



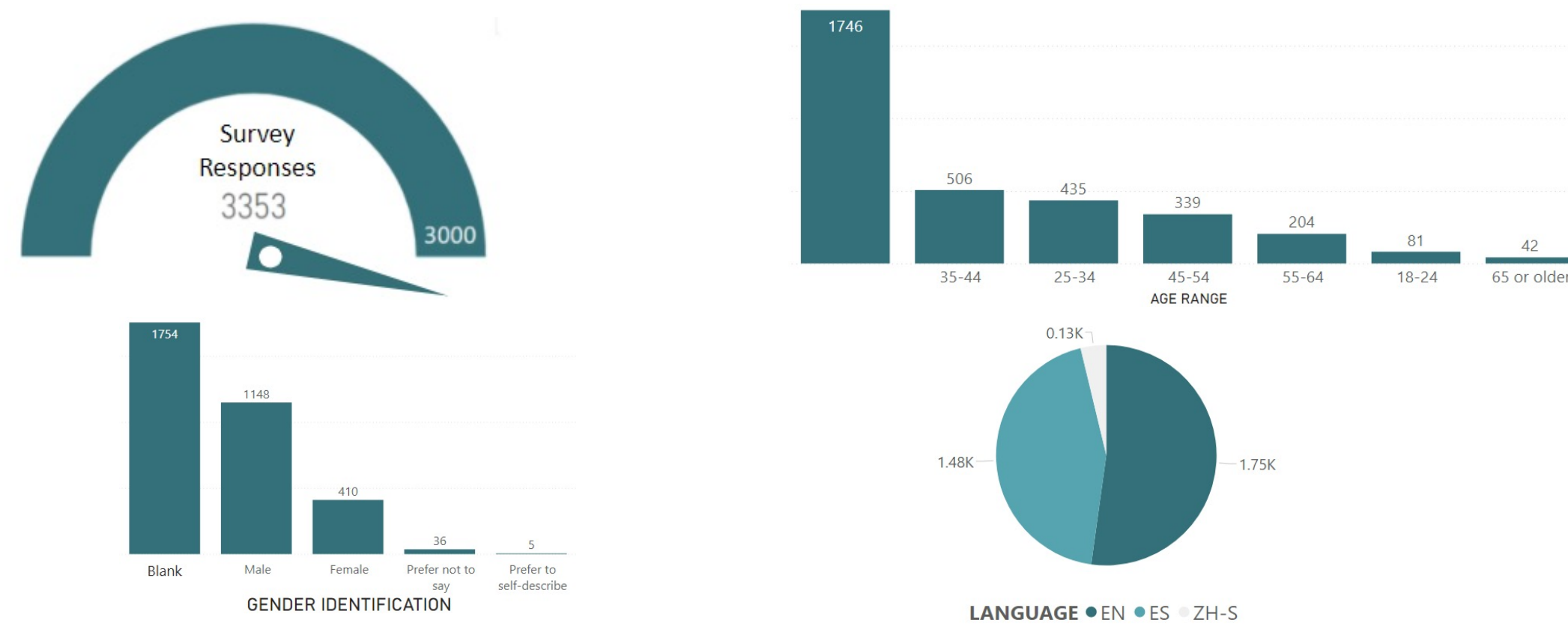
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Understanding the State of Supply Chain Sustainability



Motivation

- A diverse group of survey respondents motivated us to investigate whether different demographics groups interpret sustainability differently.



- The post-Covid world has exasperated efforts towards SCS, and this project aims to study long-term changes adopted by industries to become more sustainable

Key Question / Hypothesis

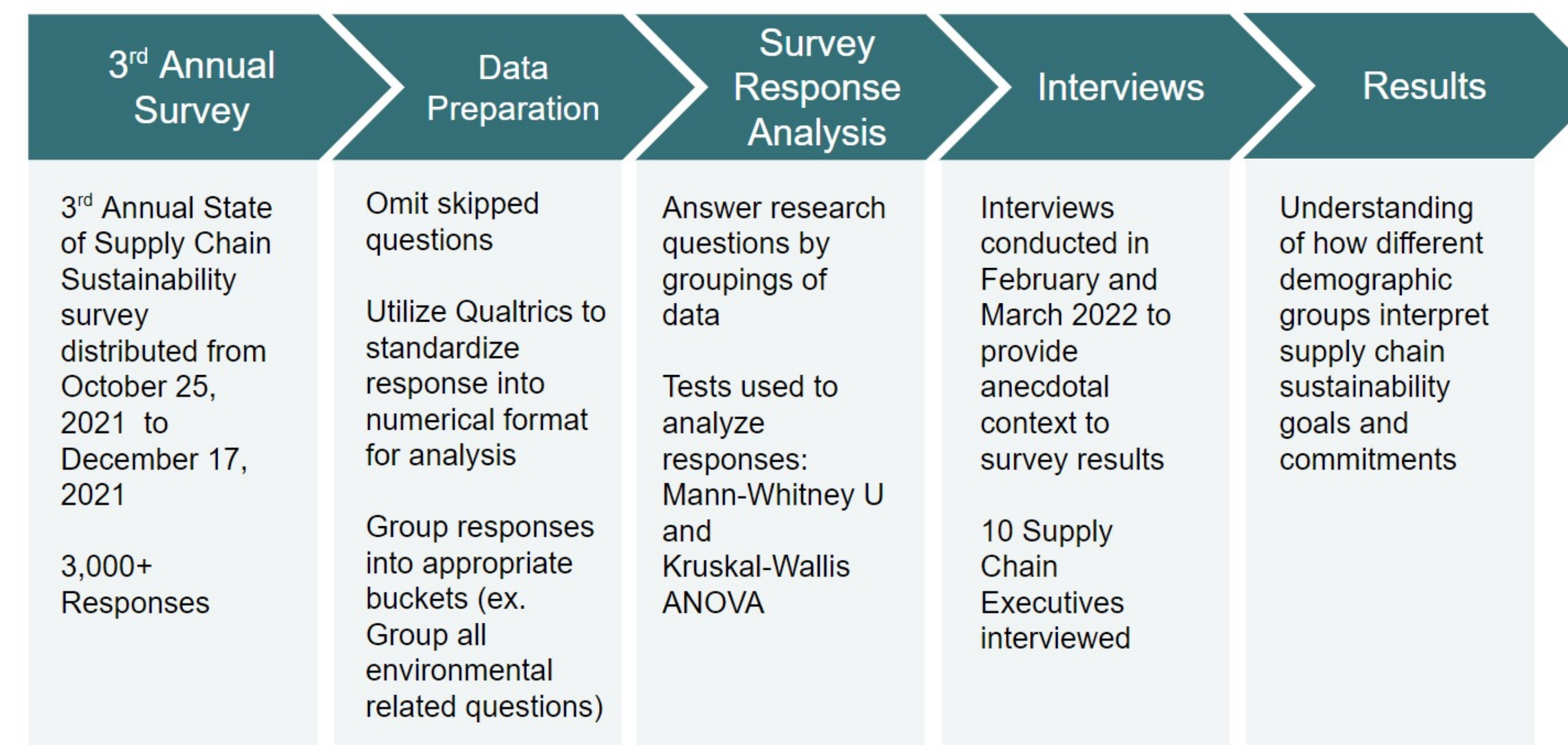
- How do different demographic groups (i.e., gender, language, location, age, and industry) interpret the current state of supply chain sustainability?
- Have the long-term implications of COVID-19 affected companies' commitments to supply chain sustainability?

Relevant Literature

- MIT Center for Transportation & Logistics and Council of Supply Chain Management Professionals. (2020). State of Supply Chain Sustainability 2020. MIT Center for Transportation & Logistics.
- MIT Center for Transportation & Logistics and Council of Supply Chain Management Professionals. (2021). State of Supply Chain Sustainability 2021. MIT Center for Transportation & Logistics.
- Sarkis, J. (2020). Supply chain sustainability: Learning from the COVID-19 pandemic. International Journal of Operations & Production Management, 41(1), 63–73. <https://doi.org/10.1108/IJOPM-08-2020-0568>

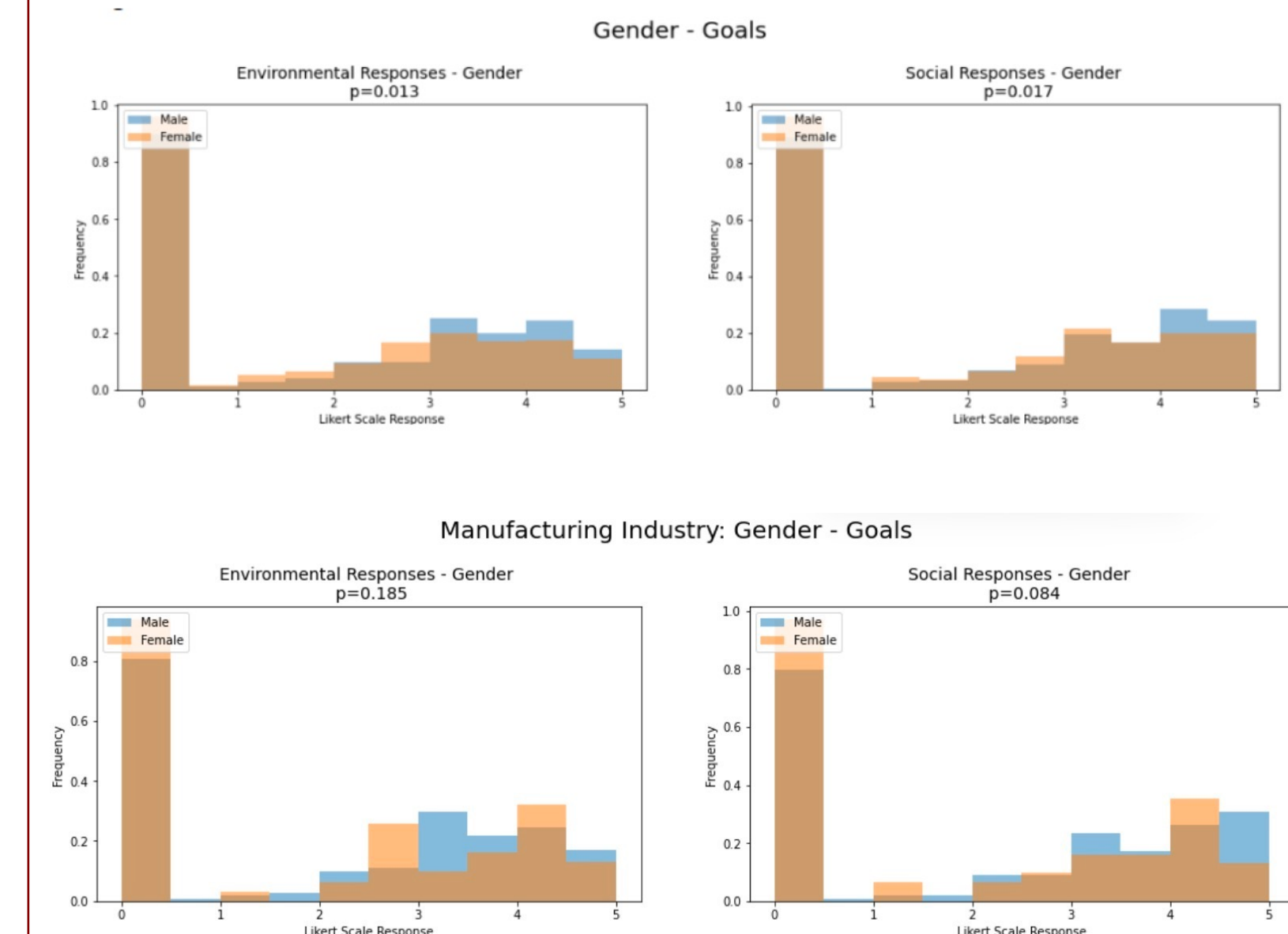


Methodology



Results

Significance - SCS Environmental & Social Goals - Response Difference by Gender



- Mann-Whitney U and Kruskal-Wallis tests showed significant differences between demographic groups.
- There were significant differences between male and female for environmental and social goals.
- However, when isolated by Retail industry, differences weren't statistically significant.

Contribution

- Test results from responses by demographic groups – gender, location, age range, industry, and language translation – showed significant differences in response within each grouping. However, when isolated by specific industries, differences were less apparent.
- A person's work environment has a greater impact on their understanding and perception of supply chain sustainability than demographics.
- There may be opportunities for industry groups to define sustainability practices and goals and look to educate employees on sustainability at an industry-wide level.

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