

At the Chair of Logistics and Supply Chain Management of TUM School of Management, we are looking for an interested and qualified student to conduct his/her

Master thesis

on the topic

VR-Enabled Practices for Sustainable Supply Chain Decision-Making

Organizations face growing pressure to meet sustainability goals and strengthen decision-making across environmental, social, and economic dimensions. Metaverse environments—combining VR/AR, AI, and blockchain—offer new possibilities for supply-chain visibility, collaboration, and decision accuracy, yet evidence on their sustainability value remains limited. This study will use a scenario-based experiment to assess how VR-enabled practices build the capabilities that drive sustainable supply-chain performance.

Key project tasks:

- Systematic literature review on XR in SCM and in environmental behavior change
- Scenario-based empirical test of metaverse effects on logistics efficiency, collaboration, and sustainability
- Development of a capability framework for embedding metaverse-enabled sustainable decision practices

Requirements:

The thesis is suitable for Master in Management and Master in Management and Technology students with a major in operations and supply chain management. They should demonstrate strong programming and analytical abilities—proficient in at least one general-purpose language such as Python, Julia, or C++—and be comfortable working with data-analysis or machine-learning libraries. A solid grounding in supply-chain management is essential, with prior experience in sustainability assessment regarded as an asset. Finally, successful applicants must be able to work independently, think analytically, and communicate their findings in clear, impactful English.

Earliest begin: December 2025

Supervisor: Laura Visintainer Lerman

Application: Email with curriculum vitae and transcript of records to logtheses.log@mgt.tum.de