

Mixed Reality: Is it just a hype or profitable?

First applications



Facts and figures 2016



What we stand for



With our products, solutions and services, our customers gain **valuable information** from their processes



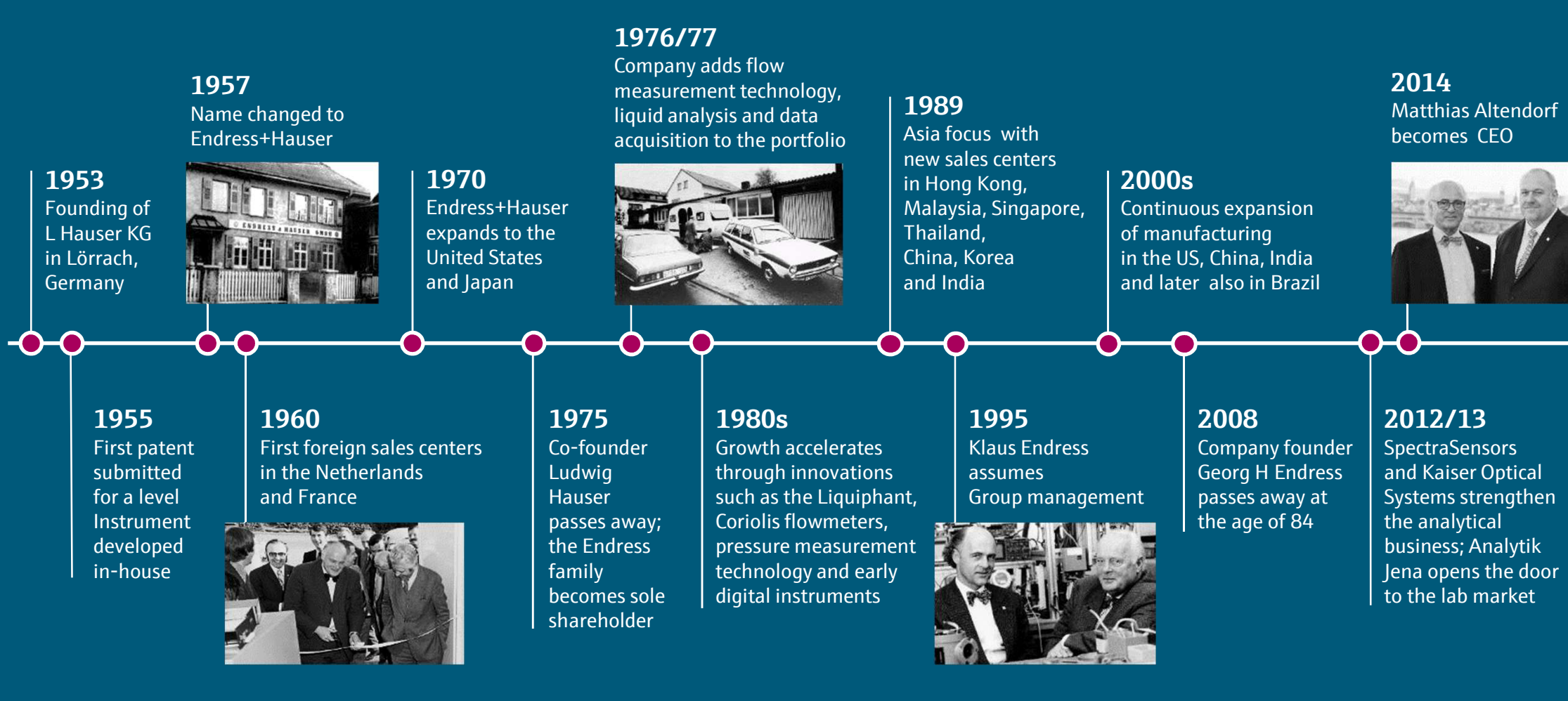
Relying on our **industry knowledge**, we collaborate with our customers to find the best solution for every application



As a family company, we act as a **reliable partner** for our customers, employees and shareholders



Company history milestones



Mixed Reality: Is it just a hype or profitable?

Applications of Mixed Reality at the moment



<http://www.pcgames.de/Pokemon-GO-Spiel-56108/News/Update-0750-mit-sinnvollen-Aenderungen-1238578/>



<https://www.darfdesign.com/blog/category/augmented-reality-gaming>



https://www.microsoft.com/de-de/store/p/power-media-player-mr/9nw2gvwkjz8z?cid=msft_web_cha



<http://www.breedcommunications.com/2014/07/retail-bites-how-augmented-reality-is-changing-the-customer-journey/>



<https://digiday.com/marketing/ikea-using-augmented-reality/>



<https://www.youtube.com/watch?v=5CRIJaA9X00>

The value for Process Automation in the project phase

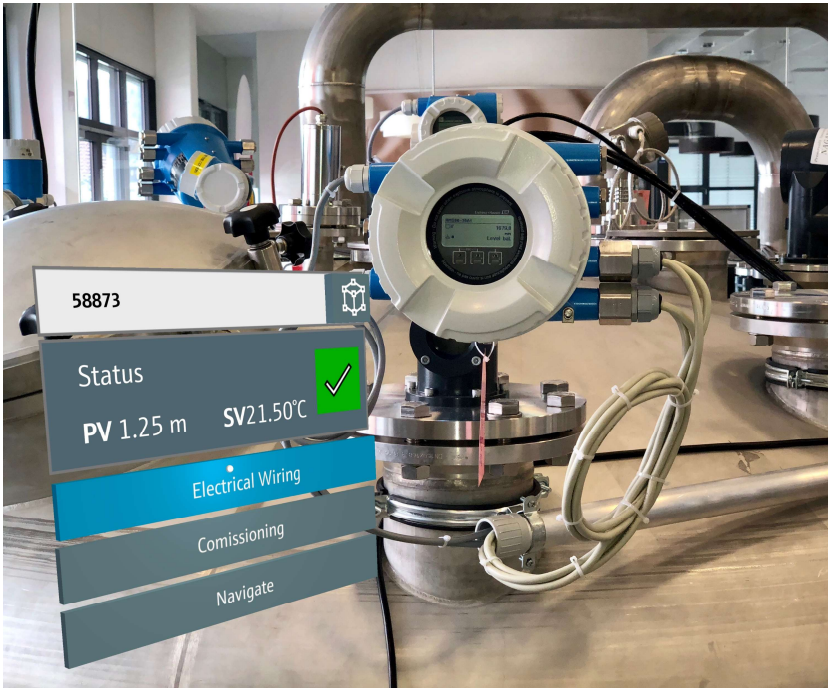
Greenfield

Transform 3D data into Mixed Reality and walk the plant before it even exists physically

Brownfield

Put the device virtually into the existing plant to ensure...

- all needed accessories are available and at the right place
- device dimensions fit
- spaces for installations are okay

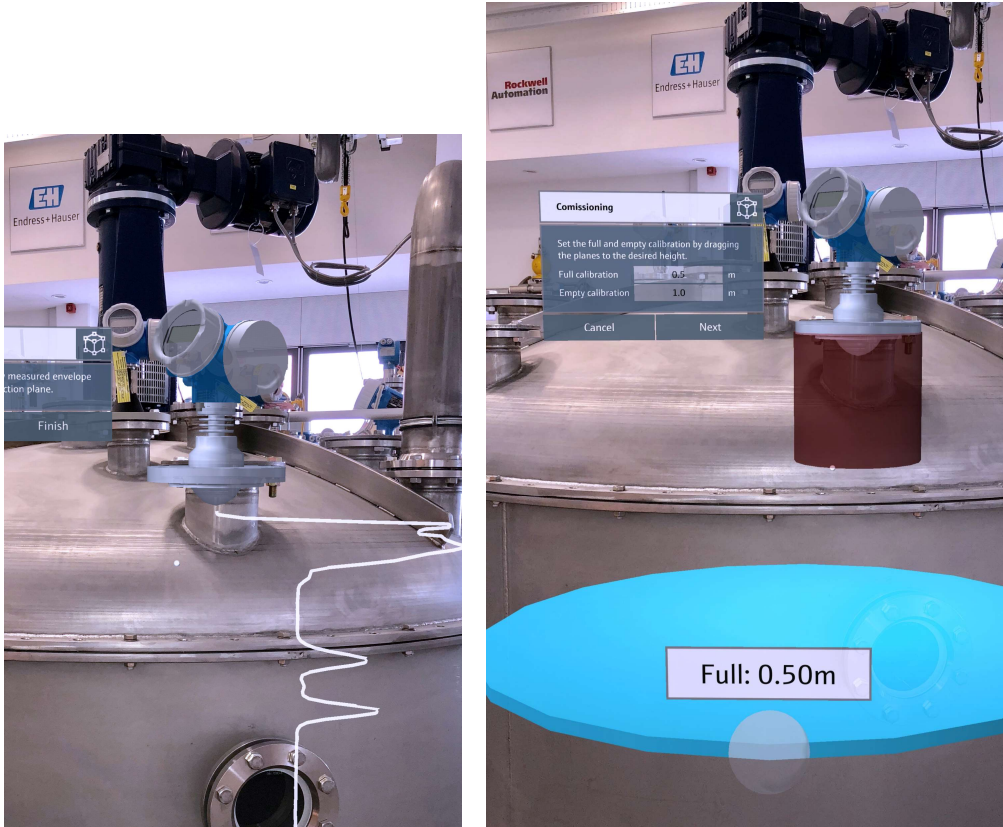


Planning for greenfield and brownfield becomes reliable and difficulties can be realized in advance.

Benefits in the start-up phase

Installation and Commissioning

- Step by step guides for installation and commissioning to ensure that all is done
- Additional training possibilities with each step to increase knowledge of the workforce while doing their job
- While installing the device the position data is stored for later navigation



Increase the quality and reduce time for installation and commissioning while training the workforce without sending them off-site.

The value for Process Automation during operation

Overview

- Get an overview of the plant by simply looking at it
- Additional information like status can be shown



Navigation

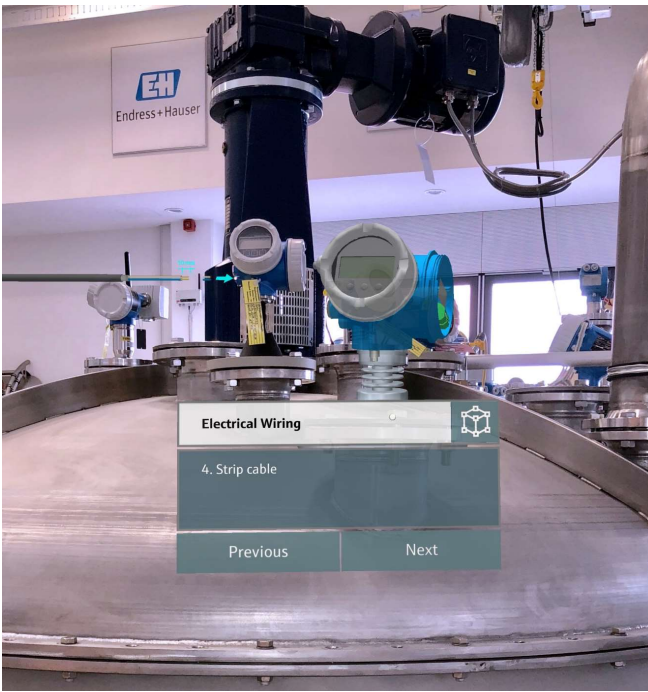
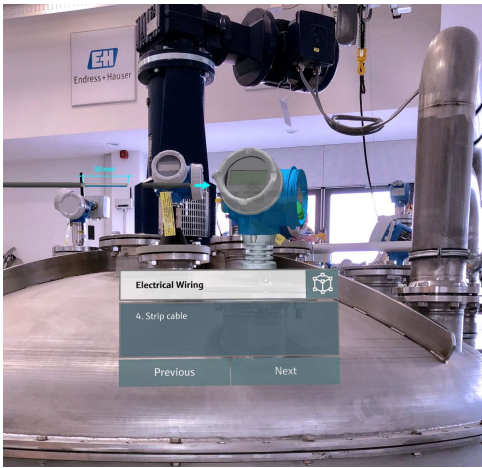
- Include Safety Zones into the 3D data.
- Ensure the safety of your staff and let them find the quickest way to their destination.



Quick and safe navigation through your plant and always knowing the status of the plant.

Benefits for maintenance

- Navigate safely to the device, which needs maintenance
- Once at the device get a step by step guidance to fulfill the task
- Get additional information to ensure a fast device repair
- If needed connect to a specialist for help



Increase your plant availability with the help of step by step guides and remote maintenance.

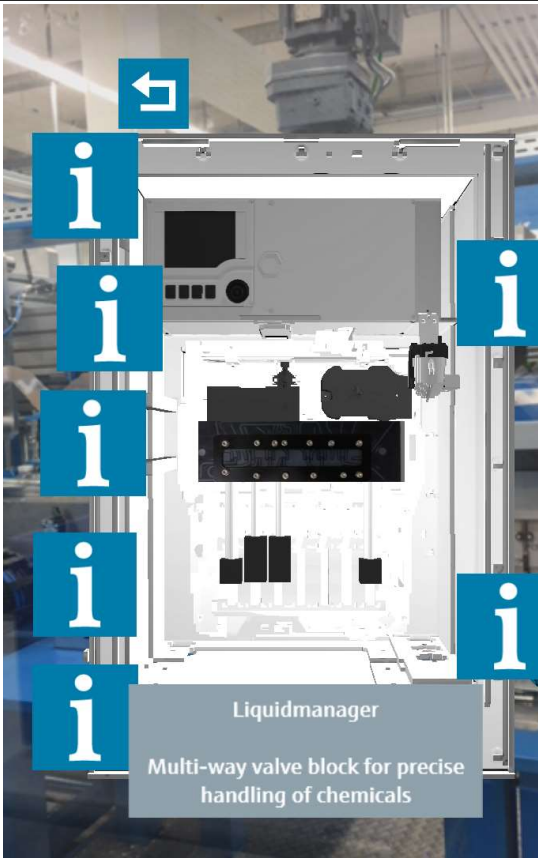
Benefits in regards of spare parts and replacements

Spare part selection

- Find the required spare part in case of a failure

Replacement selection

- Easy guide to the right replacement device



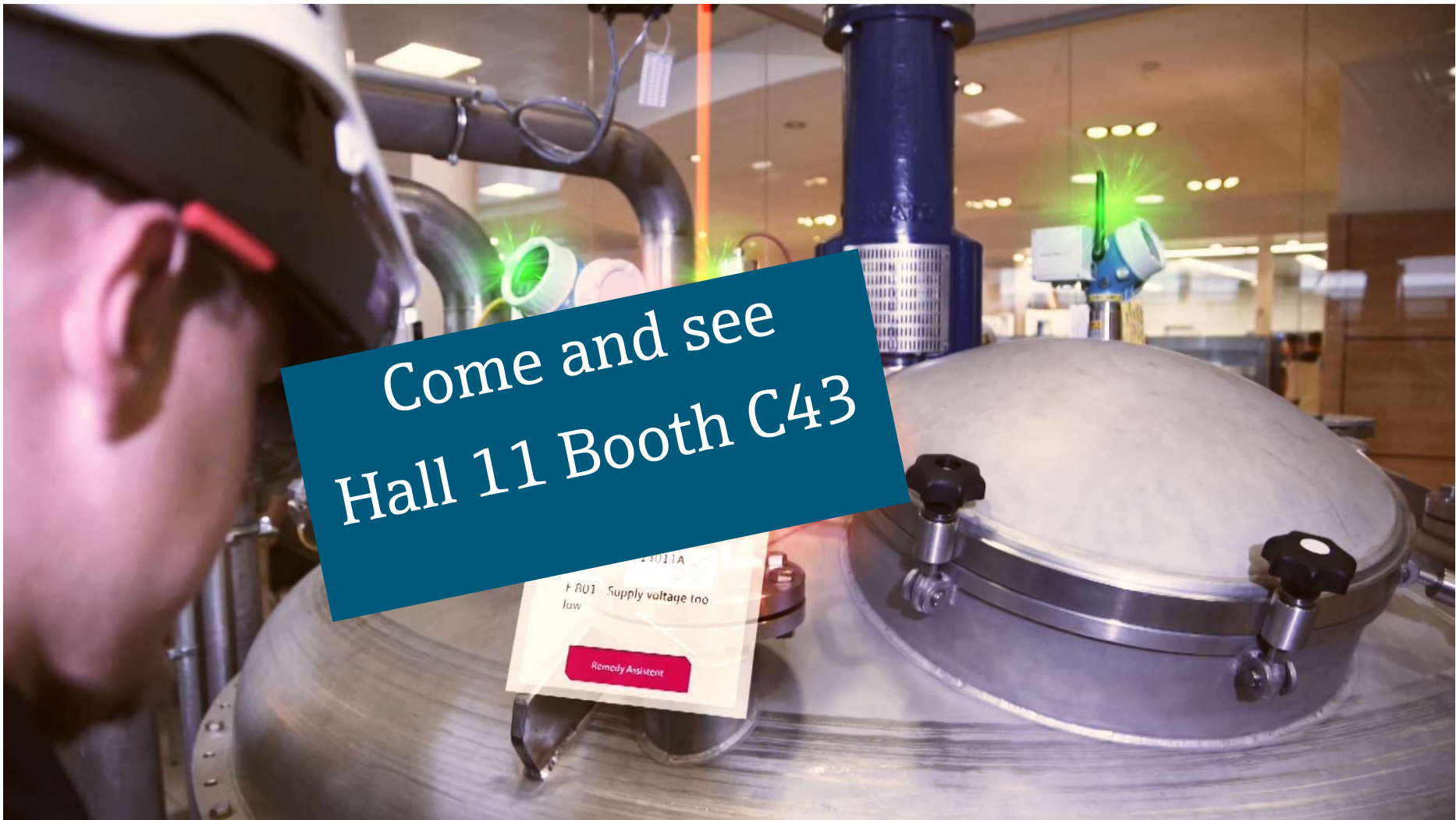
Ensure perfect fit of spare parts and for the replacement of devices.

Value for Process Automation – What do you think?



Mixed Reality: Is it just a hype or profitable?

Interested?



Questions?



Thank you very much for your attention

