Fachtagung Evinger Schloss

Mobile und dezentrale Arbeitsunterstützung
mit 5G und XR

Marc Cremers, March 15, 2023

Agenda

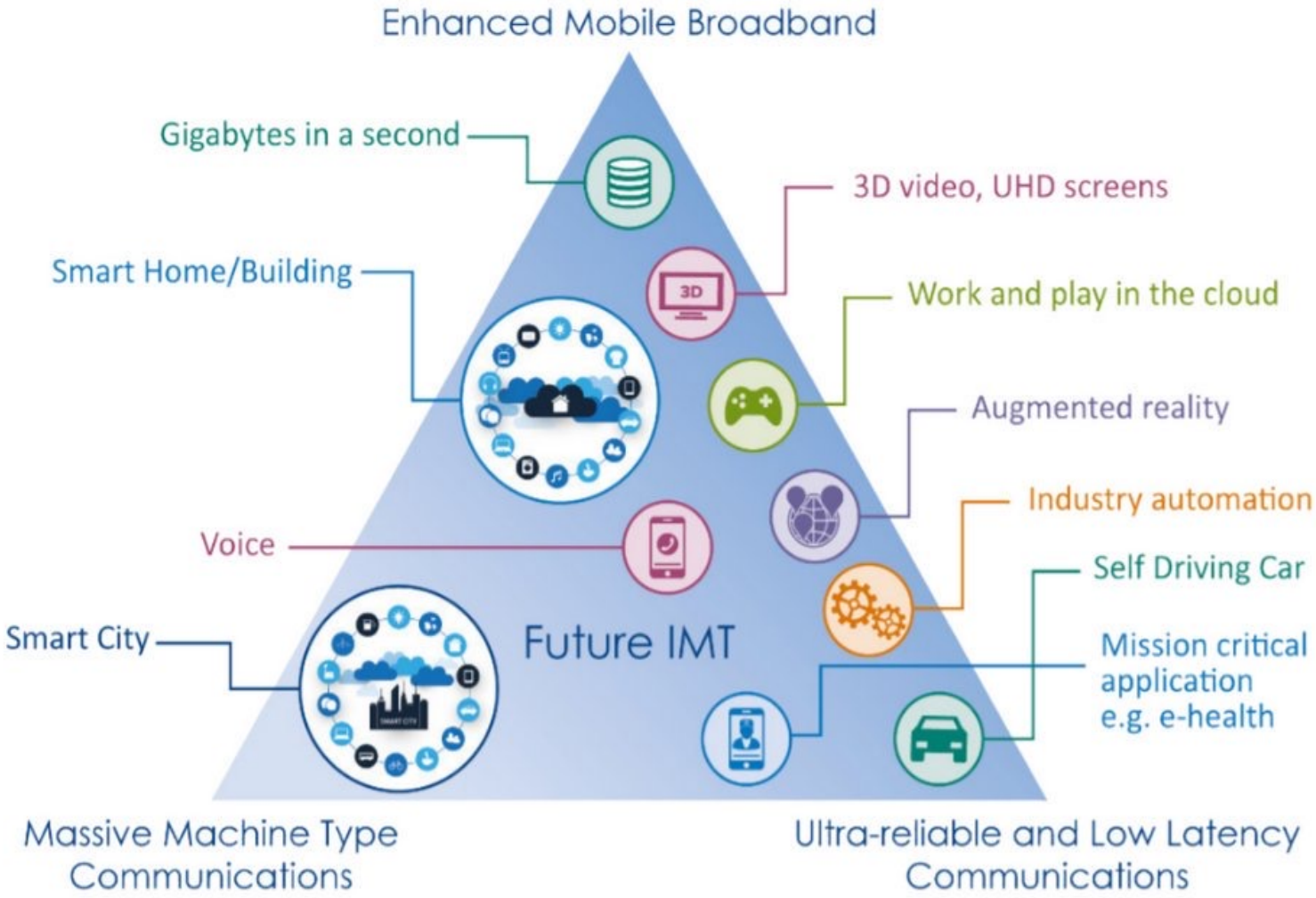
- Introduction Innovation Center Connected Solutions
- Smart Industry projects & healthcare
- Q & A

innovation center connected solutions

A short introduction movie

innovation center connected solutions

5G usage scenarios



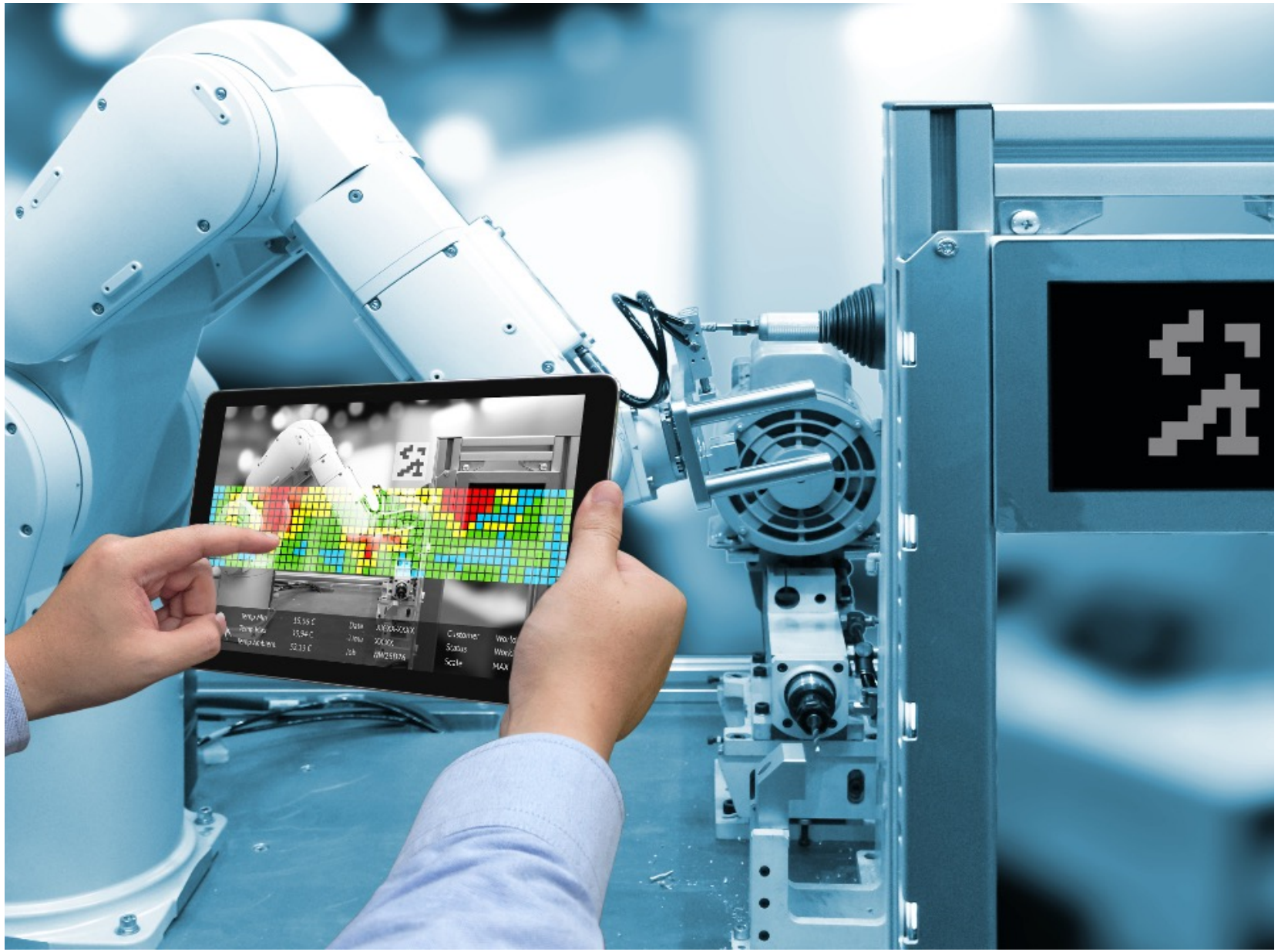
ITU

ICCS innovation center connected solutions

> 40 Pilots in sectors relevant in the Rural Area

- Healthcare
- AgriCulture
- Energy
- Traffic & logistics
- Education
- Smart Industry

innovation center connected solutions



Smart Industry

I.C.C.S innovation center connected solutions

Collaborative support - AR/VR

5G capabilities required

- XR needs high bandwidth
- Ultra reliable
- Low latency
- Edge computing

STARK
LEARNING

ICS innovation center connected solutions

Off-site: Virtual Expert – provides remote assistance

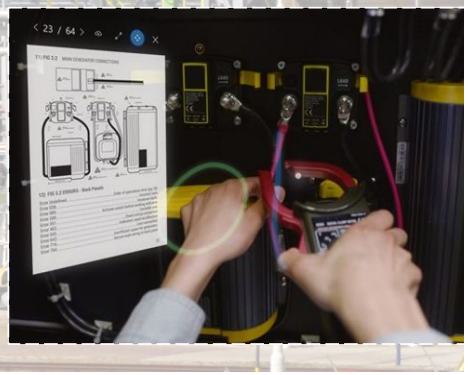
VR Remote Collaboration Toolset

- See (what I see) + speak
- Draw (annotation)
- Share (files)
- Step-by-step instructions

On-site: Field service technician – receives support

AR Remote Collaboration App

- Speak
- Receive visual instructions
- Receive files (schematic - graphic)
- Step-by-step instructions



Draw Share Step-by-step

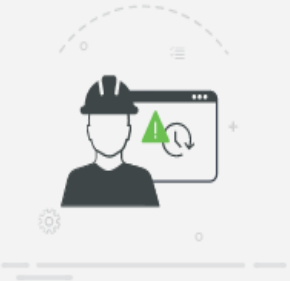
Enable expert help anytime, anywhere

REDUCE COSTLY TIME ON SITE

Fix, repair, and resolve issues quicker by enabling workers with real-time AR support from your experienced team members.

IMPROVE UPTIME AND EFFICIENCY

Reduce downtime and accelerate problem resolution by connecting your field technicians to experts who can guide them through troubleshooting processes.



INCREASE SAFETY AND COMPLIANCE

Keep field technicians safe as they maintain hazardous machinery and work environments by enabling experts to point out specific steps to avoid incidents

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Industries for application

Energy

Offshore

Manufacturing

I C C innovation center connected solutions

Smart Helmet for plant engineers

- Application for smart industry
- Smart helmet with head mount tablet
- Interface with back office
- Voice controlled (handsfree)
- Two-way communication
- Controlled user level / face recognition
- Connected to workflow systems
- Dynamic complete checklist

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Healthcare

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Smart Glasses for medical workers

- Application for healthcare / ambulances
- 4k / 8K video needed for burning wounds
- Burning wounds specialist give advice on distance
- Better help for burning victims and a business case for hospitals
- Al lot of ambulance trips with victims of burning wounds unnecessary

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Visit us in Groningen!!
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