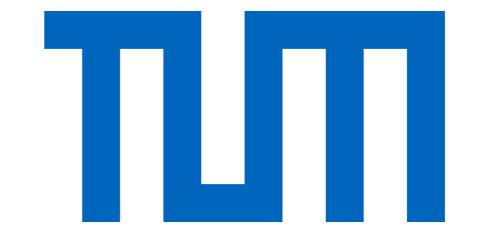
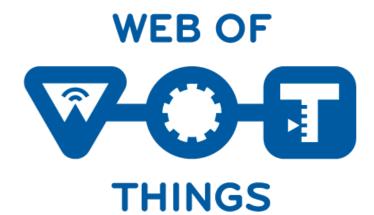
Onboarding and Interoperability in the Industrial Metaverse





Background and Motivation:

The Web of Things (WoT) provides the cornerstone needed to onboard, connect, and operate devices and systems in the Industrial Metaverse. To showcase this, we built two Mixed-Reality (MR) applications to interact with and visualize WoT devices.

- HoloWoT: an application that provides a spatial, virtual interface to any WoT device.
- RoboLens: an application that visualizes and controls WoT-enabled robotics using an MR digital twin.

What can be seen:

- HoloWoT:
 - Visualzing device properties using dashboards
 - On-the-fly visual creation and execution of mashups.
- RoboLens:
 - On-the-fly importing of a robot's digital twin.
 - Gesture-based control of any robot using only its TD and URDF
 - Simulation-based verification robot movement based on the current environment

