



# AUGMENTED KNOWLEDGE

Augmenting Human Intelligence



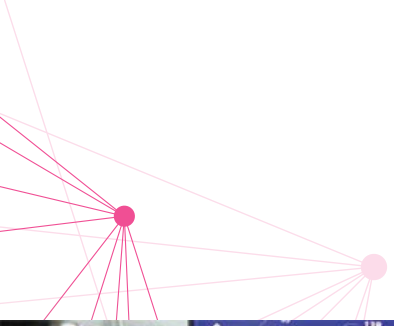


## Q. What is Augmented Knowledge (AK)?

---

-Augmented Knowledge is the combination of 'AR' and 'AI', both of which are already in use, to 'observe' the target's problem and 'apply' related solution simultaneously.

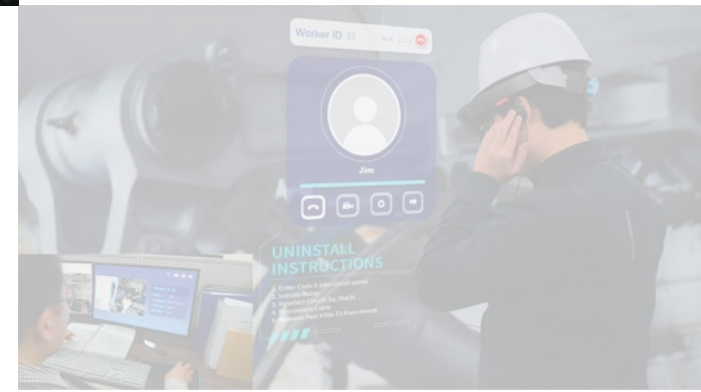
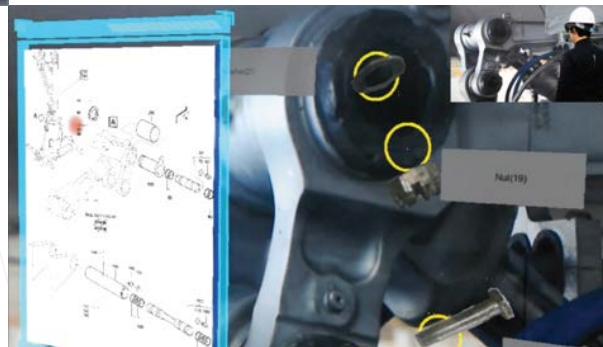




## Q. Are there any actual use case?

- Airplane maintenance training programs no longer require expensive airplane bodies thank to the utilization of AR, VR, and MR. For example, the central manager can allocate related technical information to each worker, and each worker can reference allocated information to maximize maintenance efficiency.

Such process can become a key killer item in the age of Corona Pandemic!

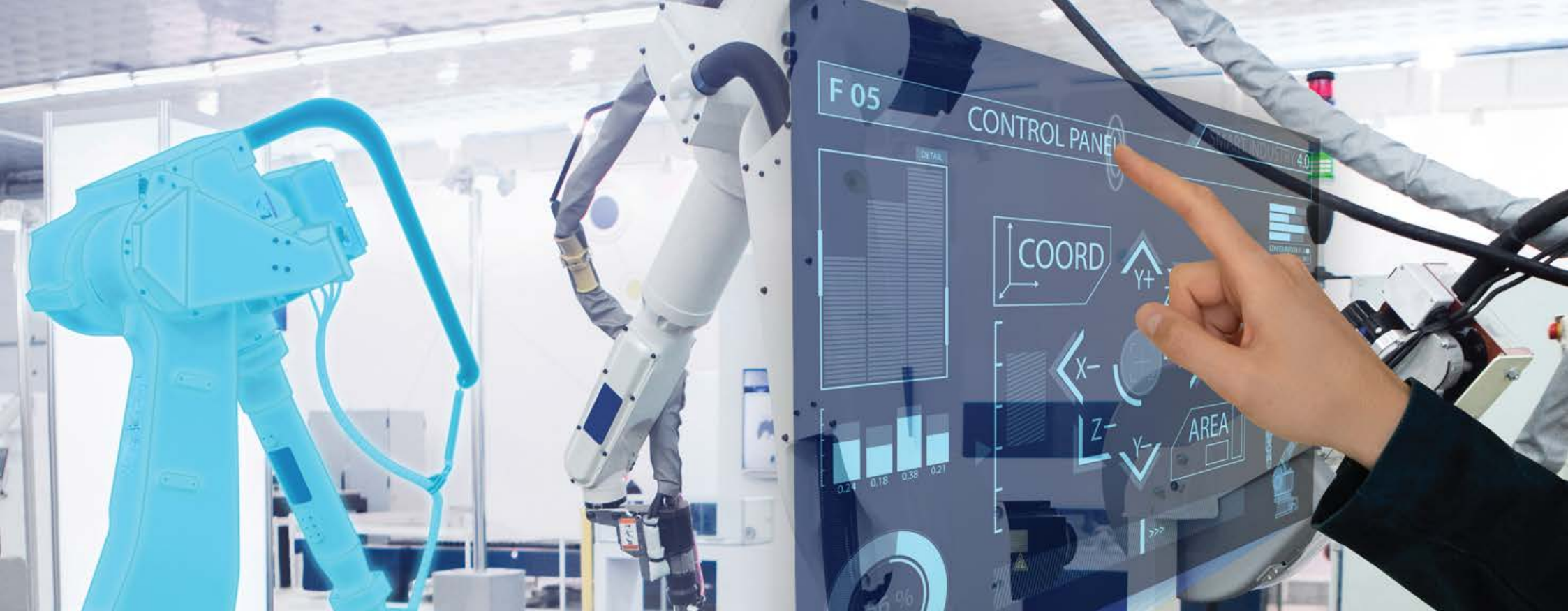




## Q. How can Augmented Knowledge be expanded and utilized?

- The utilization of AK is not just limited to mechanical equipment - expansion to traditional companies and smart factories are well underway. For example, a user can wear a Smart Glasses and look at the industrial machines to automatically receive cloud-based services such as reference to related documents (detail related manuals, blueprints), video resources, and detailed information through context awareness of artificial intelligence.



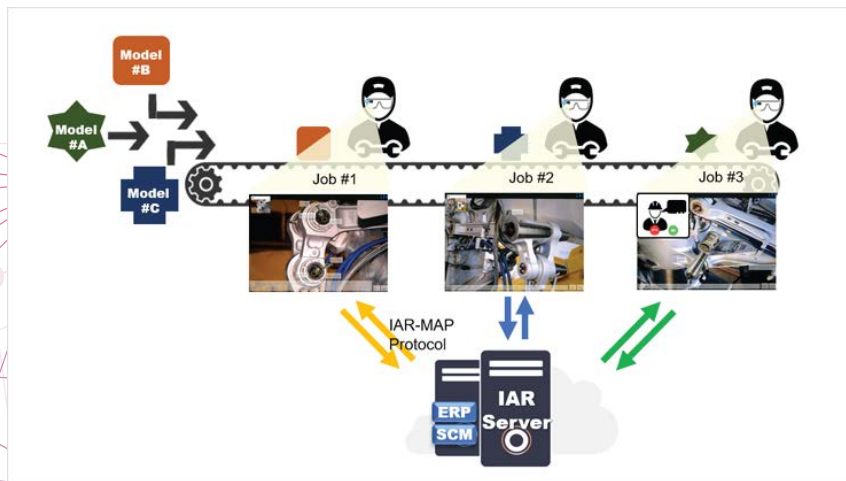


## Intelligent Augmented Reality Maintenance Platform

### Augmented Reality Platform for Smart Factory

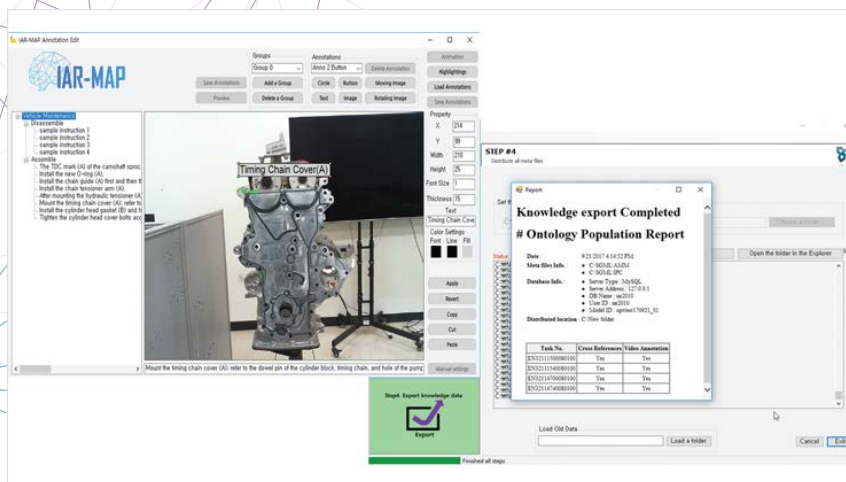
You no longer have to go through complicated manuals. You don't even have to compare the pictures in the manual with the actual parts one by one.

IAR-MAP (Intelligent Augmented Reality Maintenance Platform) is a platform that combines artificial intelligence (AI) and augmented reality (AR), and is an industrial augmented reality that augments technical information (manuals) on the work situation in real time within the field of view of each worker.



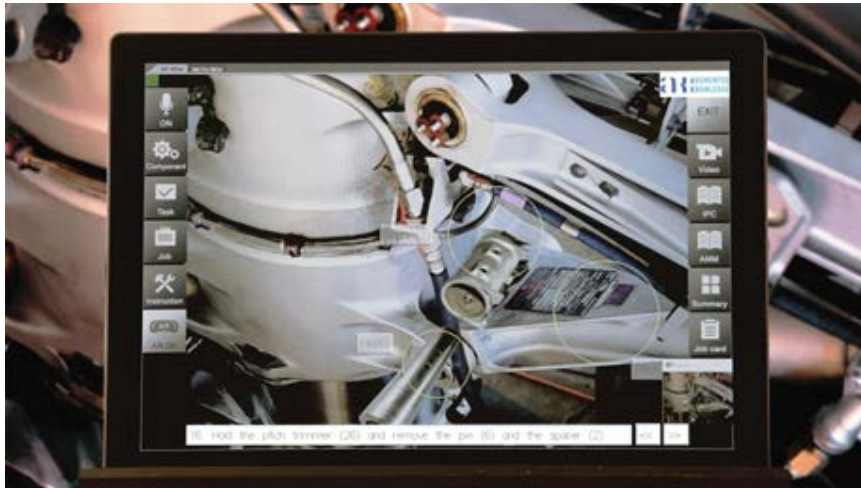
## AR content linked to legacy information in the cloud

AR contents linked to the work order contents of the manual documents held in the cloud are projected onto the real object through the smart class. One server can assign work order documents to each worker. This is a solution that can flexibly respond to frequent updates of manual documents or content expansion.



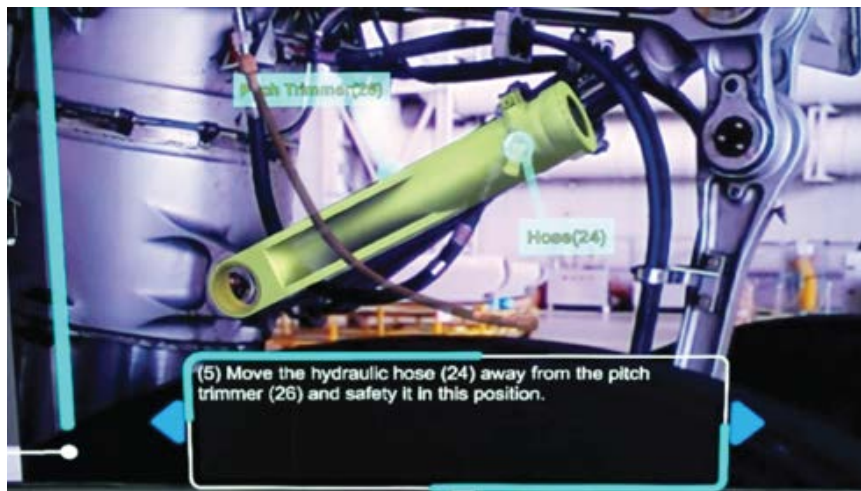
## Building efficient AR contents by tools

Our Knowledge Manager and Contents Creator convert legacy technical documents into knowledge and help you efficiently and quickly author AR contents. This is an effective way to convert vast amounts of technical information into AR contents.



## AR work guide for work situations

Operators no longer have to go through complicated manuals. By recognizing the work situation in real time, information necessary for the work is provided right in front of the operator's eyes.



## Realistic technician training and education

By utilizing VR/AR contents, it is possible to train technicians in the same environment as the actual work, and save time and money required for technician training .





### Cross platform support

It is not restricted by the type of device.  
Depending on the working environment,  
it can be used on all AR devices such as smartphones, tablets,  
and smart glasses .



### AR-based remote maintenance

Real-time communication is possible while 'field workers'  
and 'remote experts' share work situations and technical documents .  
In addition, remote experts can also monitor the status of work.

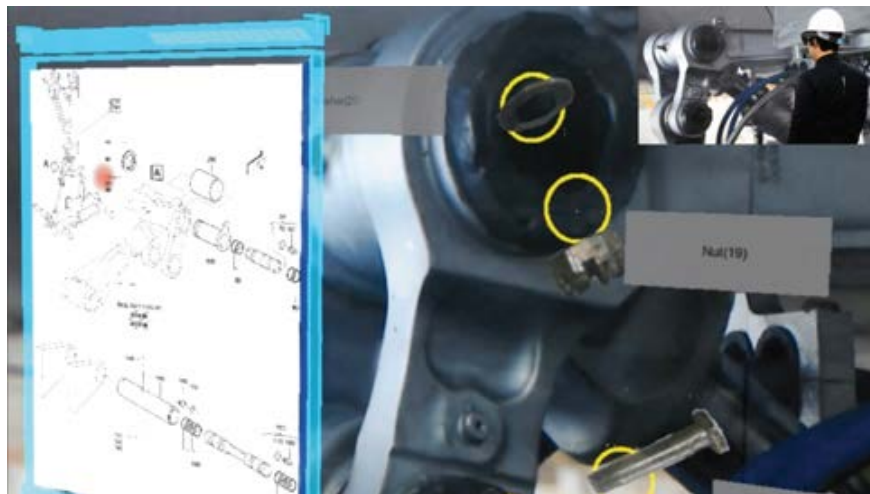




### Effective knowledge management

It automatically provides context-sensitive information from the server to each worker wearing smart glasses.

This can overcome the difficult problem of storing and managing vast amounts of industrial technology information in smart glasses .



### Increase work efficiency and prevent errors

Work order and method are intuitively provided without having to search through printed manuals directly and compare them with actual parts, thereby improving concentration of work, preventing operator errors and reducing work time.



# Thank you

AK will become a global AI company to reach beyond traditional AI services!

Industry Innovator-XR Platform supported by AI