



The Standards People

# IoT Conference 2023

## Adaptive Streaming of IoT Sensor Data in Mobile Networks

Presented by: Christoph Uran



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# Christoph Uran, ROADMAP-5G

- Researcher & Lecturer @ Carinthia University of Applied Sciences
- Master's degree (Communication Engineering)
- Ph.D. student (Cloud & Edge Computing in 5G)



@: [c.uran@fh-kaernten.at](mailto:c.uran@fh-kaernten.at) | [in: christoph-uran](https://www.linkedin.com/in/christoph-uran)

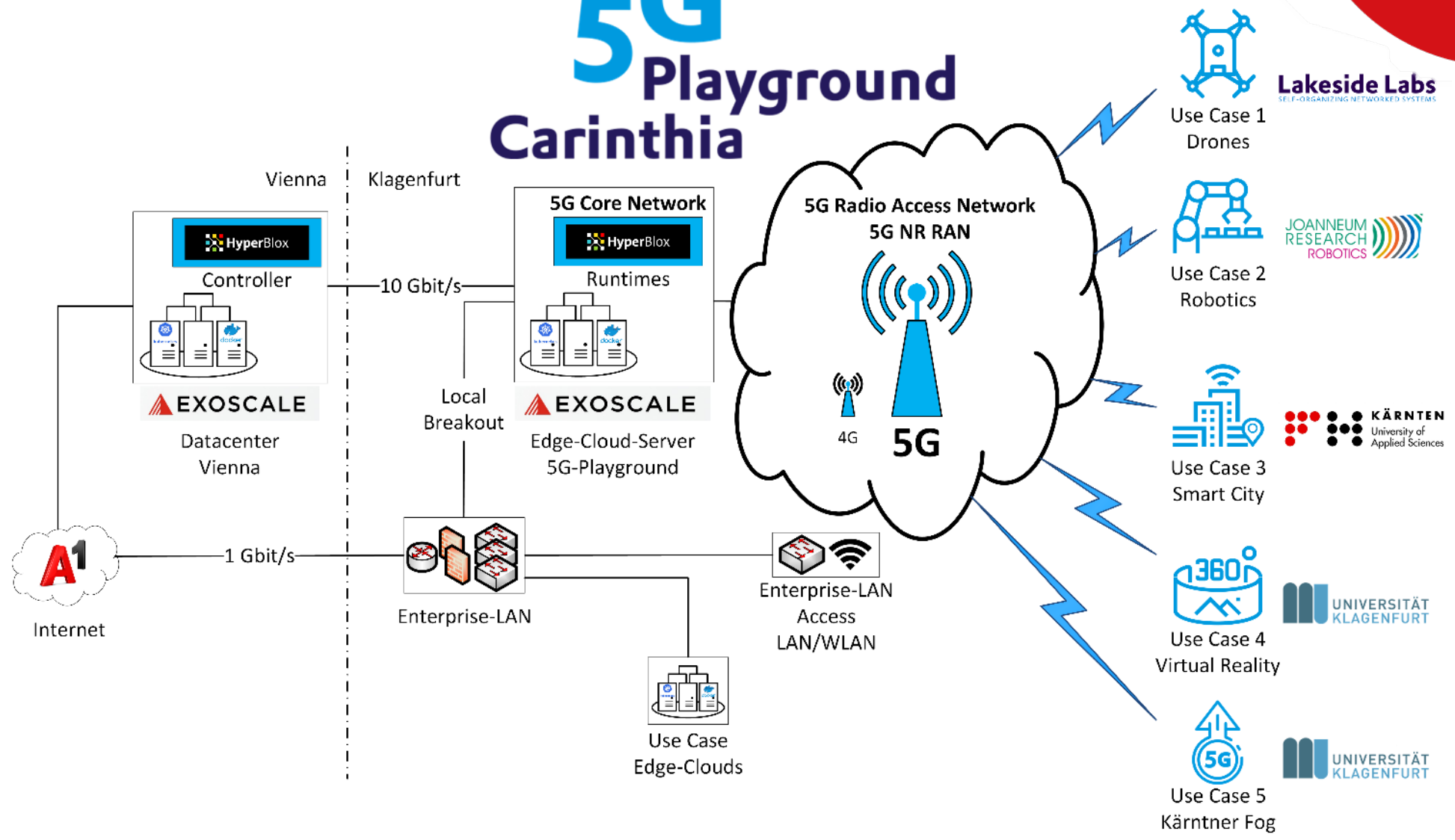


# Overview

- 5G Playground Carinthia Campus Network
- Data in Smart Cities
- Sensor Virtualization & 5G
- Adaptive Streaming Framework (ASF)
- ETSI-MEC Integration
- Demo Setup



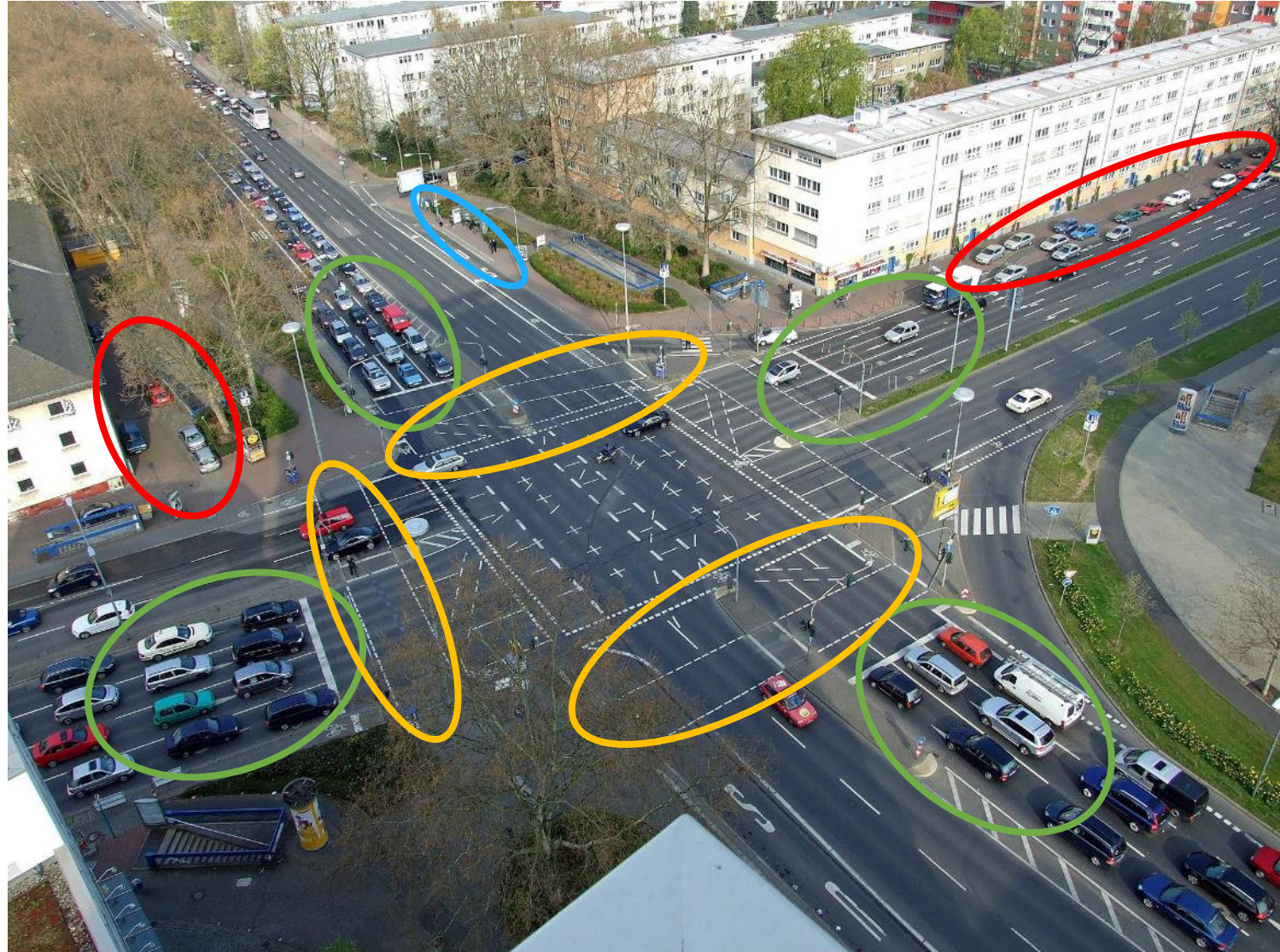
# 5G Playground Carinthia





# Data in Smart Cities

- Traffic flow analysis
  - Pedestrian monitoring
  - Parking space control
  - Public transport monitoring
- 
- Detection of
    - Emergency situations
    - Defective components



Source: wikipedia.org





# Sensor Virtualization & 5G

- Broad variety of sensors

- Camera
- Lidar
- Infrared
- Audio



- Communication & Processing

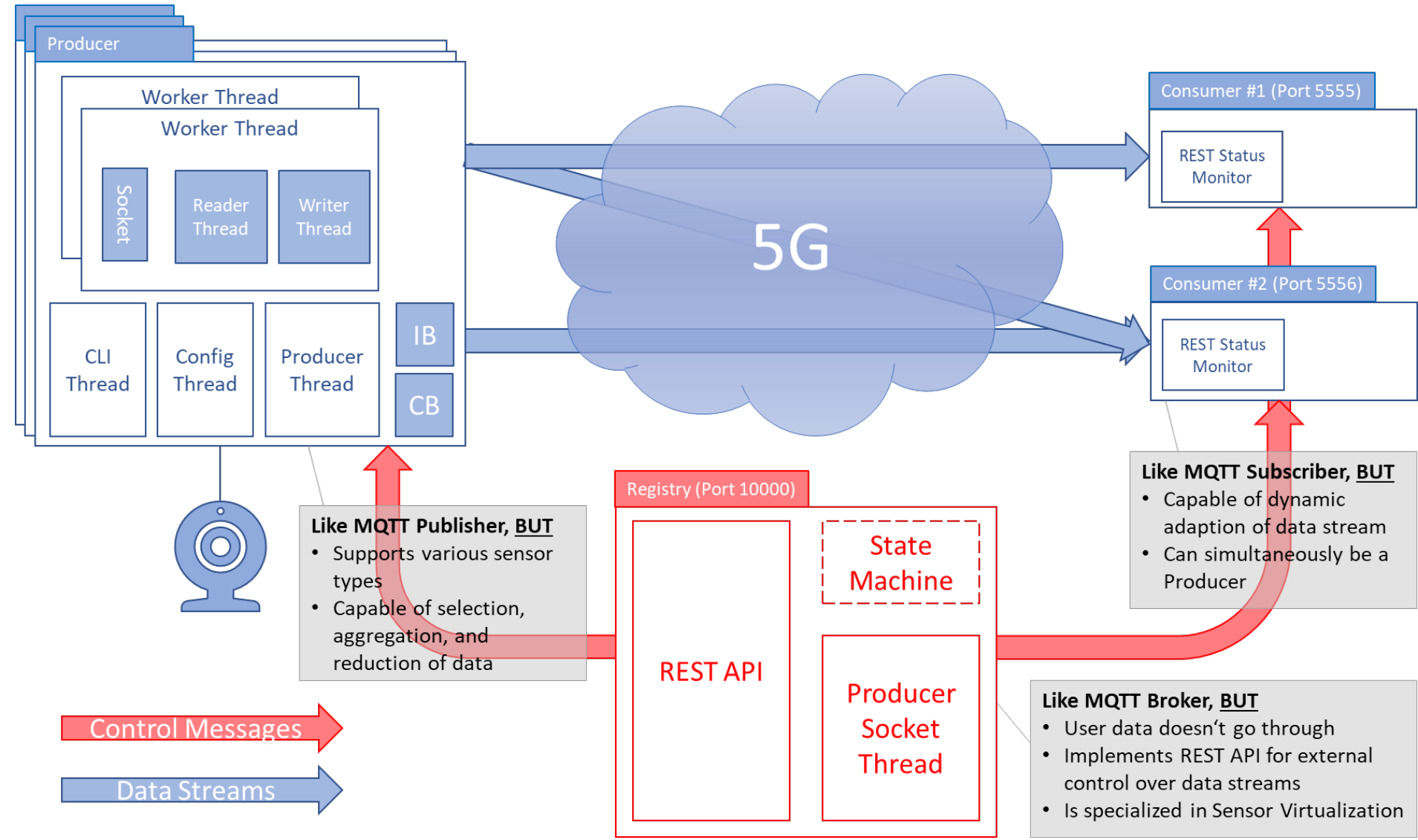
- Quectel RM500Q-AE
- NVIDIA Jetson Nano



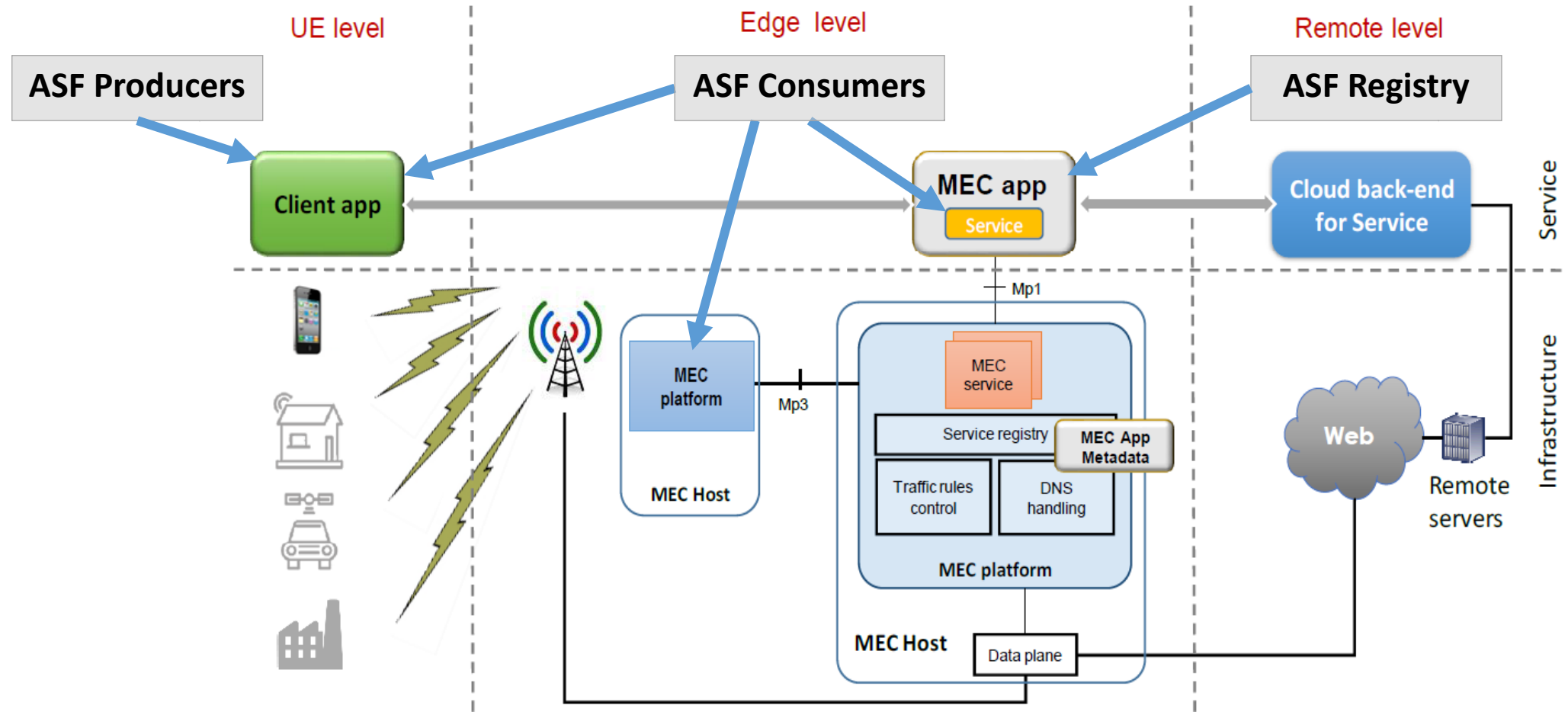
Source: nvidia.com



# Adaptive Streaming Framework (ASF)



# ETSI-MEC Integration

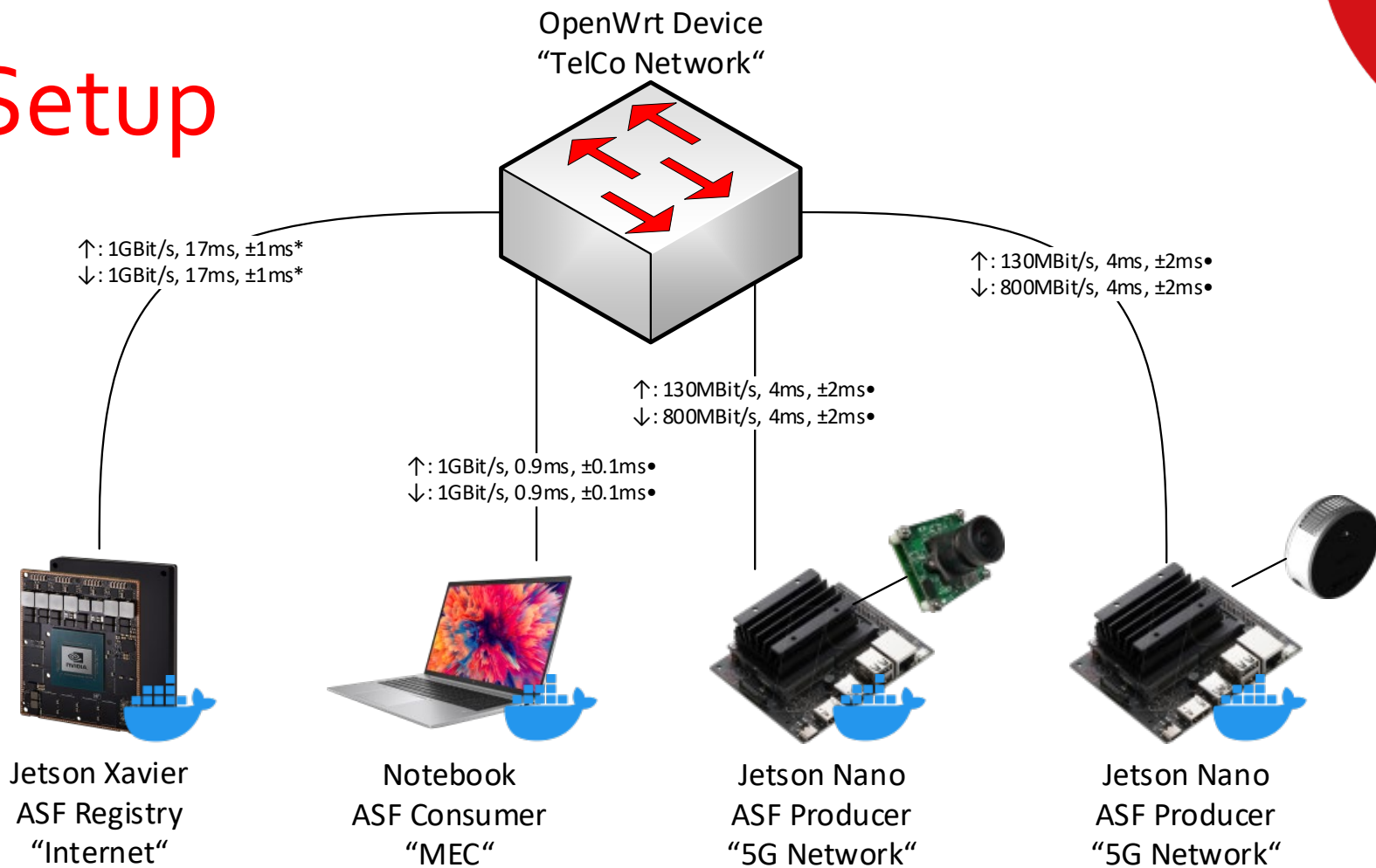


Source: ETSI White Paper No. 20





# Demo Setup



**Legend:**

- ↑ Configuration of upper interface
- ↓ Configuration of lower interface
- \* According to tests between Server in Vienna and RIPE Probe with IP 185.235.147.19 near ETSI Premises
- According to tests at the 5G Playground Carinthia Campus Network





See you at our demo!