



# Immersive Engineering Lab for Material Handling in the Logistics Laboratory

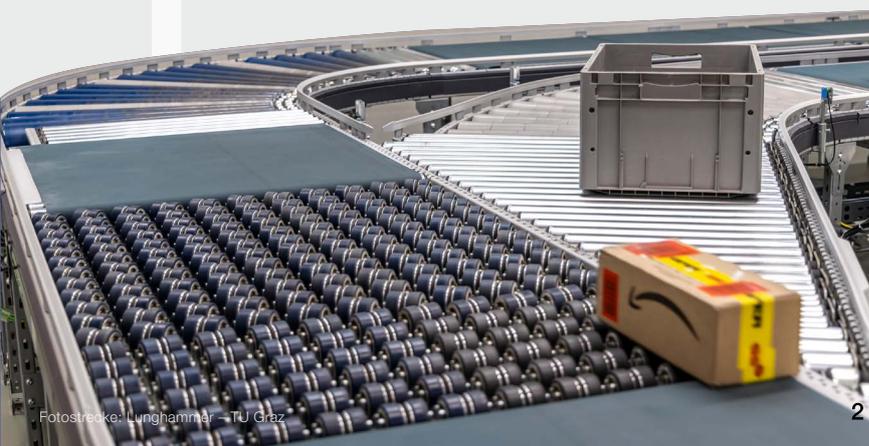
A sustainable approach to science. The SSI Schäffer company in the north of Graz donated extensive infrastructure to the Institute of Logistics Engineering at TU Graz.

Our aim was to build a sensible circuit on which different transport goods can be transported in a closed circuit with at least one divert and one merge,”

explains Institute head Domenik Kaever. The result is now in operation and open for joint research projects.



 The requirement for the round trip was to integrate at least one two-way diverter (flow splitter) at which the material flow of the transported goods is divided. Both the speed of the conveyor technology for testing purposes and the distribution of the transported goods can be varied.



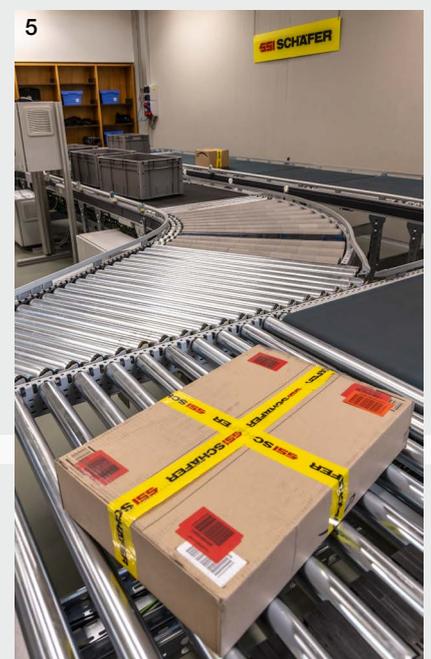


3 The following topics, among others, are planned as a research focus: Digital twin, industrial metaverse, extended reality, virtual commissioning, predictive maintenance, AI and computer vision, modularisation and standardisation, renewable conveyor technology made of wood, robotics and much more.

4 The conveyor technology comes from an SSI Schäffer. In the interests of sustainability, it will now continue to be used at TU Graz, as Domenik Kaever explains: "This gives the components a second life and provides us with extensive research opportunities."



5 In future, the ITL's infrastructure is to be expanded to include a mobile robot collaboration space (driverless transport systems) and a themed area on wood in logistics.



**CONTACT:**

For joint research projects or if you are interested in the Logistics Lab, please contact the Institute of Logistics Engineering at TU Graz directly:

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