



Container

Construction intelligence



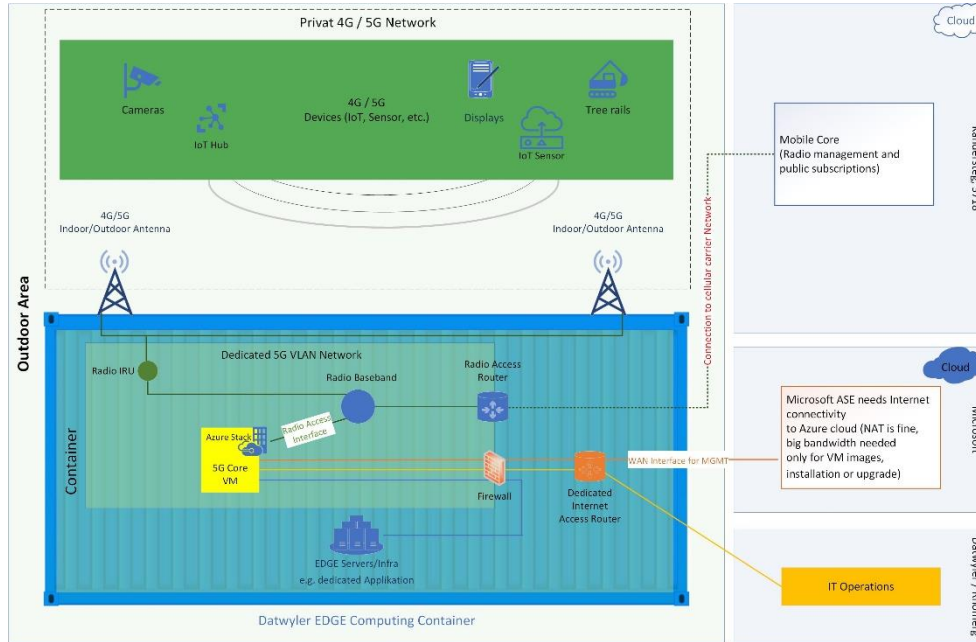
EDGE Computing Container

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Q-tainer

A mobile AI & data center for construction sites



- Components for 4/5G are in the container
- IoT devices are connected to 4G/5G
- Management of 4G/5G containers can reside in the cloud
- Data processing of the use cases takes place in the container
- Connection to Azure Cloud
- IT-Operation of the container by Datwyler

Use Cases

Example for use cases which are implemented with the Q-tainer

Basic Use Cases

- Connectivity on the construction site with 5G and Wifi
- Construction site safety with RK Safetec
- Video Analytics

Extended Use Cases

- Construction progress control
- Remote Monitoring and Management
- Personal and theft protection
- Planning and billing of machines and creation
- Optimization of travel times / logistics
- Digital twin of the construction site
- Real-time processing and recognition

Detection of construction machinery



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File formats accepted: jpg, png, bmp
File size should not exceed: 4mb

Using model trained in

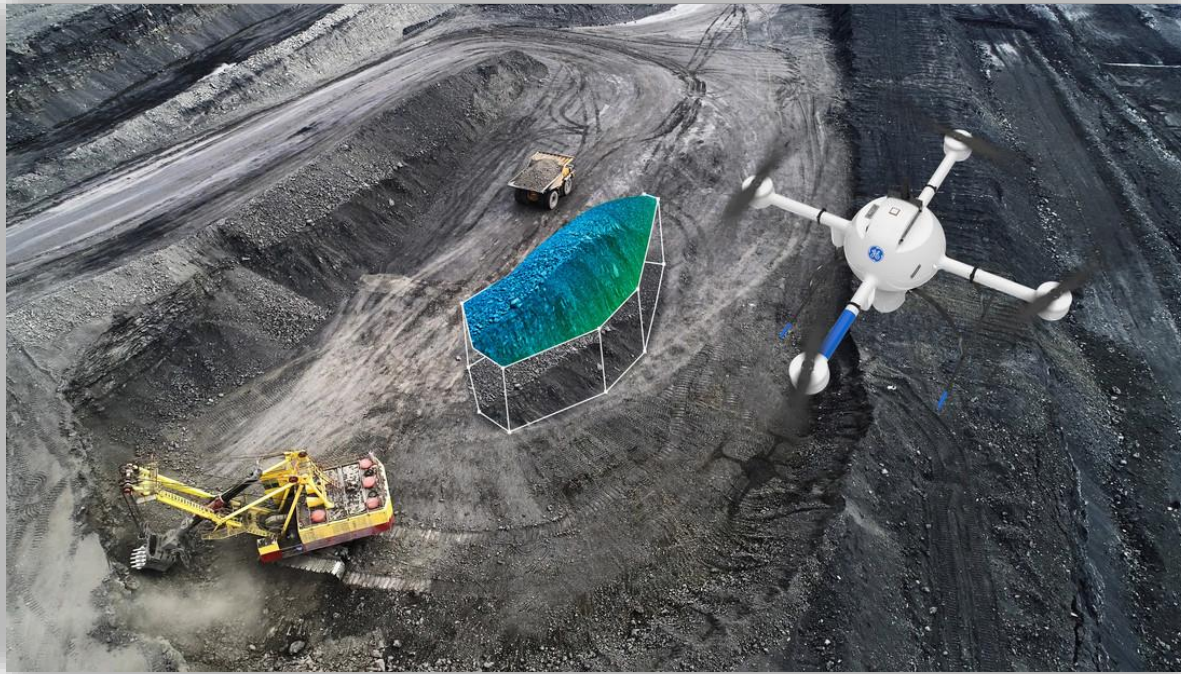
Iteration

Iteration 1 ▾

Predictions

Tag	Probability
Excavator Liebherr	95.8%
Rail Crane KRC1200	94.5%
Tamping Machine B66U	6%
Tamping Machine D509-4X	2.9%
Rail Crane KRC910	0.7%

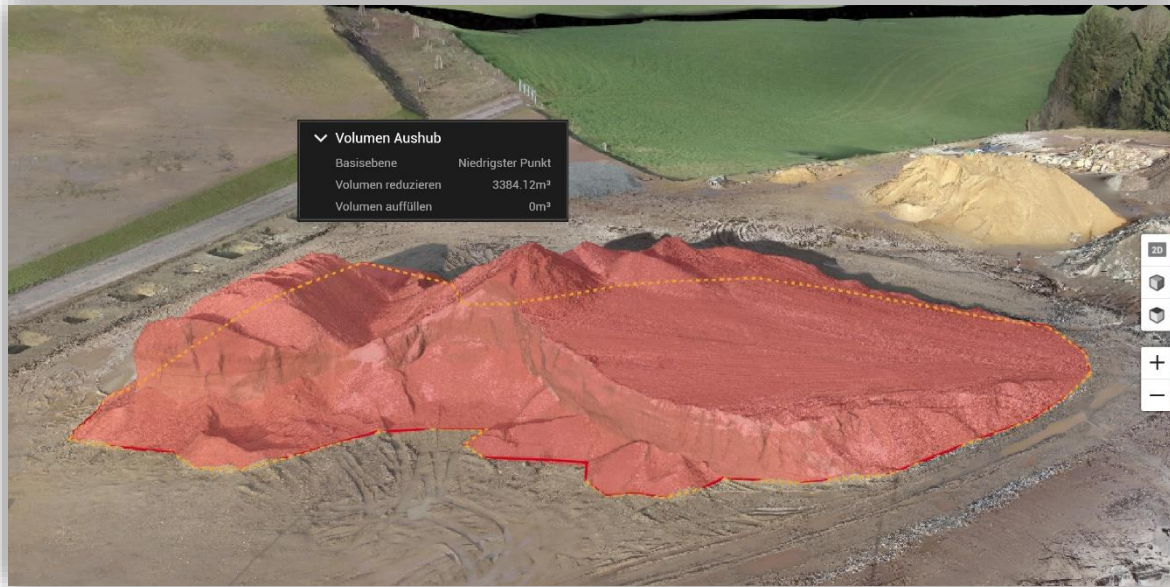
Drone for video recording



Symbolbild GeoLanes

Drone with automatic take-off/landing site and automatic video upload to the cloud

Material and volume detection



Detection of debris and material on videos for automatic inventory of a construction site

Symbolbild High Angle

Reference Cases

Dornbirn quarry area



Gotthard - 2nd tube

