MAVERIC

Middleware for Automated use of
Edge Resources In Campus networks

www.maveric-project.org

Xantaro

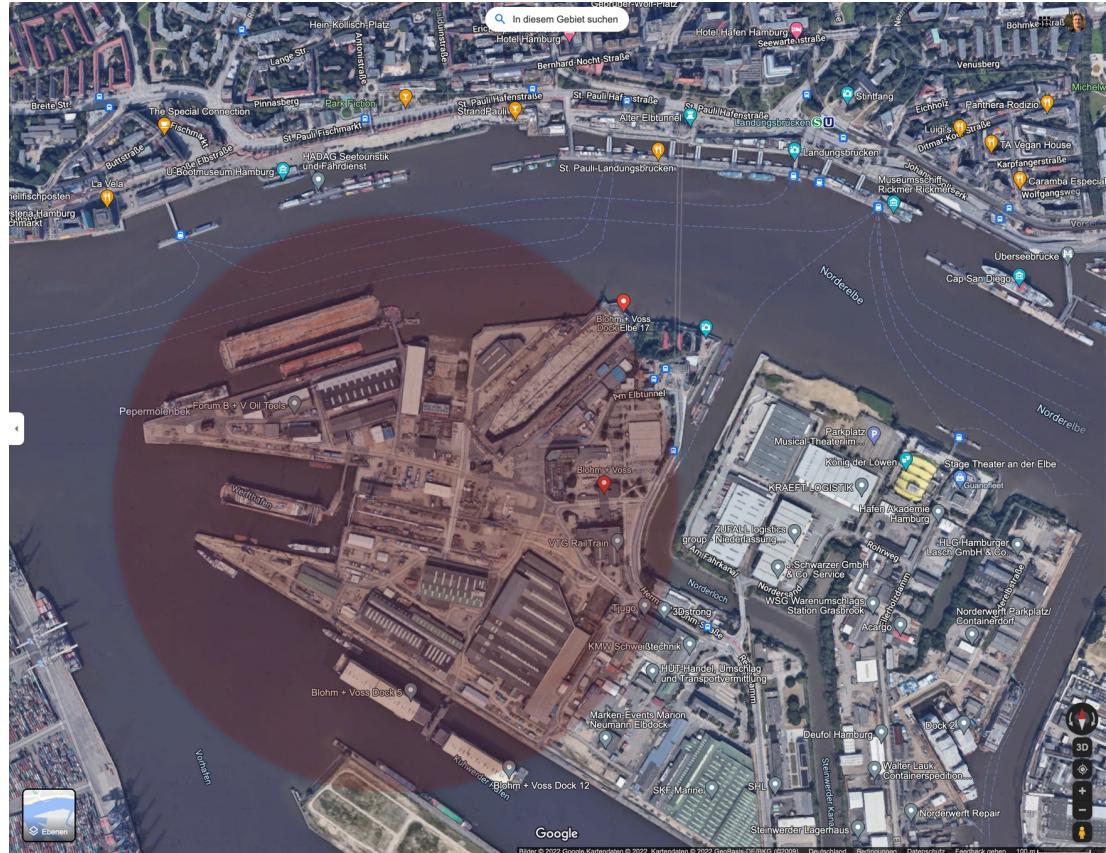University of Applied Sciences
HOCHSCHULE

Hochschule Augsburg

Objectives

Middleware for Automated use of Edge Resources In Campus networks

- Challenges
  - Difficult radio environments
  - Unstable backhaul, Pop-Up networks

- Adequate robust application support
  - Ubiquitous access to online resources (manuals etc.)
  - Application proxies (edge computing)
  - Automatic distribution of application proxies and state synchronization after disconnections

- Support for heterogeneous deployments
  - 5G (ORAN, BBU+RRU), LTE, WLAN
  - Assess technical and economic case for ORAN

- Security
  - Zero-Trust needed for radio network
  - Secure integration into enterprise networks and AAA infrastructure

Use Cases
Overview

1. Ubiquitous coverage for "always-on" access
   - Whole campus
   - General-purpose networking

2. Ship in construction (in dock, at pier)
   - In-ship connectivity
   - Difficult radio conditions

3. Ship in test operation
   - Pop-up Network
   - Challenged or non-existant backhaul

4. Potentially: multi-site operation with roaming (later)