

Why AI need standardized information models



AI has a data quality problem

Big data is so often improperly formatted, lacking metadata, or “dirty,” meaning incomplete, incorrect, or inconsistent, that data scientists typically spend 80 percent of their time on cleaning and preparing data to make it usable, leaving them with just 20 percent of their time to focus on actually using data for analysis.

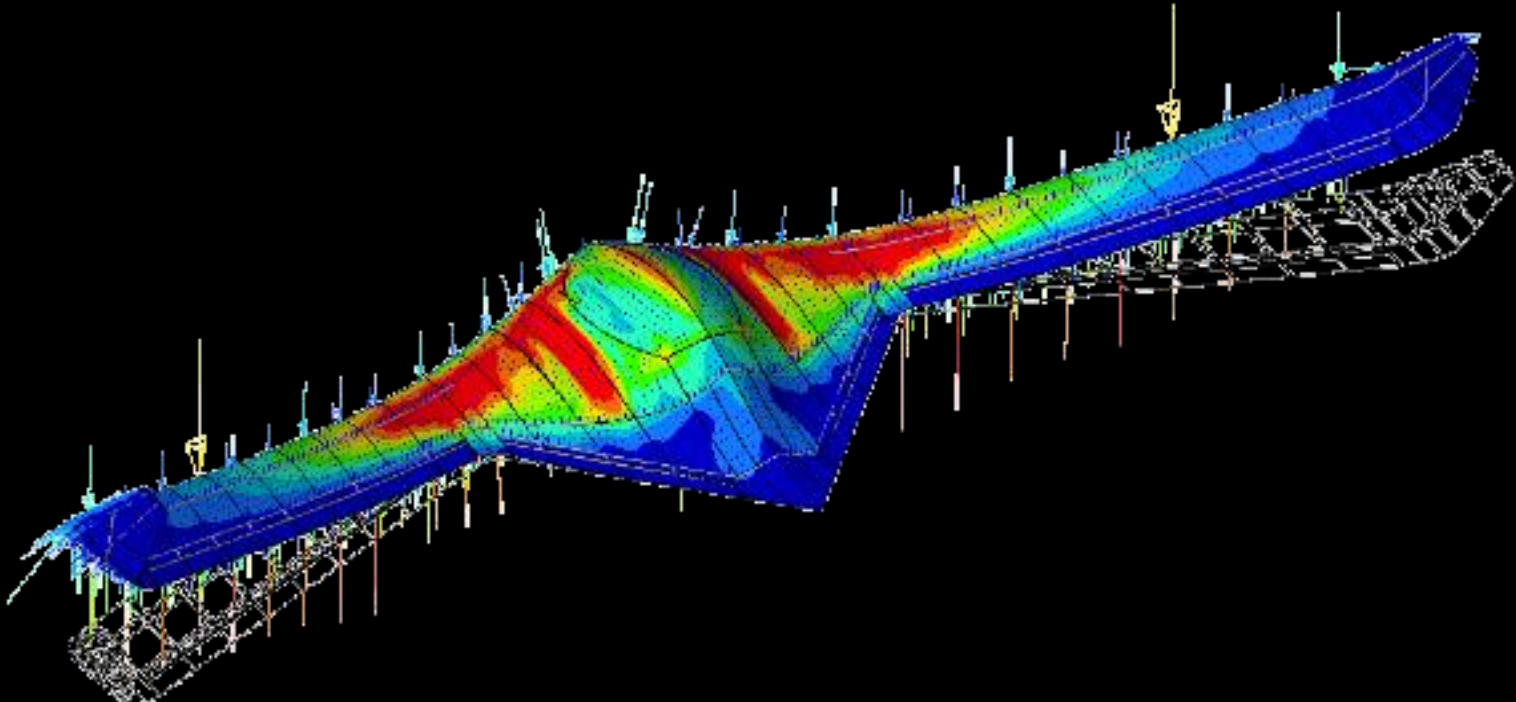
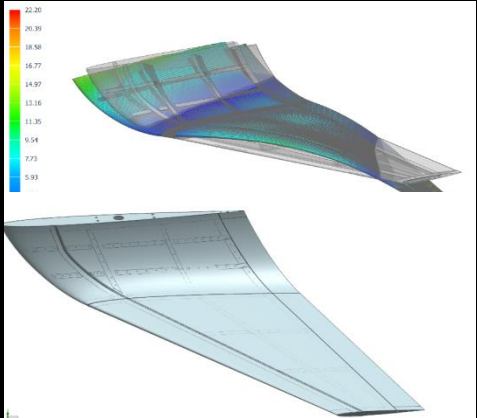
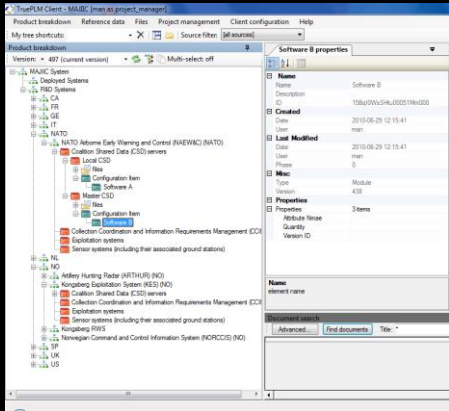
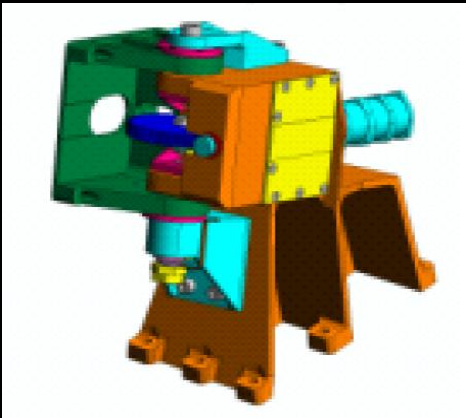


77% of professionals believe that interoperability is the largest challenge facing the industrial internet.

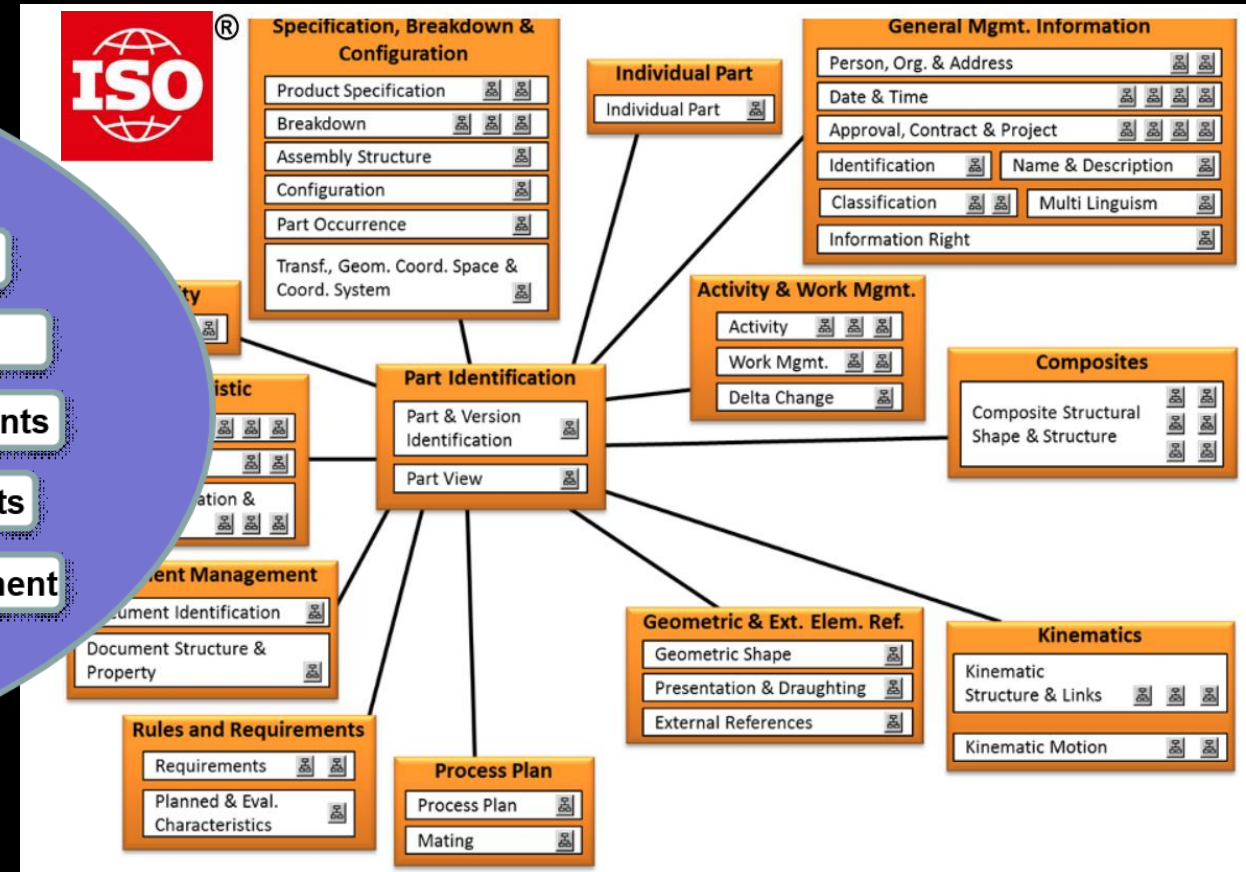
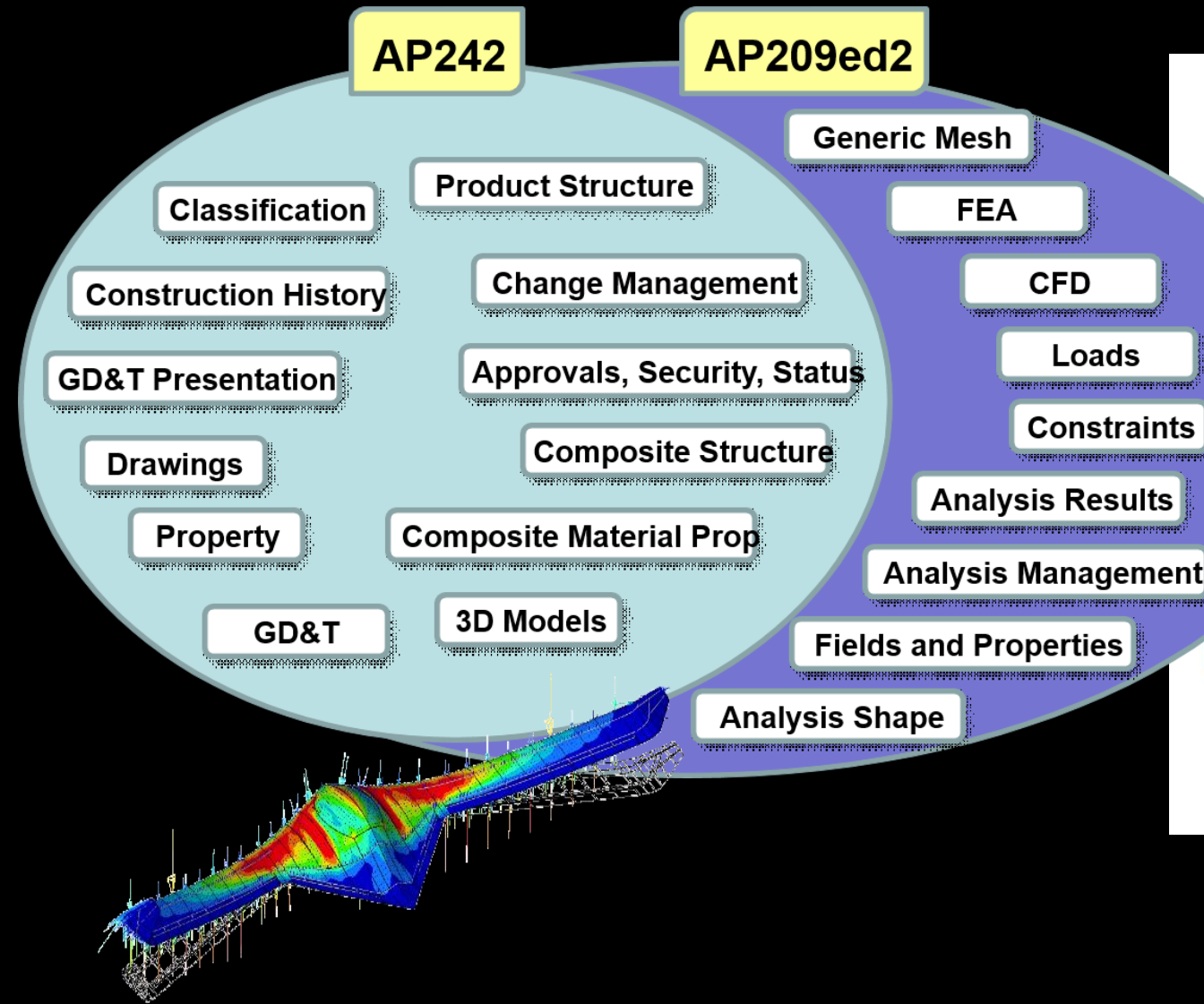
© survey by IoT Nexus



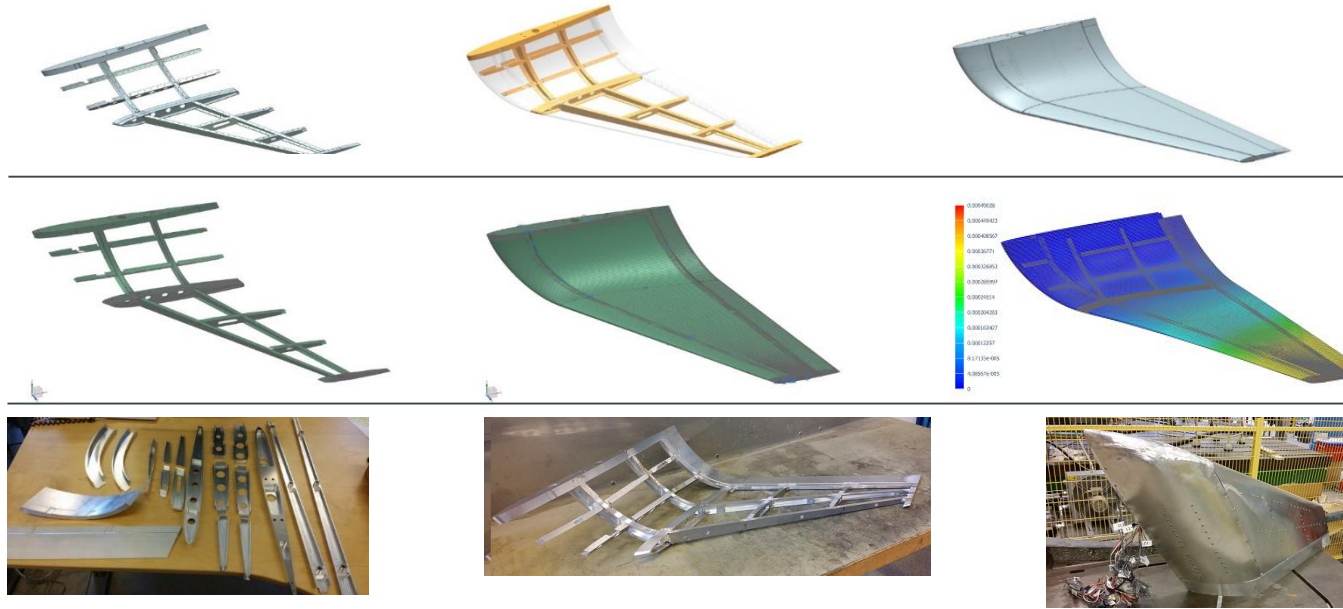
ISO 10303 STEP
Standards
development



What kind of information model do we have in ISO 10303 ?



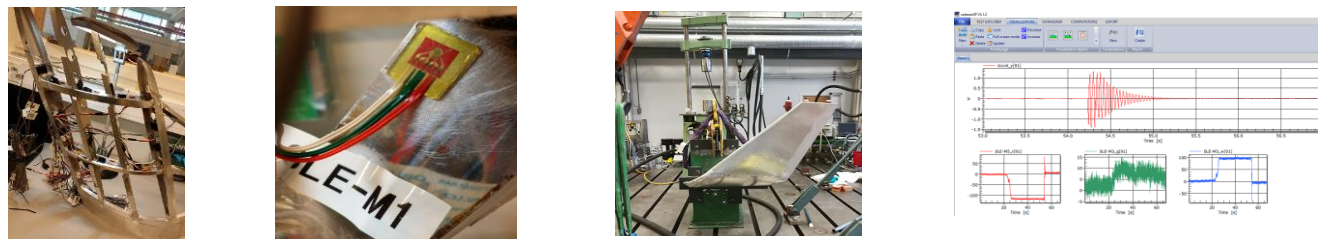
CAD, Simulation, Manufacturing, Test, Sensor and Operational Data in one standardized repository using ISO 10303. Facts or fiction?



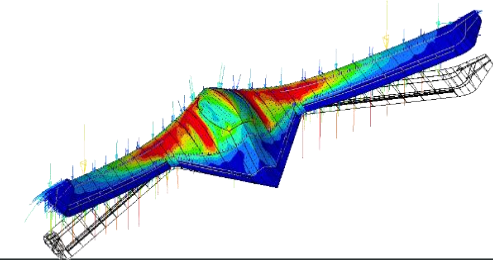
Design CAD

Analysis FEM

Manufacturing



Sensor data

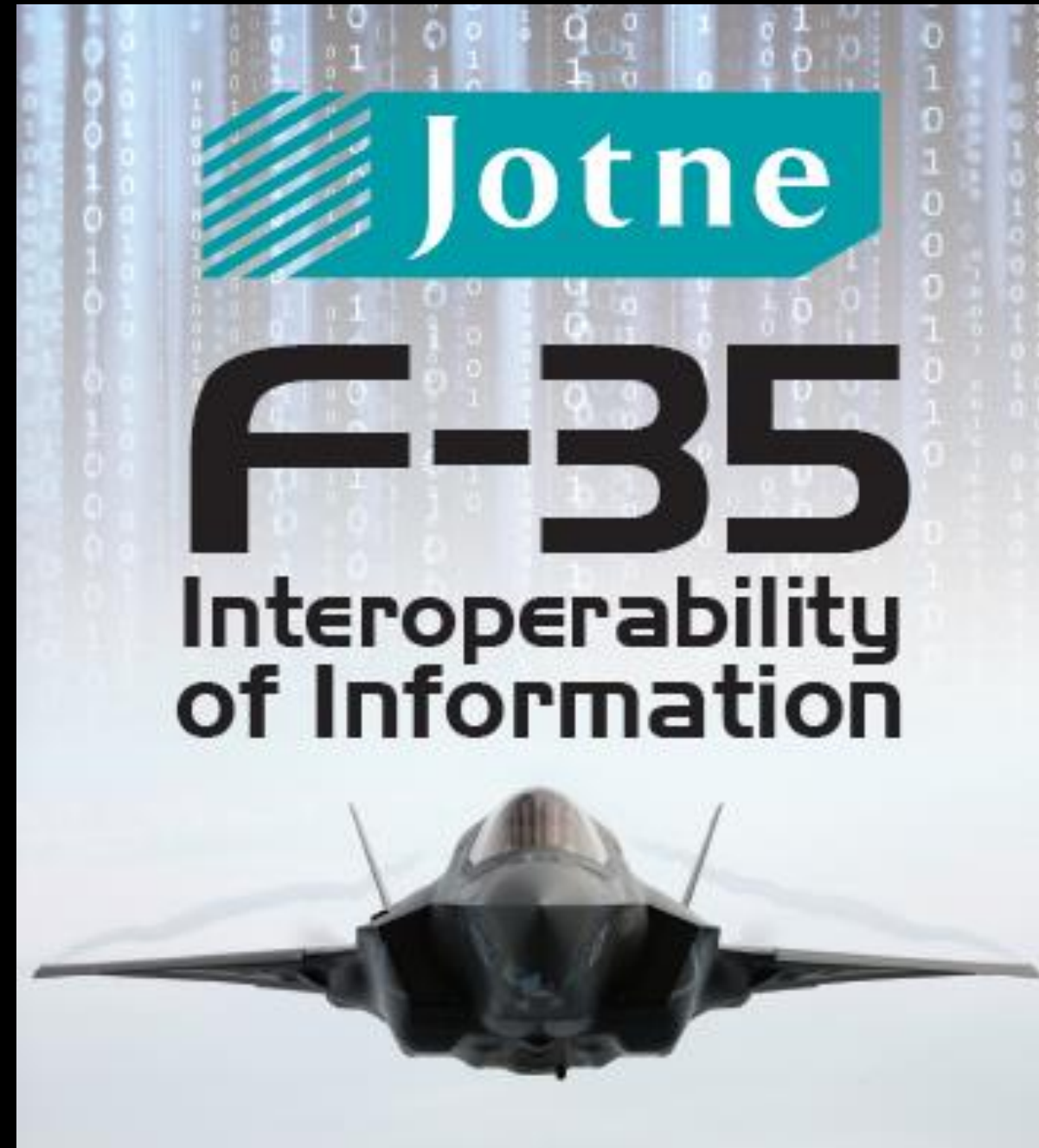
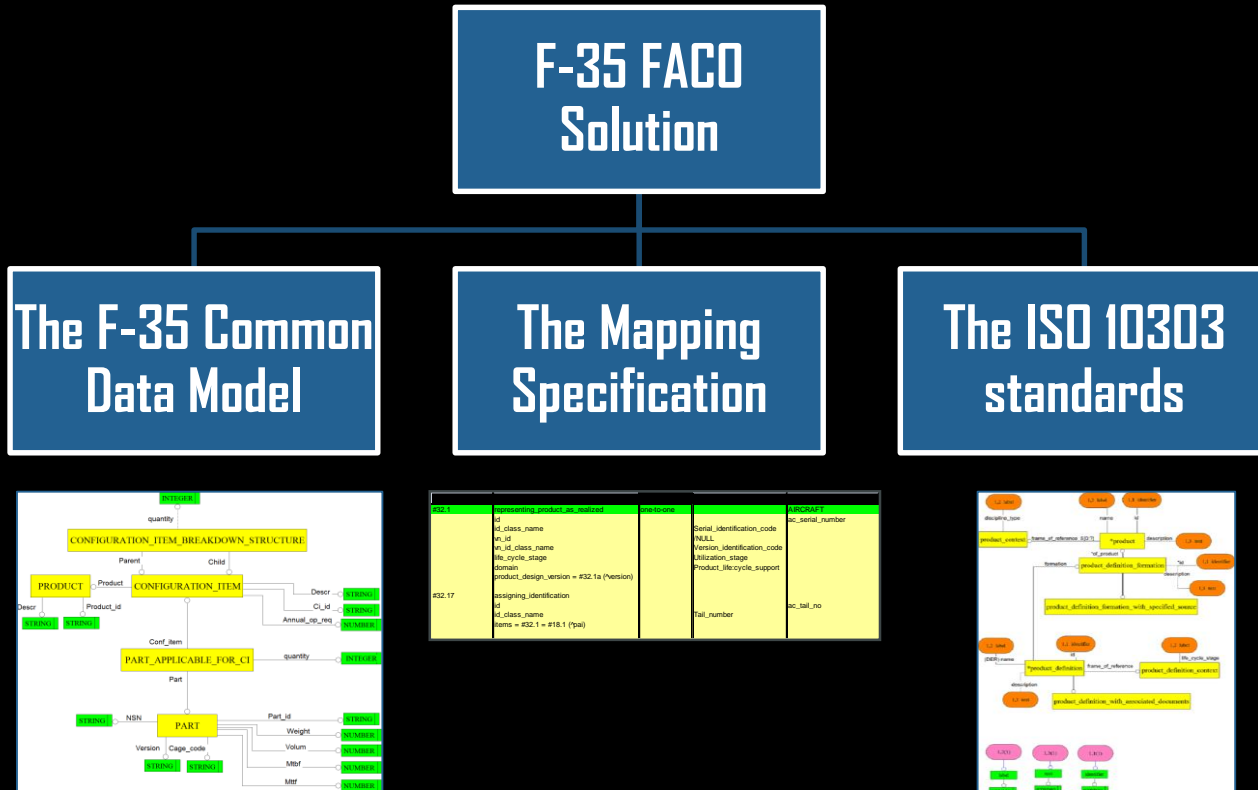


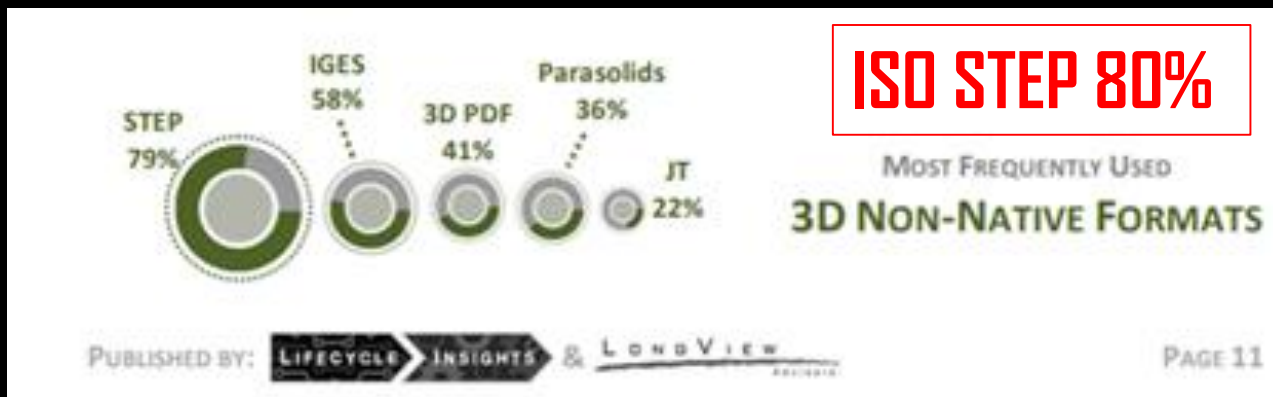
Used in Eurofighter for last 20 years in PDM



BAE SYSTEMS

Implementations





- MBE will connect disciplines and modules across entire enterprise
- Common understanding of different processes and data disciplines
- Use terms and definitions to provide interoperability for data exchange, sharing and archival processes

AIA
AEROSPACE INDUSTRIES
ASSOCIATION

AEROSPACE INDUSTRY GUIDELINES
FOR IMPLEMENTING INTEROPERABILITY
STANDARDS FOR ENGINEERING DATA

STANDARDS