

Digitalization in the German Water Sector – Challenges of today and tomorrow"



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Reality is changing





AR-Augmented RealityVR-Virtual Reality360 Degree Cameras

Are changing our views



Emschergenossenschaft 2019 - BIM

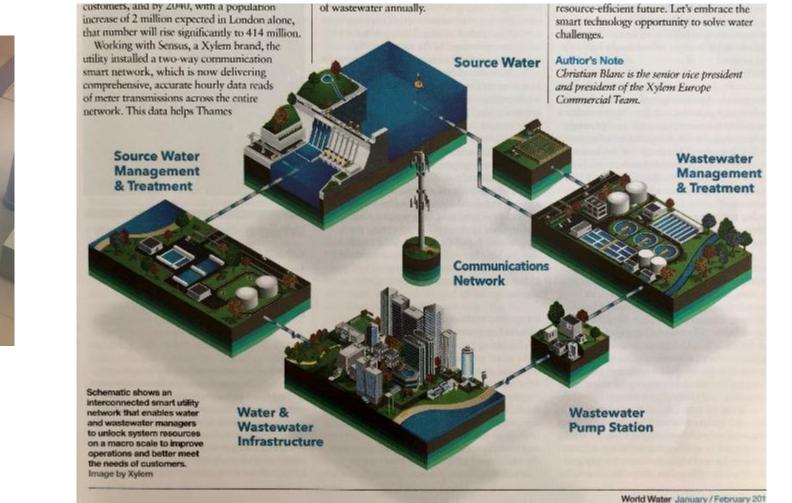






Connected Systems – learning in models – everywhere are data



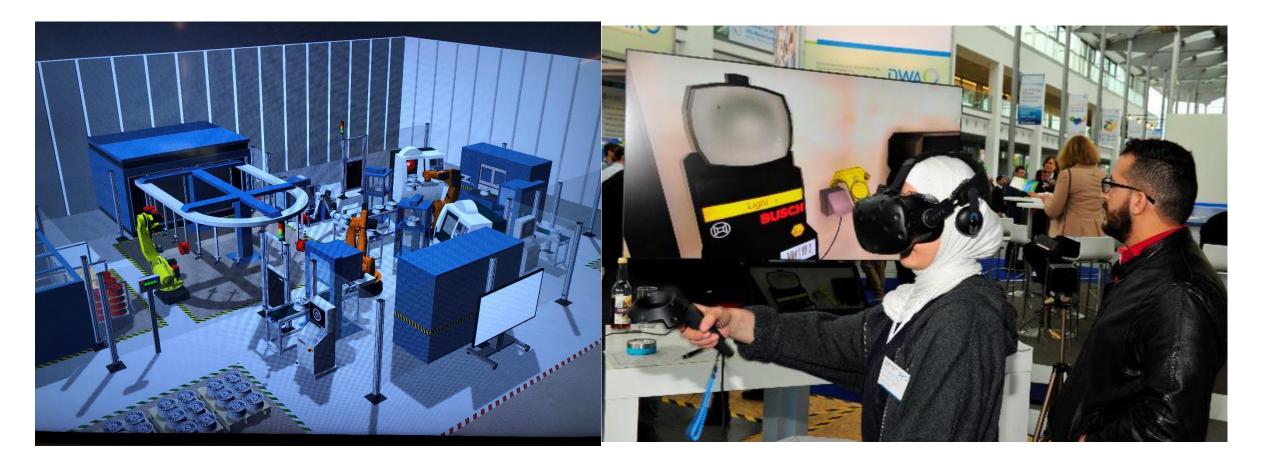






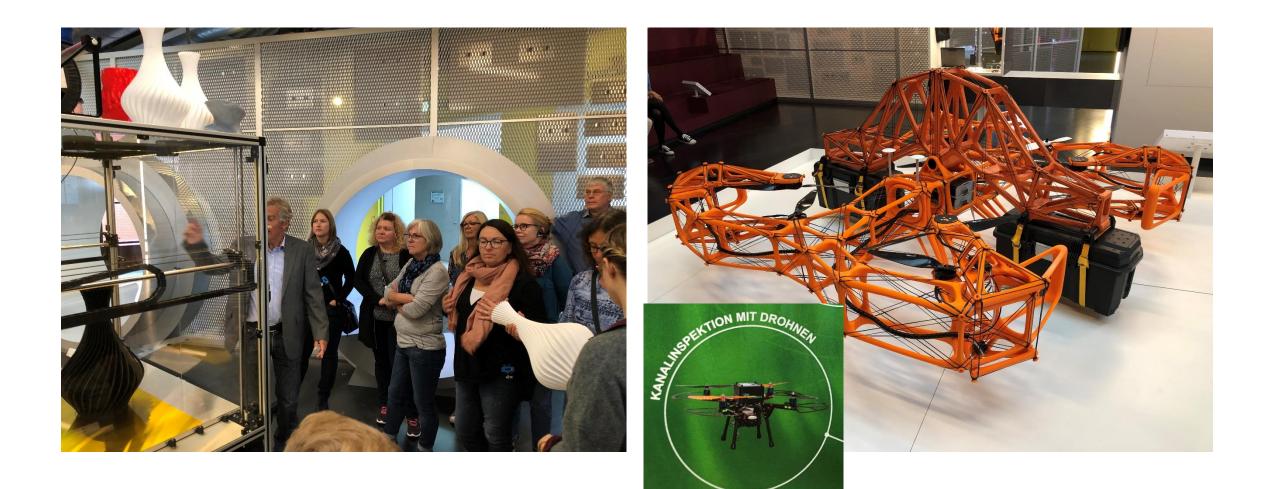
Digital Factories – digital Twins in Water





3-D Print and Drohnes





New sensors – IT, Cloud, Artificial Intelligence



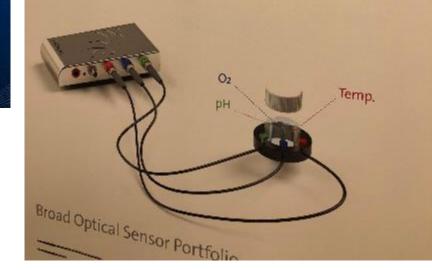






Optical Sensors for pH, O2 & Temp.

One-Device Solution with the new FireSting pro



From Text to Pictures/Videos – new learning





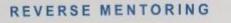






Older Teacher have to learn as well







CHEFS WERDEN SCHÜLER



WorldSkills – Youngsters Learning,



"Water Technicians" a new skill – the roadmap 2013 -2019



DWA Members were asked





For more Information – see my Playlists in YouTube

Water Training in Germany/Deutschland

Plants

QR Codes auf Kläranlagen

Ruediger Heidebrecht

Ruediger Heidebrecht

Wo geht es hin?

Ruediger Heidebrecht - 5/16

X









Environmental engineering - what will happen in the next years

DWA Deutsche Vereinigung für Wasserwi...

Berufsbild Umwelttechnische Berufe -

OR Codes on Wastewater Treatment

E4

DWA Deutsche Vereinigung für Wasserwi...

German Water TVET for Worldskills Rüdiger Heidebrecht







https://www.youtube.com/watch?v=8 tYv0OJ3Xms

8 Minutes Videos

Why we have to update the water jobs.





