

Tieto Real Time Factory

tieto



Imagine 30% business performance increase from information driven industrial production, processes and services over the lifecycle?





MAIN VIEW

OPERATING VIEW

MAINTENANCE

FAULT REPORTS

FACTORY LAYOUT



OPTIMIZE WITH

ORFER



ORFER IOT

Latest error 17h ago

Free capacity available

ORFER ADC
AutomatedDataCollector

Based on ITechnology

ORFER CDC

CloudDataCollector

Global Coverage

ORFER BDC

BasicDataCollector

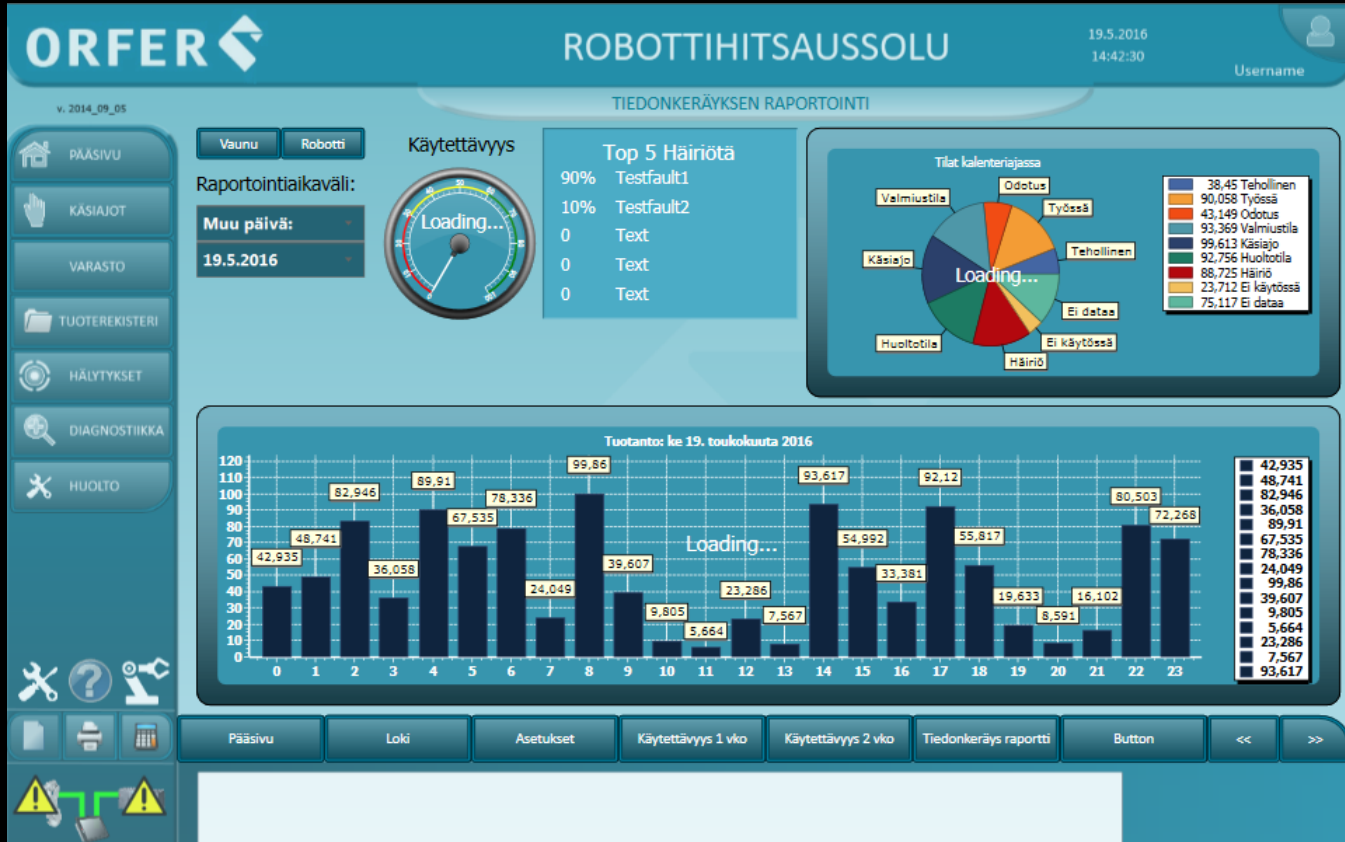
Powered by TIETO

Availability

Line speed

Overall Efficiency

Conditions

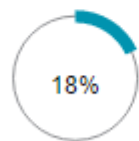
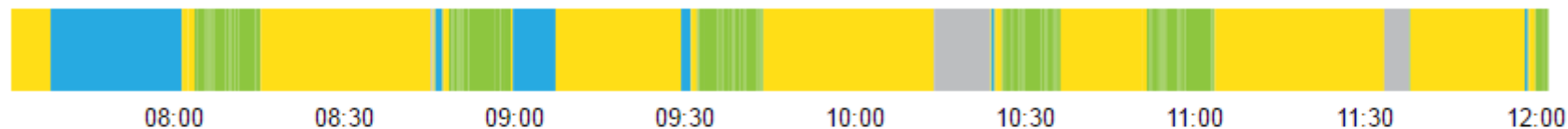


Close

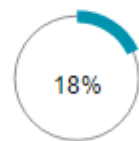


FWC_WELDING

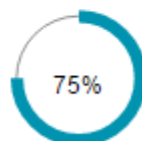
Show in pin



UTILIZATION



FULL UTILIZATION



AVAILABILITY

OEE DAILY OPERATING TIME:

8 hours

16 hours

24 hours

OEE TIME PERIOD:

2 weeks

1 week

1 day

FWC_MOUNTING

Show in pin



FACTORY VIEW

MACHINE VIEW

ORFER FACTORY LAYOUT
ORIMATTILA
VAAKATIE 9 A



● MANUAL ● AUTO ● IDLE ● ALARM ● PWR OFF

UTILIZATION %
FULL UTILIZATION %
AVAILABILITY %

Info pin OEE selection



FACTORY VIEW

MACHINE VIEW

ORFER FACTORY LAYOUT
ORIMATTILA
VAAKATIE 9 A

FWC



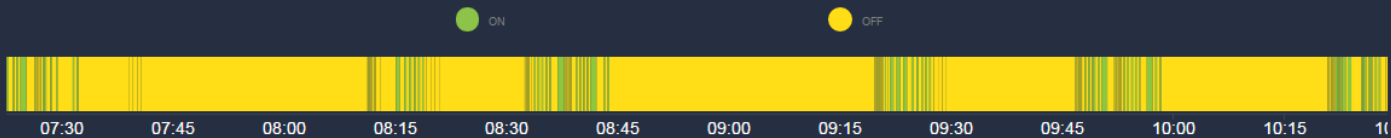
WELDING ARC TIME RATIO



WELDING ARC STATUS



WELDING ARC STATUS HISTORY



ORFER IOT

CARE
WE CARE 24/7

FAT
capacity

RUN UP
productivity
GAP

2 nd
year
+
10%



SAT
availability

QUARANTEE
utilization

3 rd
year
+ 6%



This is Kempppi

Established
1949

Private
family-
owned
company

Global
revenue 114
MEUR

CEO
Mr. Anssi
Rantasalo

Parent
company:
Kempppi Group
Oy

Executive
Chairman of
the Board
Mr. Antti
Kempppi

16
subsidiaries
globally

Headquarter
in Lahti,
Finland

649 people in
16 different
countries

Executive
Chairman of
the Board
Mrs. Teresa
Kempppi-
Vasama



Trends in Welding industry



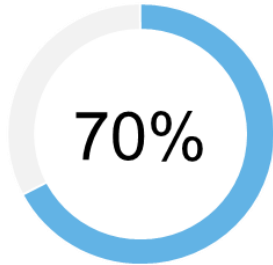
Kemppi Welding Management Solution



WeldEye

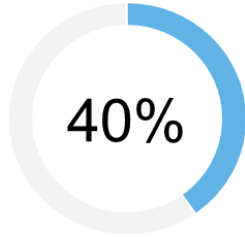
WeldEye is a solution to manage welding, quality and documentation

WeldEye benefits

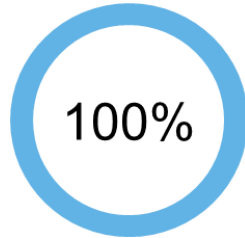


FASTER DOCUMENTATION PROCESS

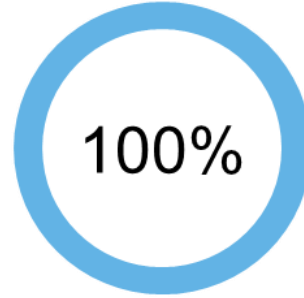
Due to digitally collected, as-built data



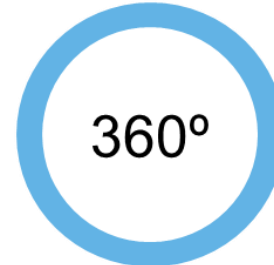
REDUCED REPAIR RATES
Through transparency in welding



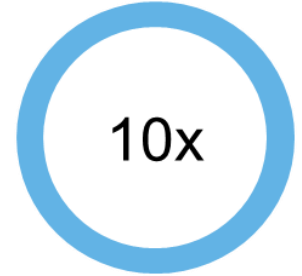
WPS AND QUALIFICATION MANAGEMENT
With one solution



TRACEABLE WPS COMPLIANCE
For your safety and peace-of-mind

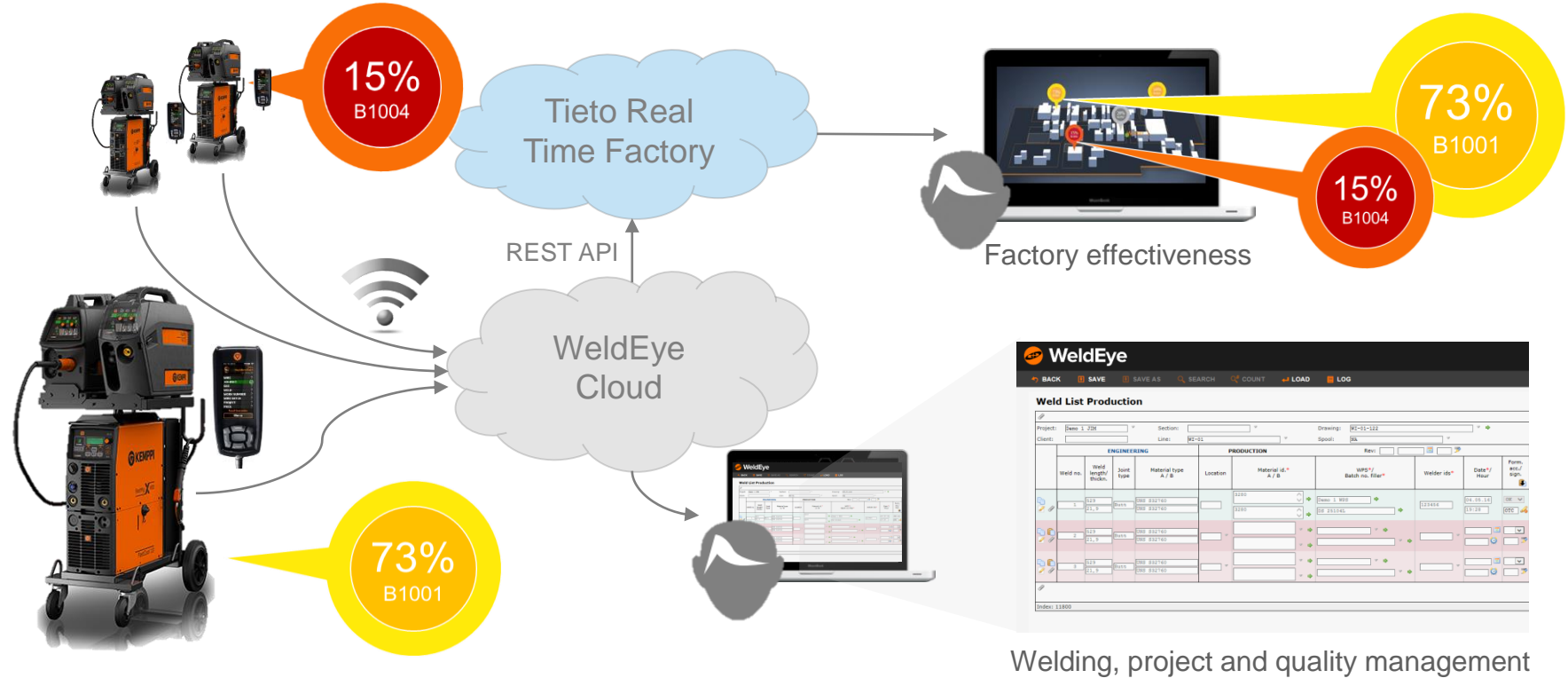


VIEW OF YOUR WELDING PRODUCTIONS
For better project management and resource control



FASTER QUALIFICATION AND PROLOGNATION
Compared to traditional methods

Technical structure of Tieto Real Time Factory and Kemppi WeldEye connectivity



Tieto Real Time Factory

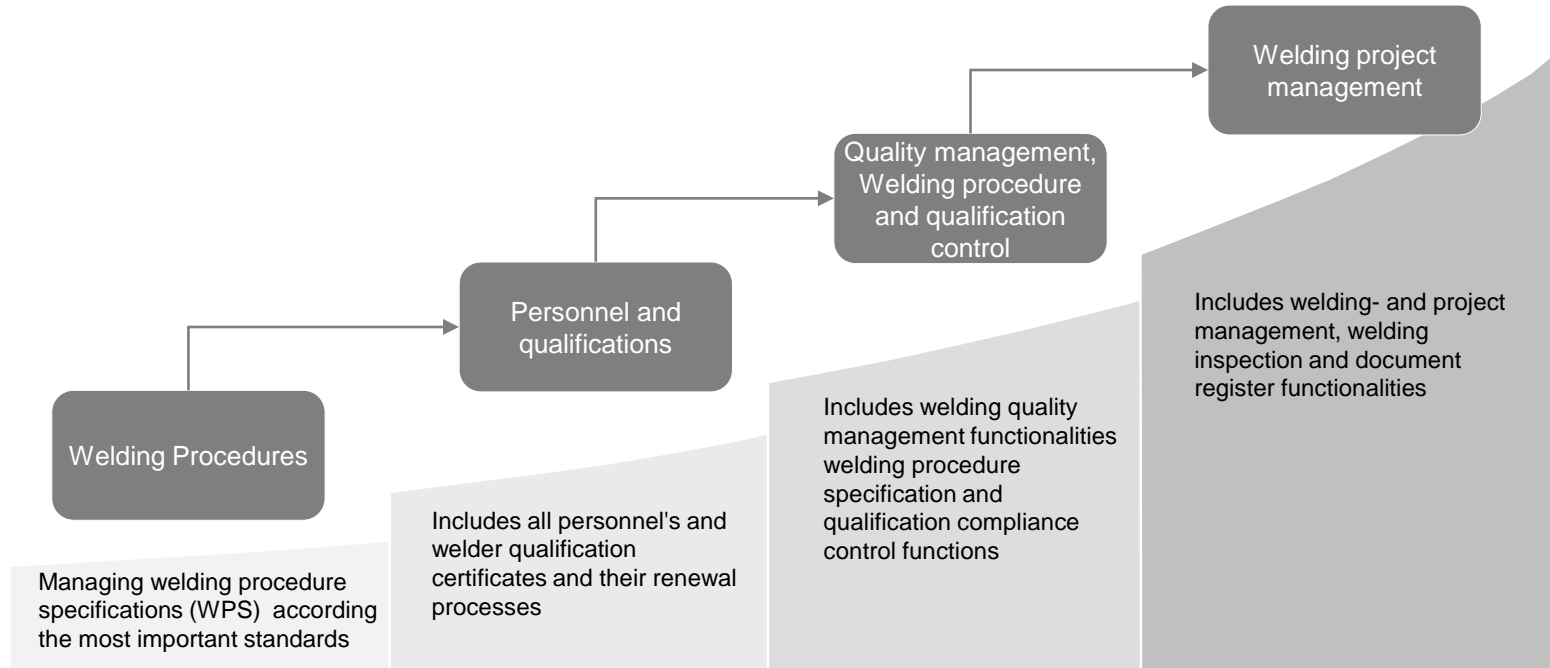
Provides **technology agnostic software automation** on top of any existing production and process control systems, including ERP. Machine to machine connectivity enables new levels of **optimization** and creates **space for innovation** for any enterprise.

Industry 4.0 Requires One solution – from Multiple Vendors

- 1 Your case is unique
- 2 Implement a change not a technology
- 3 Monetize the data
- 4 Build to change, select open approach

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WeldEye is a solution to manage welding, quality control and documentation



WeldEye – Expected impacts to welding related processes

Welding monitoring and WPS compliance control

Improved repair-rate through the transparency

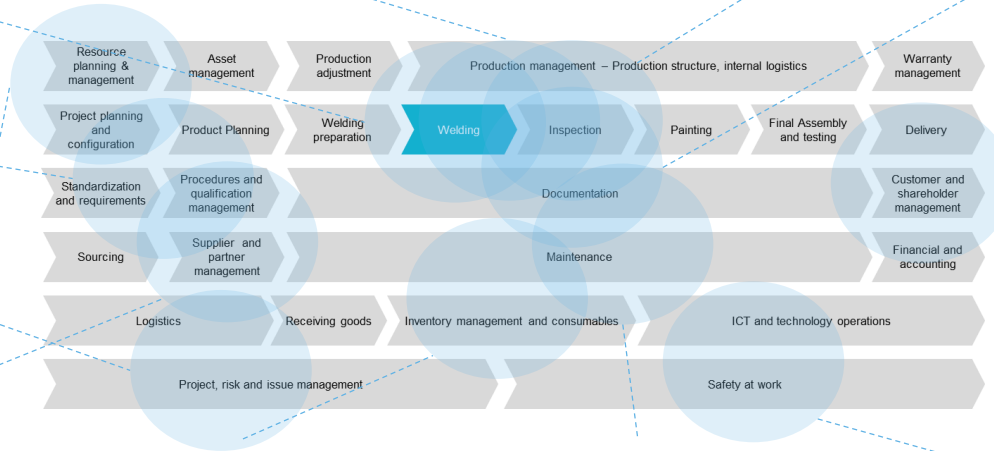
Improved Information management for Inspectors

Automatized documentation processes

Improved WPS management and prolongation processes

Improved production planning and management through the more efficient reporting

Transparency to sub-contractors welding processes



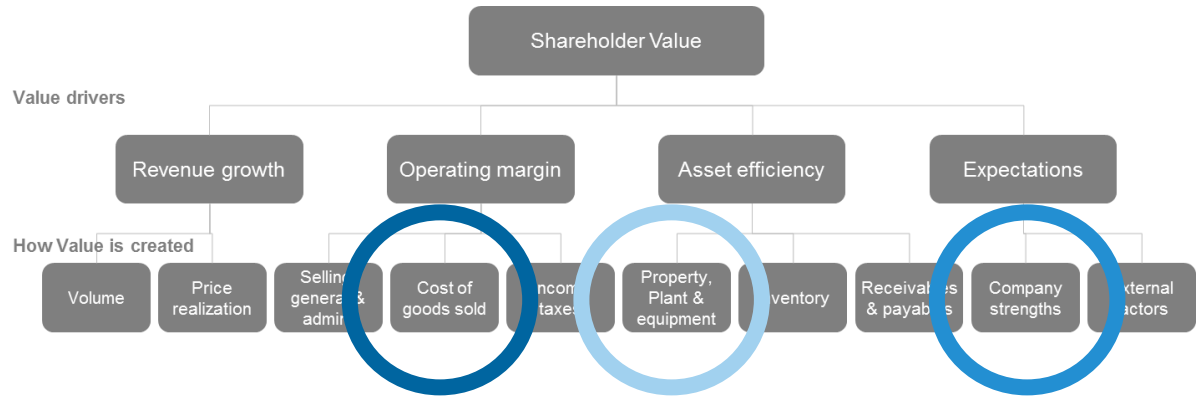
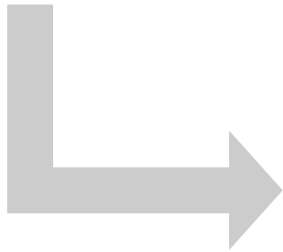
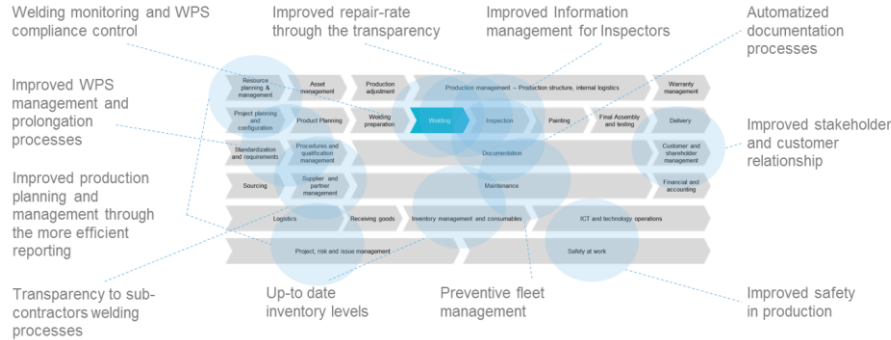
Improved stakeholder and customer relationship

Up-to date inventory levels

Preventive fleet management

Improved safety in production

WeldEye – Value proposition areas



Predictive business value impacts, always based on real situation at hand

Real Time Data

Utilize the information from different layers, ERP, Automation, Humans

Tracking & Tracing

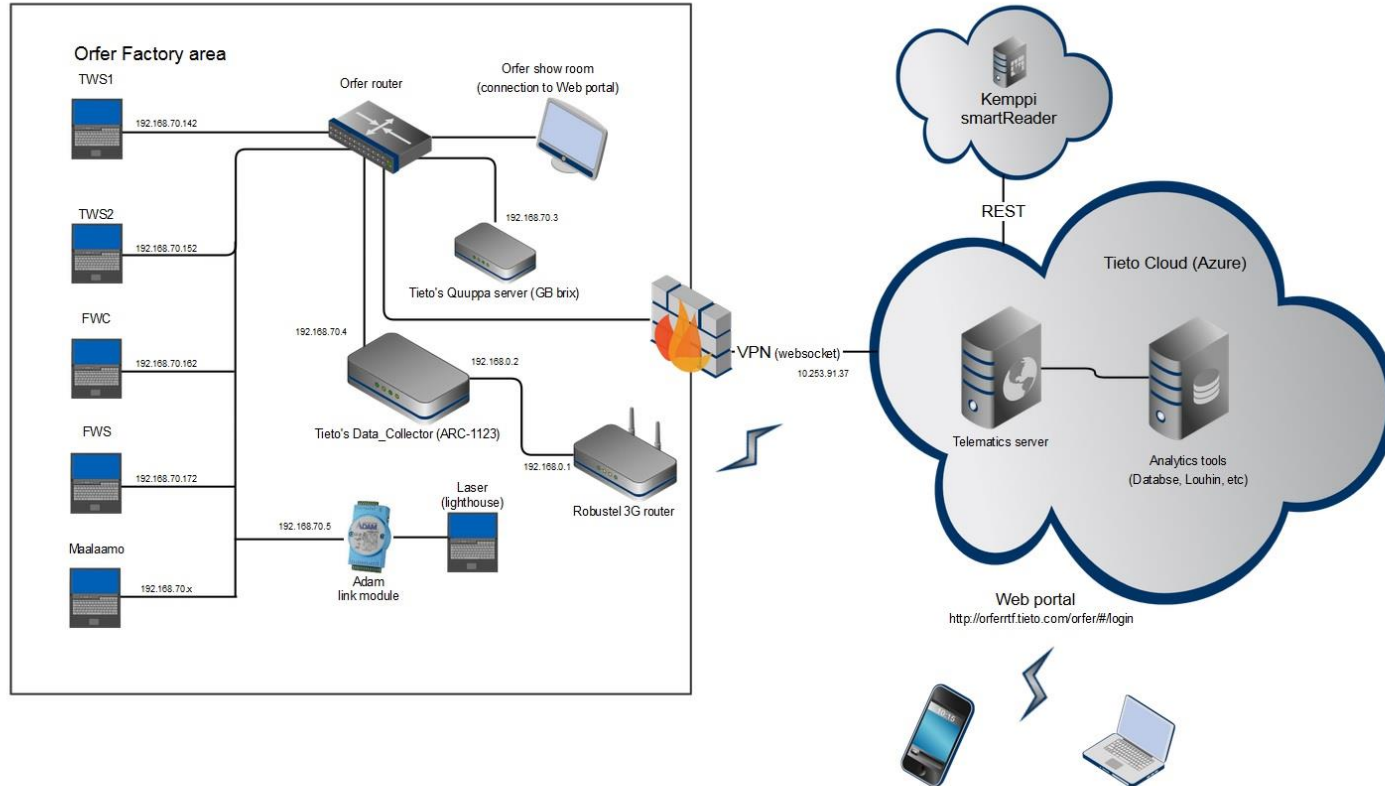
Track your Tools, Vehicles, People and Materials

Work Context Specific Orders

Work orders are dynamic and changes according the availability

Modern Human Interfaces

Minimized risks and human errors in high security environment



MADE IN FINLAND



OPTIMIZED BY

ORFER

