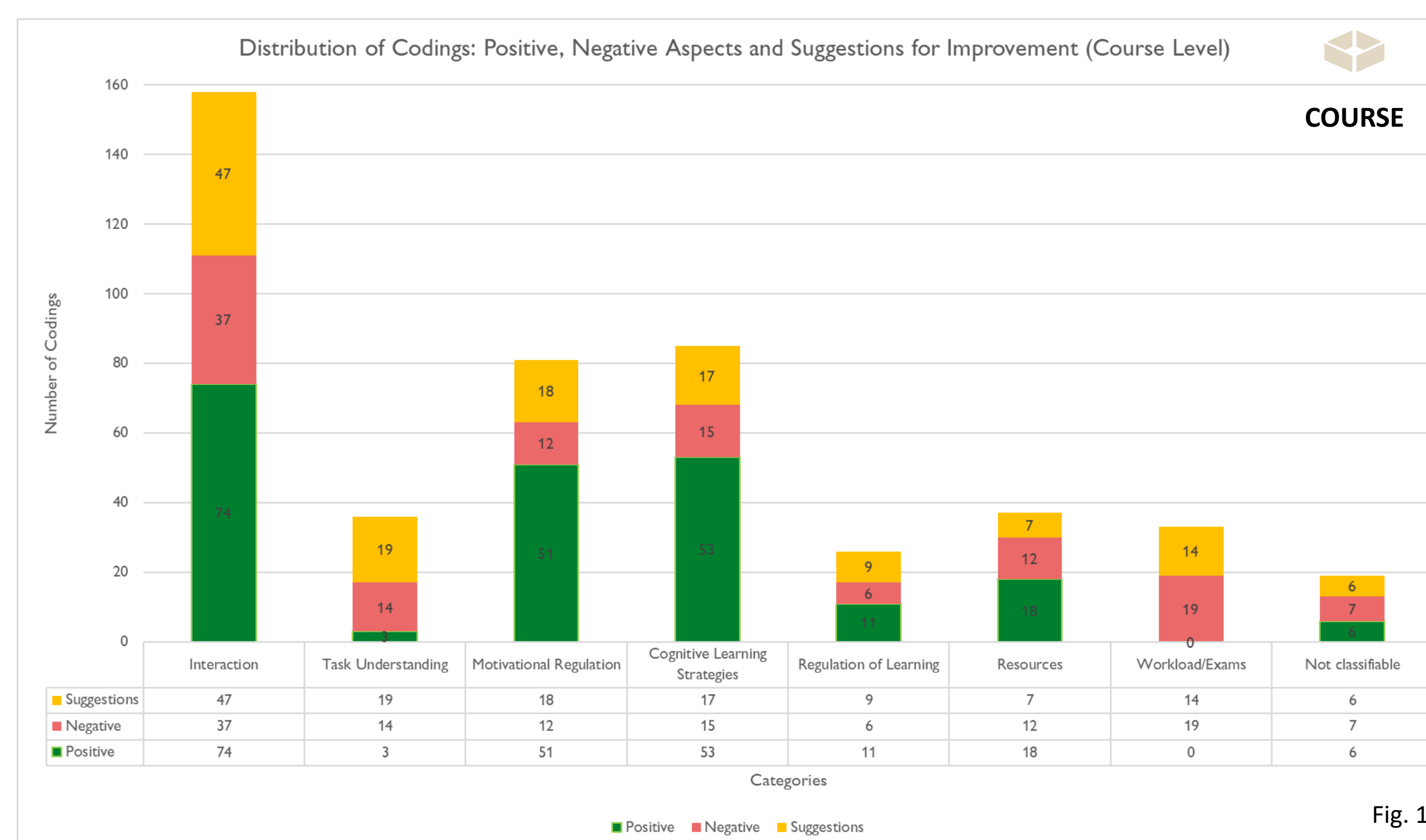


Fig. 1

Course Level Results (Fig. 1)

- Total codes: 475; 216 positive, 122 negative aspects, and 137 suggestions on course level
- Most supportive aspects: interaction (74 codes, e.g., open discussions), cognitive learning strategies (53, e.g., quizzes), and motivational regulation (51, e.g., instructor's enthusiasm)
- Most impeding aspects: lack of interaction (37, e.g., monologue), workload/exam (19, e.g., lack of transparency), and cognitive learning strategies (15, e.g., lack of structure)
- Suggestions: interaction (47, e.g., more discussion), task understanding (19, e.g., clearer instructions), motivational regulation (18, e.g., increased topic relevance)

4. Discussion

Key Findings

- Codes for SQUARE were overwhelmingly infrastructure-related (e.g., furniture) and affected learning
- Once SQUARE's infrastructure issues are addressed, students can focus (even) more on the proximal characteristics of the course and their learning

Limitations

- Small and selective sample of courses, instructors, and students
- Self-report

Strengths

- TAPs and research co-conducted by QD & IWP
- Participatory feedback method

SQUARE Level Results (Fig. 2)

- Total codes: 377; 126 positive, 157 negative aspects, and 94 suggestions) regarding SQUARE
- Most supportive aspects: atmosphere (43 codes, e.g., living room flair), furniture (23, e.g., flexible arrangement), and building design (23, e.g., light and open)
- Most impeding aspects: furniture (40, e.g., uncomfortable chairs, no tables), temperature & air quality (33, e.g., hot and stuffy), technical equipment (32, e.g., lack of plugs)
- Suggestions: food & drinks (24, e.g., more water dispensers), furniture (23, e.g., more tables), technical equipment (18, e.g., more plugs)

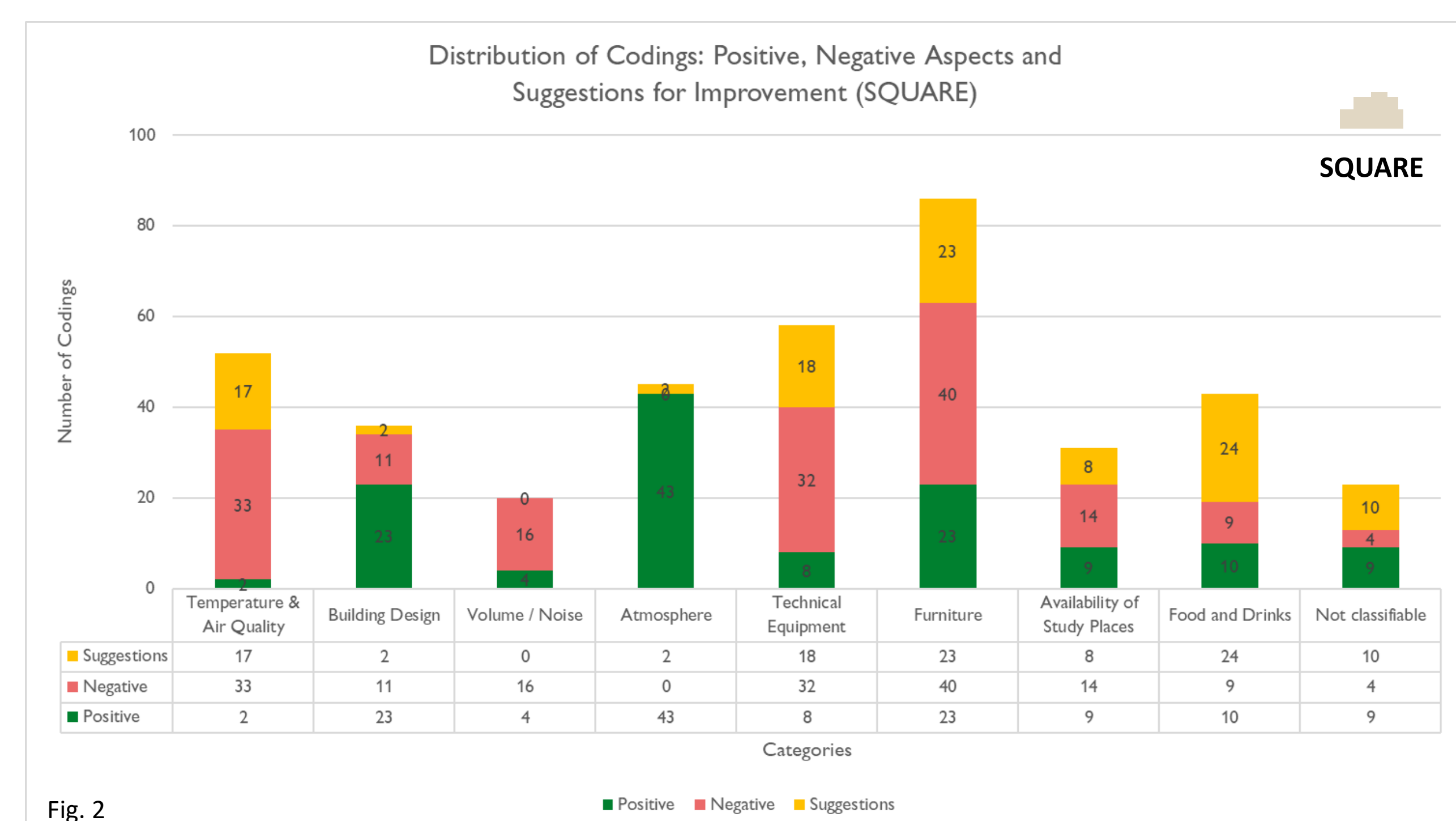


Fig. 2

TAP Team SS 22



5. References

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To be able to click on the links and see the videos, please check out the digital version of our poster.



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