

Challenging today. Reinventing tomorrow.

Digital Transformation.... Setting the Foundation

April 25, 2024

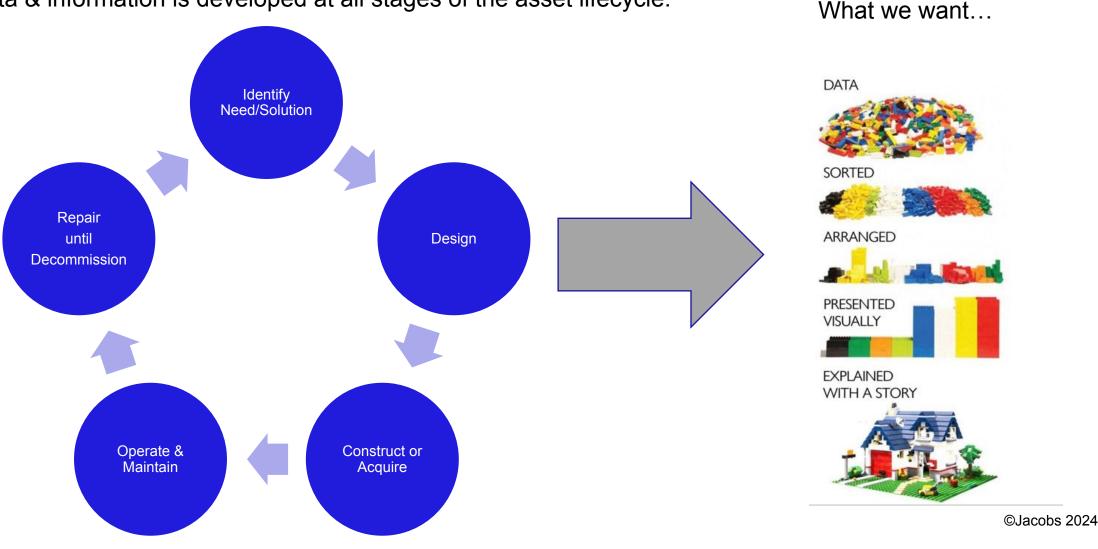
Janeane Giarrusso, Sr. Asset Manager/Advisory Solutions– Asset Management Marin Pastar, Global Principal, Digital Twins

Agenda

- I. Asset Information Strategy Why Important to Aviation's Digital Transformation? – Janeane Giarrusso
- II. Formula for Aviation's Digital Transformation – Marin Pastar

Asset Information Strategy – **Why is it Important to Aviation's Digital Transformation?**

Asset data & information is developed at all stages of the asset lifecycle.



Asset Information Strategy – Benefits to Aviation's Digital Transformation

A well-defined asset hierarchy and data standards supports asset onboarding and data collection.

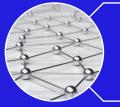


Well managed and compiled data supports tracking LOS performance and providing metrics for analytics to different end user groups.

Asset Information Strategy – What is it Comprised Of?

- Identifying data needed;
- Setting standards for how you organize it;
- Managing the data to ensure integrity;
- Maximizing use of technology to collect and report the data.

https://theiam.org/knowledge-library/subjects-22-23-and-25-ass et-information-strategy-standards-and-data-management/ Asset Information Strategy (What information/data do you need about the assets?)



Asset Information Standards (How you organize your data)



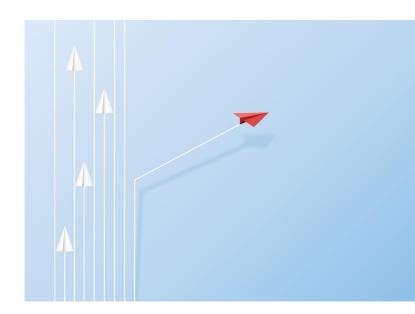
Data Governance (How you manage and use your data)



Asset Information Systems (technology used to collect and display data to staff)

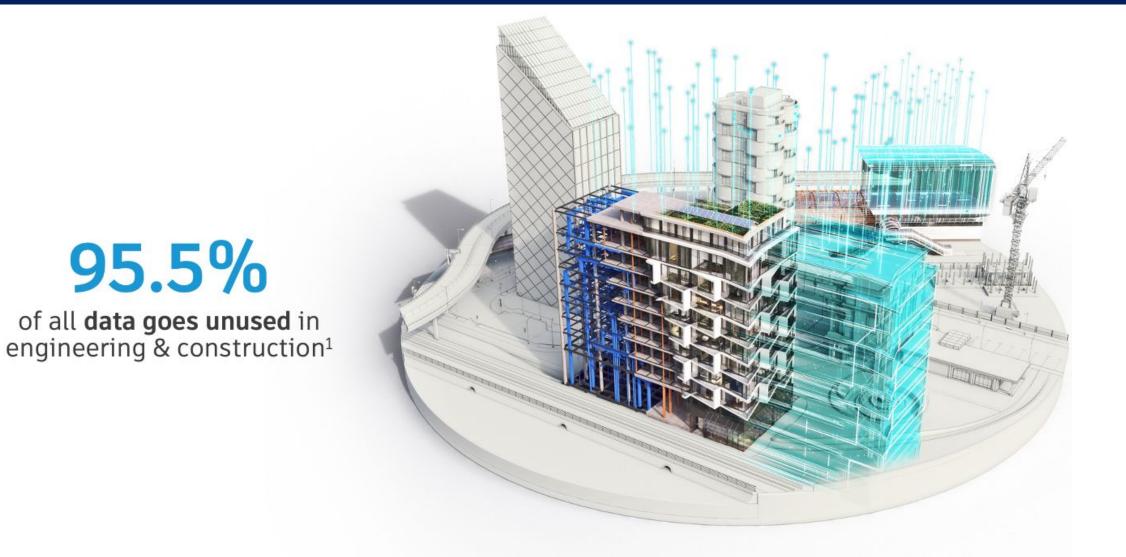
Asset Information Strategy - Challenges For Aviation

- Data Attributes identifying the "right" data that informs asset management decision-making and making it easy and cost effective to collect data for calculating metrics.
- ✓ Data Analytics understanding how to combine and analyze the data to tell a data-driven story.
- ✓ Data Organization/Management defining roles and responsibilities for managing data.
- ✓Asset Onboarding getting the data and information in the right format from contractors.



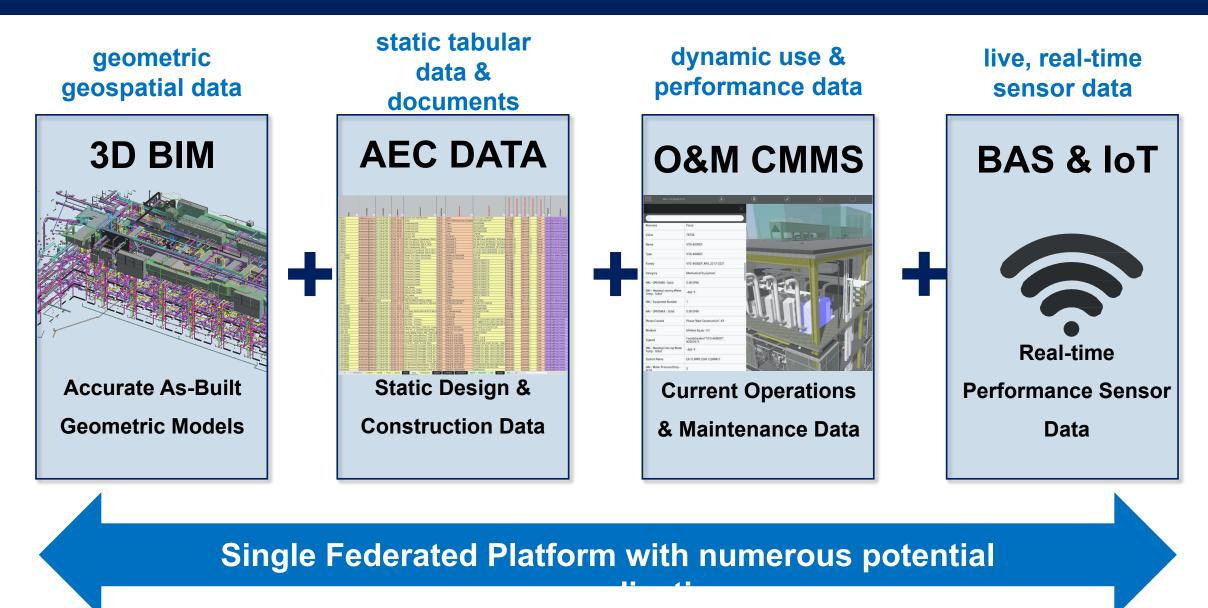
Knowing these potential challenges exist, supports developing a successful "approach" to paving the way for digital transformation.

The Problem: Underutilized Design, Construction & Asset Data



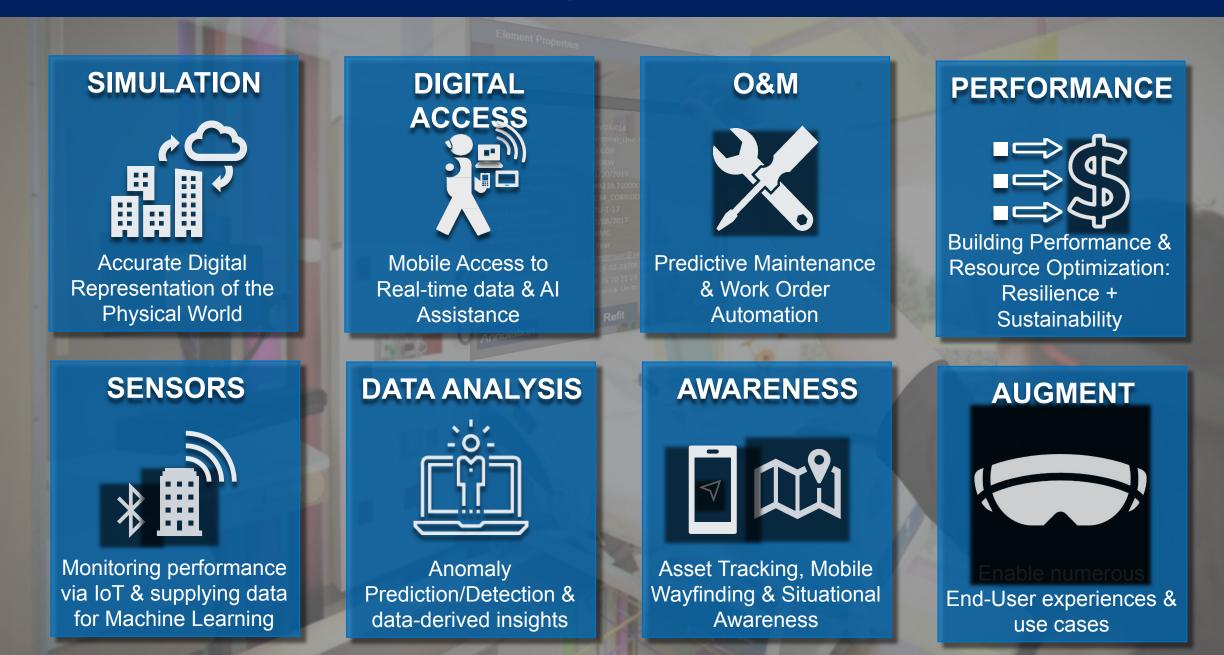
¹ Source: Big Data = Big Questions for the Engineering and Construction Industry, FMI Report

Connecting multiple data sources to provide maximum facility insights

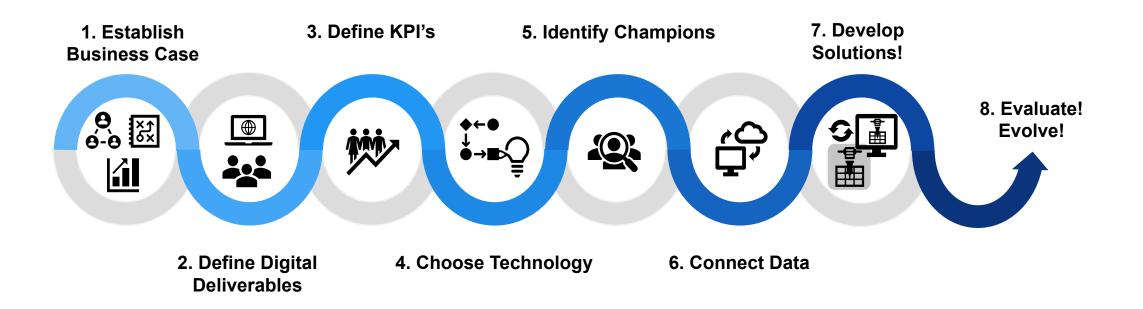


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Numerous Use cases from a Single Platform!



Digital Transformation Journey



70%

of all Digital Transformation efforts Fail!



Lack of Stakeholder Support



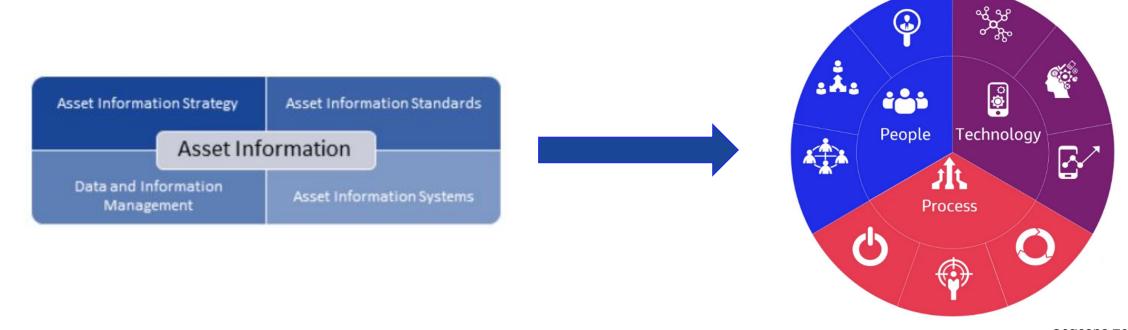
Too Much, Too Fast



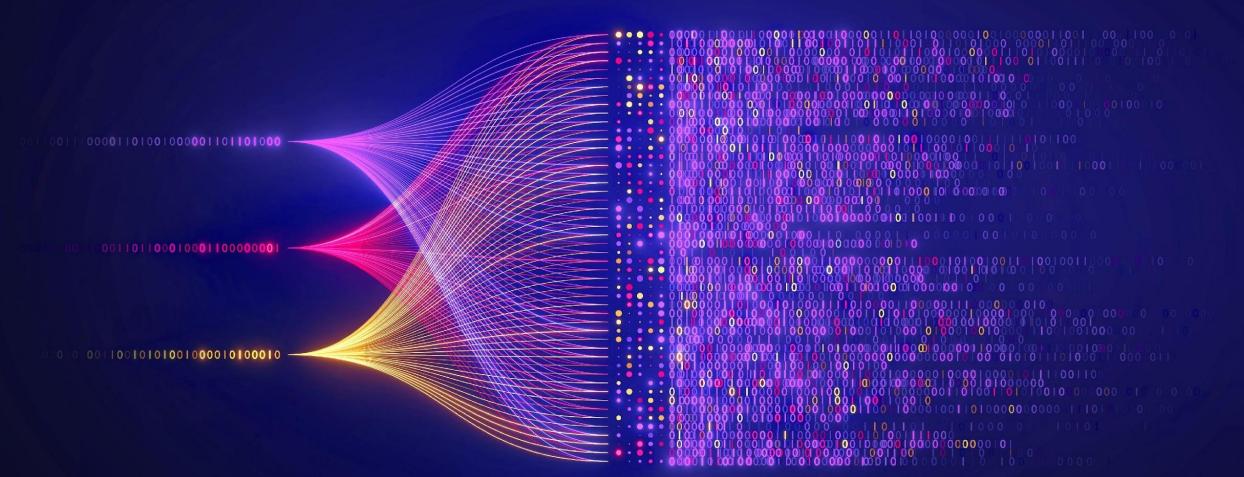
Focus on Technology First

Foundational Elements for Realizing Digital Transformation

- Digital Strategy & Roadmap
- Asset Management Strategy & Standards
- Lifecycle Execution Plan & Digital Standards
- Vendor Contractual Requirements that align with expectations
- Sustainment & OCM Plans



Thank You!



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Important considerations while getting started:

- **Digital Strategy & Roadmap** (desired outcomes, functional requirements, end-user personas, implementation timeline)
- Enterprise Asset Management (EAM) Strategy (FM procedures, KPIs, technology stack)
- Asset Information Standards (asset hierarchy, parameters, naming conventions, RACI)
- BIM Standards & Requirements (delivery tools, deliverable requirements)
- Lifecycle BIM Execution Plan (design + construction + handover process requirements, delivery workflows)
- **Procurement Contract Language** (A/E/C roles + responsibilities, data validation + timing)
- Long-Term Sustainment Plan (change management procedures, data upkeep workflows)
- Organizational Change Management (OCM) (training, mitigating people/process disruption, managing change)

