FINWE & FinCloud.tv

VIDEO ANALYTICS & REMOTE PRESENCE SOLUTIONS

December 2020

COMPANIES

SOFTWARE

Finwe Oy

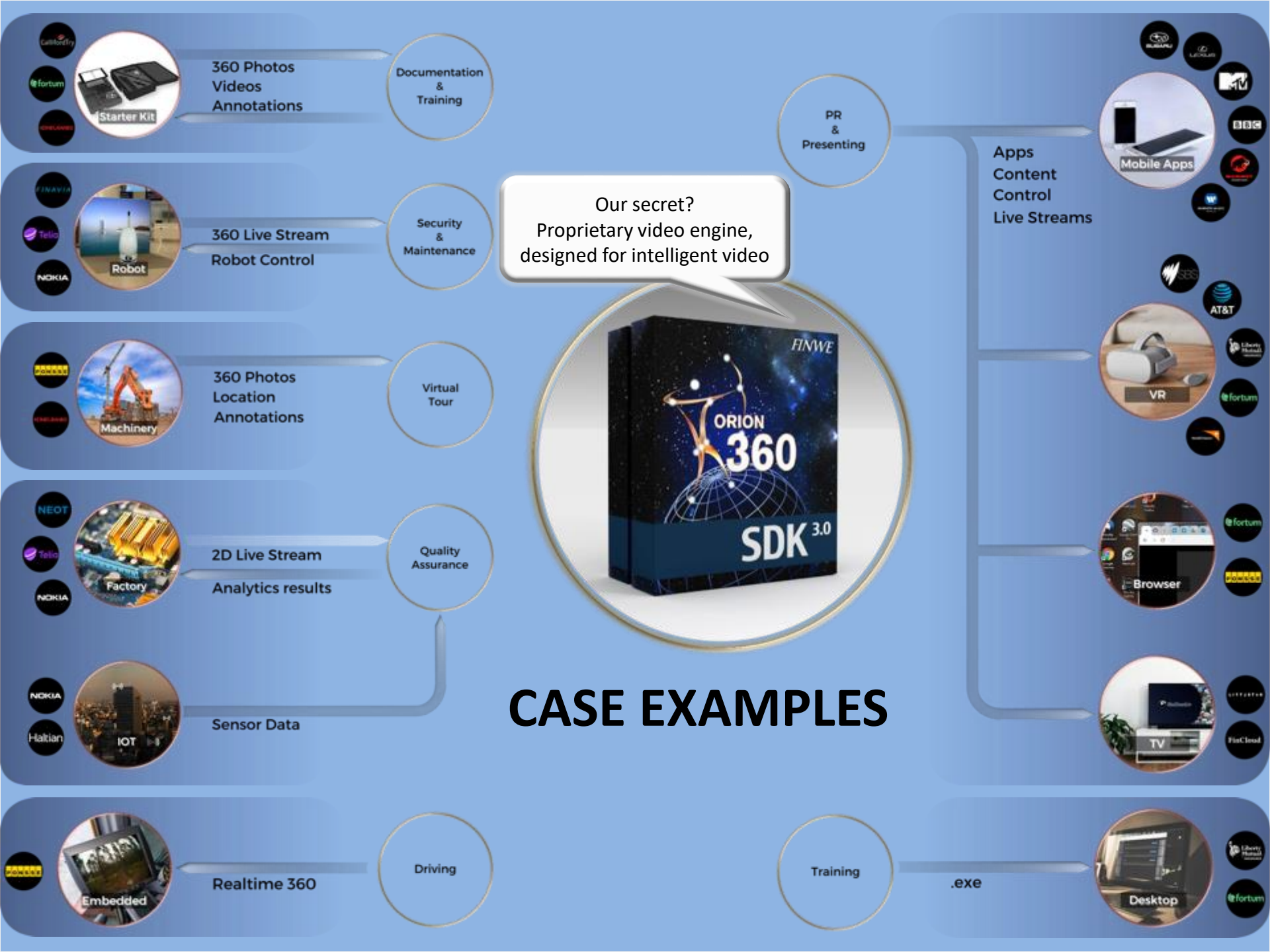
- Founded 2006, located in Oulu, 10 SW professionals
- Focused on software solutions for 2D and 360° video capture, streaming, annotation, analytics and playback

PRODUCTION

FinCloud Oy

- Founded 2012, located in Oulu, 2-6 production professionals
- Focused on video productions and camera solutions for 2D and 360° video in the media and industry sectors

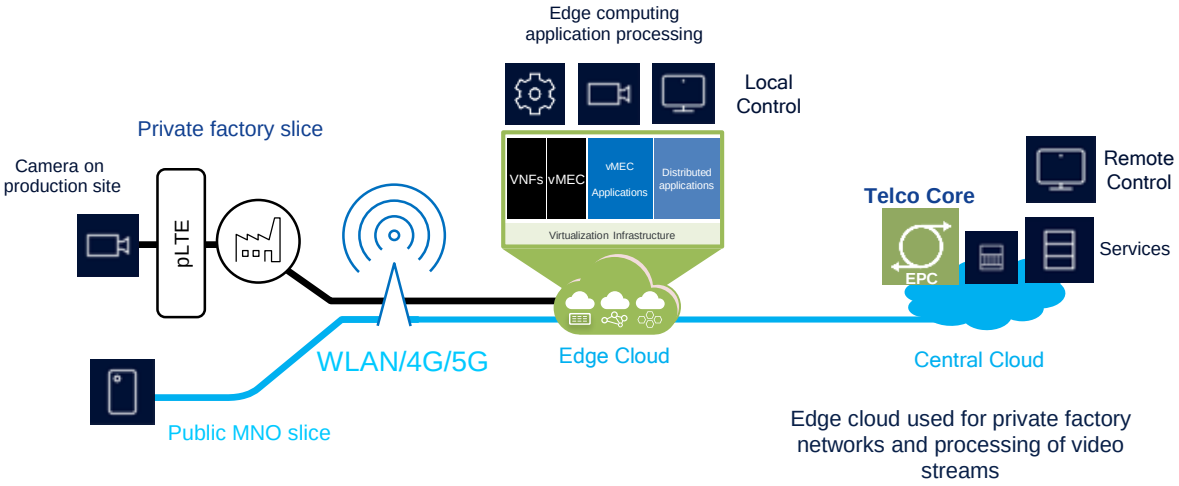
The companies work in close collaboration, providing full turn-key solutions


Starter Kit
360 Photos
Videos
Annotations
Documentation
&
Training
Robot
360 Live Stream
Robot Control
Security
&
Maintenance
Machinery
360 Photos
Location
Annotations
Virtual
Tour
Factory
2D Live Stream
Analytics results
Quality
Assurance
IOT
Sensor Data
Our secret?
Proprietary video engine,
designed for intelligent video
FINWE
ORION
360
SDK 3.0
PR
&
Presenting
Apps
Content
Control
Live Streams
Mobile Apps
VR
Browser
TV
CASE EXAMPLES
Embedded
Realtime 360
Driving
Training
.exe
Desktop

FINWE

REAL TIME VIDEO ANALYTICS IN INDUSTRIAL MANUFACTURING

Improving manufacturing development in real-time



https://www.youtube.com/watch?v=E02Bqblce7E

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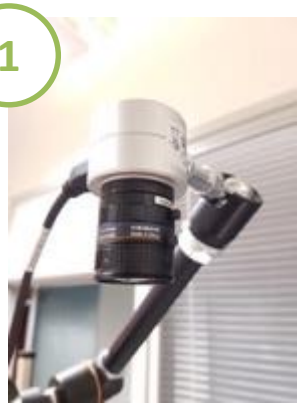
NOKIA & TELIA OSIRIS: QA with video analytics over 5G

1



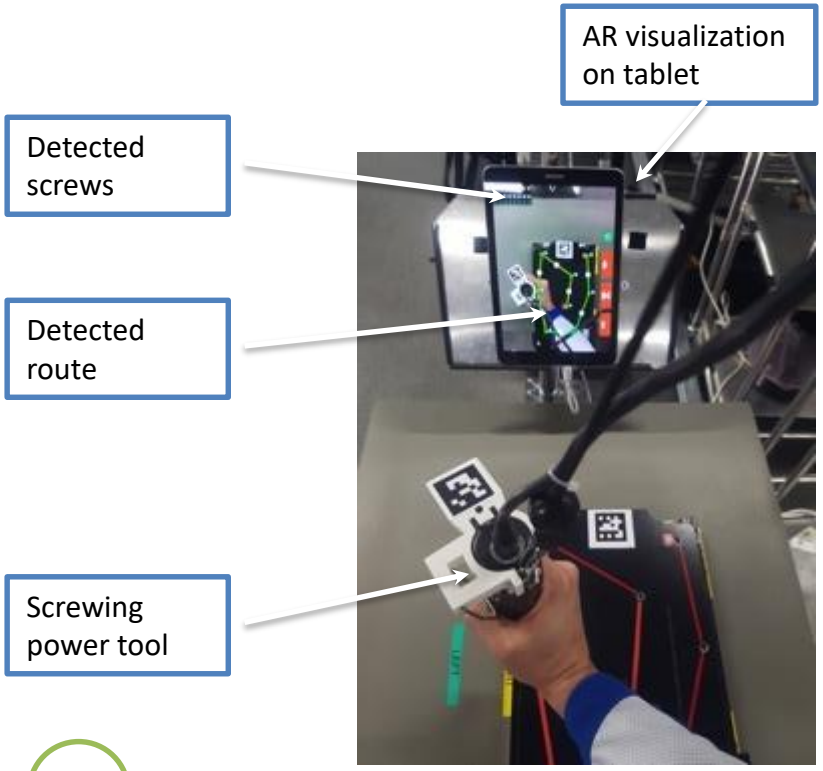
Machine vision camera over factory workbench.

2

In-house designed & 3D-printed marker and LED add-on.

4

Tablet UI for AR style guidance and assembly error alerts.



3

Server algorithm for tracking power tool usage and screw insertion, remotely over 5G.

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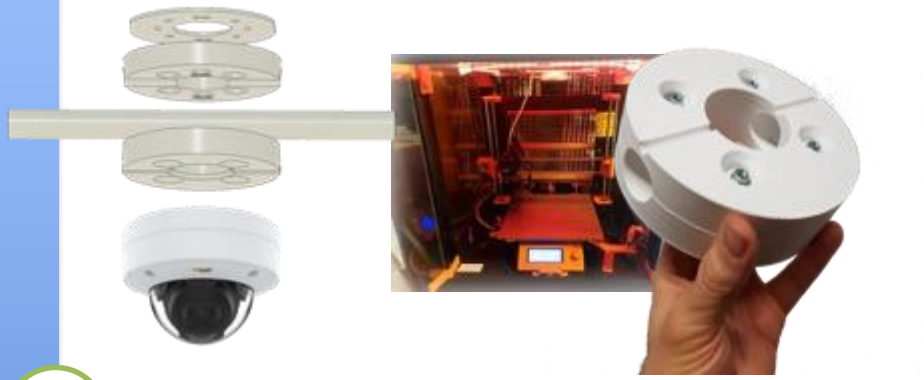
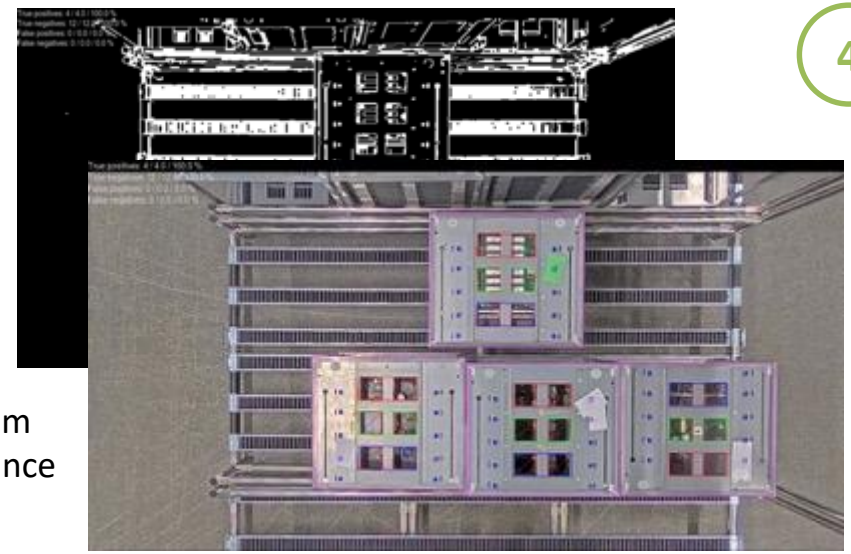
NOKIA HORUS: Factory inventory status with video analytics over 5G



1 Camera selection and setup at factory using in-house designed and 3D-printed rigs.



4 Web based visualization on a 65” touch screen TV and a 5G smartphone.

3 Streaming 4X FullHD cameras 24/7 over private 5G network.

2 Data collection, algorithm development, performance analysis, optimization.

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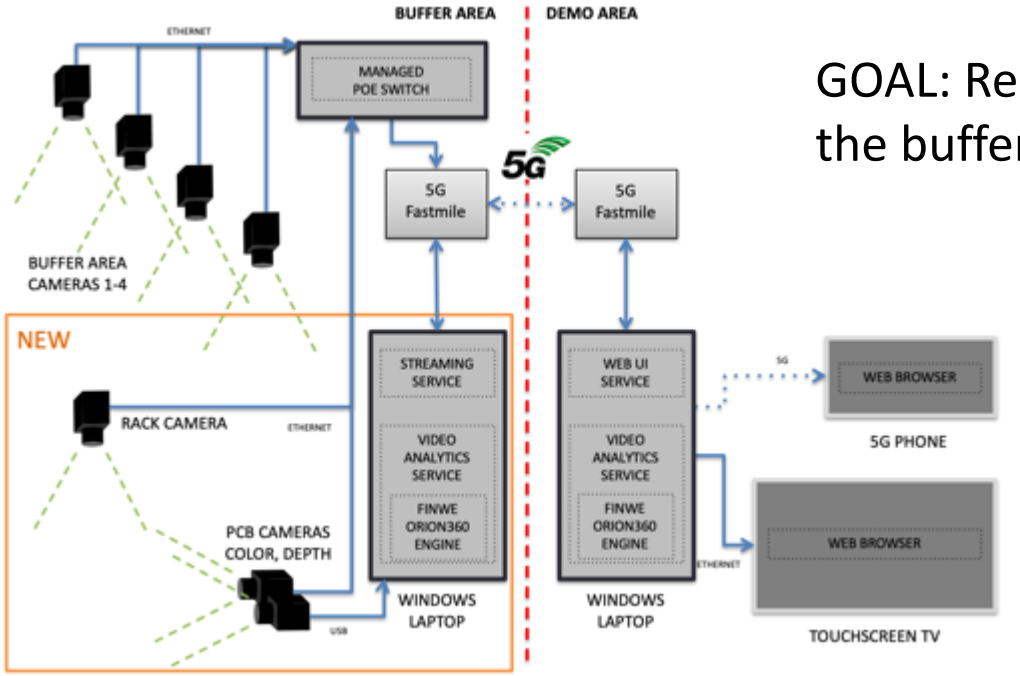
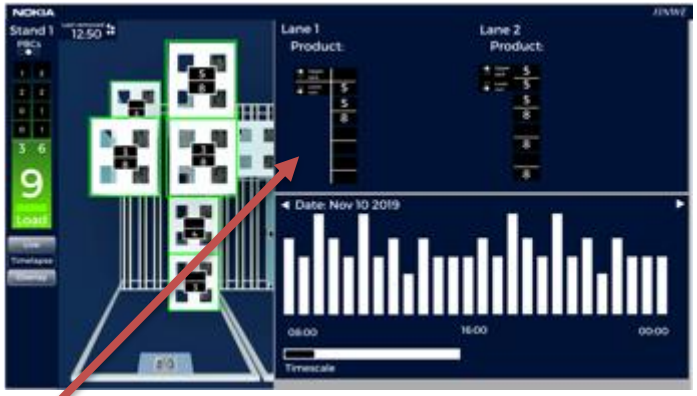
NOKIA HORUS 2: Rack buffer monitor



GOAL: Recognize and count the trays in the buffer for more accurate inventory



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NEOT & TELIA COP AI: Oil terminal QA with video analytics over 5G

1

3D-printed scale model for safe development, demoing, training.

2

Printed vehicle and loading arm markers in the oil terminal.

4

Tablet UI for alerting driver in case of incorrect loading.

3

Server algorithms for detecting vehicles and tracking loading arm connections to compartment vents.

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360° Remote Presence Solution

Manufacturing	Media & Entertainment	Energy, Oil & Gas	Public Safety
Remote maintenance Safety training Remote meetings Factory tours Robotics	Live events COVID-19 prevention Remote tours Robotics	Remote monitoring Safety training Remote tours	Remote monitoring Airports Public places Robotics

360° Camera based remote presence solution with 5G

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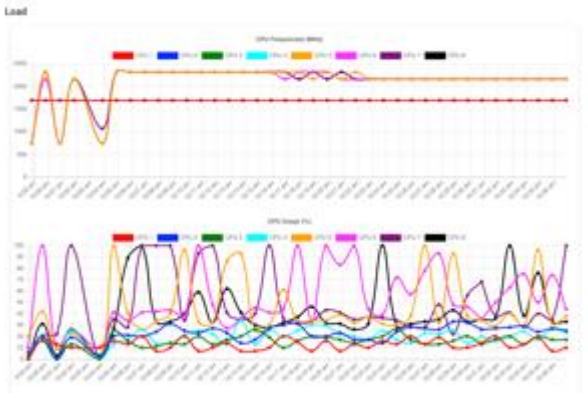
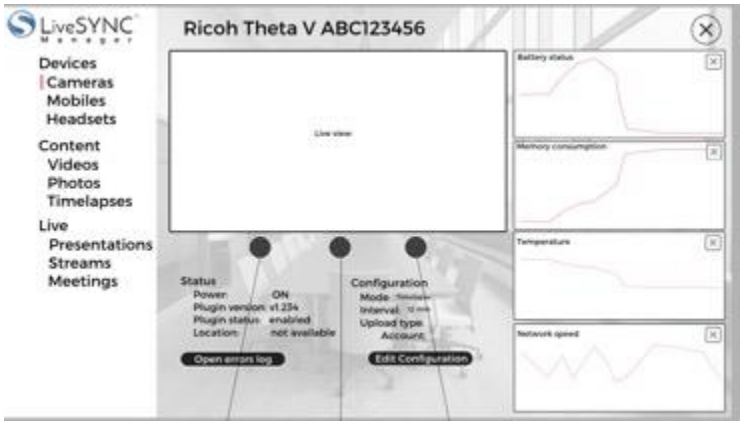
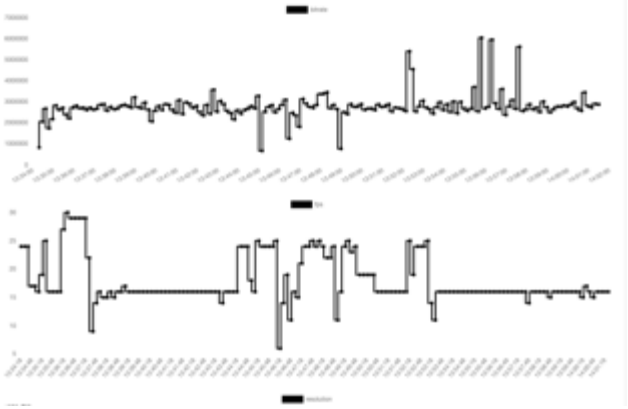
LIVESYNC MANAGER & AI CAMERA







Name

Ricoh Theta V AbcAbc

Camera model

Theta something

Serial Number

325235523552323

Camera firmware

1.12423

Ready

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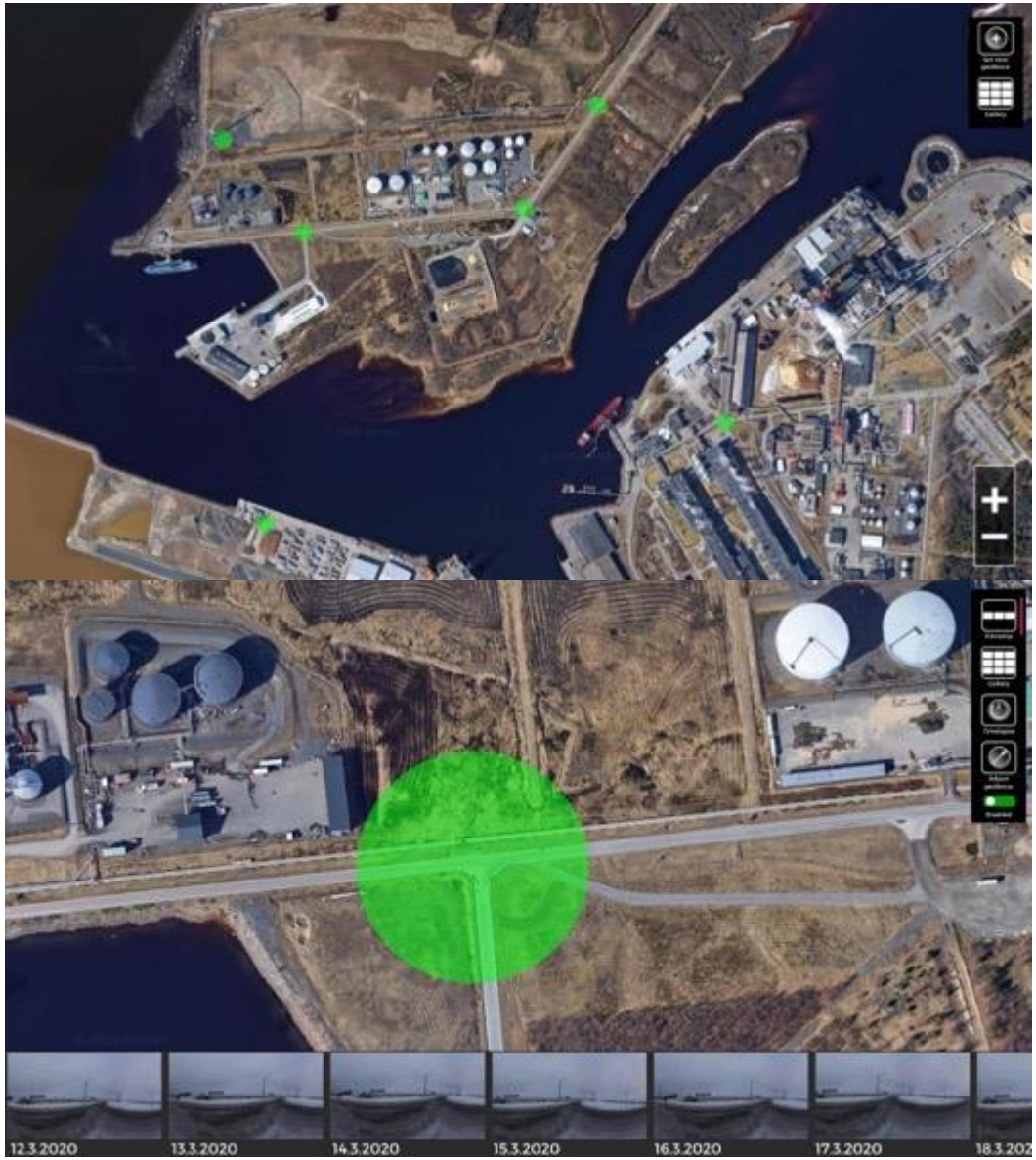
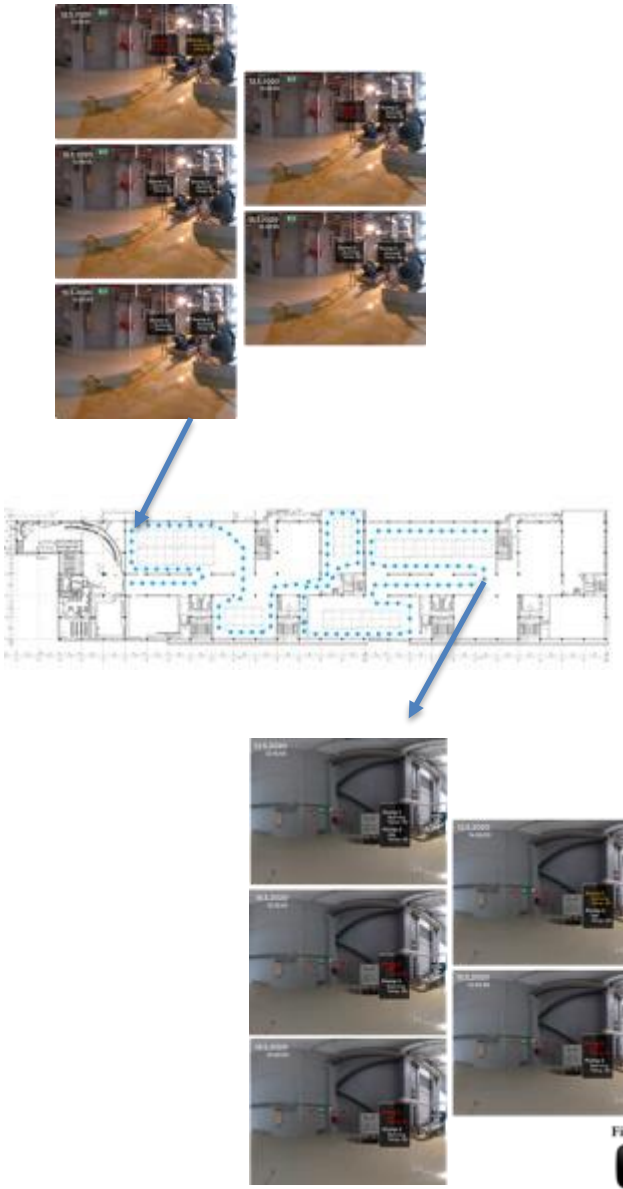
GEOLAPSE





SELECTED REFERENCES