



What would it mean for the world of business  
if **teleportation** was actually **possible?**



# Problems of large industrial companies

## Skills gap



Lack of qualified workers

## Expertise off-site



Travel costs & restrictions



## Areas with difficult access



Dangerous or specific environment

## Cyber security

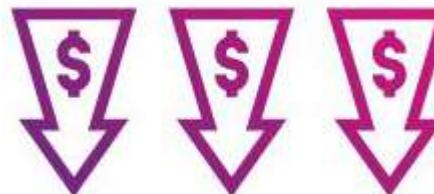


Risk of corporate espionage

# Problems of large industrial companies

<b>Skills gap</b>	
Lack of qualified workers	
<b>Expertise off-site</b>	
Travel costs & restrictions	

Cannot be solved with conventional video call



Areas with difficult access

Dangerous or specific environment

Cyber security

Risk of corporate espionage

Savings in **billions of dollars**

# Our solution: Fata Morgana platform

## Training & guidance



Faster knowledge transfer

## Remote collaboration



Work side-by-side inside  
live 3D scan in VR



Virtual teleportation

*Click for video*

## IoT integration & command



Super-human abilities  
with extra camera access

## Data safety



Off-grid use with  
military grade encryption

# Our 1st product: Fata Morgana Starter Kit

Plug'n'play AR/VR solution increasing efficiency in manufacturing, maintenance and other industries.



*Click for video*

Combines our **proprietary technology** with **best-in-market HW** to **simplify access to XR** for the enterprise world.



# Digitalisation of industrial environments made simple.



## Live 3D Scan and proprietary visualization engine

We have developed our own platform that provides the highest accuracy and high speed of operation.



## Turn AR glasses into a VR headset!

All-in-one HW: Contains the best AR glasses improved by our own VR adapter that can turn them into virtual reality glasses.



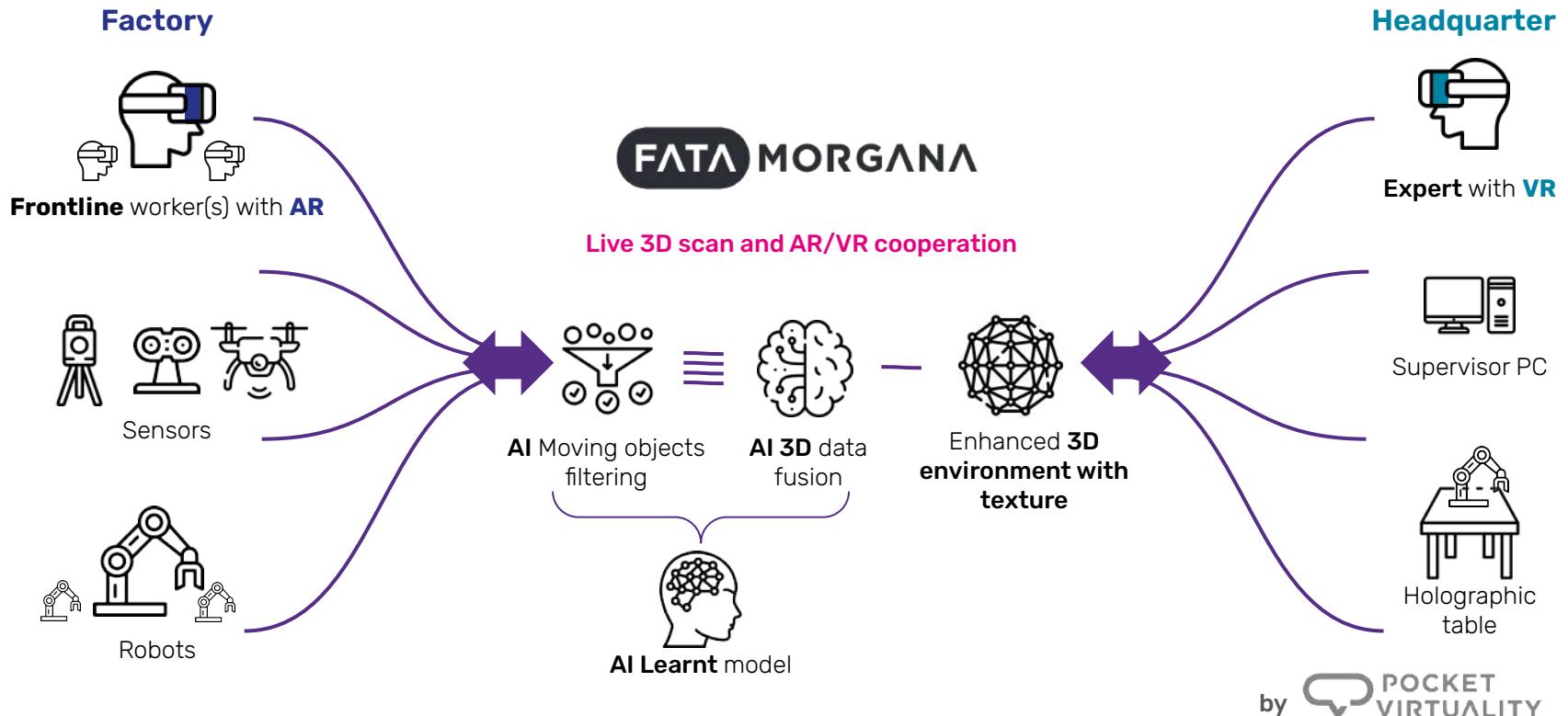
## Cloudless, safety and data protection

We have military-grade encryption that makes all data transfers very secure. We are the only company in the market offering a no-cloud solution.



## Option to operate fully offline

There is no need for connectivity. FM SK has its own local network so the customer can work entirely offline.



# Limitation of state-of-art AR HoloLens 2 technology

HoloLens 2 are state-of-art commercial AR glasses, however its have limitations that make virtual teleportation almost impossible.

- Scanning distance max. **5m**
- Depth information refresh rate only **7fps**
- **No texture**
- **Low quality** mesh
- **Holes** in the mesh



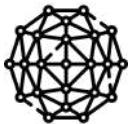
Credit Microsoft.com

# Details that matters

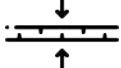
- Larger scanning distance up to **20m+**
- More **precise mesh** - detailed 3D reconstruction
- Enhanced **edges** and **thin objects**
- Enhanced **texture quality**
- **Pathed holes** in the mesh



20m+



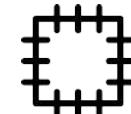
Precise mesh



Thin objects

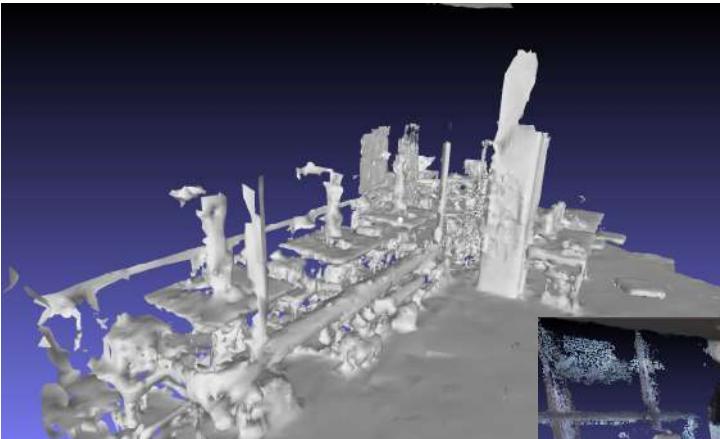


Better texture  
quality



Pathed holes

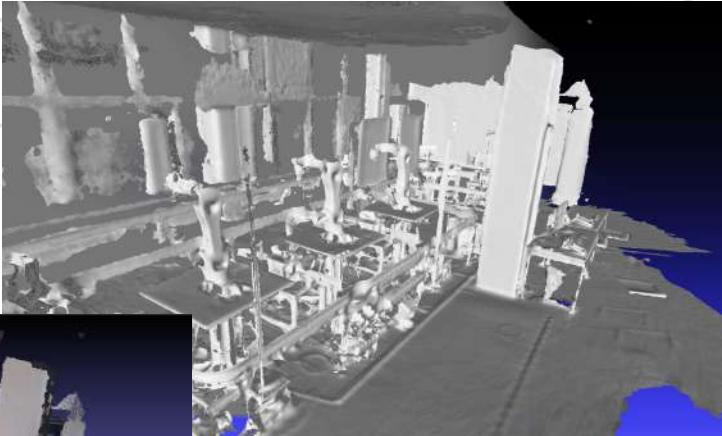
# Fata Morgana is to achieve similar quality with moving AR Glasses as non-collaborative static 3D Scanners



MS HoloLens 2 mesh



Textured refined 3D mesh



Static 3D Scanner (Leica)

# Enabling of **Virtual teleportation**

- Precise **navigation** in 3D environment
- **Inspection** of complicated industrial environments
- Guided remote **cooperation** in restricted areas
- **Digital twin** on the go



# Alternative solutions

UPSKILL

ptc

SCOPE<sup>AR</sup>

## AR Guidance

- Data safety issue
- Usually sold hardware free

## 2D Live collaboration

- Lacks spatial understanding
- No technical collaboration

S Skype

T Microsoft Teams

W realwear

## FATA MORGANA

immerse

STRIVR

## VR Training

- Not transferable to on-site guidance
- Often expensive
- Custom simulation
- Not scalable

## 3D scan

- Expensive
- Single use case
- Lacks interactivity & collaboration

HEXAGON  
MANUFACTURING INTELLIGENCE

Artec 3D

# Our team

experienced in building successful startups



**Jan Hovora, CEO**

Co-founder of Bohemia Interactive, most successful Czech gaming studio, Jan is the leader behind the vision of Fatamorgana , bringing it to completion.



**Lucie Brešová, COO**

Having built and scaled Kiwi.com, fastest growing czech technology start-up, Lucie makes sure the company is ready for scaling.



Our development and product team has over 150 years of combined programming experience, lead by PhD's in computer vision and computer graphics.



# See you in Space!



**Check our demo to see how our  
Fata Morgana works!**

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