

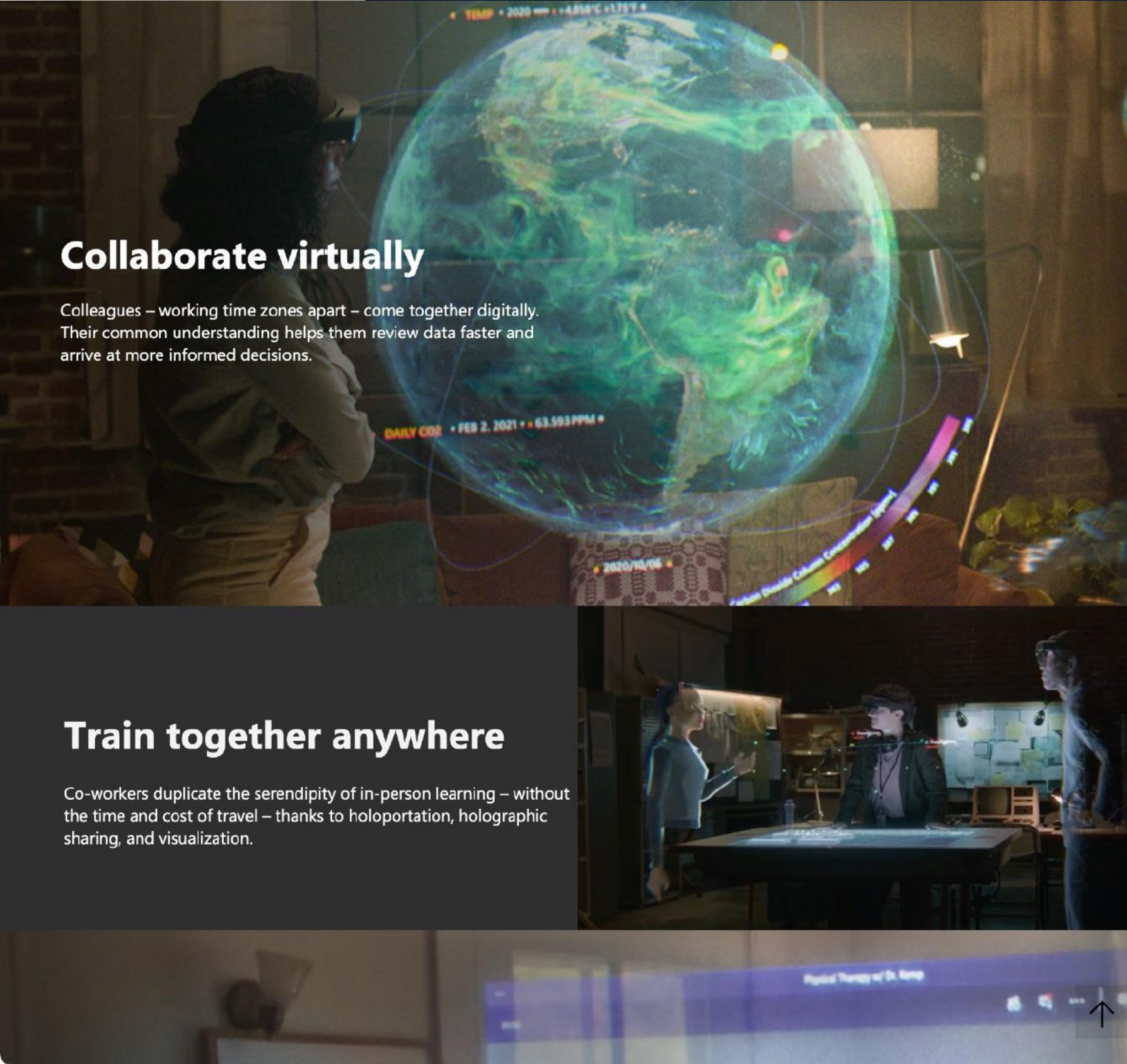


Augmented Reality  
for industry

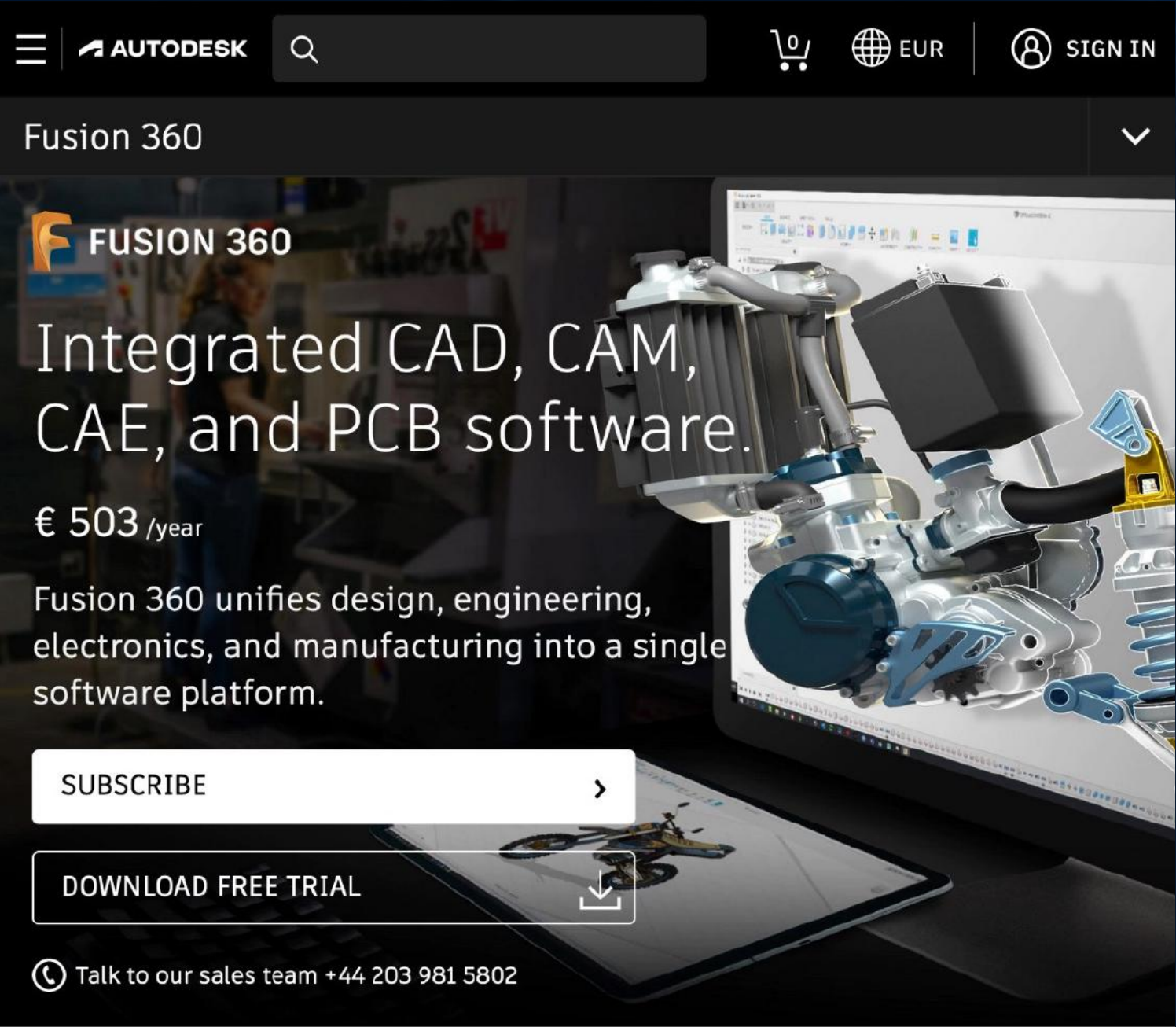
How **AR**  
can enhance  
maintenance  
and training  
for users of  
industrial products



# 3D and AR will be key components of industry 4.0 and the collaboration of manufacturers and users in industry



## Microsoft announces Mesh for Teams



### What is Fusion 360?

Fusion 360 is a cloud-based 3D modeling, CAD, CAM, and PCB software platform for product design and manufacturing.

- Design and engineer products to ensure aesthetics, form, fit, and function.
- Reduce the impact of design, engineering and PCB changes and ensure manufacturability with simulation and generative design tools.
- Directly edit existing features or model fixtures with the only truly integrated / CAM software tool.

## Autodesk launches Fusion 360



# Types of XR

360° / AR / XR / VR

Clarify the different types of XR through the immersion circle.





# Types of XR

360° / AR / XR / VR

## Deep dive versus snorkeling



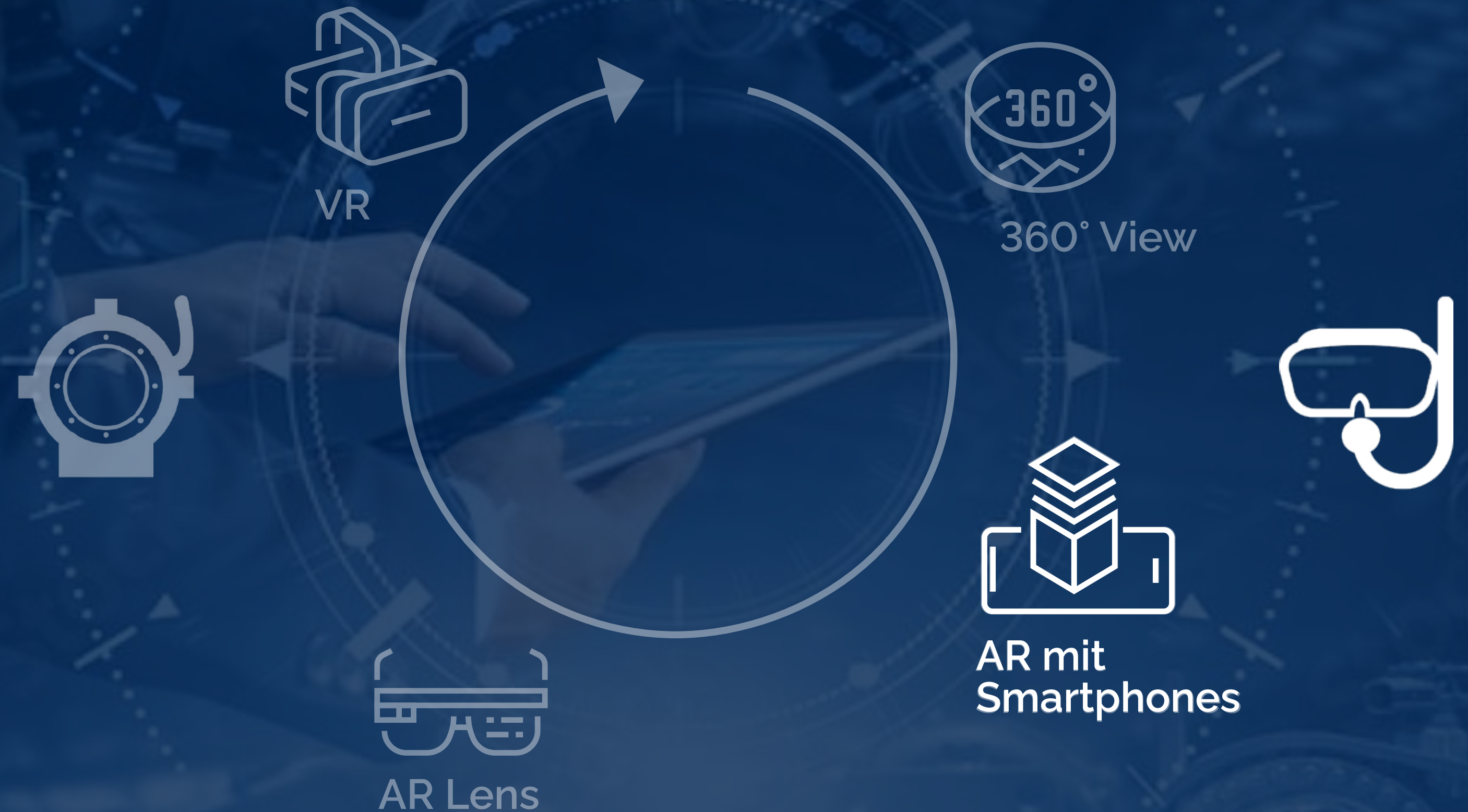


# Types of XR

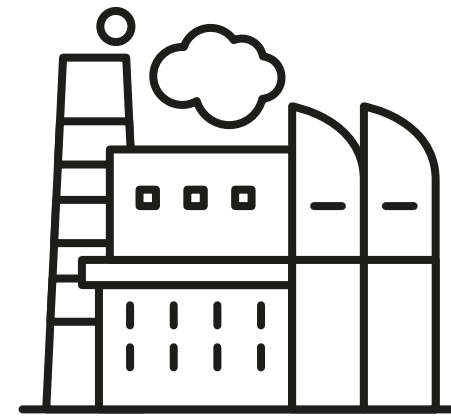
360° / AR / XR / VR

5

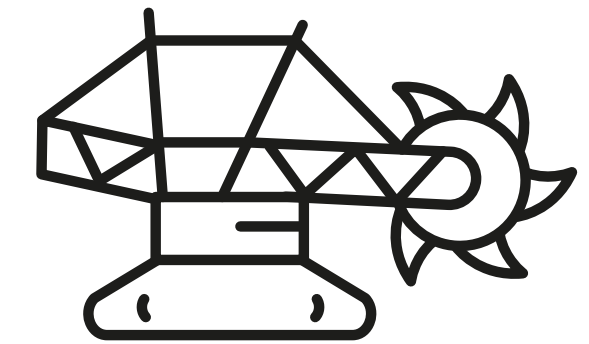
## Augmented Reality with Smartphones



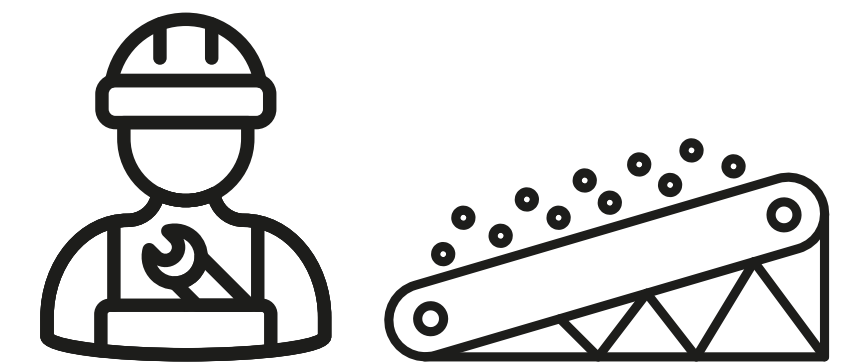
# Using AR for better maintenance and service



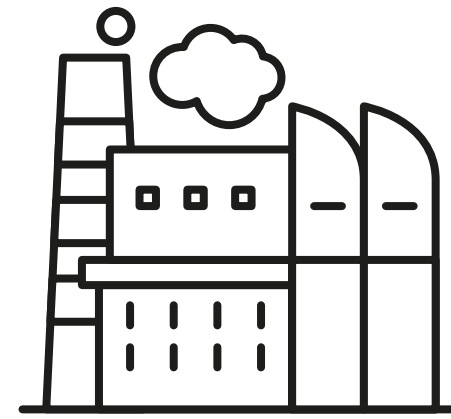
Manufacturer



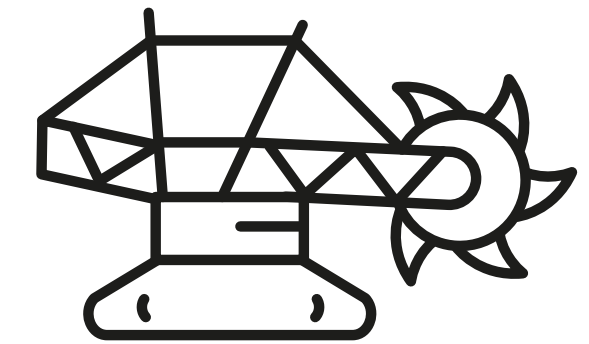
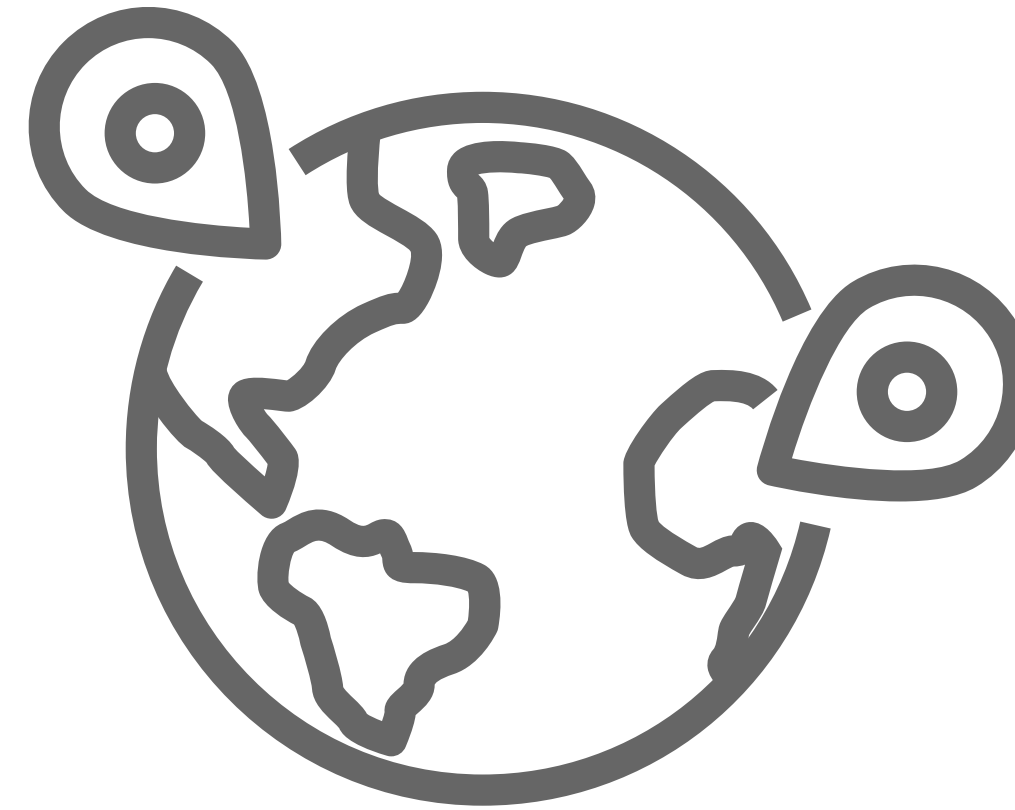
User



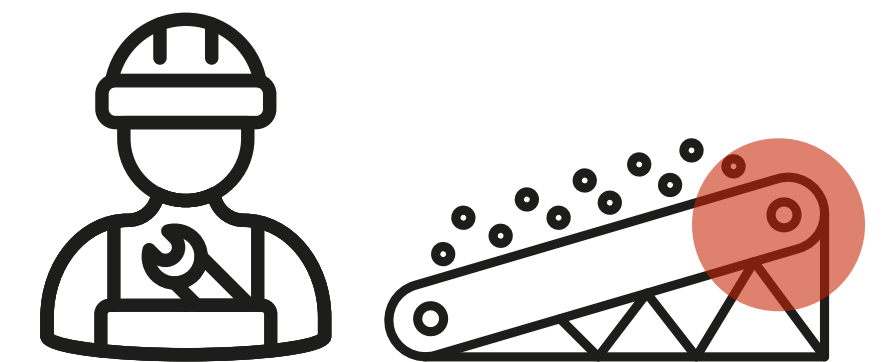
# Using AR for better maintenance and service



Manufacturer



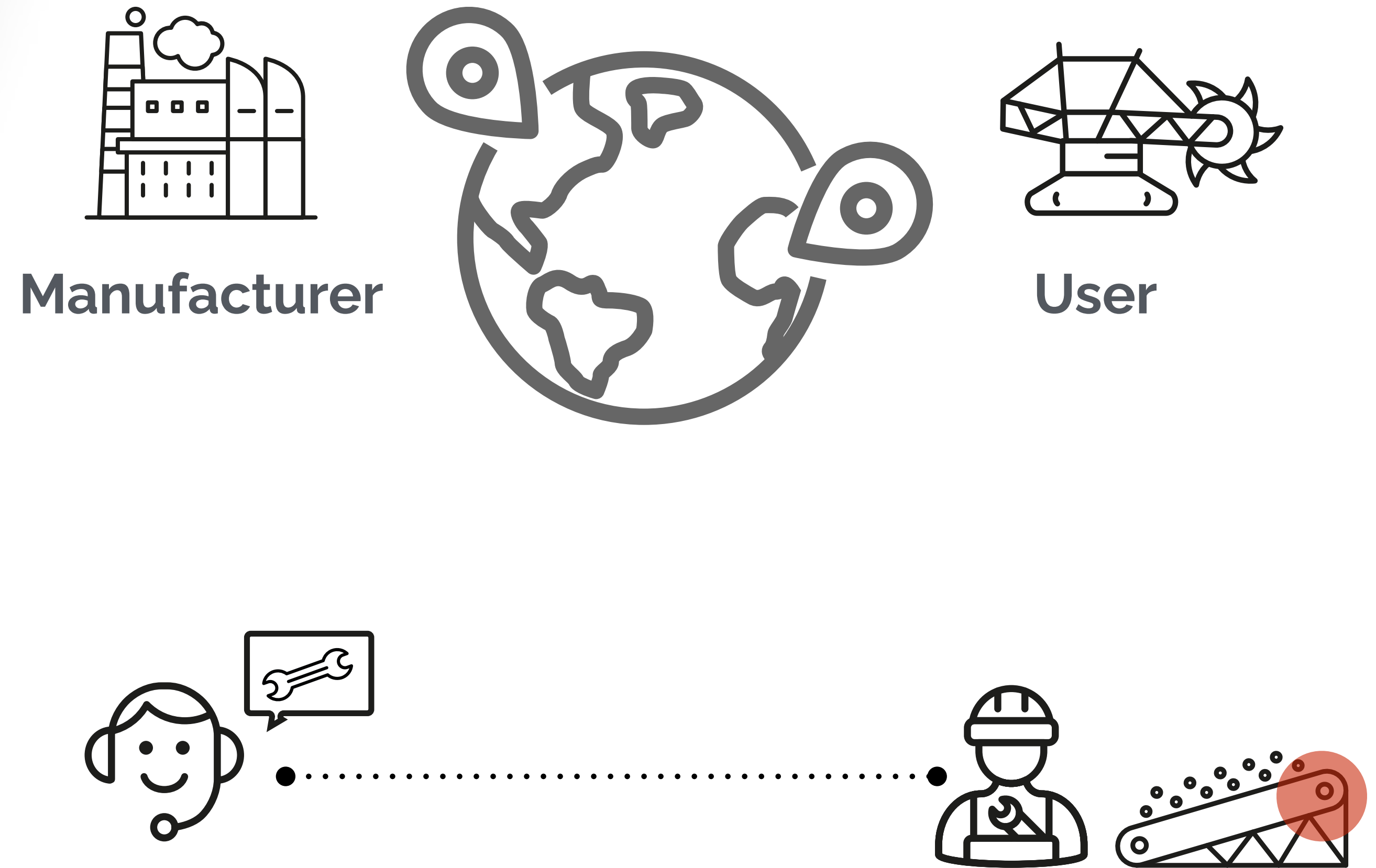
User





# Using AR for better maintenance and service

Try to fix the problem with a service-call or remote meeting.

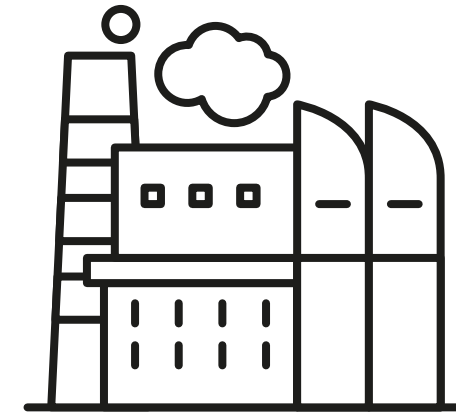




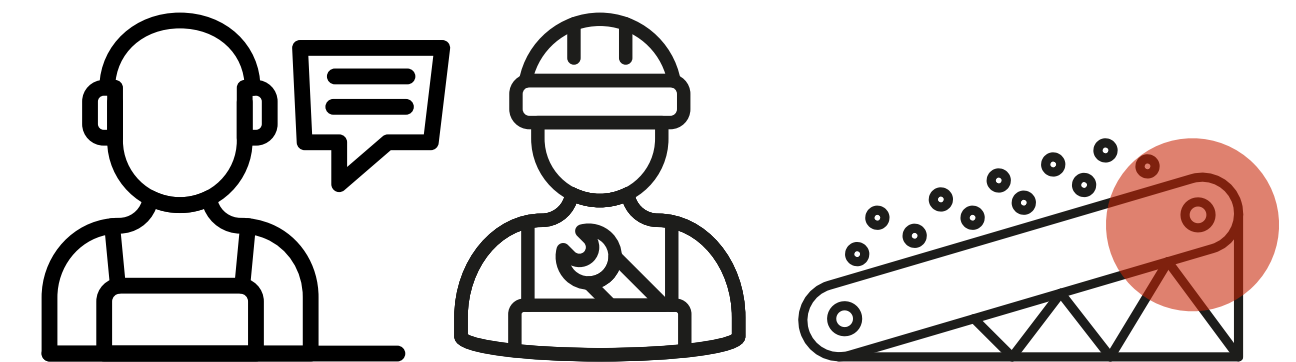
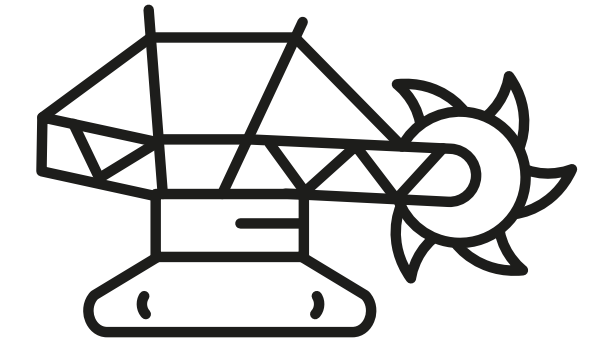
# Using AR for better maintenance and service

Send a service representative around the world

Manufacturer



User



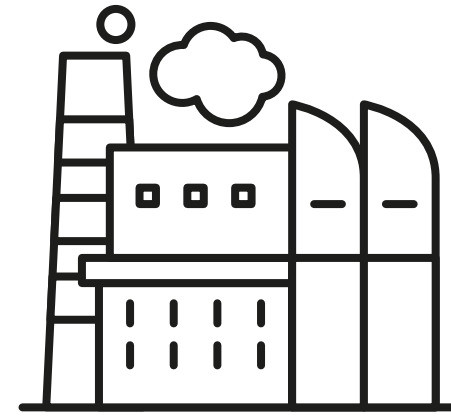


# Using AR for better maintenance and service

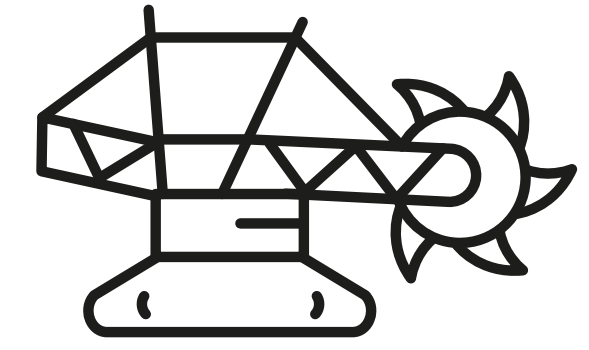
Help for self-help

Using 3D Content and Augmented Reality for a better understanding of the components and an intuitive step by step guide to solving the problem.

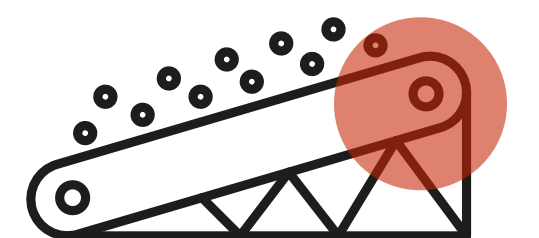
Manufacturer



User



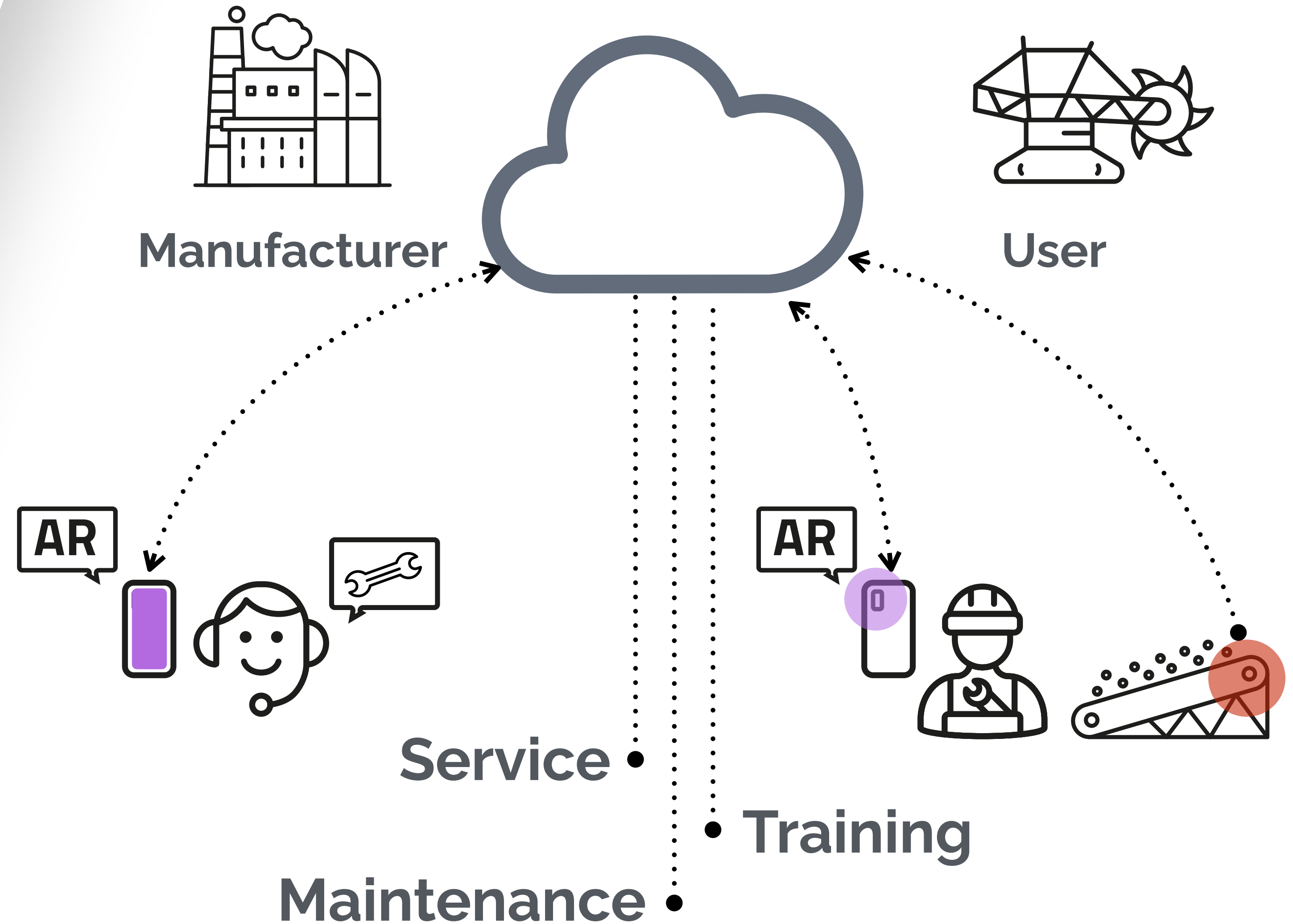
AR





# Using AR for better maintenance and service

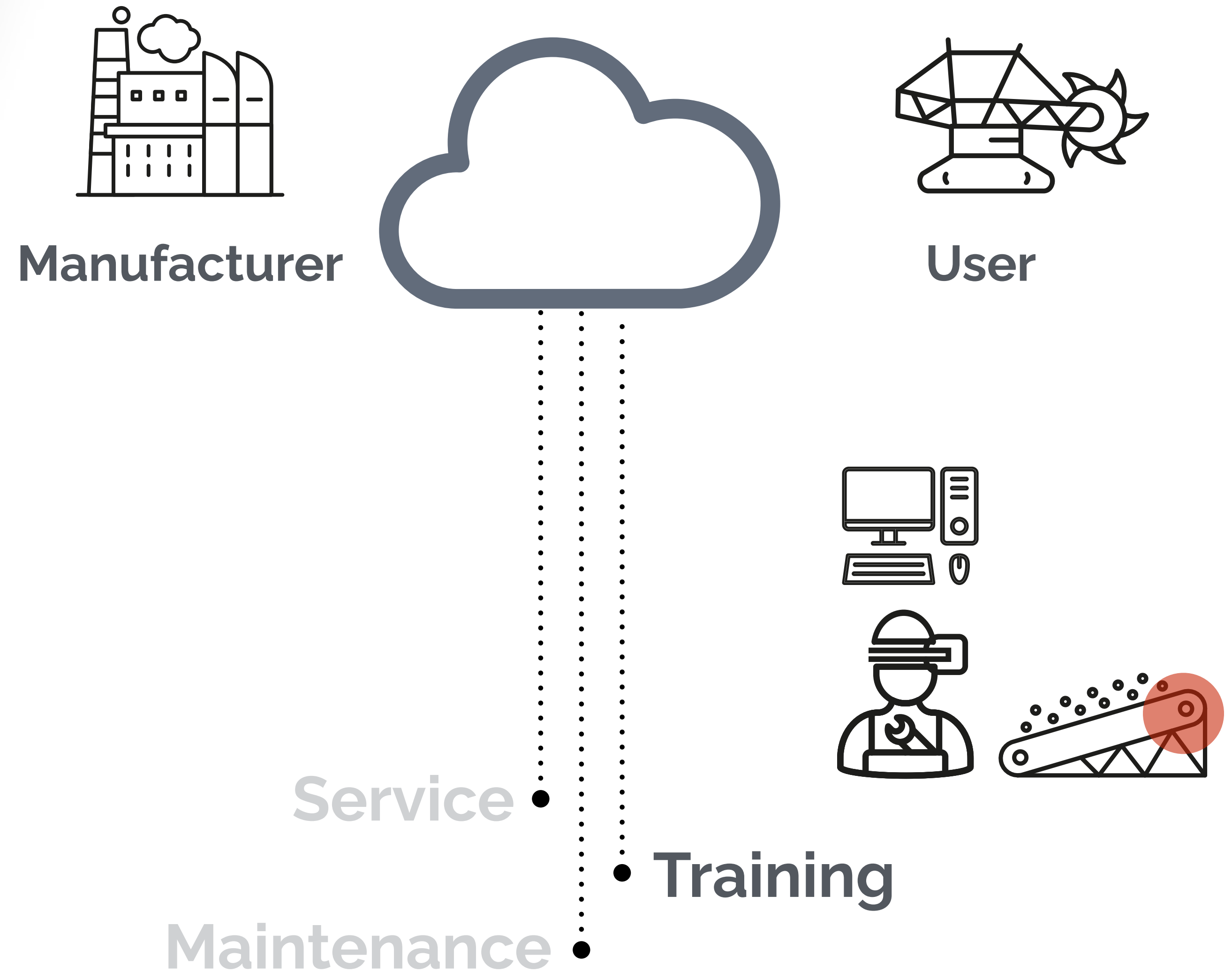
Launch a synchronized interactive AR session that optimally shares IOT remote sensor data and the smartphone camera stream.





# Why using AR with smartphones and not XR or VR?

VR is perfect when a complete permanent workspace can be set up. For spontaneous applications, which are often performed only once or twice in 6 months, the technical and training effort is too high.





How can we leverage these developments and opportunities in industry and bring them to life?

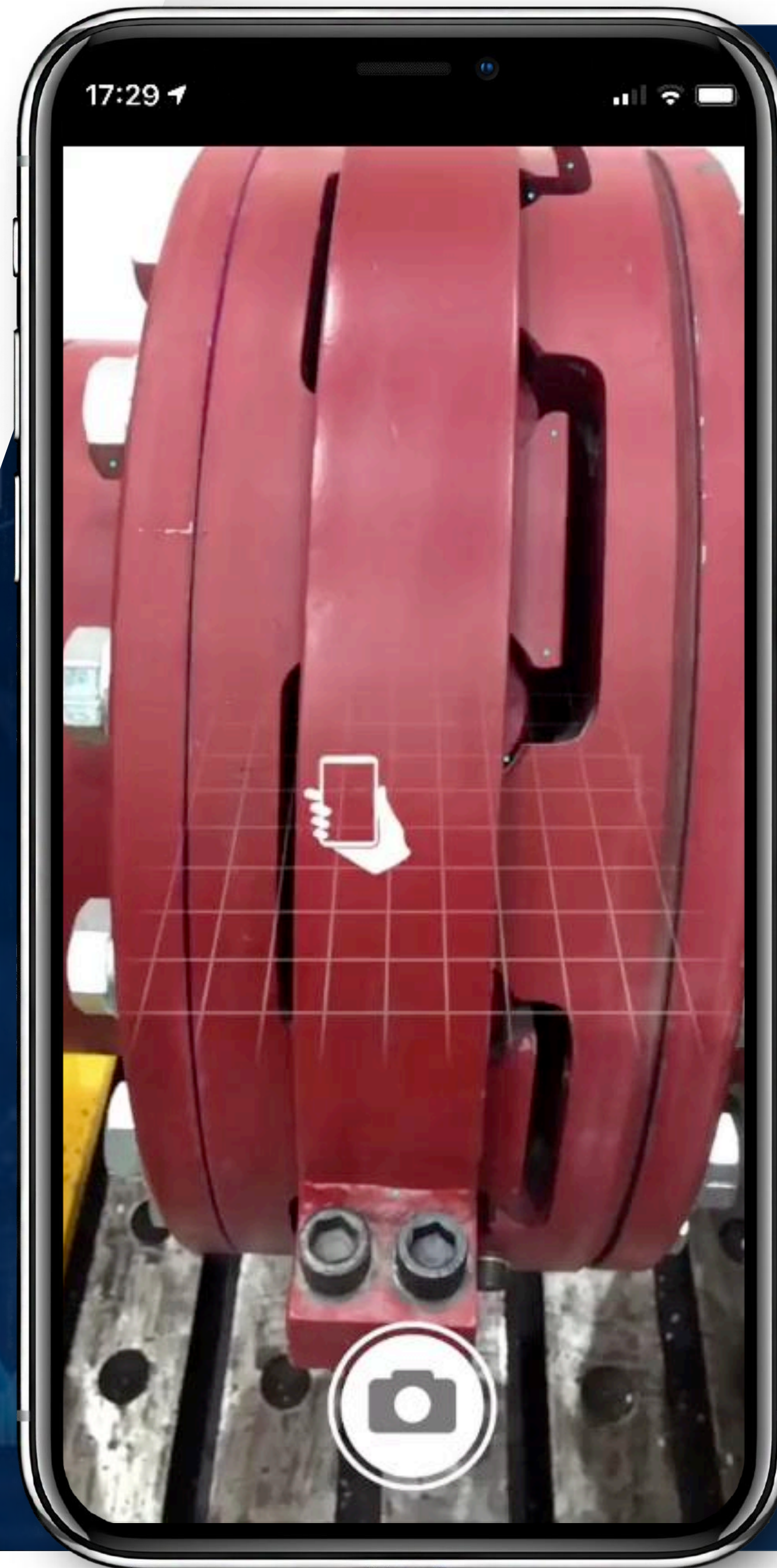
Cooperation with the ‚Brain Group‘ of Vulkan do Brasil, augmentify & cynapsis





# Giving the user a better understanding of the product

work in progress

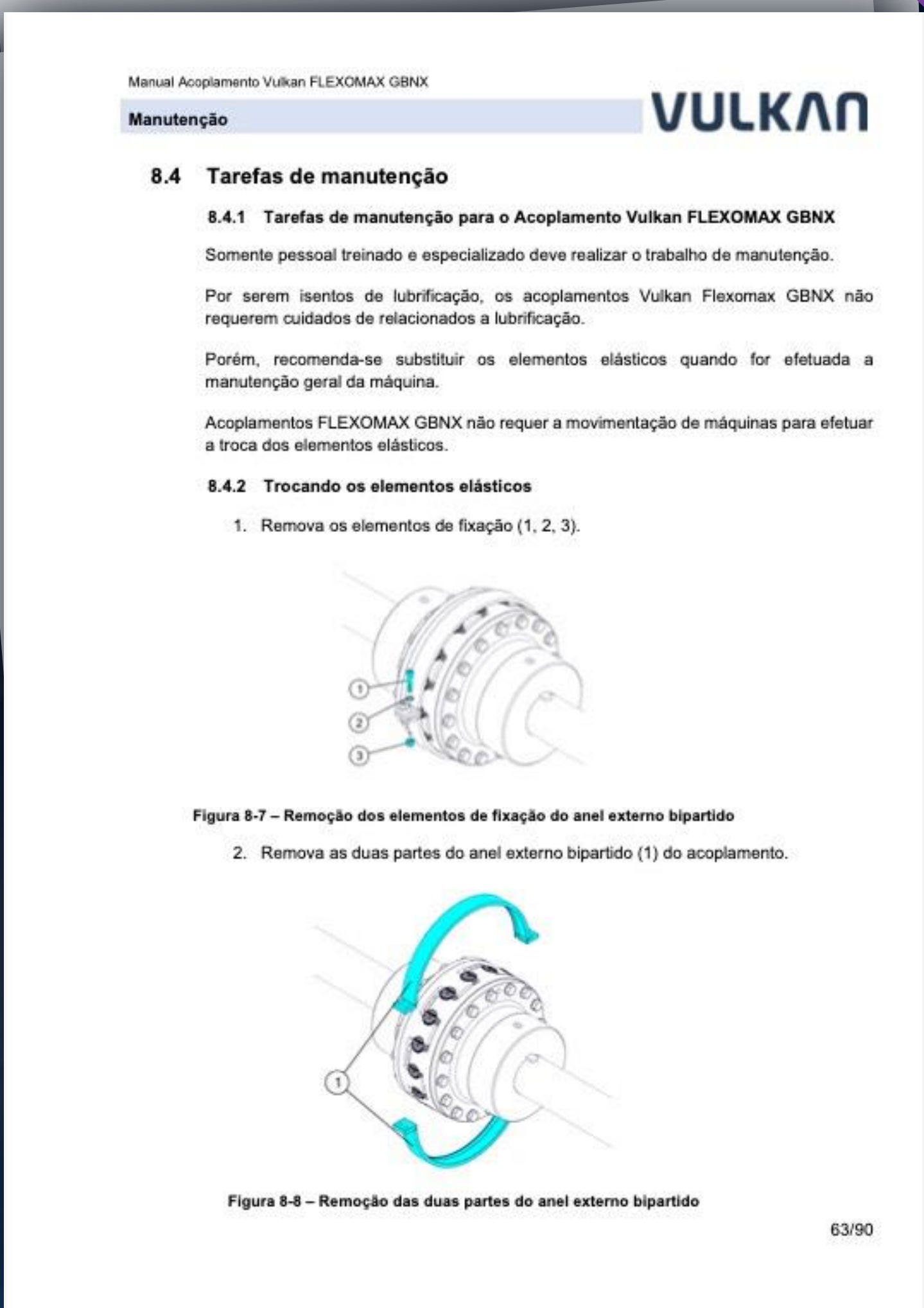




Giving the user a better understanding of the product

Assembly support, service & maintenance

Use animation, interaction, and step-by-step navigation to perform more complex tasks independently.



work in progress



# Visual twins – based on data twins



Leverage interfaces and the Data Twins' sensors to gain direct and synced insights into product operations and functions.

Visualize the condition and maintenance needs of a technical component.

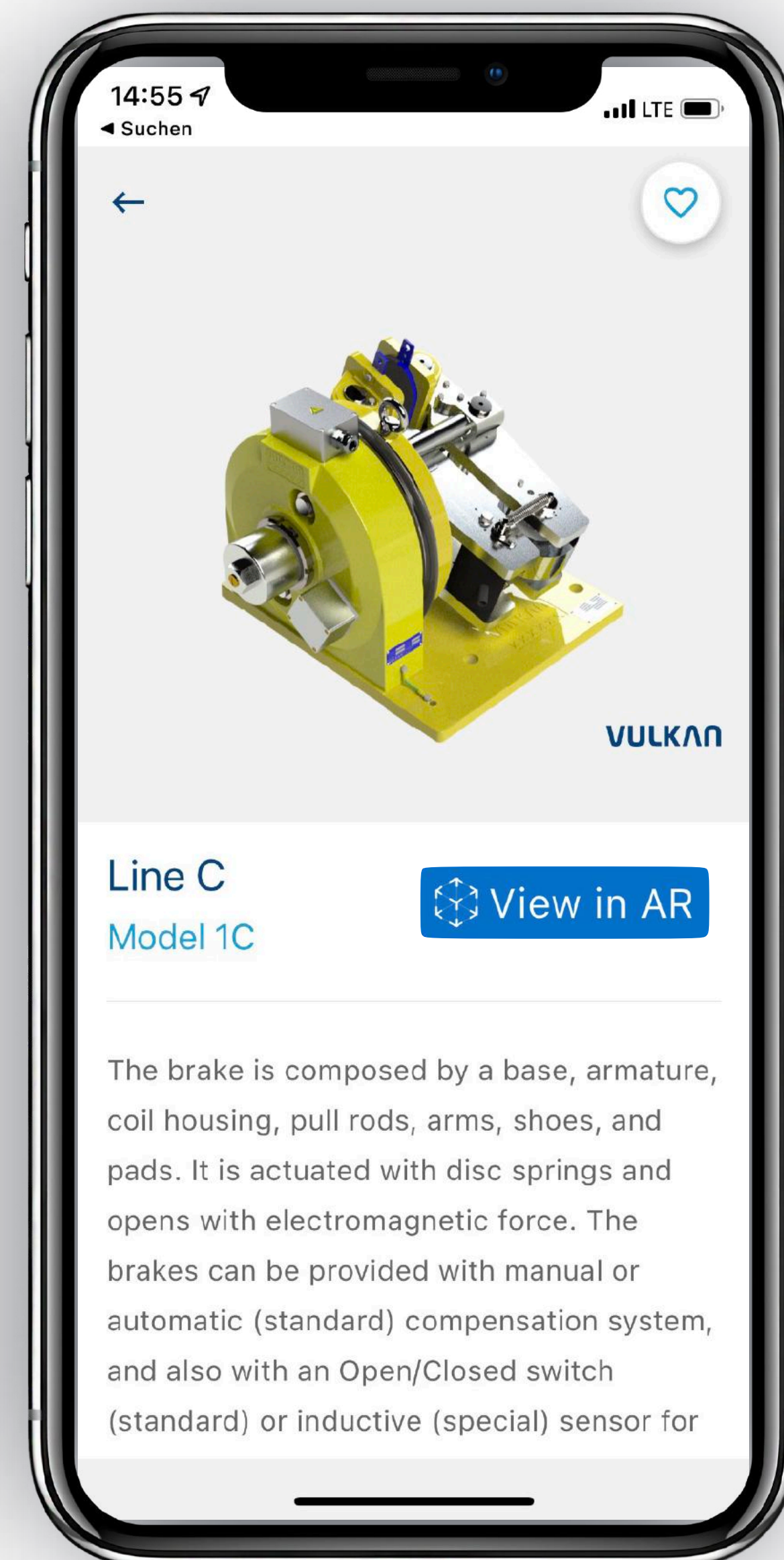
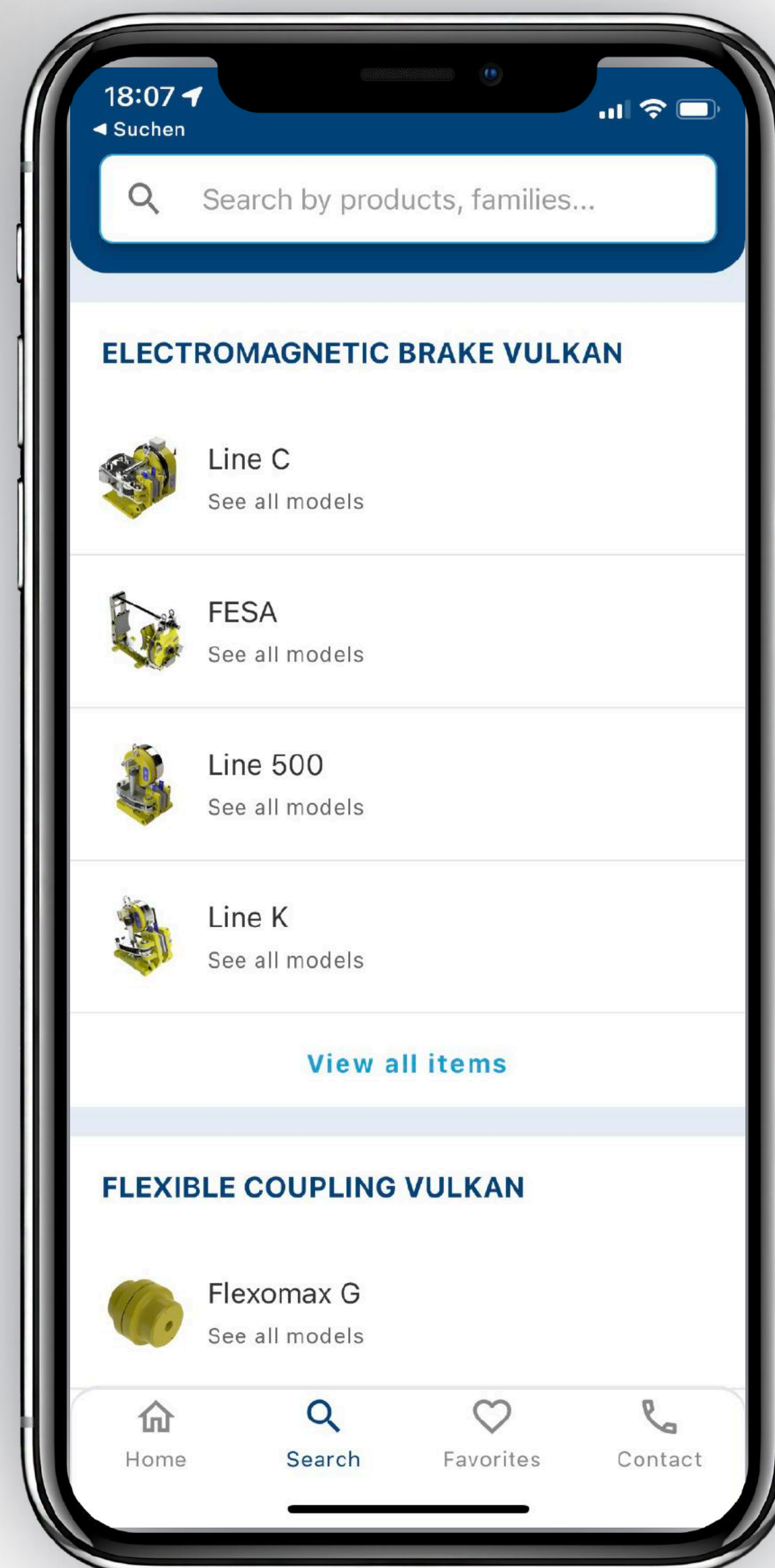


work in progress



# augmentify the Vulkan App

Have a better and interactive  
view of the products.





# augmentify your apps

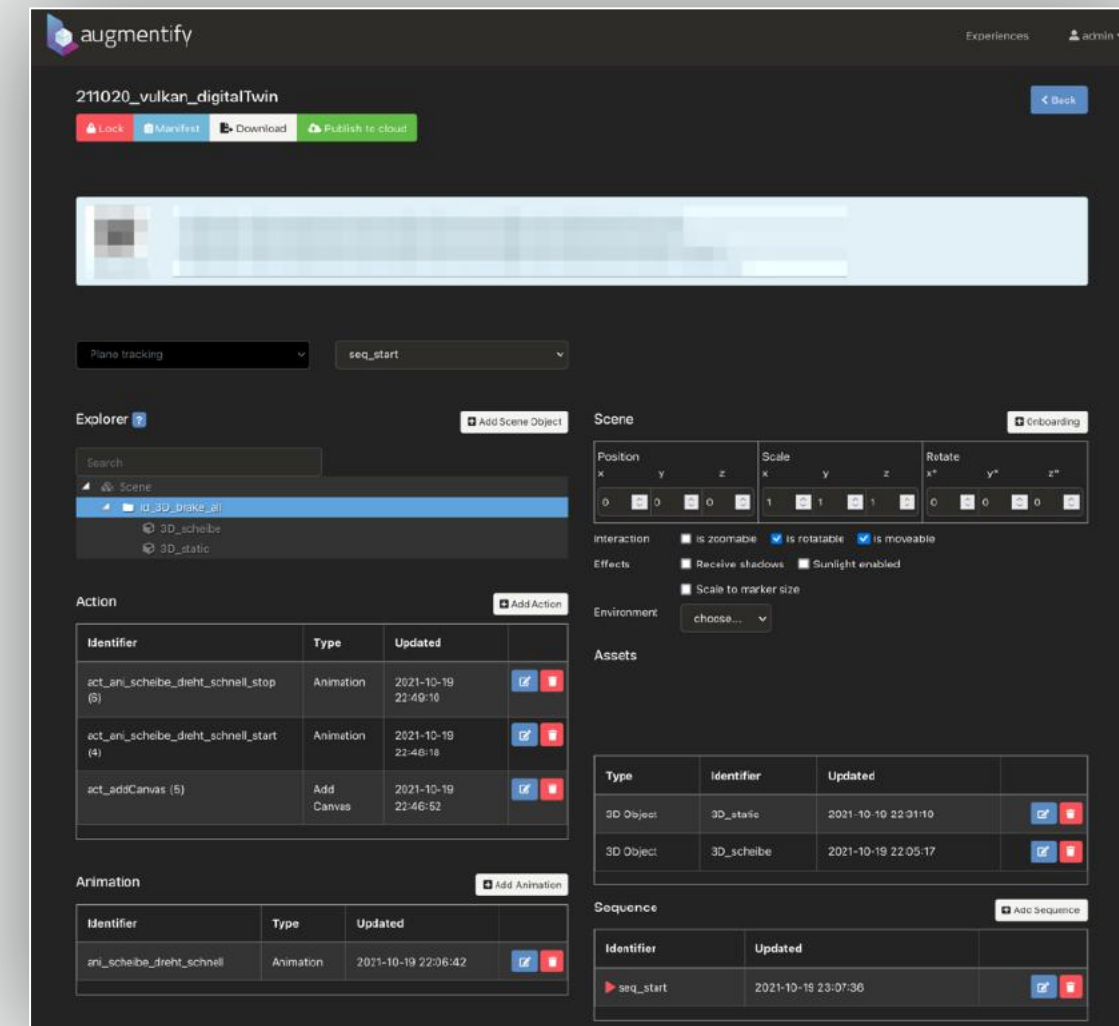
## Web CMS for AR Experiences

Simple inject the content in  
iOS and Android Apps with  
one click

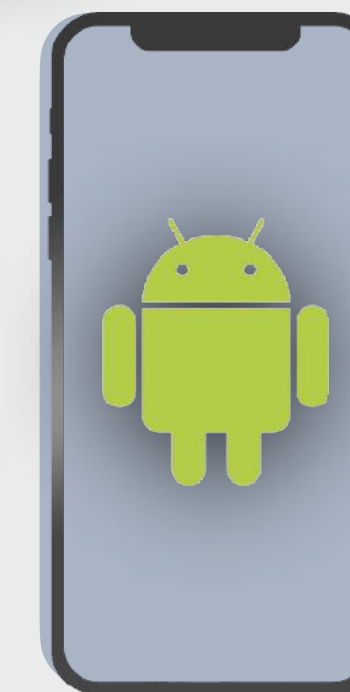
For new or changed  
content no app update by  
the user is required



**Your 3D Data  
(CAD/Step)**



**Build  
AR-Experiences  
with the  
augmentify  
creator**

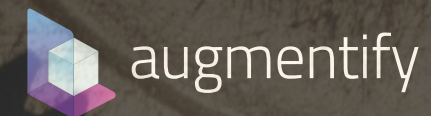


**Display AR in iOS  
and Android apps  
equipped with the  
augmentify plugin.**





# THANK YOU!



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