Delivering Interactive WOMS

Utilising VR, AR & MR

Glen Peek
A lot of work in every drop

- 3 ½ million customers, 1.4 million homes & businesses
- Over 800 million litres of water supplied daily from 98 treatment works ~26,500 km of mains
- 838 sewage treatment works ~30,000km of sewers
- 1 million visitors with 70,000 school children
- 4500 km coastline and 105,000 acres of land
- 4th largest company in Wales, with 3500 colleagues
- Investing £1.2 million a day
The Challenge

Complex Operational Information

Show some innovation

LEAN Working
Award Winning Innovation

WE WILL EARN THE TRUST OF OUR CUSTOMERS EVERY DAY

Staying safe and delivering for our customers.
Welcome to the IWOM

- Critical safety information
- Induction - Videos & emergency schematics
- VR 3D rendered model of the asset
- NFC / QR data collection & submission
- LEAN process
- Visual display of operating choices – AR overlay of plant & process information
- Automated forms, procedures & data recording
- POI mapping - GPS guidance
VR
BIM drivers
3D Point Cloud Scans
Six meter 360° design pod
Output to CAD / NavisWorks
Hardware - Cedar CT7G

- Easy to use
- Lightweight
- Robust
- IP68
- Reliable
- Secure
- Intuitive in use
- Long battery life
- Price point
HMT1
IP 68
7 inch tablet
GPS & Gyroscopes
Full-Shift Battery
Wi-Fi & Bluetooth
Voice Controlled
16MP Camera
WorkfloPlus
Vuzix Blade

- Internal Battery
- 8MP Camera
- Voice Controlled
- Colour See-thru display
- Dual Haptic feedback
- Noise cancelling
- Touchpad
- Android OS
- Micro SD
Meet the twins
Why - VR, AR & MR?

• Increases efficiency
• ROI - Achieved within one scheme
• Drives consistency and accuracy
• Accelerates & streamlines processes
• Tracks maintenance & reduces errors
• Validates tasks and enhances diagnostics
• Non-specialised operators can perform complex activities
• Records, forms, reports and receipts are generated automatically
What's Next

- Dams, Networks & OJEU
- Enhance visual, edge based or markerless tracking
- Overcome security concerns
- Enhancing remote assistance
- Share best practice
- Haptics & Biometrics
- New wearables
- Developers
- DMS

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Thank you. Any Questions?