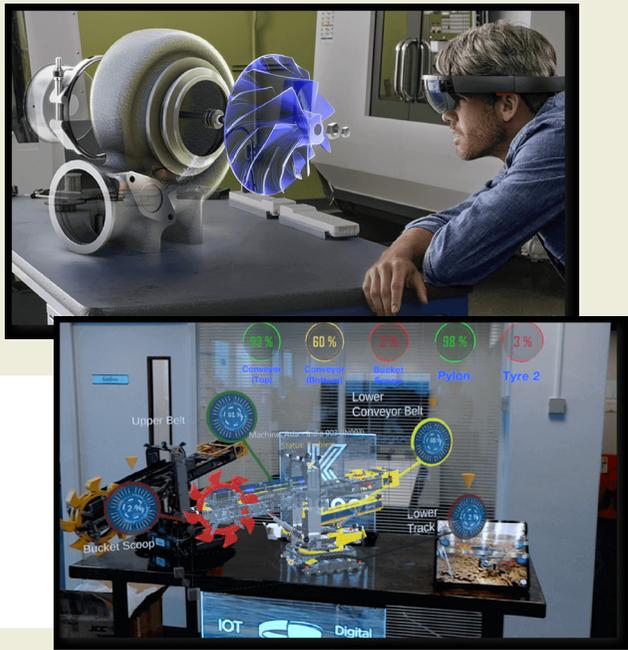


EXPLORE: IOT & AZURE DIGITAL TWINS

Kagool provide consultancy services and can provide a free POC to demonstrate how IoT Telemetry Integration and Digital Twins can help your organisation to get the best from its resources through the power of technology and the exciting and evolving world of IoT.



WHAT?



Azure Digital Twins bring your data from IoT and other data sources to life, creating an always-up-to-date digital version of your environment that is scalable and secure. Using the HoloLens and sensor telemetries for Azure IoT Hub, Kagool can create a virtual double of your equipment, building, facilities – the possibilities are endless.

HOW?

The HoloLens provides an interactive hologram displaying near real-time IoT telemetries.



Using the IoT Sensors (Vibration Sensors, Temperature Sensors, Camera, etc.) allocated at specific points on the equipment, the Sensor Telemetry is pushed into Azure using Reference Architecture, and then AI is used to determine statistics and report on the allocated areas. The Telemetry data can then be used to report back into a holographic Digital Twin.

The 3D hologram 'Digital Twin' is visible on the HoloLens device, and it shows the equipment which has been fitted with the sensors in digital form, providing a 3D spatially aware contextual view of the data.

WHY?



- Equipment can be virtually disassembled to get to root cause of issues, preventing the need to take the physical equipment apart to establish an error.
- 360° view of the equipment – especially beneficially for larger equipment.
- Explode the sub-assemblies to explore specific parts in more detail.
- For large environments recreated with a Digital Twin there are no limitations with accessing different areas that physically would have been inaccessible.



- Use the Digital Twin to find errors and report back to the maintenance team to rectify the physical equipment, speeding up the maintenance process as the exact location and error is recorded.
- Analytics report back problem areas via alerts to email/phone.
- Time series analysis of failures via Power BI or Azure Time Series Insights.
- Health bars demonstrated for the physical equipment to highlight errors through the HoloLens.



UNDERSTAND

- See, move and predict how people move through and interact with the spaces around them.
- Allows user to better understand needs and improve experiences.
- Uncover insights and see problems before experiencing them.

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Supporting You Throughout Your Project Lifecycle And Beyond...

Kagool works together with clients to fully understand business requirements and produce a strategy aligned with corporate goals. We have a proven record of identifying and utilising the correct approach to drive optimal business benefits, creating value for your enterprise.

STRATEGY



BIG DATA

Approaches for Industry 4.0, Advanced Analytics and IoT



SAP-CLOUD

Direct syndication & ingest solutions for Azure, GCP, Oracle



COMPLEX DATA

Experts working within complex data landscapes for Migration, Integration & MDM

PLAN



CONFIDENCE

Cross domain teams bring multiple lifecycle experience into planning, ensuring repeatable predictable outcomes



DATA QUALITY

Lead analysis and remediation activities across IT & business teams

DESIGN



DATA MANAGEMENT TOOLS

Define robust Migration, Integration and MDM processes that will be right first time



COEaaS

On-Demand access to cross domain specialist SAP resources

DELIVER



BUILD FACTORIES

Flexible delivery models for SAP, Data, Reporting and Analytics



HEALTH CHECKS

Benchmark your current Data Deliveries against industry Best Practice



RESCUE MISSIONS

Turnaround & Recovery of highly distressed SAP and Data Deliveries



REPORTING & INSIGHTS

Powerful reporting and Actionable Insight Generation



DATA TOOLS

Suite of Data Management products to accelerate delivery and ensure predictable outcomes

SUPPORT



MANAGED SERVICES

BAU support models for SAP, Data, Reporting and Analytics



SOLUTIONS

Tools to improve SAP in BAU - e.g. iDoc management



ADVANCED ANALYTICS

AI/ML Support for predictive Maintenance, Fraud Detection & Compliance, Product Development, Customer Experience & Innovation

Our Partners:

Microsoft

Google

ORACLE

SAP

