

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

Skills gap



Lack of qualified workers

Expertise off-site



Travel costs & restrictions

Cannot be solved with conventional video call



Savings in **billions of dollars**

Areas with difficult access



Dangerous or specific environment

Cyber security



Risk of corporate espionage

Our solution: Fata Morgana platform

Training & guidance



Faster knowledge transfer

Remote collaboration



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



Virtual teleportation

IoT integration & command



Super-human abilities with extra camera access

Data safety



Off-grid use with military grade encryption



Click for video

Our 1st product: Fata Morgana Starter Kit

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

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



Click for video





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.

Factory


Headquarter



Frontline worker(s) with AR




Expert with VR



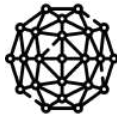
Sensors

FATA MORGANA

Live 3D scan and AR/VR cooperation




AI Moving objects filtering **AI 3D data fusion**



Enhanced 3D environment with texture



Supervisor PC



Robots



AI Learnt model



Holographic table

by  **POCKET VIRTUALITY**

Limitation of state-of-art AR HoloLens 2 technology

HoloLens 2 are state-of-art comercial 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



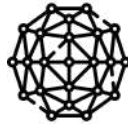
Credit Microsoft.com

Details that matters

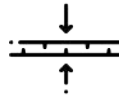
- Larger scanning distance up to **20m+**
- More **precise mesh** - detailed 3D reconstruction
- Enhanced **edges** and **thin objects**
- Enhanced **texture quality**
- **Pathed holes** in the mesh



20m+



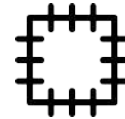
Precise mesh



Thin objects

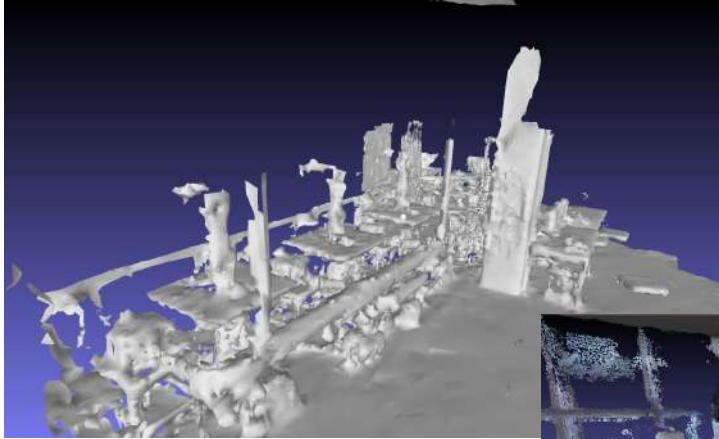


**Better texture
quality**

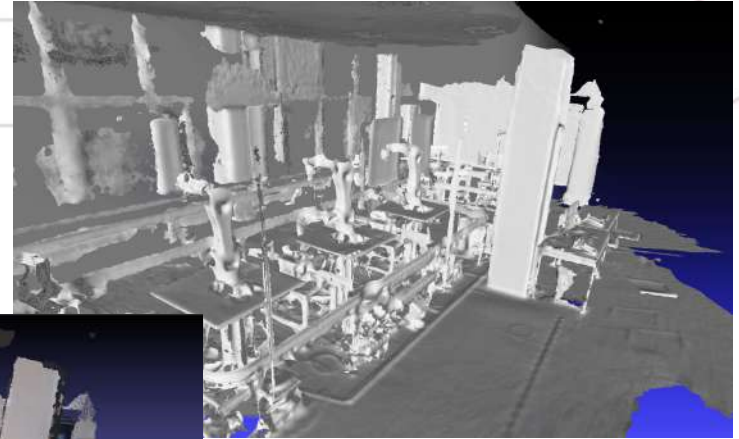


Pathed holes

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



MS HoloLens 2 mesh



Static 3D Scanner (Leica)



Textured refined 3D mesh

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

UP♦SKILL

ptc

SCOPE^{AR}

AR Guidance

- Data safety issue
- Usually sold hardware free

2D Live collaboration

- Lacks spatial understanding
- No technical collaboration

Skype

Microsoft Teams

realwear.

FATA MORGANA

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

Immerse

STRIVR

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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