

Intelligent Asset

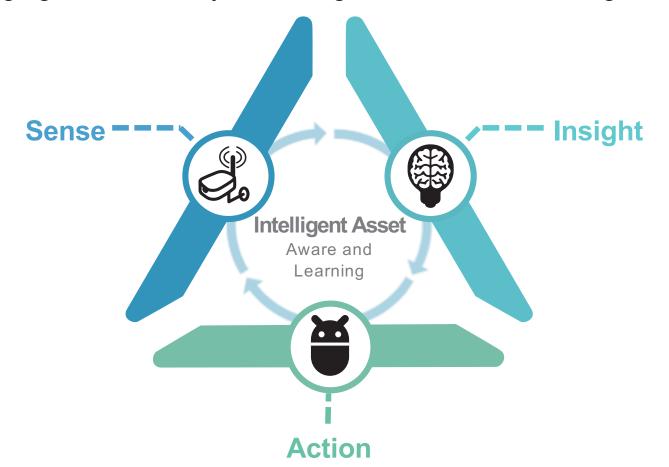
Imagine...

- + Facility info available remotely compared to being there in person
- + Humans only need to enter hazardous zones for complex tasks
- + Ability to focus on decision making and other value adding improvements



Intelligent Asset

+ Merging of several key technologies to create a learning asset







Sense

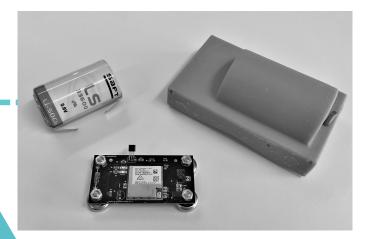
- Internet of thingsNetworksSmart Sensors





Intelligent Asset

Aware and Learning

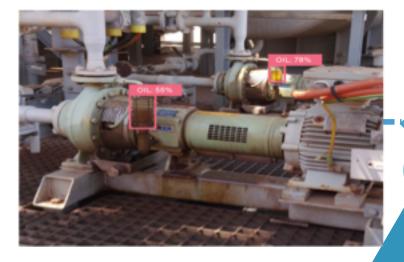
















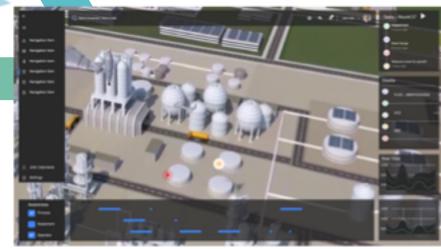
Aware and Learning





- Insight
 Advanced Analytics
 Decision Support
 Digital Twin
 Augmented and Virtual Reality













Intelligent Asset

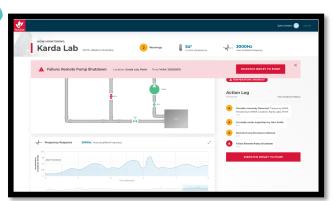
Aware and Learning



Action

- Automation and Robotics
- Learning Control SystemsSystem Integration and automation of workflows





Fusing it all together



Lessons from Sensor Development

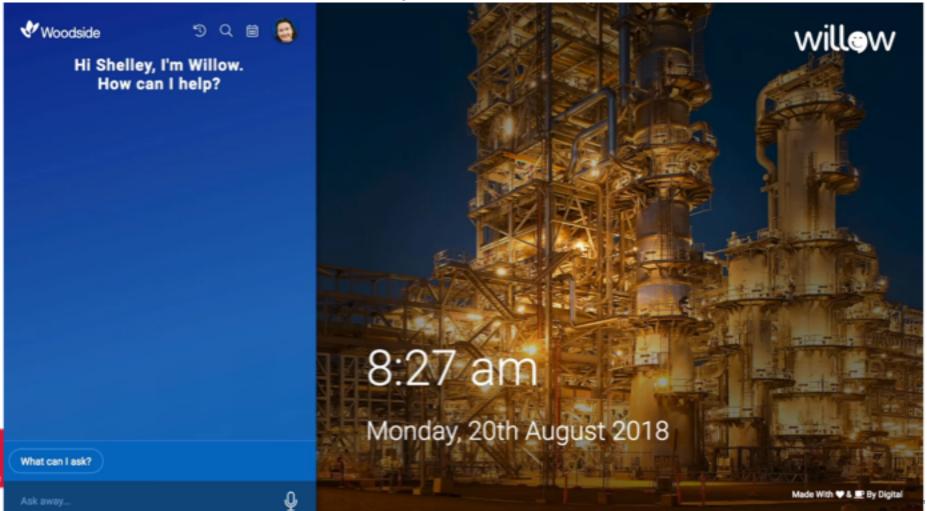
- Low cost market disruption
- + Rapid prototyping
- + Issues with scaling fast
- + Practical deployment on site
- + Communication infrastructure
- + Collaboration with certification body



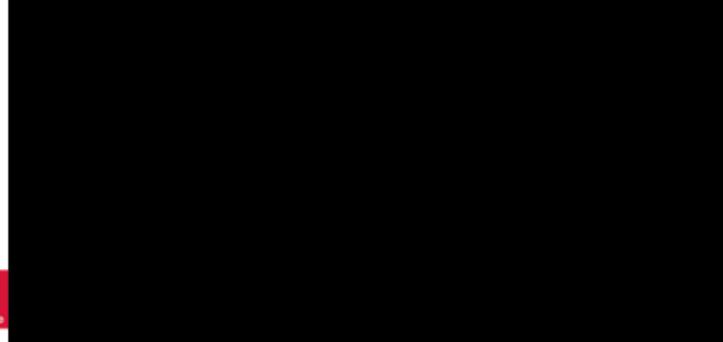




The Al Journey – Watson and Willow



Robotics on Site





Robotics on Offshore Assets





Lessons from Robotic Deployment

- + Practical deployment on site
- + Communication infrastructure
- + Engagement with operations
- + UI and UX considerations
- + Collaboration with partners







Thank You





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