

MOTIVATION

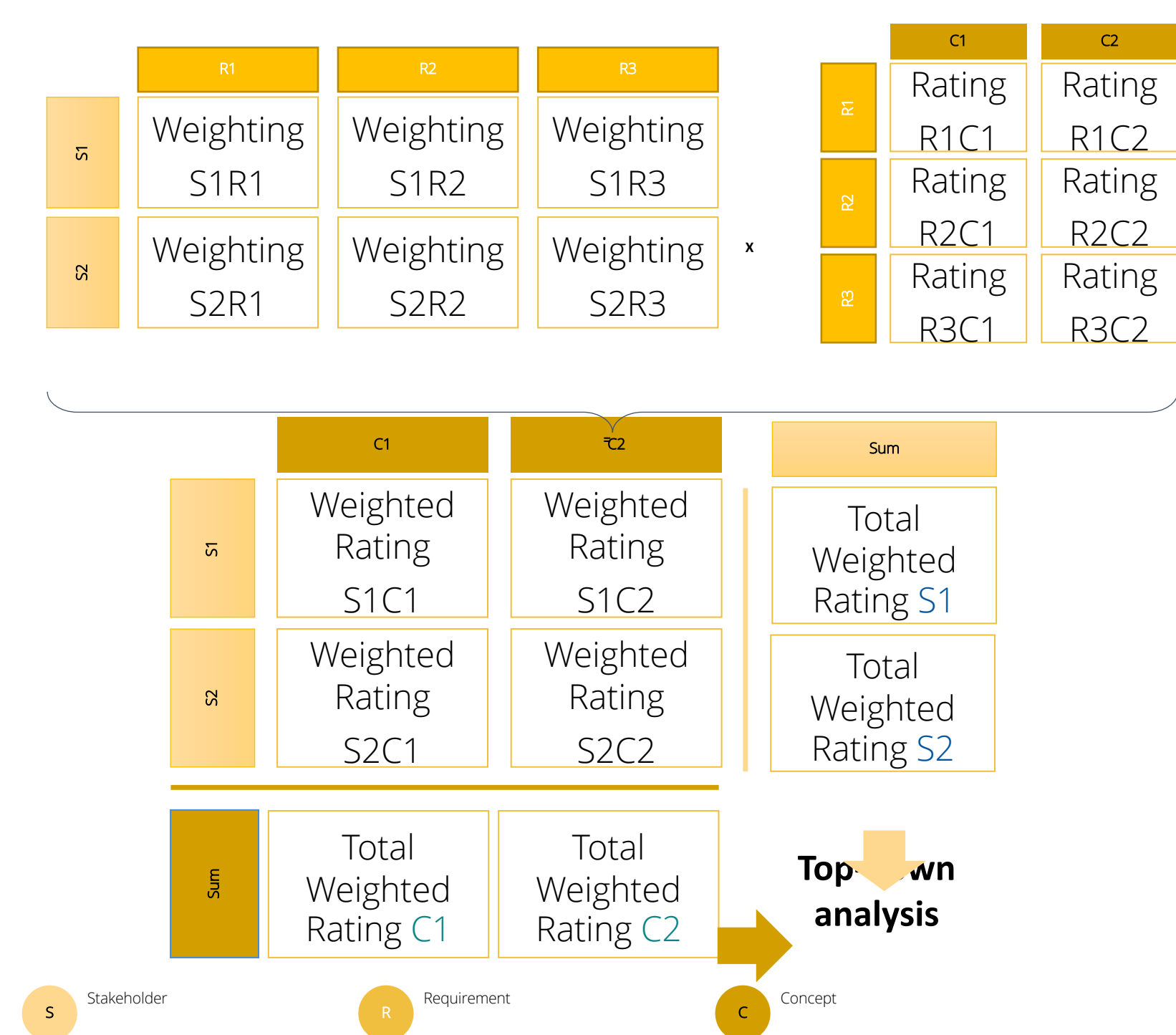
Though significant efforts have been undertaken to improve the European railway sector, less attention has been allocated to the analysis of these activities from the stakeholders' and users' perspectives. This study provides the methodology for measuring the adherence of Research & Innovation actions in railways to the stakeholders' requirements and the benefits they expect.

METHODOLOGY

The study developed a three-steps methodology.

- After gathering the stakeholders, their requirements concerning the European railway system are collected and weighted.
- A structured overview of the expected Research & Innovation objectives is composed to compare the stakeholders' requirements analysis with the benefits that R&I activities are expected to yield.
- The results from the previous steps are merged contrasting the stakeholders' requirements and the technological concepts identified within Europe's Rail Joint Undertaking Master Plan and Multi Annual Working Programme.

Each step is characterized by a rating matrix, allowing the results to be interoperable and comparable.



The three steps of Ben@Rail methodology

RESULTS OF TOP-DOWN ANALYSIS

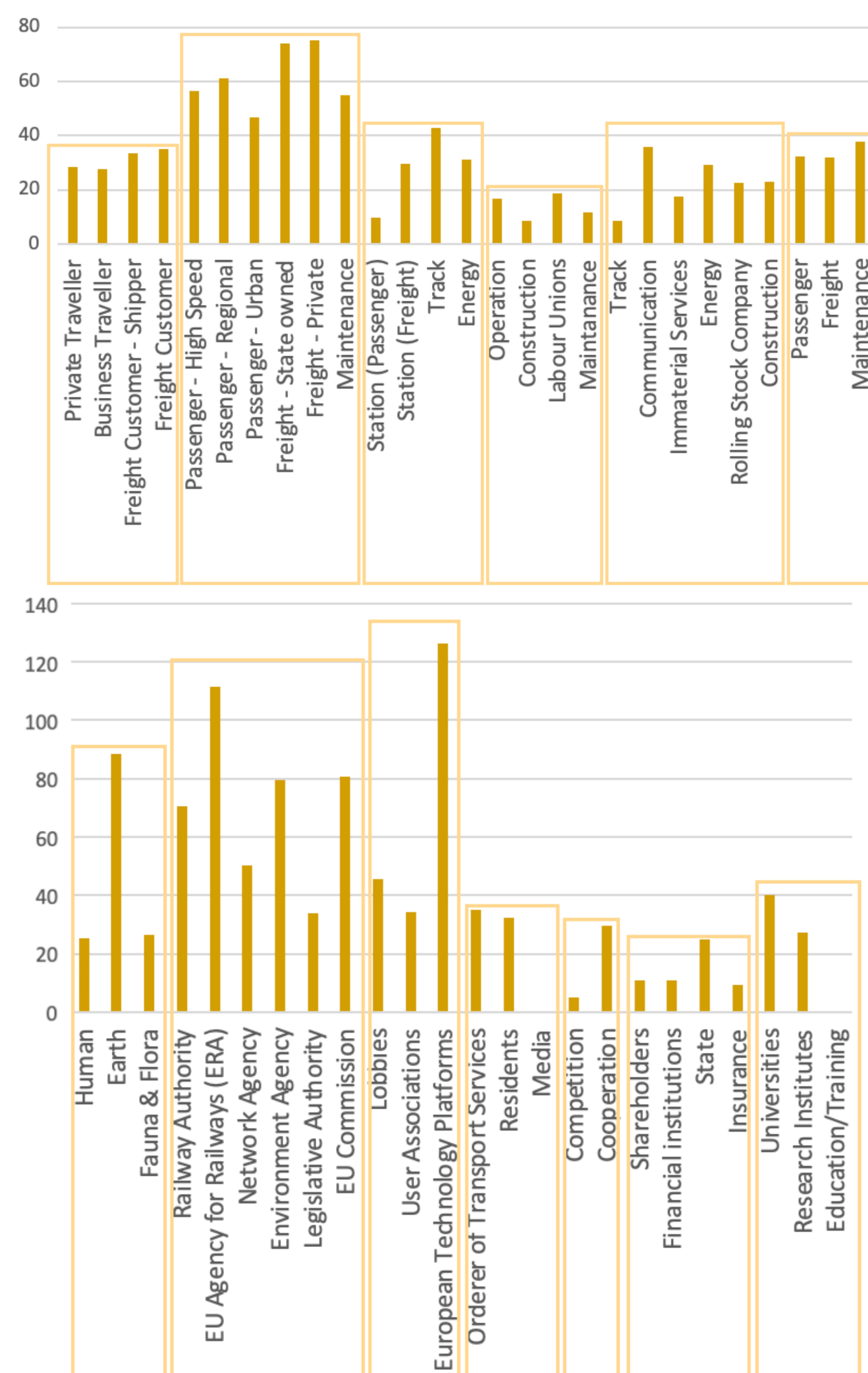
It emerges that Europe's Rail focus on Sustainable and green railroad system, Network and mobility management and Intelligent and integrated asset management can bring about the greatest fulfilment of the stakeholder requirements. However, it also reveals **gaps and discrepancies** between implementation of the concepts and the requirements of the stakeholders.

End-users, main target group of the EU Railway System, occupy only middle positions in the analyses, indicating the need for more direct efforts to make the rail system affordable and highly reliable.

POSTER SESSION

Tardivo Alessio et al.

Effectiveness of EU-funded R&I programmes from the perspective of the European railway sector stakeholders



Total weighted rating of each stakeholder

Moreover, the analysis shows that **employees** are given a lower priority in terms of their needs being addressed. This coincides with the failure to address the needs of the **education/training stakeholder**. The inadequate addressing of these two stakeholders makes it clear that calibration at the concept level is required in this area. Other takeaways include the need for better cooperation with **other transport modes** and higher stress on **multimodality**. Due to its scalability and replicability, this methodological approach can be applied across various disciplines and sectors.