

REJLERS FINLAND INDUSTRY

Advanced Solutions – Accelerated Operations 360

Utilizing photo model service in projects

November 11th 2020

REJLERS

HOME OF THE
LEARNING MINDS

AGENDA

Introductions

Accelerated Operations Service, Overview

Utilizing 360 photo model service in projects

Accelerated Operations Service, Demos

Wrapping it up

A long concrete bridge spans across a wide river at dusk. The sky is a mix of deep blue and orange, with some clouds. The bridge has several concrete pillars supporting it. There are some lights on the bridge, including a yellow one and a red one. The water is calm and reflects the lights and the sky. The word "INTRODUCTIONS" is written in large, white, sans-serif capital letters across the middle of the image.

INTRODUCTIONS



Our customers operate in the areas of
ENERGY, INDUSTRY, BUILDINGS and INFRASTRUCTURE

1942

Rejlers was established by the Rejler family in Sweden.

1980

Rejlers started operating in Mikkeli, Finland

2400+

The group employs over 2400 people in 4 countries.

80+

We have offices in over 80 locations in Finland, Sweden, Norway and UAE.

1000+

In Finland and UAE, Rejlers Finland employs over 1000 people.

20+

We have offices in over 20 locations in Finland.

REJLERS INDUSTRY ADVANCED SOLUTIONS

- **Plant Information Management**
 - Administration services for Engineering IT systems
- **Accelerated Documents**
 - Document management services
- **Accelerated Operations 360**
 - A photo model service developed by Rejlers Finland

➤ **Digital TECH+**





RIKU HALME

Business Line Director, Advanced Solutions

Before joining Rejlers I was with the following major companies:

- Foster Wheeler for 20 years
- AECOM for 5 years
- Neste for 5 years

Throughout my career, I have contributed to the execution of power plant projects across the globe. Project scopes have varied from retrofit projects to greenfield EPC projects. Also, many of the projects have required considerable global coordination of the extended engineering centers.

In recent years, I have worked in a PMO organization in EM, PM and Portfolio Manager roles for petrochemical project deliveries in Finland and in continental Europe.

Engineering IT has always been close to my heart. I take pride in improving the project and engineering processes for Rejlers and for our customers.



ACCELERATED OPERATIONS SERVICE OVERVIEW

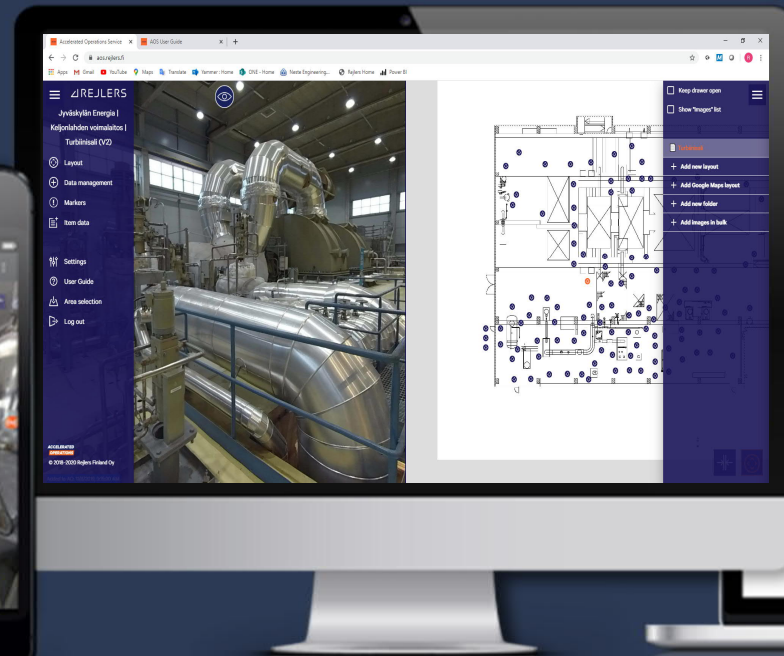
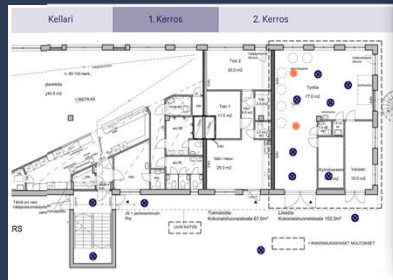
[Test the service here](#)

ACCELERATED OPERATIONS 360 SERVICE

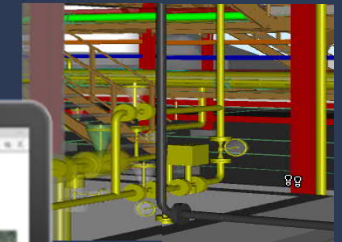
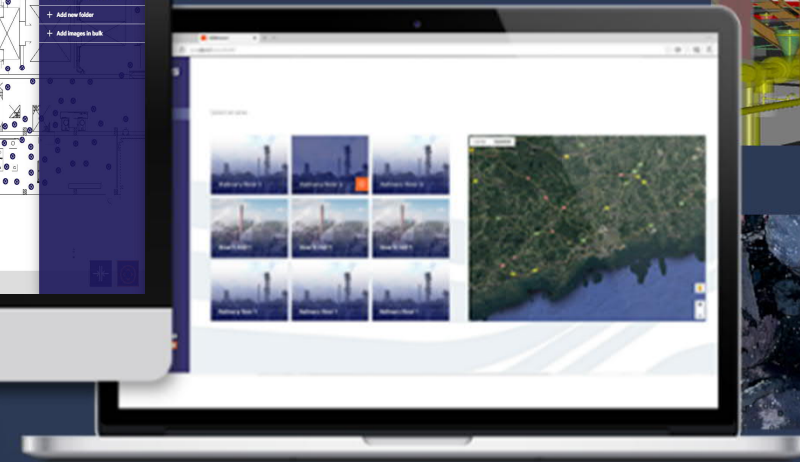
Virtual collaboration

Just released:
360° model vs.
Engineering model

Mobile & Desktop
Accelerate your
operations on site



Map view
View your fleet of
Digital twins



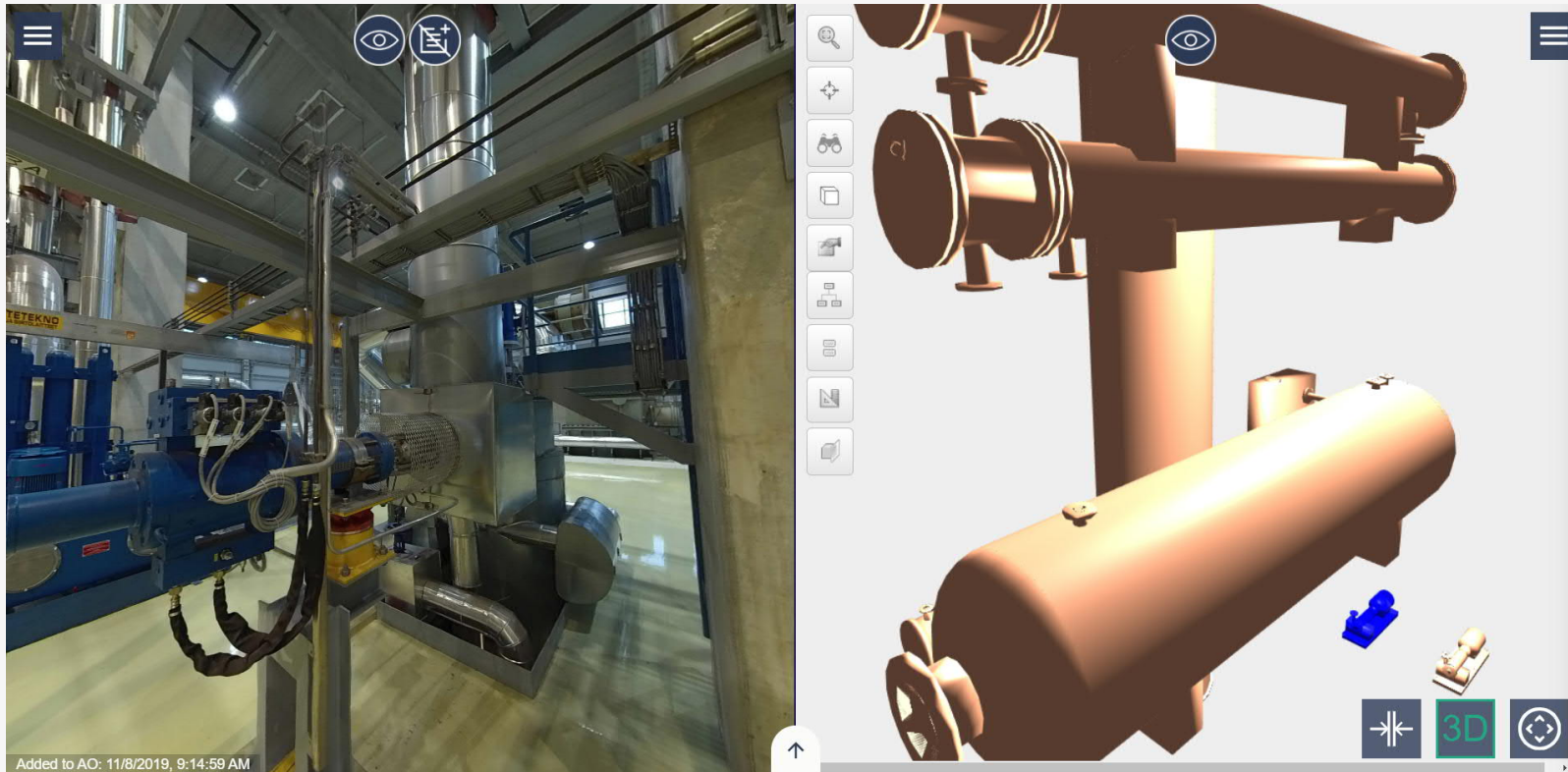
360° model
Street view type navigation

Points of Interest (PoI)
Information portal

Markers
Observations may
be reported and
communicated via email

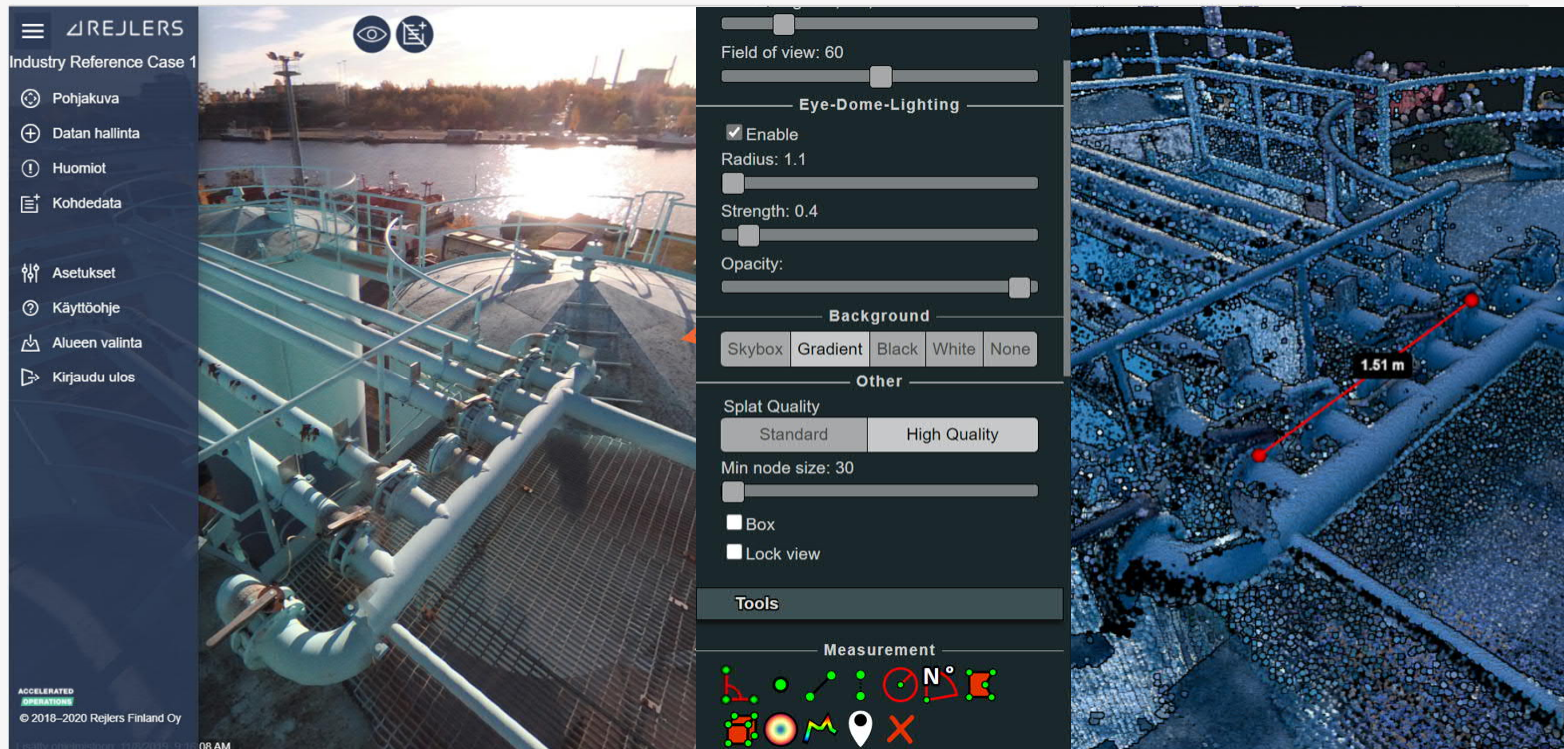
Coming soon:
360° model with Point
Clouds

ACCELERATED OPERATIONS NEW RELEASE – VIEW YOUR PLANS IN REAL WORLD



Accelerated Operations boasts a dual model mode allowing you to compare your real environment against your 3D engineering models via Navisworks viewer

ACCELERATED OPERATIONS COMING SOON – VIEW YOUR POINT CLOUDS IN AOS



Accelerated Operations will soon boasts a dual model mode allowing you to view your scanned point clouds in AOS

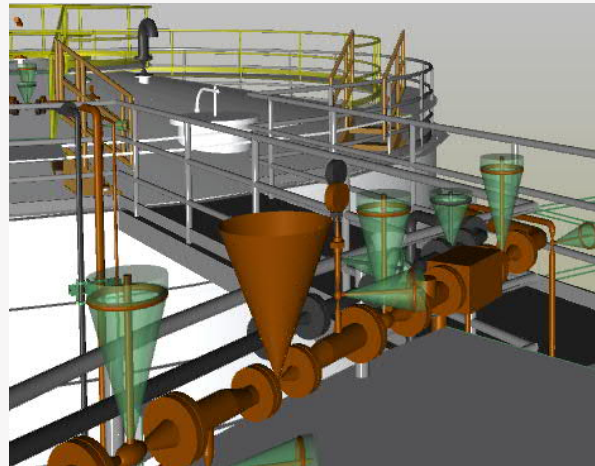
ACCELERATED OPERATIONS

COMBINING THE VIEWS GETS YOU 1080

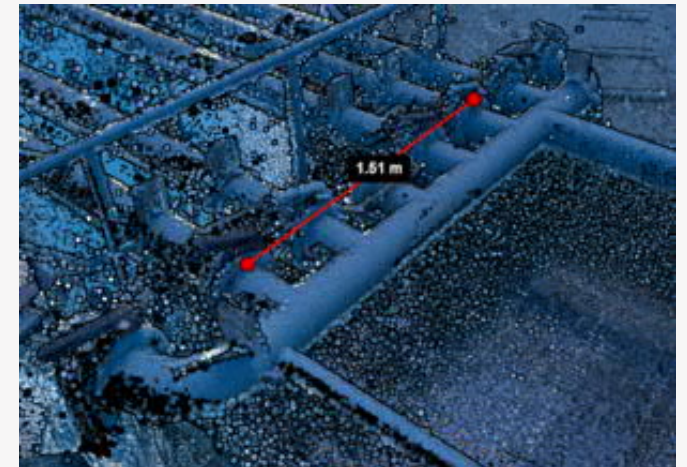
360 PHOTO MODEL




ENGINEERING MODEL



POINT CLOUDS





UTILIZING 360 PHOTO MODEL SERVICE IN PROJECTS



**INDUSTRIAL
PROJECTS**



**BUILDING
PROJECTS**



**INDUSTRIAL
MAINTENANCE**

USE CASES & REFERENCES

△REJLERS



**TO BE UNVEILED
SOON...**



**TAMPEREEN
TILAPALVELUT OY**

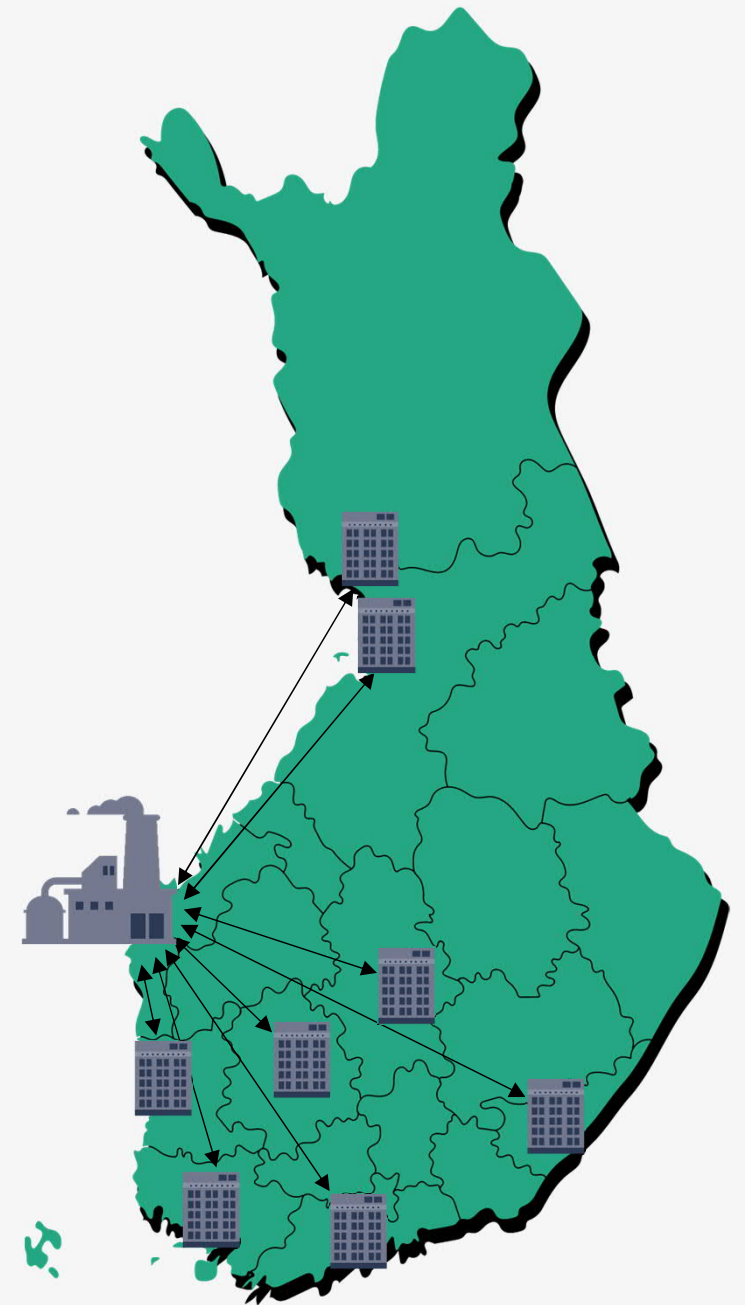


BOREALIS

UTILIZING THE SERVICE IN PROJECTS

CUSTOMER CASE – REJLERS

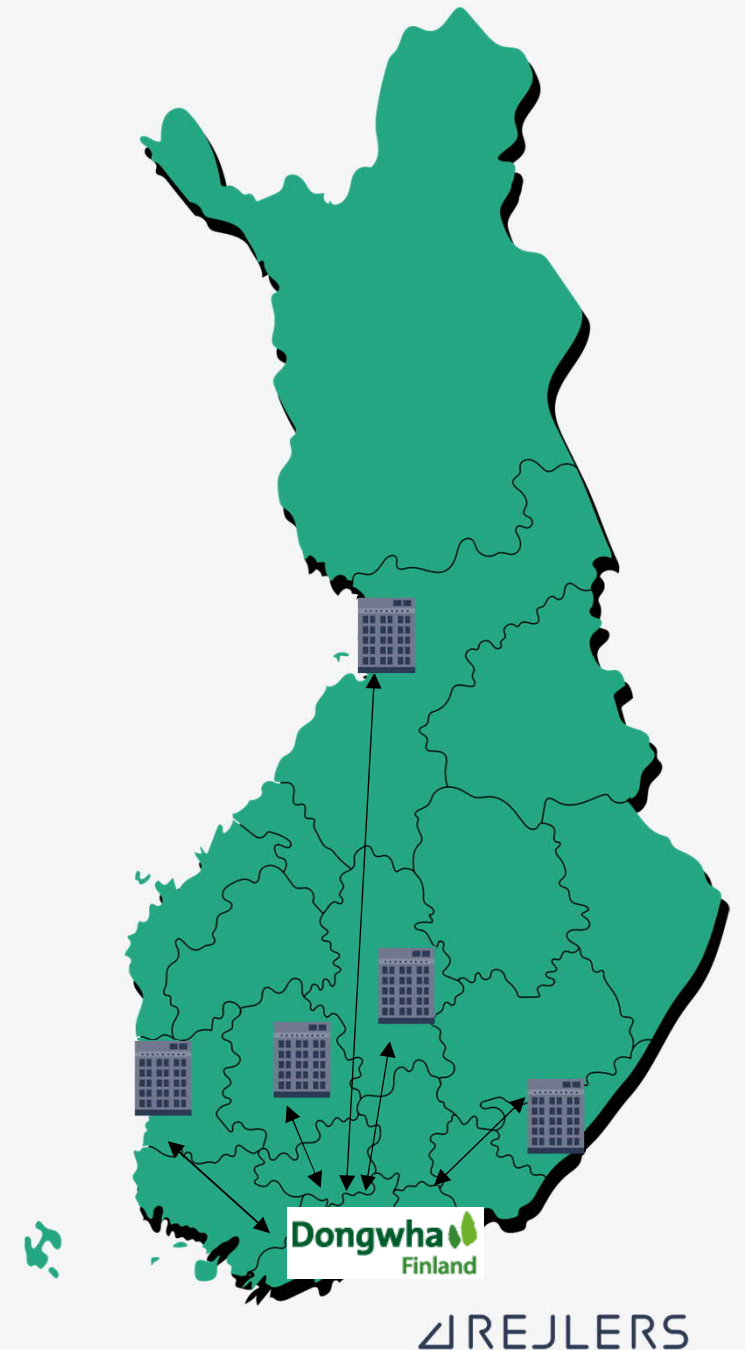
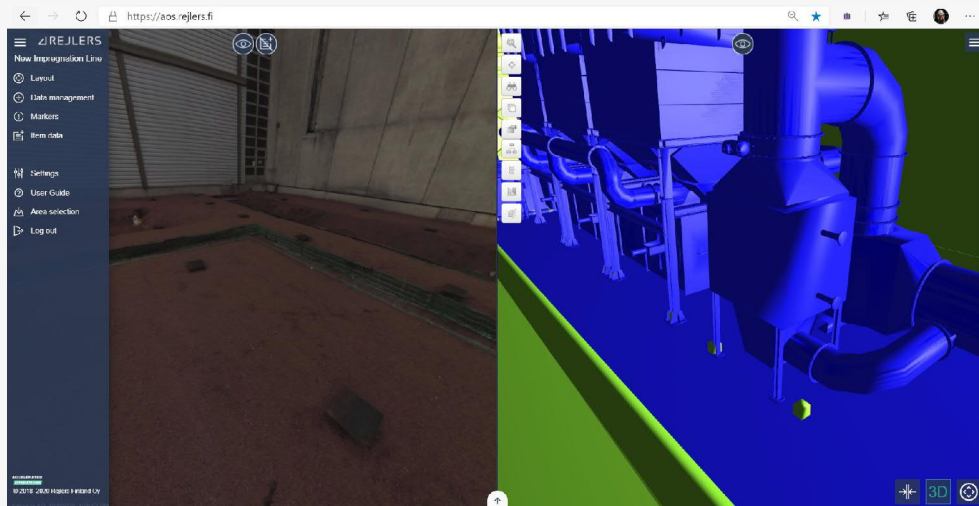
1. Rejlers PM mobilizes during the proposal phase creating a model. The 360 service replaces the traditional photos and goes way beyond. All our offices have a 360 camera.
2. All discipline leads have the model available resulting better and more accurate estimates.
3. During the project execution phase all stakeholders have the same view w/o visiting the project site!



UTILIZING THE SERVICE IN PROJECTS

CUSTOMER CASE – REJLERS

1. Site visits are restricted in frequency, number of visitors and duration due to Covid-19.
2. One person shoots a new set of 360 photos weekly. Model is refreshed accordingly.
3. All stakeholders obtain an up-to-date view



UTILIZING THE SERVICE IN PROJECTS

CUSTOMER CASE – REMOTE FAT



Their customer resides in the US

AOS FAT



An equipment company in Northern Europe



Their fabrication facility in Southern Europe.

Rejlers' AOS Solution:

The customer conducted the Factory Acceptance Tests in the AO Service. All observations were noted into the model.

UTILIZING THE SERVICE IN PROJECTS

CUSTOMER CASE – REMOTE PROJECT SITE

A European company had a prospect in Australia.



They couldn't travel to the site due to Covid-19. Their local rep visited the site and took pictures.

A model was built and the entire project team gained a view to the project.

AOS

Rejlers' AOS Solution:

The model was used for the detail planning and communication starting from the proposal phase.



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UTILIZING THE SERVICE IN PROJECTS

CUSTOMER CASE – IOT DASHBOARD

IoT concrete humidity sensors may be viewed within the service to determine when the linoleum flooring may be applied.



UTILIZING THE SERVICE IN PROJECTS

CUSTOMER CASE – TIME LAPSE



Capture all milestones in your project

You may always go back in time and see what's behind the drywall



ACCELERATED OPERATIONS SERVICE DEMOS

ACCELERATED OPERATIONS 360 DEMOS

Tank farm

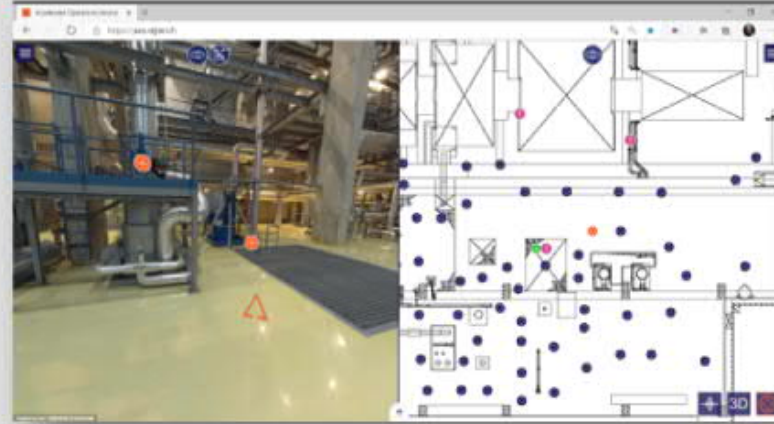
Main benefits to be shown:

- Project execution planning
- Eliminate site visits

Power plant turbine hall

Main benefits to be shown:

- Maintenance planning
- Observations



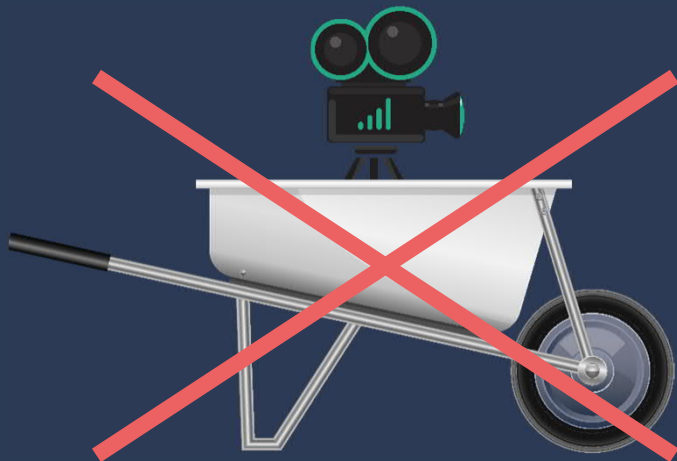


WRAPPING IT UP

ACCELERATED OPERATIONS AGILE AND AFFORDABLE EQUIPMENT

Standard 360 camera equipment about 1 000 €

- Extremely portable
- Available at your local consumer electronics store



Rejlers
tarjoaa

360

asteen näkyvyyttä
työmaakohteisiin

glomaskohteisiin
asteen näkyvyyttä

390

tarjoaa
Rejlers

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HOW TO GET STARTED QUICK LAUNCH PILOT

Total cost
1 500 €

Rejlers will come over
to your site for 1 day

Service fee for the
first month is included

Domestic travel
expenses are included

Rejlers support
is available

After the first month
an agreement for the
service may be signed

Shoot photos

**Process the photos and build
a model**

**Hands-on training will be
provided at the same time**

ACCELERATED OPERATIONS 360

RECENT PUBLICATIONS

Remote view flyer



Tekniikka&Talous magazine on
Sept 4th 2020



Tampereen Tilapalvelut
testimonial

Rejlersin digitaalinen 360-
kuvamallipalvelu Accelerated Operations
valvoo ja tallentaa rakennushankkeet
Tampereella



ACCELERATED OPERATIONS 360

SUMMARY

- Agile and affordable service and equipment
 - Model can be created and launched in a matter of hours
 - Monthly service fee 400 € takes you a long way
 - Camera equipment about 1 000 €
- Eliminates travel, fights Covid-19
- Data portal and observations
- Combined views
 - Photo model
 - Engineering model
 - Point clouds
- Hit the ground running with our Quick Launch Pilot!

BREAKING NEWS

Valmet has chosen to utilize **Accelerated Operations Service** in its Project Operations including the **Naistenlahti 3** project.

NAISTENLAHTI 3

➔ **Uuden ajan
biolaitos Tampereelle**

THANK YOU

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