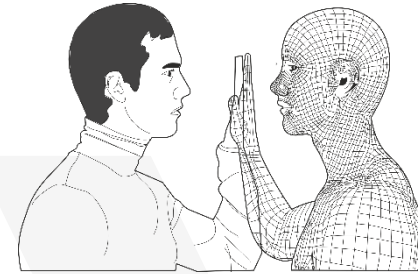


yexle



DigiTwin

Digital Twin

A solution to Monitor, Manage & Control TOTEX for Organizations using AI, ML & Appian

Problem statement....



Organizations today face an increasing demand for customization, shorter time-to-market and intense global competition. They tackle these challenges with a rising number of product derivatives, diverse global supplier networks and local production as well as local procurement.

13%



13% of the organizations have enabled / adopted Digital Twin technology

62%



62% of the organizations is trying to automate by adopting Digital Twin

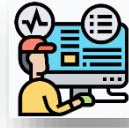
Solution: Yexle is aiming to address the 62% of the organizations adopting to Digital Twin by enabling IOT & Case Management using Appian

Source: https://www.amrc.co.uk/files/document/404/1604658922_AMRC_Digital_Twin_AW.pdf

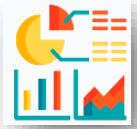
Challenges



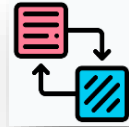
Maintenance of assets is a challenge due to resource unavailability



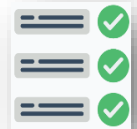
No real time monitoring of assets leading to fatigue and stress failures



Siloed maintenance of records



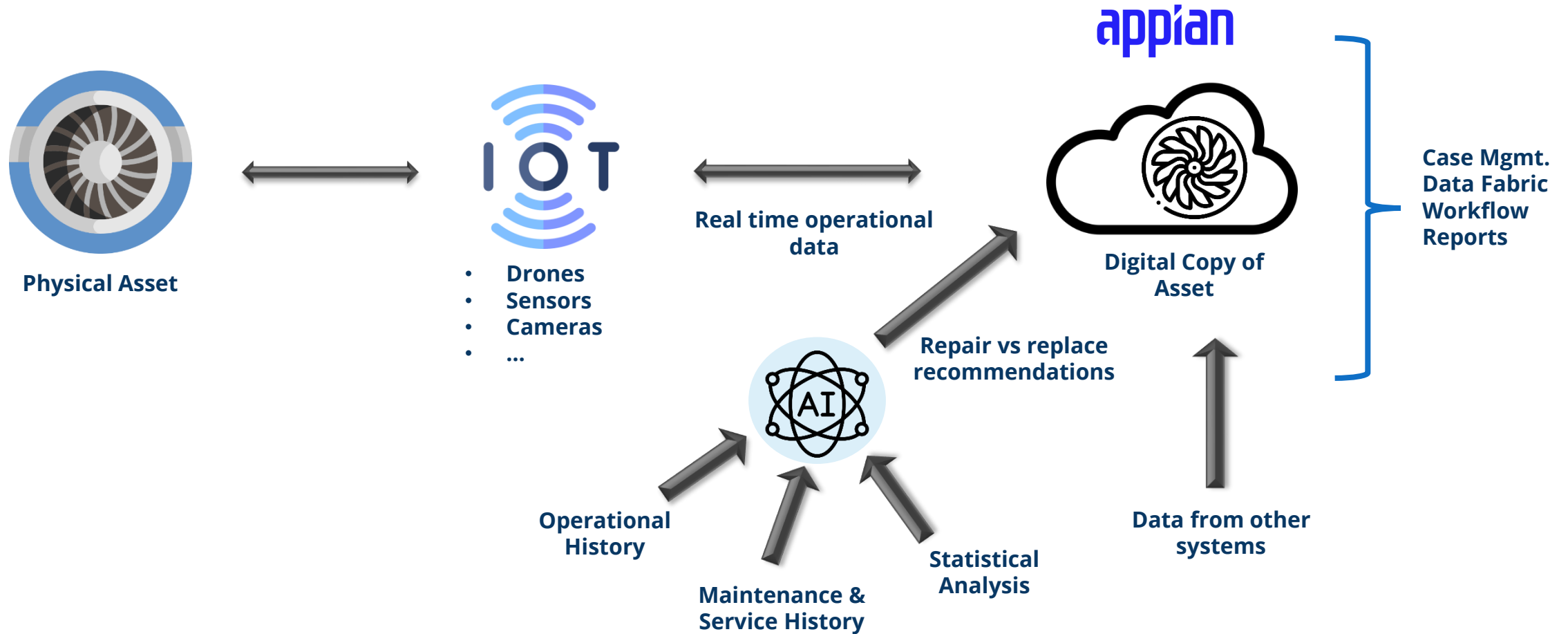
Replacement of assets is time consuming leading to higher downtime



Lack of data standards

Digi Twin Explained

A digital twin is a digital representation of a physical object, process, service or environment that behaves and looks like its counterpart in the real-world.

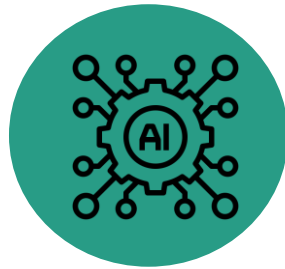


Digi Twin - Features

appian



IoT Integration



Artificial Intelligence



Case Management



Unified Data



Portals



Reports & Dashboards

- IoT to monitor the asset real-time
- Prescriptive Analytics to Intelligently identify issues and suggest in Repair vs. Replace decisions (Improve Total Expenditure – TOTEX)
- Predictive Analytics to Identify areas of frequent issues
- Raise Case to monitor whether the issue identified needs verification, repair or replace
- Case Management to Re-assign, Instruct for replacement

Digi Twin - Other Usages / Applications of this Solution

Manufacturing

- Design customization
- Validate stages of development
- Ops Enhancement
- Predictive, Prescriptive, Adaptive maintenance
- Monitor / Manage System performance

Aerospace & Automotive

- Design customization
- Validate stages of development
- Ops Enhancement
- Aircraft tracking
- Transport load optimization
- Vehicle defect detection
- Predictive, Prescriptive, Adaptive maintenance
- Monitor / Manage System performance

Healthcare

- Diagnosis & Therapy
- Medical device utilization
- Drug development and simulation

Mining

- Machine Productivity improvement
- Ops Enhancement
- Predictive, Prescriptive, Adaptive maintenance
- Monitor / Manage System performance
- Health and Safety / DR scenarios

Addressable Market

Built on Industry Inputs

Collaboration across an Extended Enterprise

Better Monitoring & Control of Assets

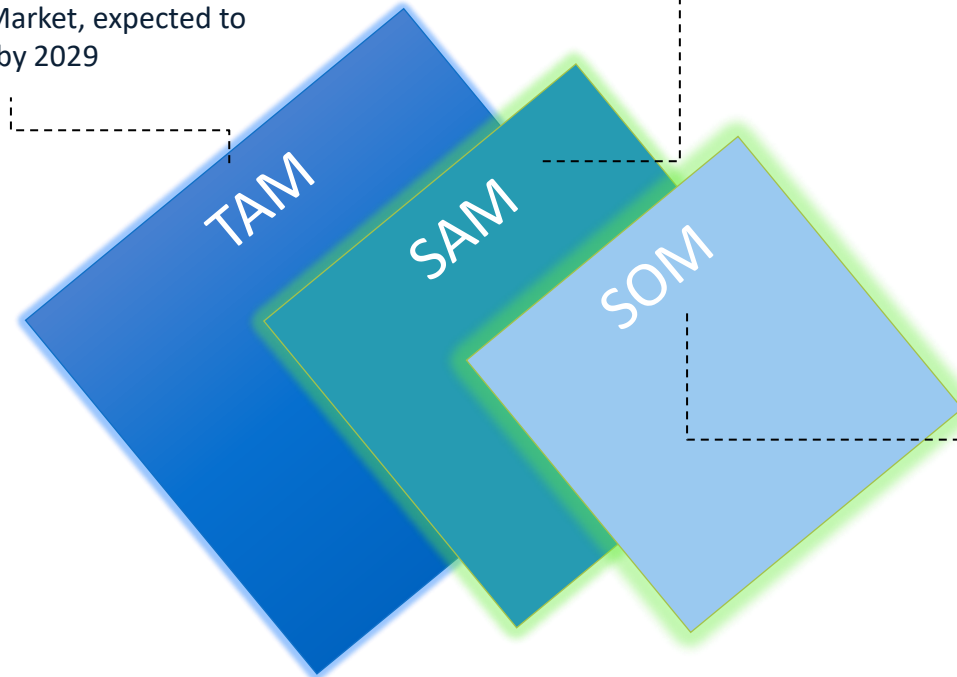
IoT to monitor assets real time

96.4 Billion*

Global Logistics Market, expected to grow by 2029

Manufacturing 21.1% **

By End users



Current Market

- Telecom
- Manufacturing
- Healthcare
- Aerospace
- Energy & Utilities
- Mining

\$45-50 million

is the addressable market for Digital Twin solutions from Appian Implementation. SOM can be higher if combined with AI / ML

** While all markets are serviceable, Telecom and Manufacturing have the largest Asset management and hence this is going to be the initial focus

*Fortune Business Insights

<https://www.fortunebusinessinsights.com/infographics/digital-twin-market-106246>

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Solution Roadmap



Extended Reality (XR)

Use a mix of immersive technologies like Virtual Reality (VR), Mixed Reality (MR) to allow Real-life and Digital Asset to co-exist, simulate and interact real-time



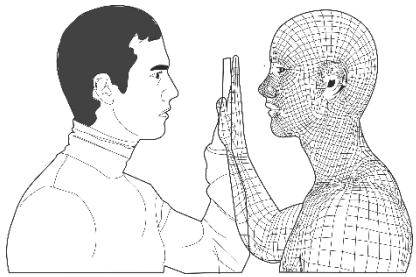
Intelligent Quality Monitoring & Asset Identification

Appian AI to identify defects, recommend assets and create cases



Decisions & Offline Capability

Intelligently analyse the assets and suggest for repair / replacement and assign a new case. Offline capability for productivity.



DigiTwin from yexle

Predict real world performance and Totex using Digi Twin

Optimize predictable outcomes virtually

Thank You



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