# TARO
# Towards Automated Railway Operation

**Increasing capacity, productivity & quality through a use case driven approach**

Digital Twin Vehicle
Digital Twin Infrastructure

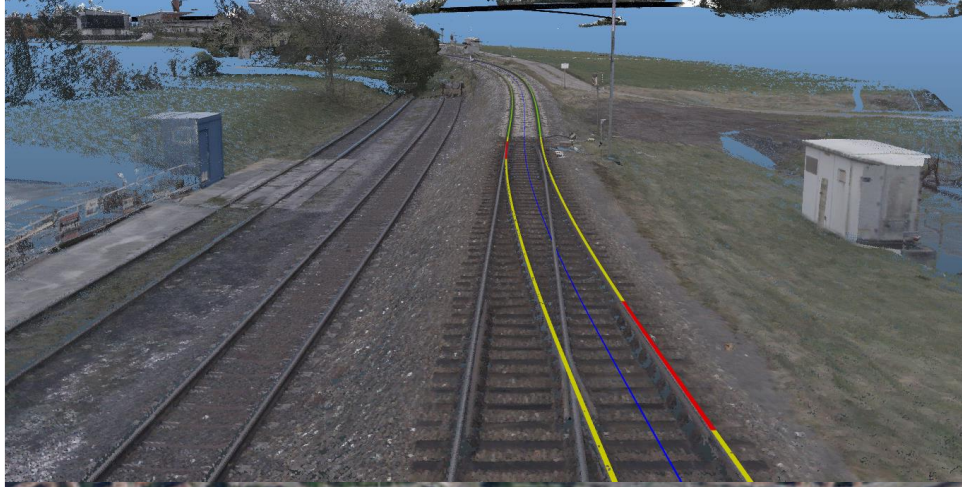
Network Optimization
Automatisation of Rail Freight
Future Shunting

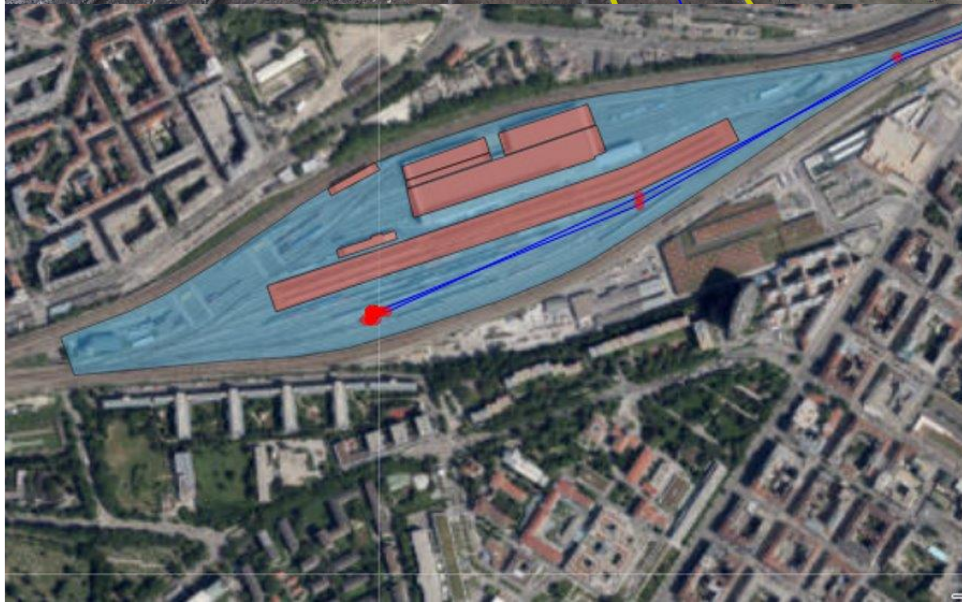
Regional Railways

Digital Twin Vehicle **proof of concept & use cases, local hotspots & pattern recognition developed**
Digital Twin Infrastructure **fundamentals for 3D infrastructure model & simulation available**

Network Optimization **digitalisation of manual network routing designed**
Automatisation of Rail Freight **coupler decided & implications for operations developed**
Future Shunting **tool for simulation available**

Regional Railways **functional goals, interlocking solutions & concepts for energy self sufficient wayside signaling designed**





Universität Klagenfurt
Institut für Mathematik

Hex GmbH

AIT Austrian Institute of Technology GmbH

Rechenraum GmbH

EBE Solutions GmbH

Supercomputing Systems AG

Dr. techn. Josef Zelisko
Fabrik für Elektrotechnik und Maschinenbau Gesellschaft m.b.H.

FH OÖ Forschungs & Entwicklungs GmbH

FH Campus Wien Forschungs- und Entwicklungs GmbH

RENERCON e.U.

Technische Universität Graz
Institut für Maschinenbau und Betriebsinformatik

JOANNEUM RESEARCH Forschungsgesellschaft mbH

ÖBB-Holding AG

ÖBB-Infrastruktur AG

ÖBB-Personenverkehr AG

ÖBB-Technische Services-Gesellschaft mbH

Rail Cargo Austria AG

The project is funded by the “Austrian Federal Ministry of Climate Action, Environment, Energy, Mobility, Innovation and Technology” and “The Austrian Research Promotion Agency”.

Federal Ministry
Republic of Austria
Climate Action, Environment, Energy, Mobility, Innovation and Technology

FFG
Promoting Innovation.

B. Ludwig / bertram.ludwig@oebb.at / https://konzern.oebb.at/de/taro