Toepassing van instructie software op smart safety glasses

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Interreg - wearables

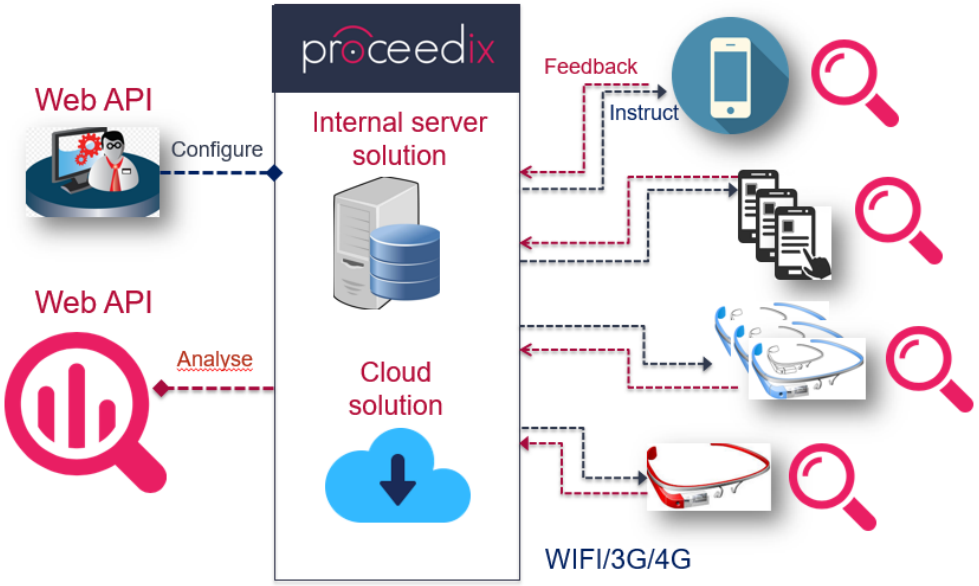
Your procedures, work instructions and checks finally made paperless and mobile

What we do: we remove paper on the factory floor

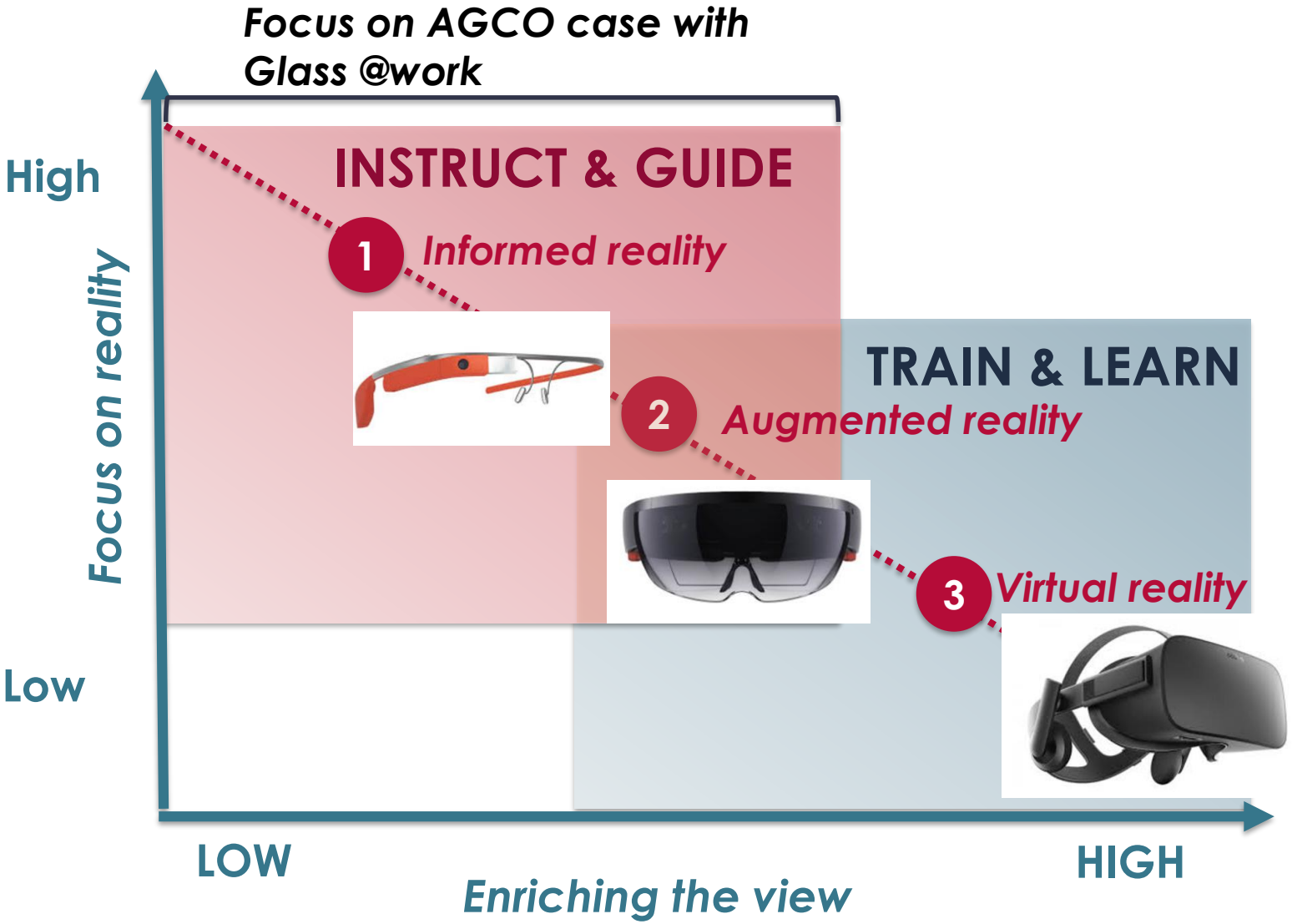
Our solution: Proceedix is a central platform to manage enterprise procedures, work instructions and inspections in an easy way, while making the remote execution paperless and mobile

Our mission: mobilize people and enable them to handle even their most complex processes away from their desk.

Partnerships: Glass, Iristick



Every reality has its own glasses, its own applications



Short introduction - AGCO

AGCO
Your Agriculture Company

Sector: Manufacturer
Products: agricultural equipment, tractors, combines, sprayers, hay tools
Revenue: 10 billion USD
HQ: Georgia, USA
Employees: +17.000

Wearable project
Plant: Jackson, USA
Employees: 1.000
Company culture: strong engagement of employees, continuous improvement & lean, collaboration

AGCO use case with Glass

In 2013, AGCO started the transition towards a digital factory

Paper factory (90-99%)

Digital factory (1-10%)

- ☒ Compliance
- ☒ Lean : first time right
- ☒ Work force evolution

- ☑ Industry 4.0 (IoT)
- ☑ Wearables wave
- ☑ UX mind set

"The wearable journey"

2013: the digital enterprise

- Paper-free
- Hardware issues
- Google Glass announcement

2014: application research

Zero = # applications on the market for manufacturing

- Proceedix
- Prove the usability of Google Glass (in corporation with 3M)

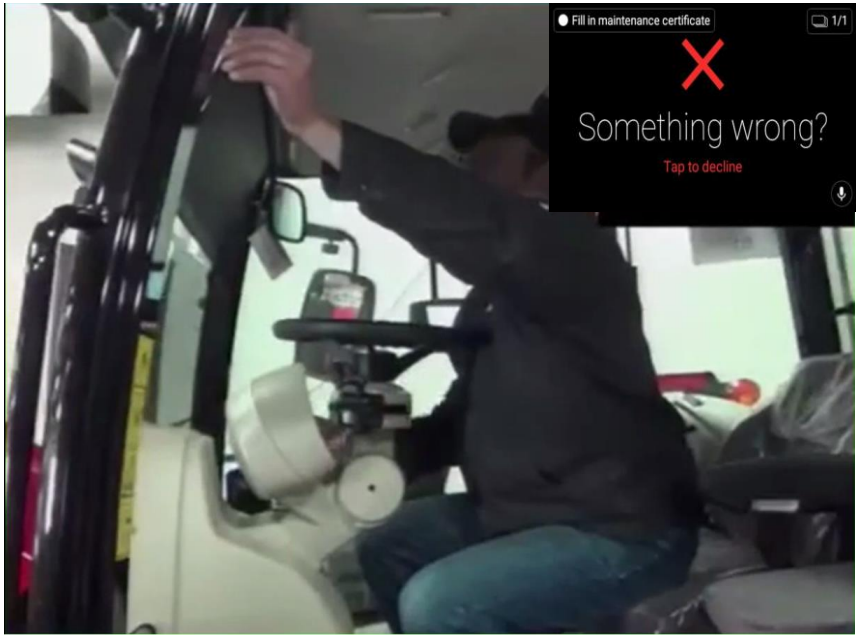
2015-2016: pilot

- Quality inspection
- Paint preparation
- Work assembly

2017: the connected enterprise

Glass in quality control

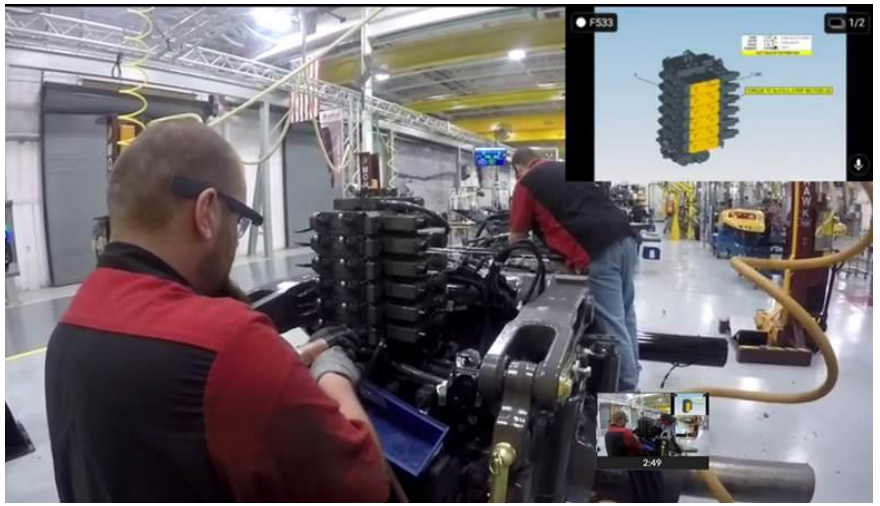
- Operators are now following quality checklists that are **tailor-made** for the type of unit they are inspecting (SRN)
- **Pictures and videos** can be recorded in a hands-free environment and are directly added to the unit's documentation through the use of the Proceedix Action Management system.
- When an operator **detects an issue**, they are able to assign an action within the system to an appropriate party to have it addressed immediately. (NCR)
- Interface to QMS



Bring work instructions to the operator with Glass

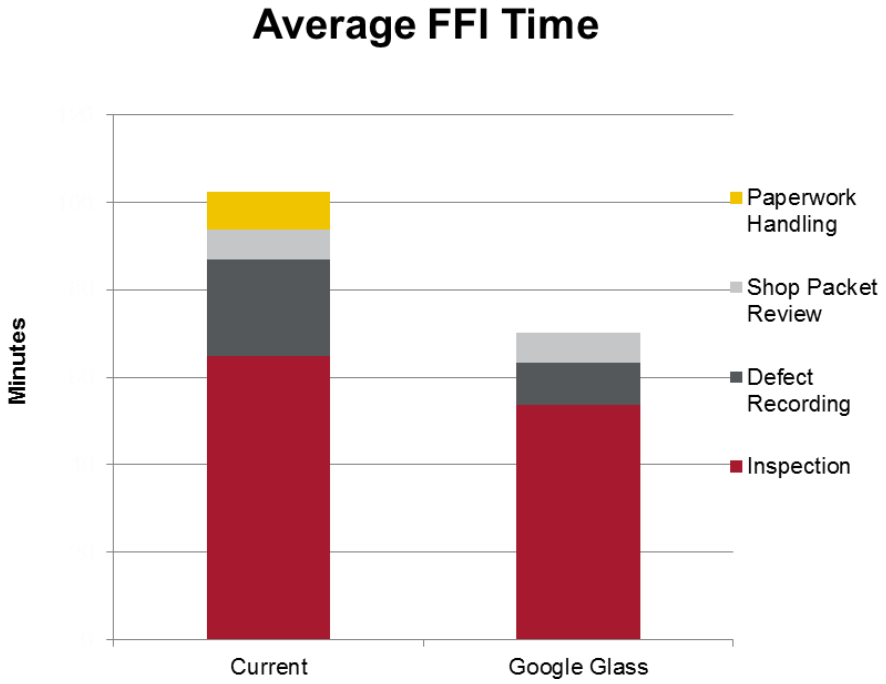
- Takt time: 70 minutes/tractor
- Every item has different configuration

- Work instructions
  - Previous: standard work instructions (SWI) are consulted on PCs more than 5 meters from paint preparation work
  - Current: Glass displays the same information exactly where the user needs it



Business case - advantages

Quality control

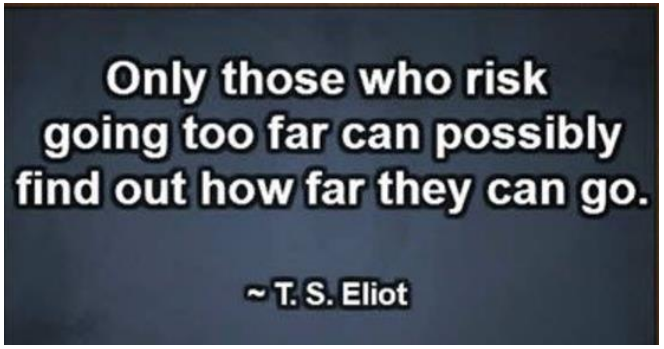


30% reduction per unit

Work instructions

- ☑ Manufacturing traceability
- ☑ Cross-functional execution and expertise
- ☑ 50% reduction in learning curve duration *(average reduction in total cycle time during learning curve is 25%)*
- ☑ Reduced quality issues, defects *(50% reduction on defects created during learning curve period)*
- ☑ 25-35% time savings

- Lessons learnt
  - Step by step implementation: learn fast, fail cheap
  - Connected enterprise
  - Combined solutions: tablet, glass, PCs
  - Every reality for their application: training vs. work floor



- Further exploring the potential of smart glasses
  - Field services
  - Supply chain logistics (inventory management, receiving, picking)

Want to know more?

Read more : www.proceedix.com
Watch : https://www.youtube.com/watch?v=WhnZlNitEKg
Watch : https://www.youtube.com/watch?v=eJuVCY1W4RY
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