Quality assurance + part validation/verification information flow

Product inception: DTAM begins

Digital twin established (runs parallel to DTAM)

CAD file created

Traditional analysis

Advanced multi-physics modeling and simulation

Build feedback

Build simulation, detailed build plan + machine data

Data verification + twinning

Part end-of-life

Part field service sensing + inspection

In-situ monitoring

Part fabrication (3D print process)

Part inspection

Per-part post-processing and finishing

Digital twin updated

Continuous improvement information flow

Digital thread

Digital twin

Body of knowledge (grows throughout process)


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