



AIDAR

SKILL MANAGMENT



kogifi IS TRUSTED BY:

FANUC

CHANGE
Lingerie

SIEMENS
Healthineers


DAIMLER

ORBICO
GROUP

T-Systems

PIWIK PRO

NOKIA

CGI

NA
NETWORKEDASSETS

COMARCH

Alcatel-Lucent
Enterprise 

POSSIBLE

tieto

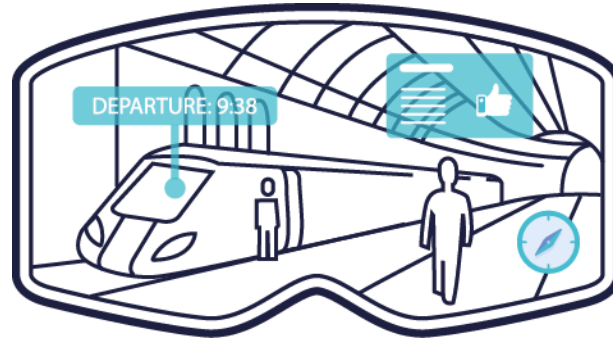
isobar

 VMLY&R



Virtual Reality

VR places the user in another location (computer-generated or captured by video); it entirely occludes the user's natural surroundings.



Augmented Reality

In augmented reality – like RealWare – the visible natural world is overlaid with a layer of digital content.



Mixed Reality

In technologies like HoloLens 2 or iPhone, virtual objects are integrated into – and responsive to – the natural world. A virtual ball under your desk, for example, would be blocked from view unless you bent down to look at it.



The Problem

- Limited availability of highly skilled experts + **travel restrictions globally** as pre-pandemic (architects, planners, field support engineers) for **training and service**
- Training of bigger teams for new plants & onboarding of new staff requires substantial effort and logistics
- Keeping plants/machines up-and-running without full staff on-site. Increasing the self-service capability is a challenge
- **Global lockdown and its impact on industries.** Redefinition of work in pandemic times. **74% of companies will keep their staff remotely working long-term or permanently**
- Availability of IIoT Big Data from all floor shop machines and predictive maintenance could produce an overflow of data. Homogenous UI and data consumption



AIDAR

Product

The solution - Aidar



AIDAR.Remote – field service



AIDAR.Skills – training



AIDAR.Synergy



Products



AIDAR.Remote

- Call between expert and operator in Mixed Reality
- Video/Audio call, hands-free operation
- Collaboration: Annotate, Show Point of Interest, Send documents, images, 3D objects
- Real time “scan” of the operator’s environment
- Audit operations
- IIOT Integration
- Create and consume 3D tutorials



AIDAR.Skills

- Easy create VR/AR trainings without coding
- Deliver lessons from central server to Player App
- Manage lesson access and track progress (LMS)
- Multilingual, simple to translate
- Multiuser Sessions with trainer: Trainer Mode and Trainee Mode



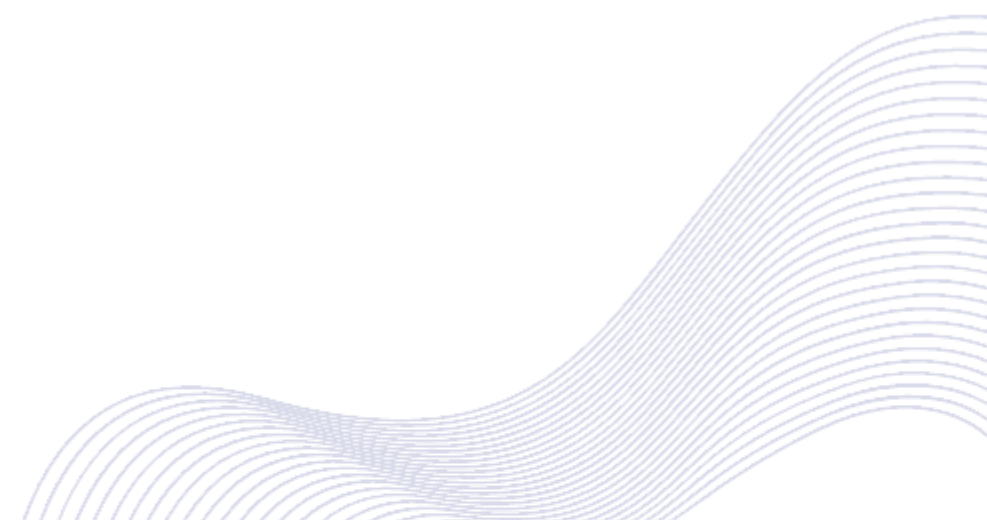
AIDAR.Synergy

- Use training for Service operations
- Visualize plan of offices, manufacture and interactions





Aidar.Remote

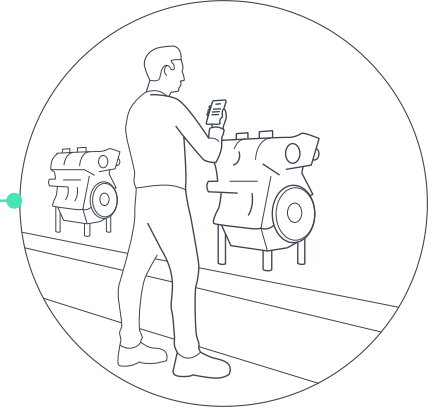
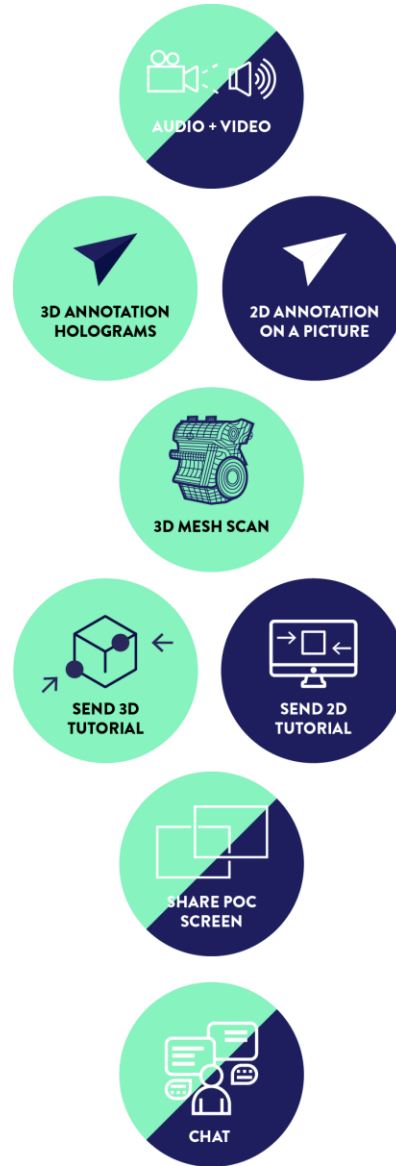


Wide range of supported platforms

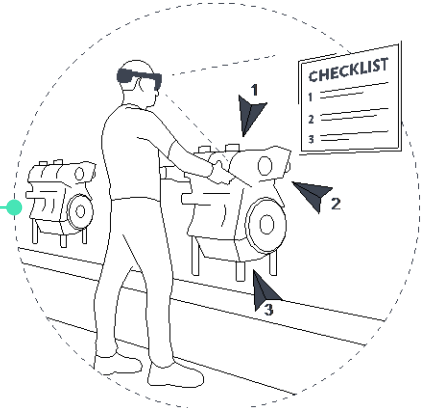
- AR or MR glasses options
- Smartphones



Android | iOS | Windows UWP |
Modern browser



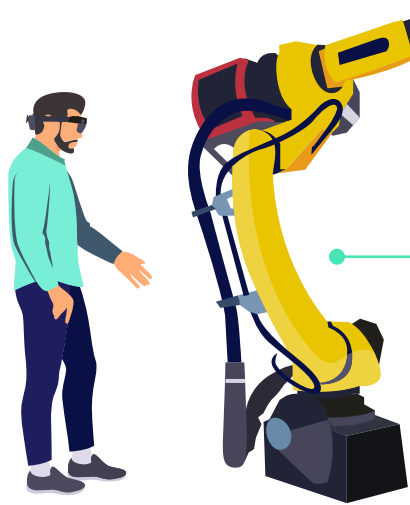
SmartPhone | Tablet | SmartPhone
with AR | Tablet with AR |
MR glasses |



Optional: connect with Aidar.Field to get real time IIoT

Aidar.Remote – AR Phone/ MR Glasses

Customer



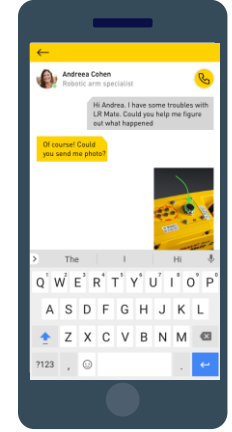
Hands-free | 3D navigation
| Where to touch, click etc
(3D mesh)



Video and audio call



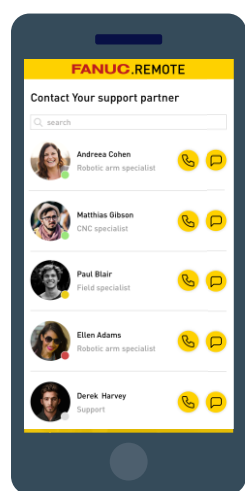
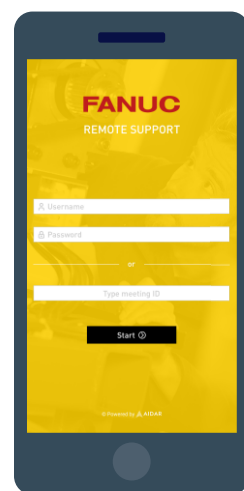
Annotations in 3D, even if person moves



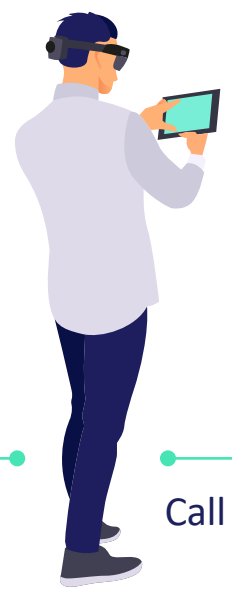
Chat with experts



Expert can send a tutorial in 3D



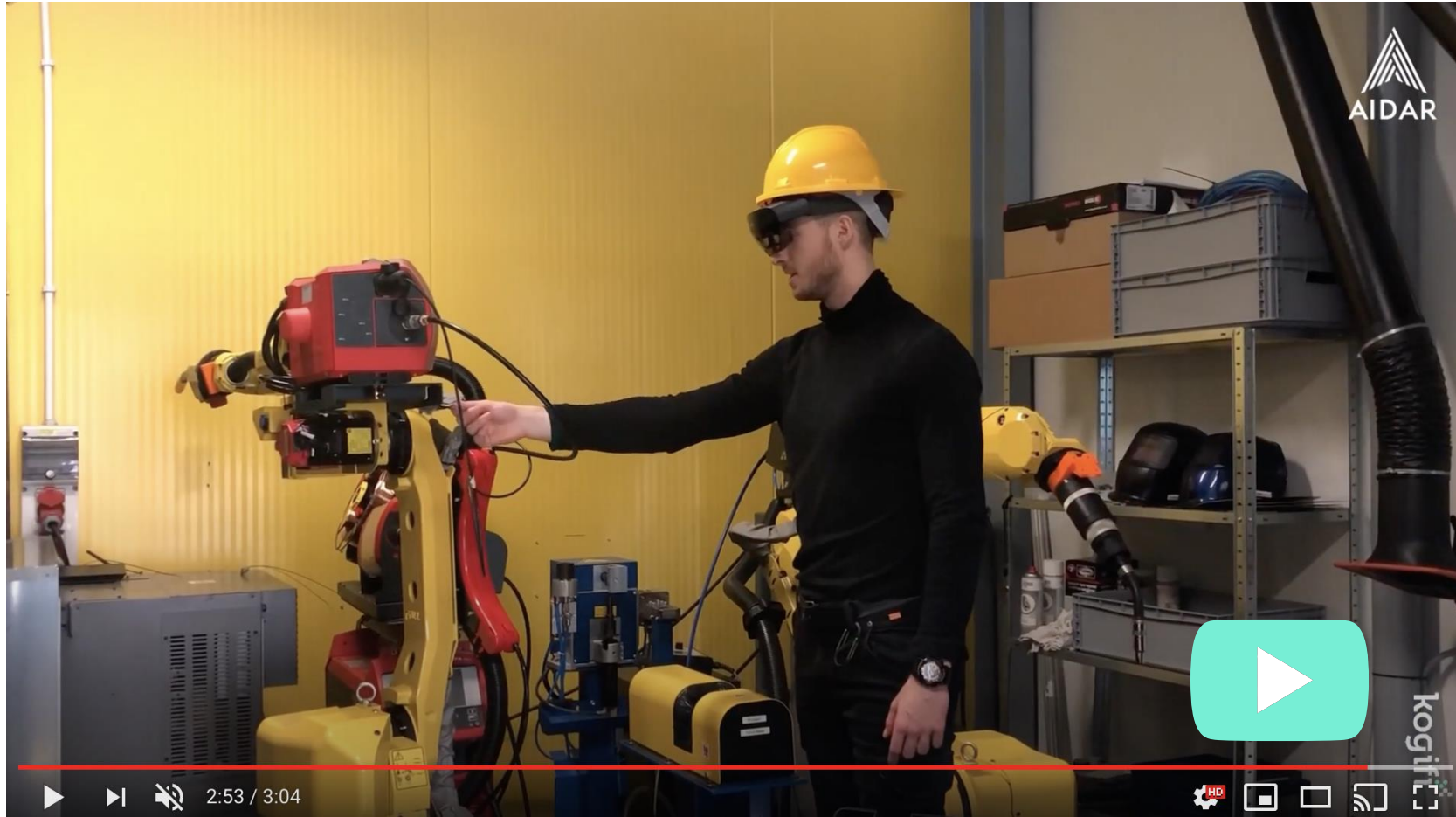
Optional: connect with BigData to get real time IIoT



Call in another expert

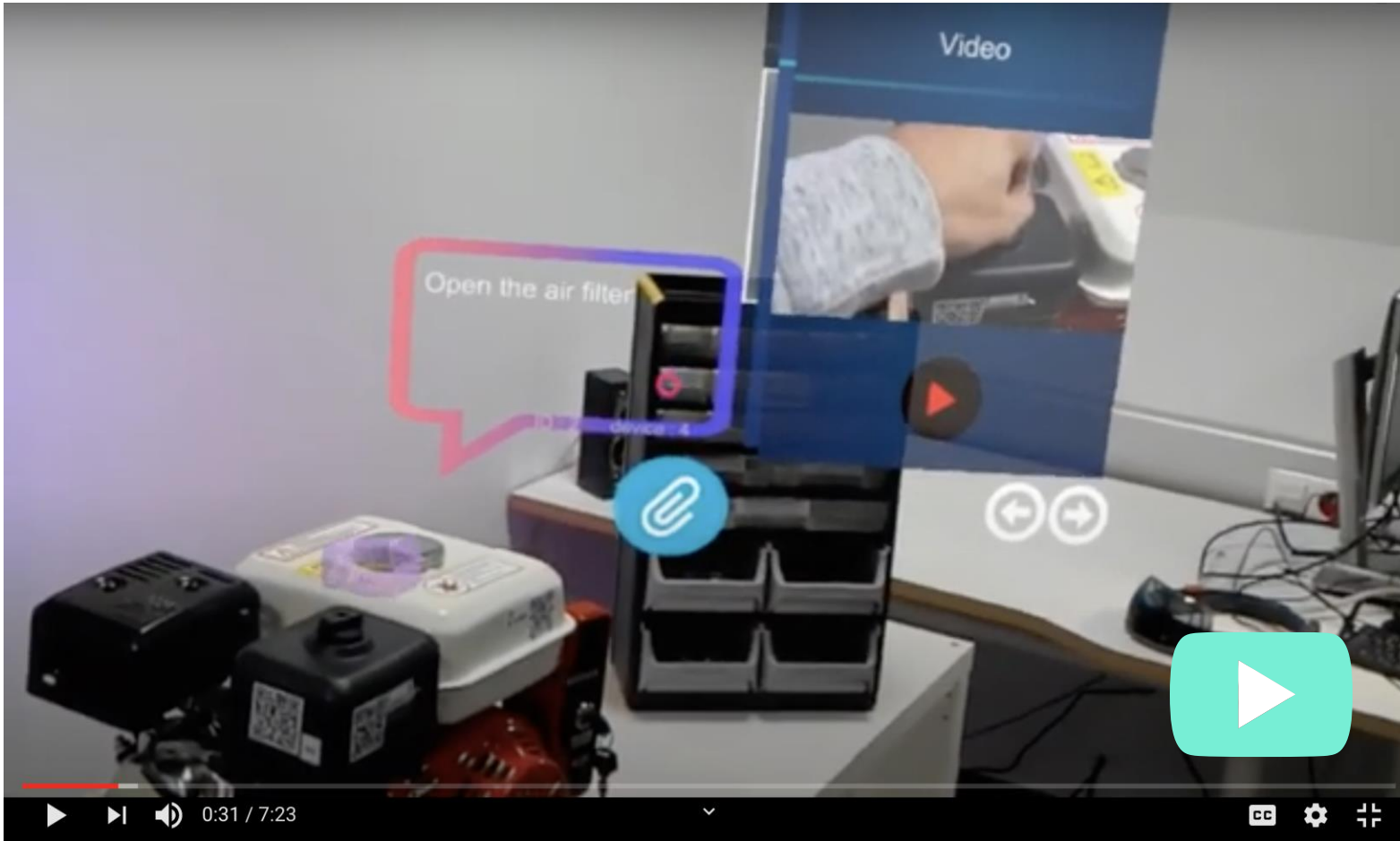


Support Engineer



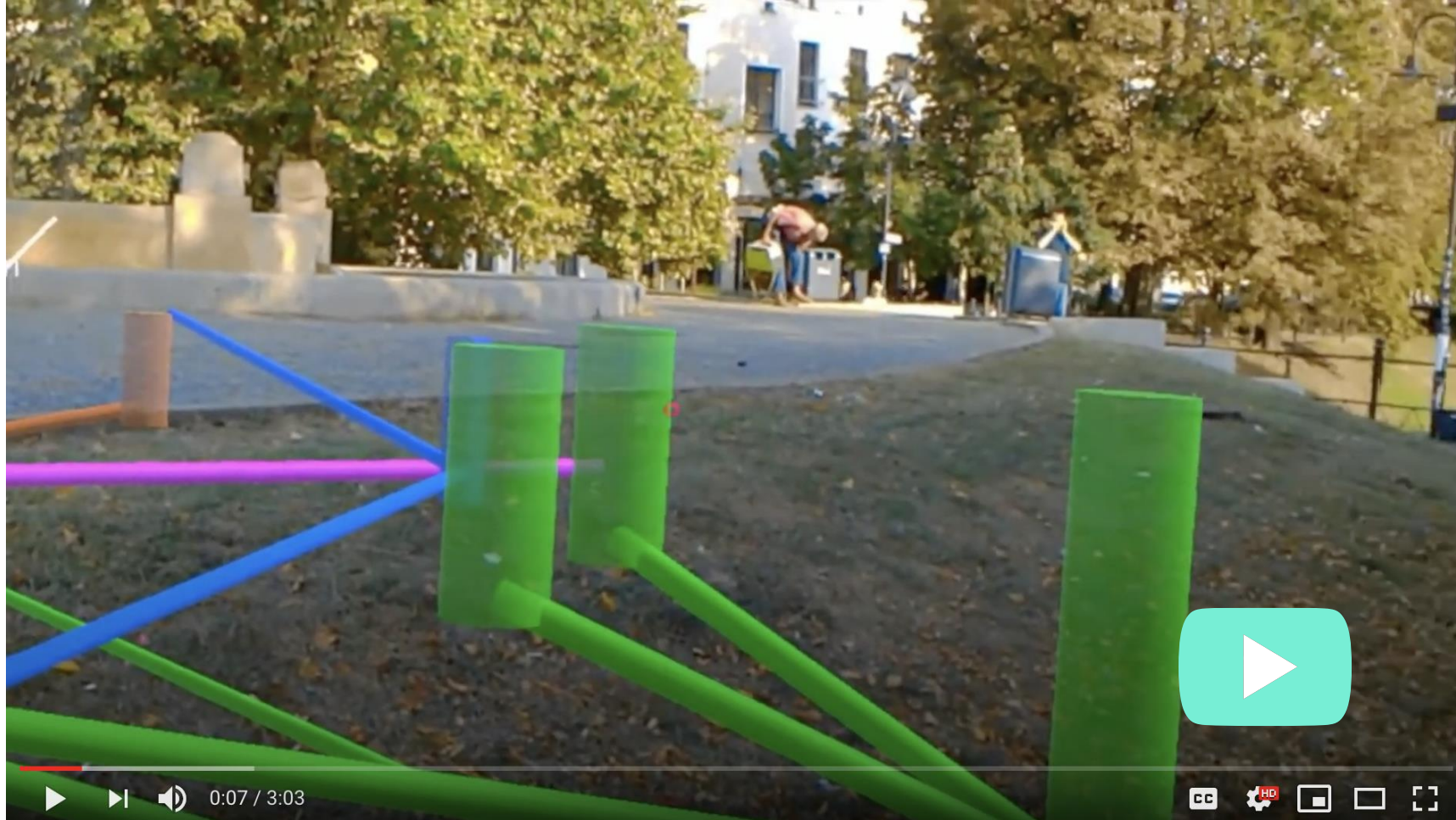
← play the video

Remote Support and Service



← play the video

3d tutorials and checklist



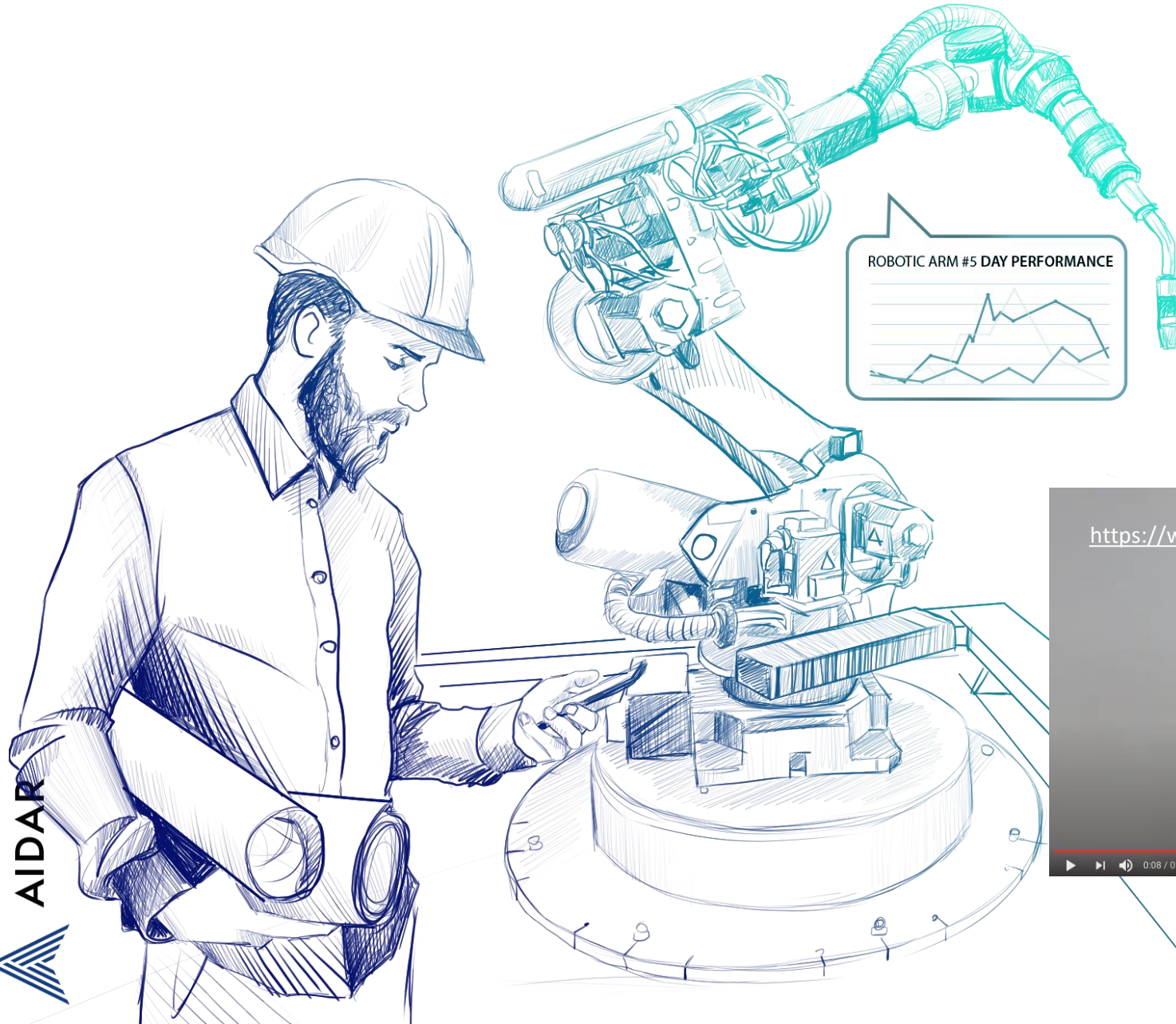
← play the video

Load BIM data and synch location



← play the video

Error tracking and audit

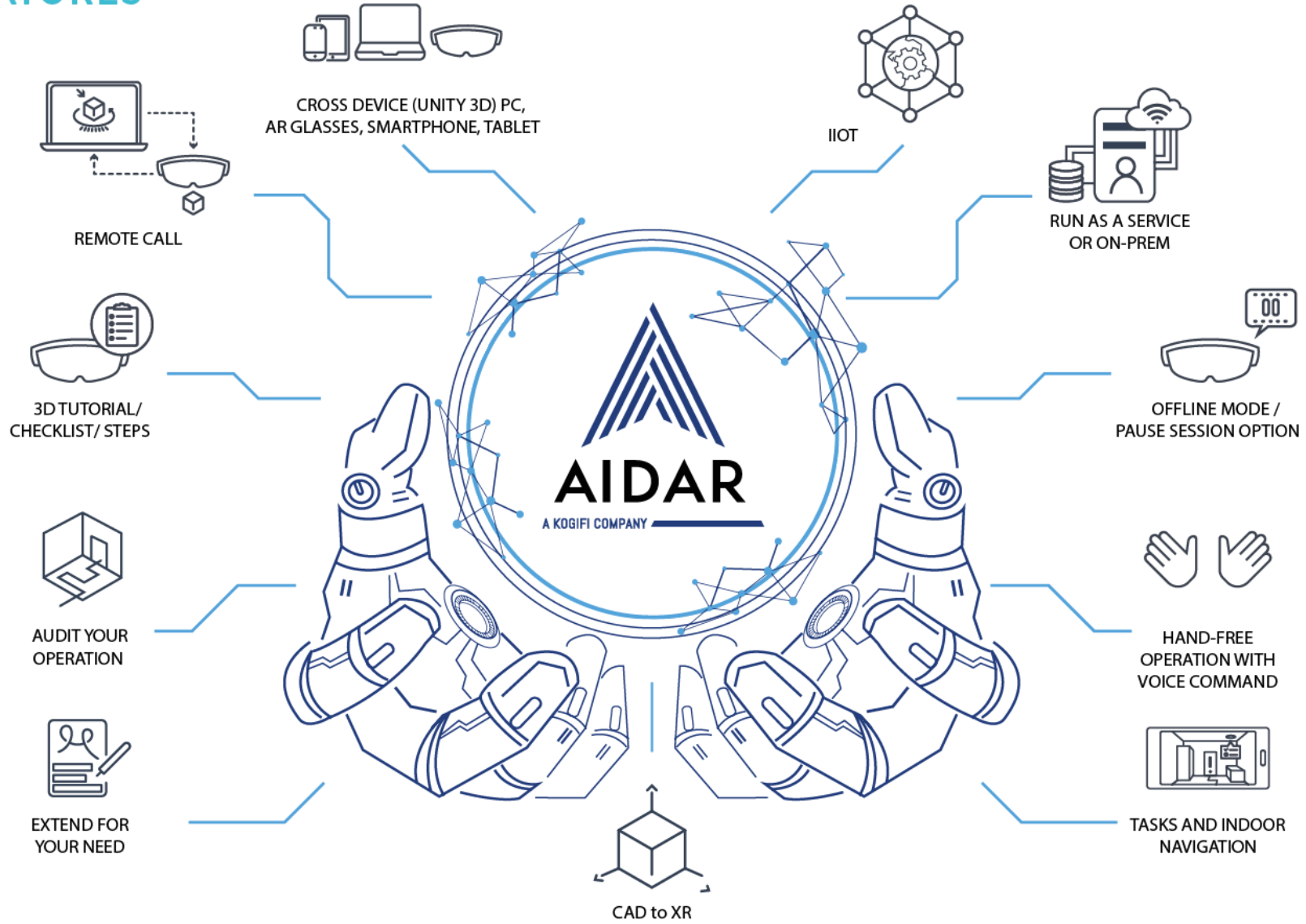


Spatial Anchor

Recognize a hologram position only based on the optical attributes and high-level geolocation



FEATURES





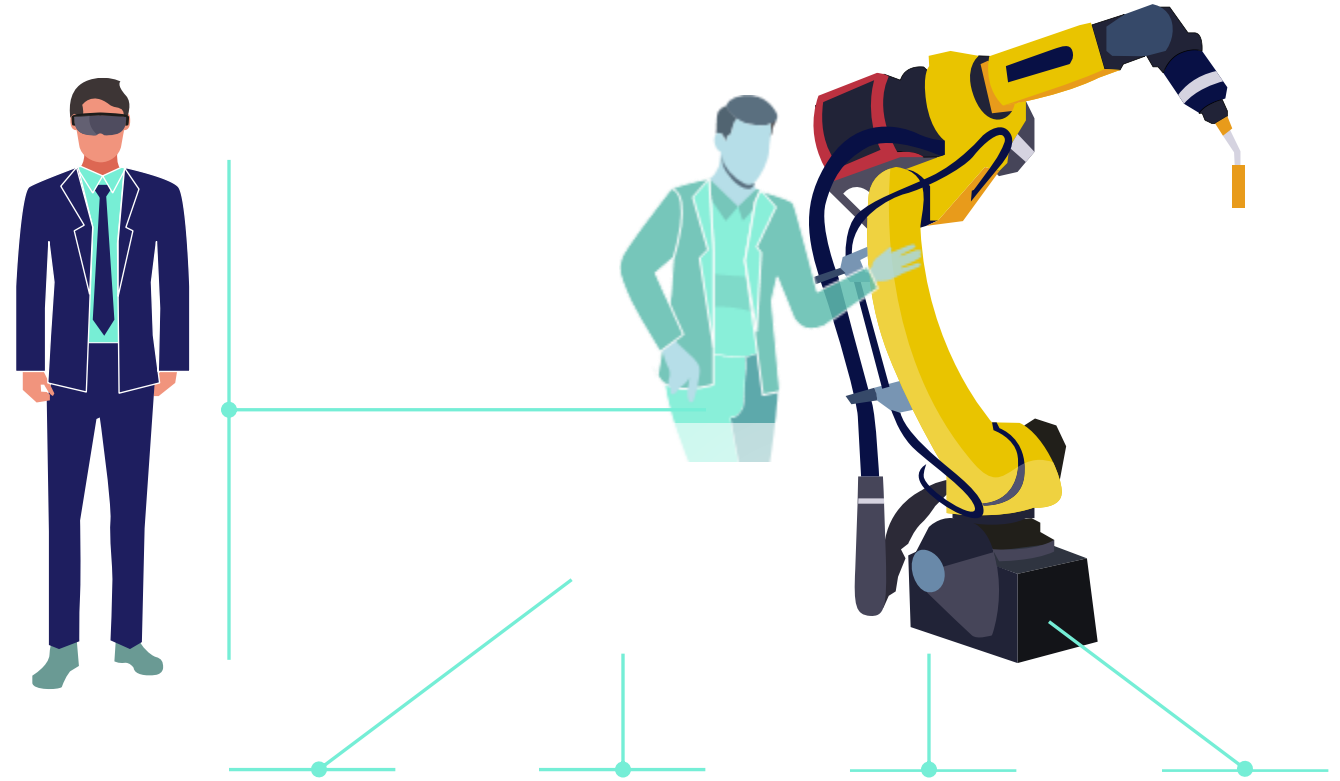
Aidar.Skill



Demo mode

Practical teaching in 3D

- See trainer, other participants and their hands as avatars. See emotions and movement
- Trainer is moving the virtual robot with his real vPendant
- The group is seeing the movement, the teaching pendant, can change the position
- Audio communication
- Virtual pencil to show elements in 3D
- Virtual laser pointer



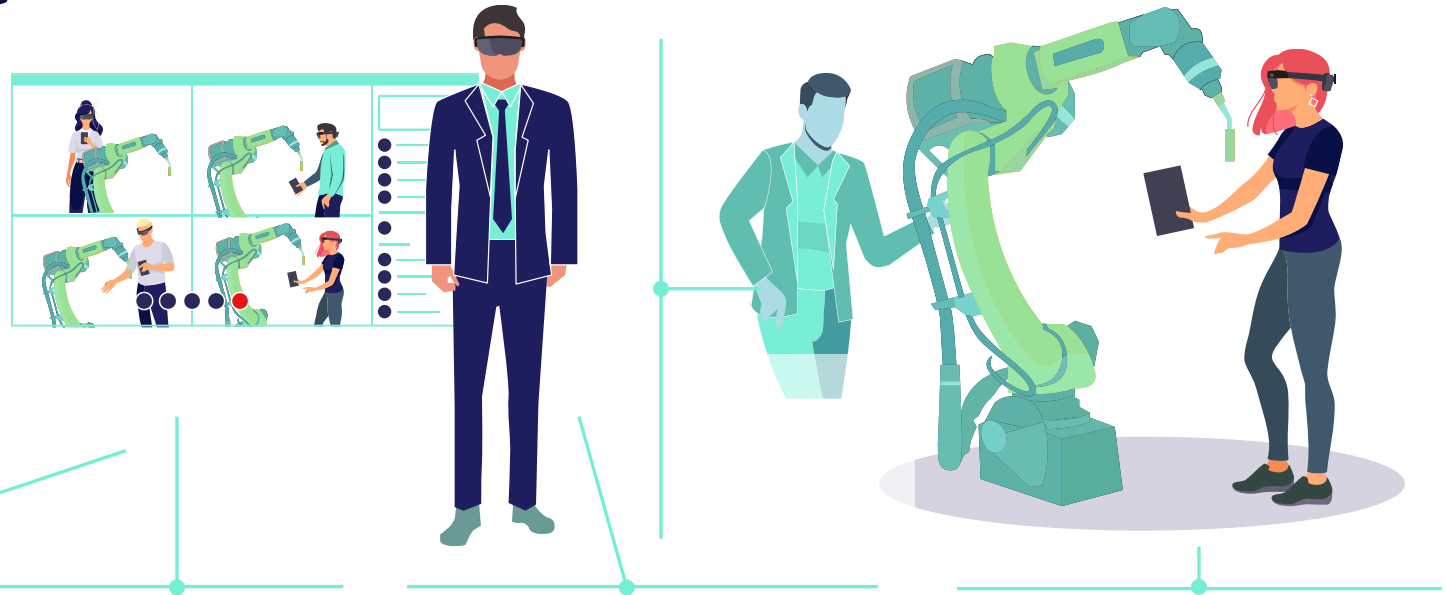
Easy jump from 2D into 3D:

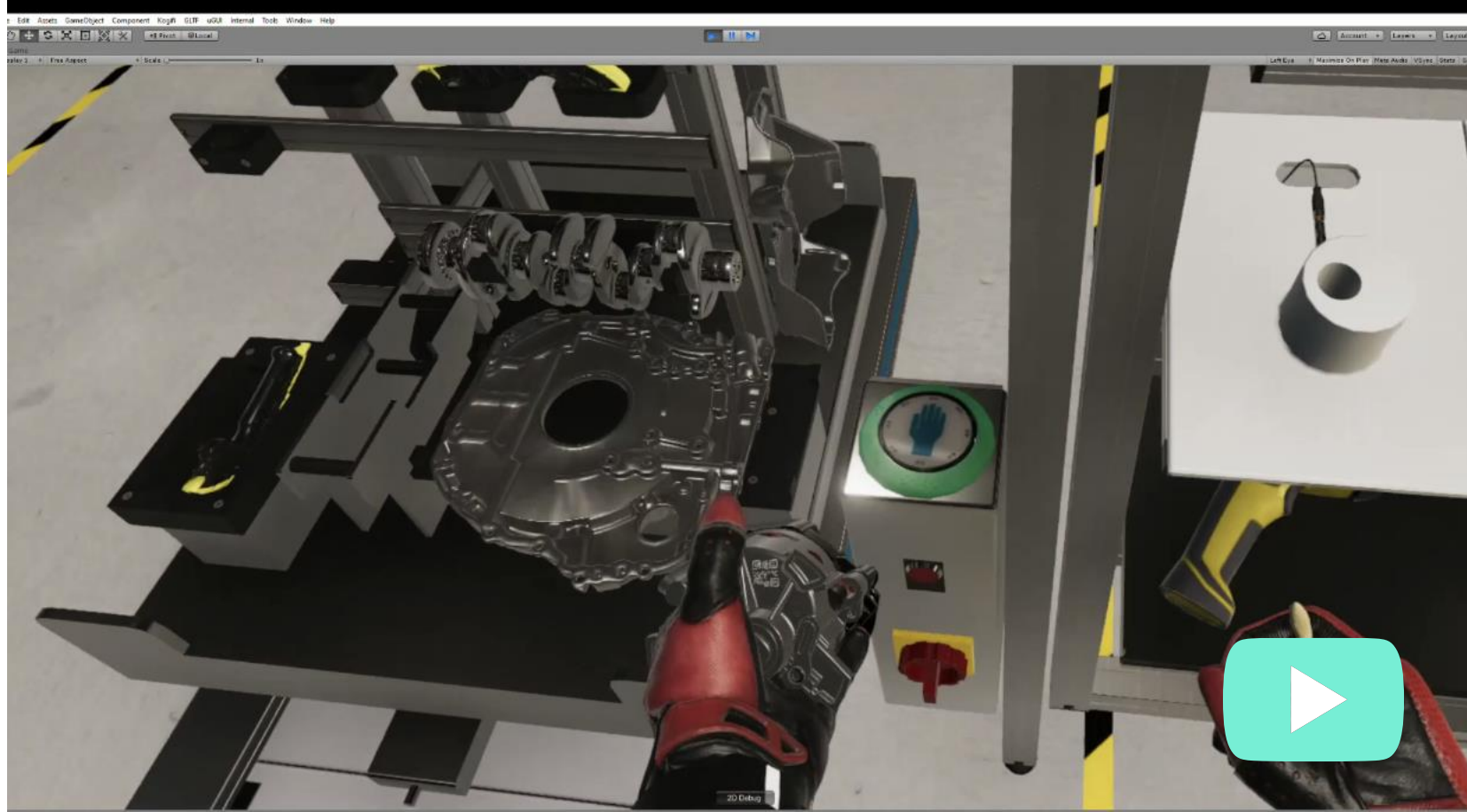
Start the app and enter your meeting ID, done!





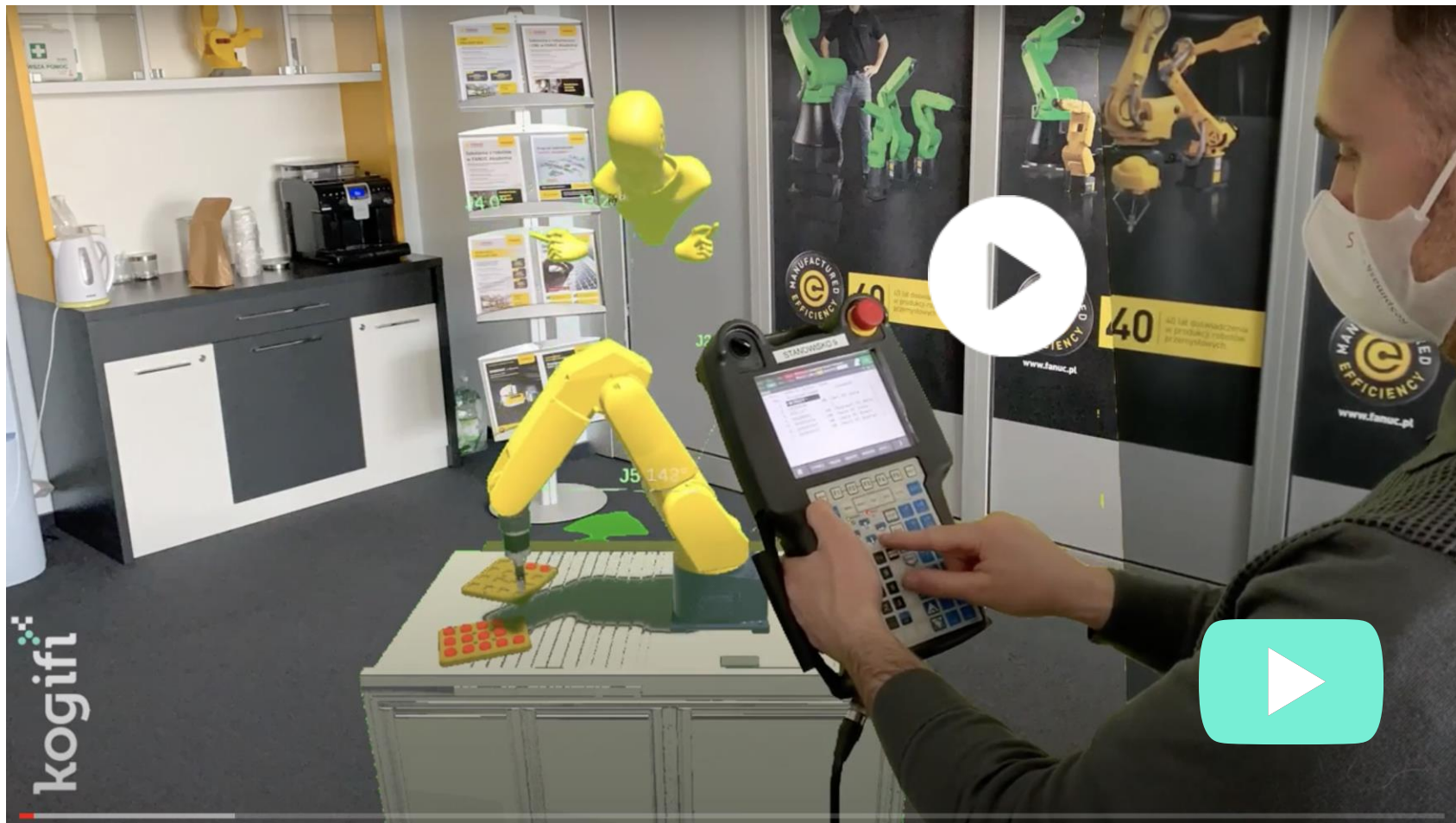
Training mode





← play the video

VR version

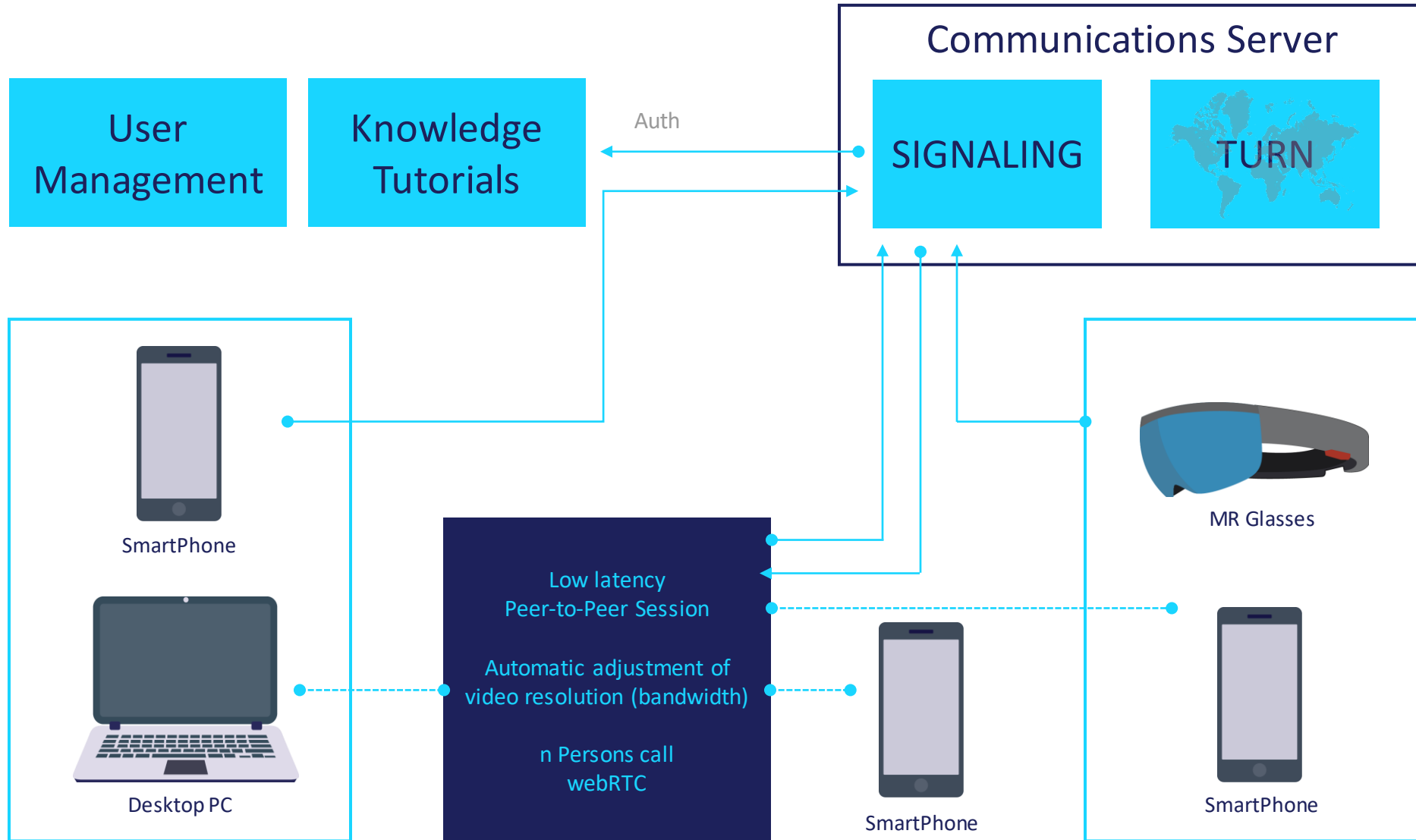


← play the video

AR version

Platform

Infrastructure: Aidar web app is based on .net Core, runs on Linux and in Docker



- TURN Server
- Overcome firewalls issues
 - Not needed in local networks and "normal" NAT behind firewall

- Kogifi is partner of:
- NTT
 - CommScope
 - Cisco
 - Mobileedge (T-Mobile)
 - Microsoft Azure



Integration with IIOT

- AIDAR will compliment IIOT platform in area of field service and monitoring as well as provide a platform for efficient trainings of operators
- IIOT would provide information about machines based on their 3D position in the room
- IIOT will provide relevant data feed to be presented in augmented reality by AIDAR.Remote

Aidar > Dashboard > Robot X

Robot X

Field Instance
robot0002

Access Level
Read
Remote Execute (RPC)

Shop Floor

Speed 145,60 rpm

Id	Name	Value
1	Axis Rot	/con0001/laste
2	Spped	/con0001/laste
3	Axis Rot	/con0001/laste
4	Spped	/con0001/laste

3D position
Deafult Custom
123 34 34

Access Group

Speed

Spindle

Stop machine

Single value

Name: Speed

Icon: Icon not selected

Preview: 145,60 rpm

Id	Name	Value
1	Axis Rot	/con0001/laste
2	Spped	/con0001/laste
3	Axis Rot	/con0001/laste
4	Spped	/con0001/laste

Math: $\sqrt{1} + 2$

Unit: m/s

Alert 1: >200 Knowledge Base Link

Alert 2: ≥ 450 3D tutorial

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Customers

Testimonials & Press

Mercedes-Benz Printed Magazine
for dealer's stores 05/2020

Mercedes-Benz is starting to use groundbreaking solutions of the AIDAR LMS system - implemented in our newest, ultra-modern and referential for the entire Daimler global concern - factory in Jawor near Wrocław. AIDAR LMS is implemented in the process of virtual activation of factory workers to improve assembly times and quality. Training with the use of virtual reality (VR) glasses not only facilitates the acquisition of practical skills, but also gives our engineers, who as a result of accident become disabled, a chance to fully participate in their work, lead and manage teams on-site, integrate with colleagues and became the most valuable team mate.

Thomas Kaiser, Mercedes Benz Manufacturing Poland, GM Production



Learning how to operate a robotic arm helps Fanuc to convince more and more potential customers to invest and change their own productions lines. The access to our academy should be easy, reducing the cost of travel, CO2 footprint and time. Kogifi solution - Aidar.Skill - allows us to execute the trainer-based education remotely. And the same time we are not sacrificing the quality of the training. Even better, the trainee can spend much more time with practical exercisers using the real Teach Pendant, which guarantees the “muscle memory” effects in Mixed Reality training. In time of Covid-19 this approach it showing the right direction for us. Working with Kogifi, as the product owner of Aidar, has been giving us full flexibility and access to extremely experienced team”

Jędrzej Kowalczyk, General Manager Poland, Fanuc Polska Sp z o.o.



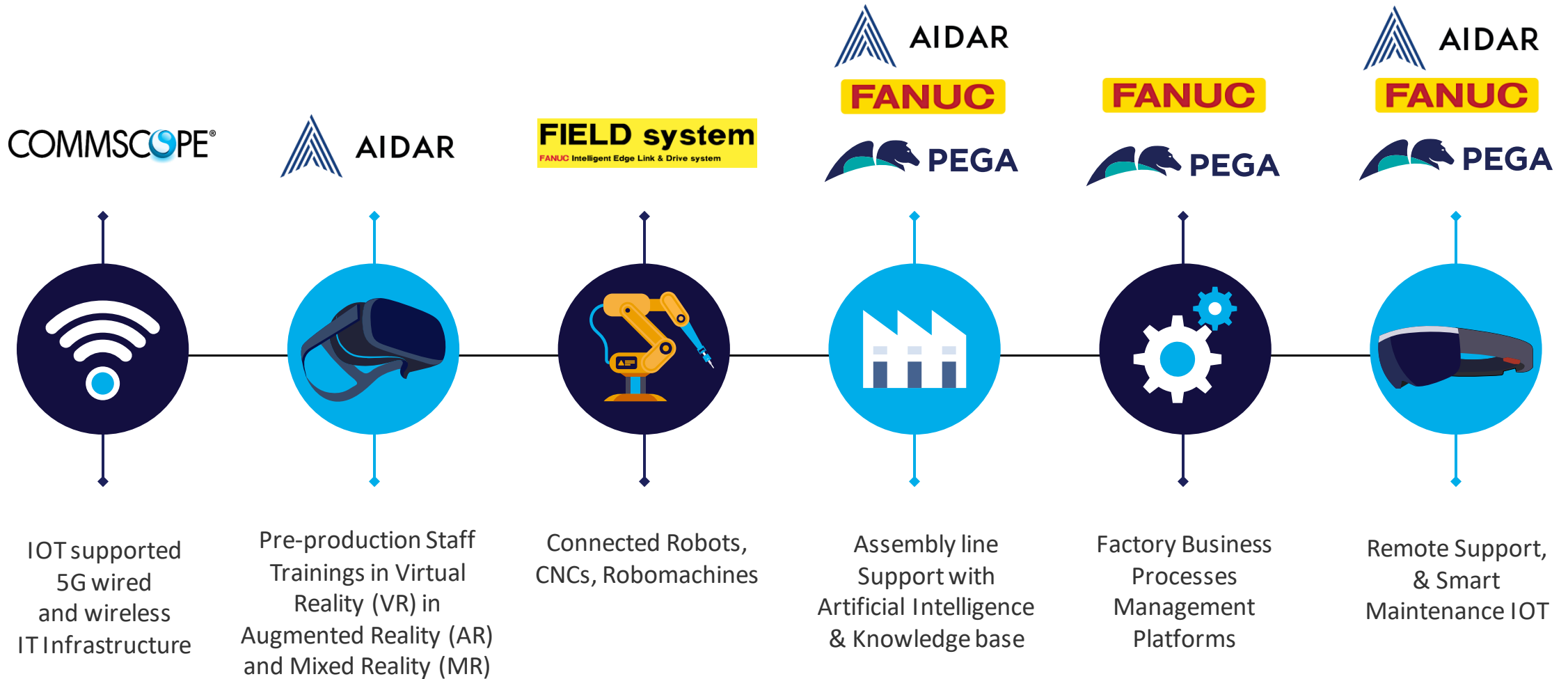
Strategic Partners



Aidar - Industry 4.0 Strategic partners



Industry 4.0 – factory IT scope covered by Aidar and partners

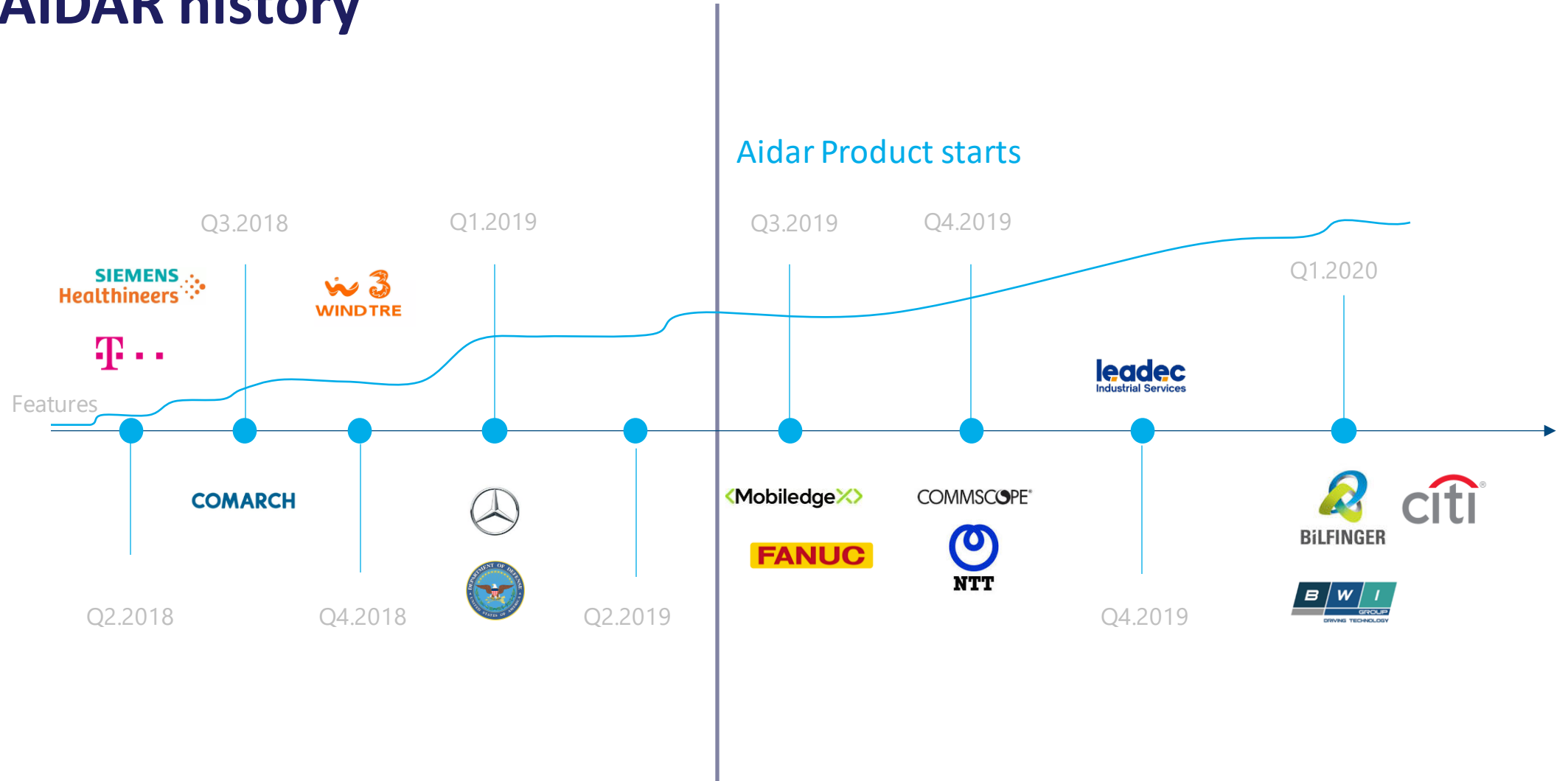




AIDAR

Timeline

AIDAR history





**Don't hesitate
to contact us!**

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