

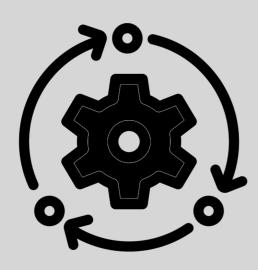
Motivation





Construction industry is responsible for 40% of the total CO2 emissions

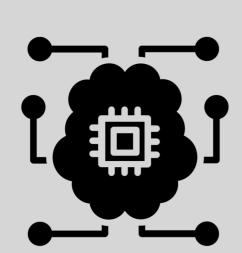
Problem





Planning robotic assembly for timber buildings construction

Methodology





Using symbolic AI planning techniques for construction process planning

AI-Based Sustainable Timber Construction Process Planning

Team: Tenure-Track Prof. Andreas Wortmann

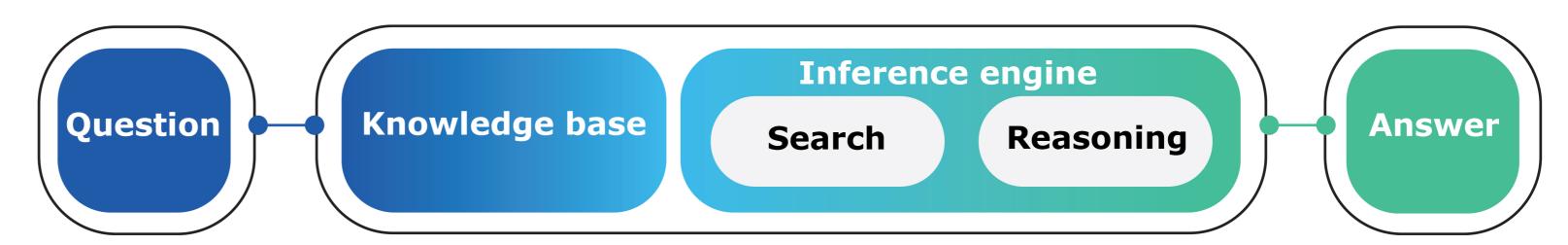
Institute for Control Engineering of Machine Tools and Manufacturing Units (ISW), University of Stuttgart

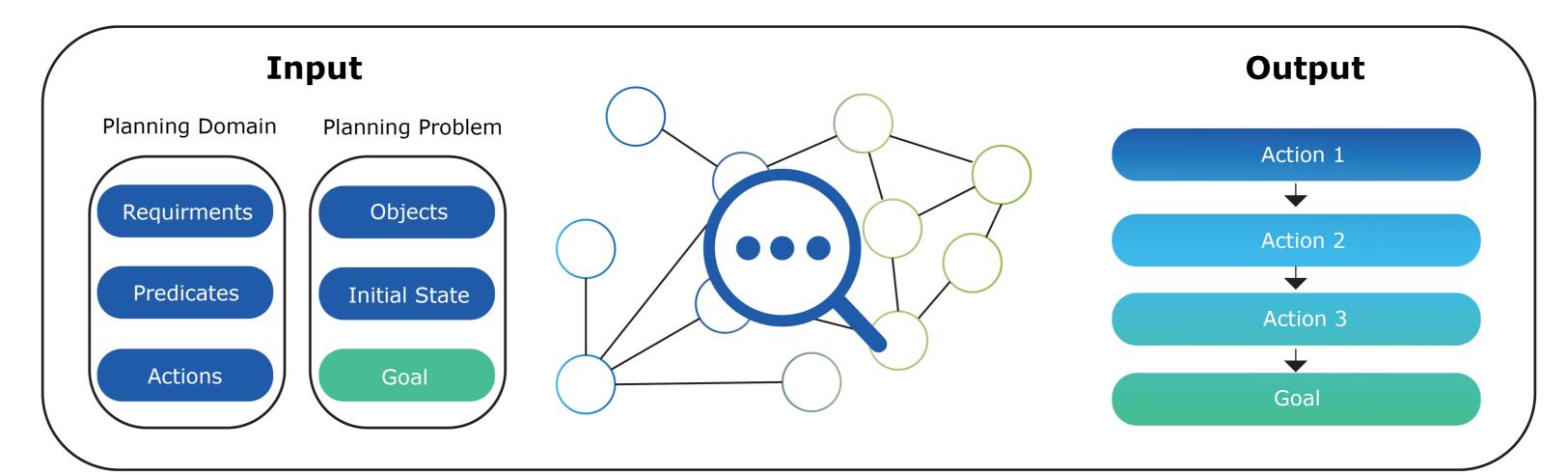
Shermin Sherkat (ICD/ISW)

Tenure-Track Prof. Thomas Wortmann

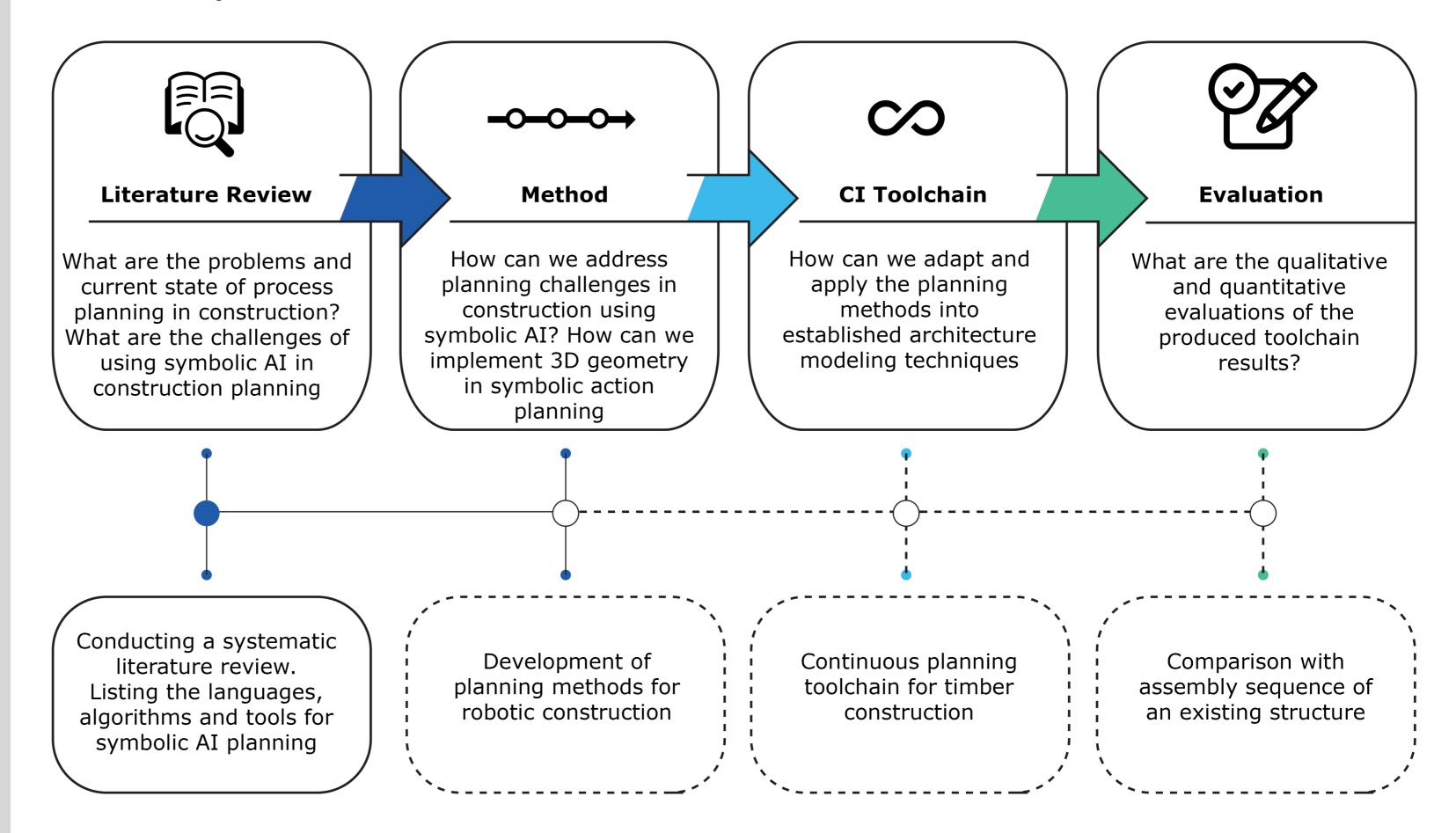
Chair for Computing in Architecture, Institute for Computational Design and Construction (ICD), University of Stuttgart

Symbolic AI and AI planner





Research questions and current state



Expected outcome

