Port of Piraeus – PTC
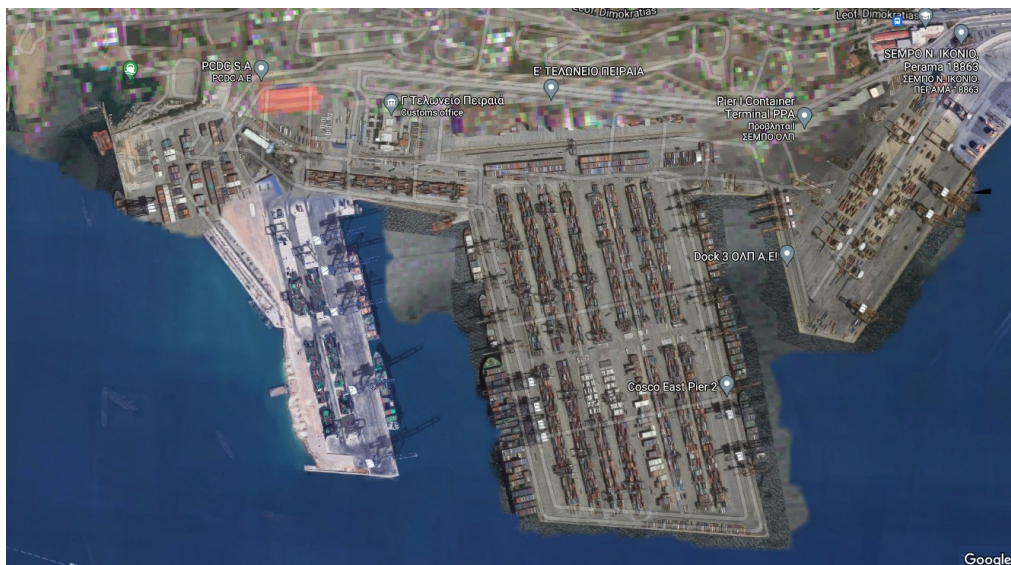
Port of Piraeus facts

- 2 Piers (Pier II and III)
- 4th largest port in Europe (container throughput)
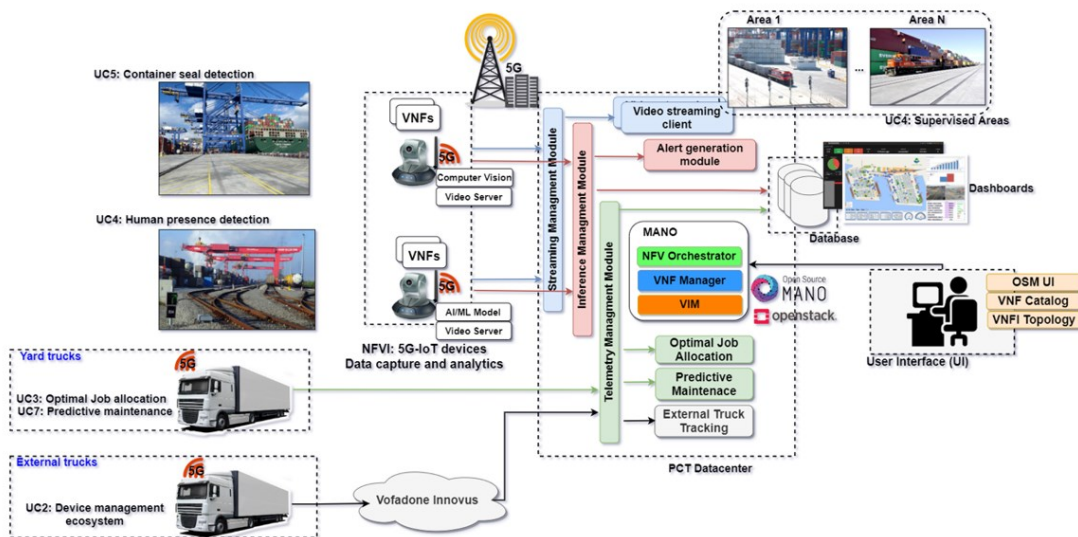
Throughput 6 million TEUs

Use cases at Port of Piraeus

- UC2: Device Management Platform Ecosystem
- UC3: Optimal selection of yard trucks
- UC4: Optimal surveillance cameras and video analytics
- UC5: Automation for ports: port control, logistics and remote automation
- UC7: Predictive Maintenance

Architectural design of Athens, Piraeus Port Living Lab.

5G network features

- eMBB service

- Low latency transmissions

- Enhanced localization

- MANO-based services / orchestration

- Far-edge computing services

- Computer vision

- AI/ML video analytics

- IoT 5G end devices

Slide 4---

Innovations Athens, Piraeus Port Living Lab.

- Optimal surveillance cameras and video analytics

- Automation for ports: port control, logistics and remote automation

- MANO platform (ETSI Management and Network Orchestration)

- 4K video feed with video analytics

- IoT telemetry for 5G connected yard trucks.

Notes: The developed platform will be based on Open Source MANO (OSM), an ETSI-hosted project developing an Open Source Network Function Virtualization (NFV) Management and Orchestration software stack aligned with ETSI NFV. The envisioned platform will exploit 5G technologies and enable computer vision analytics at the UE side, i.e., at novel 5G-IoT devices deployed at several key port areas, as a far-edge computing services.