



DIGITAL TRANSFORMS PHYSICAL

PROCESSI E TECNOLOGIE PER UNA VERA FABBRICA SMART: L'IMPORTANZA DI UN **DIGITAL THREAD**

Davide De Cesaris

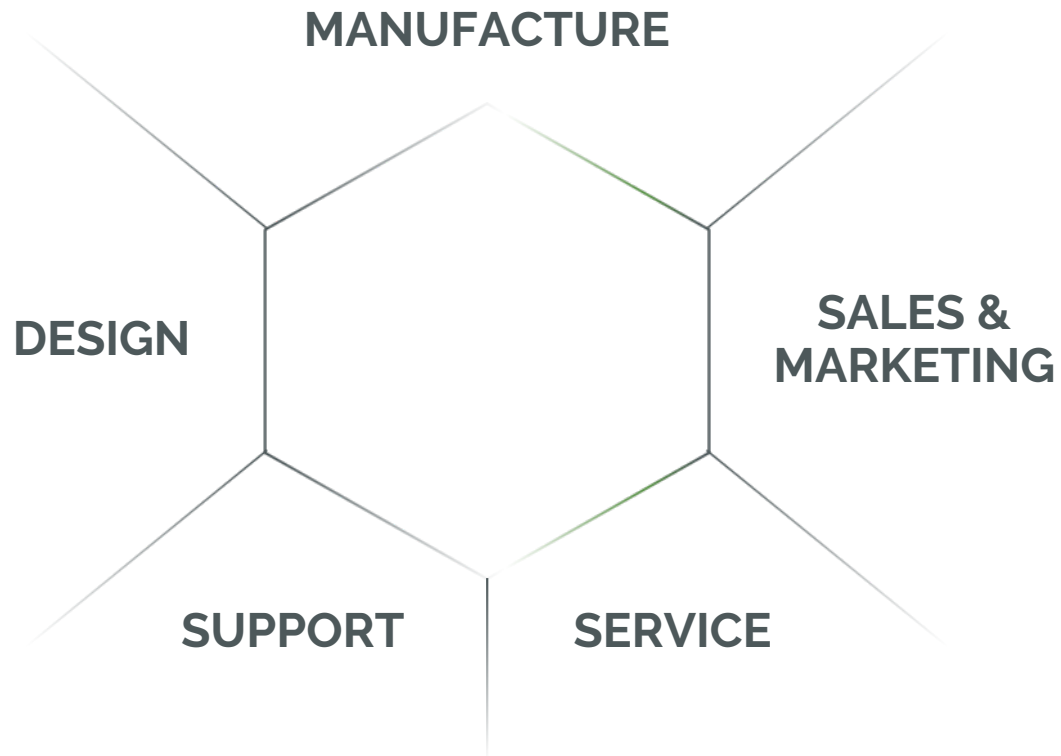
Presales Director – Southern Europe, India & EGeos



December 2021



INVESTMENTS ARE BEING MADE IN OPTIMIZING INDIVIDUAL FUNCTIONS



2/3rds

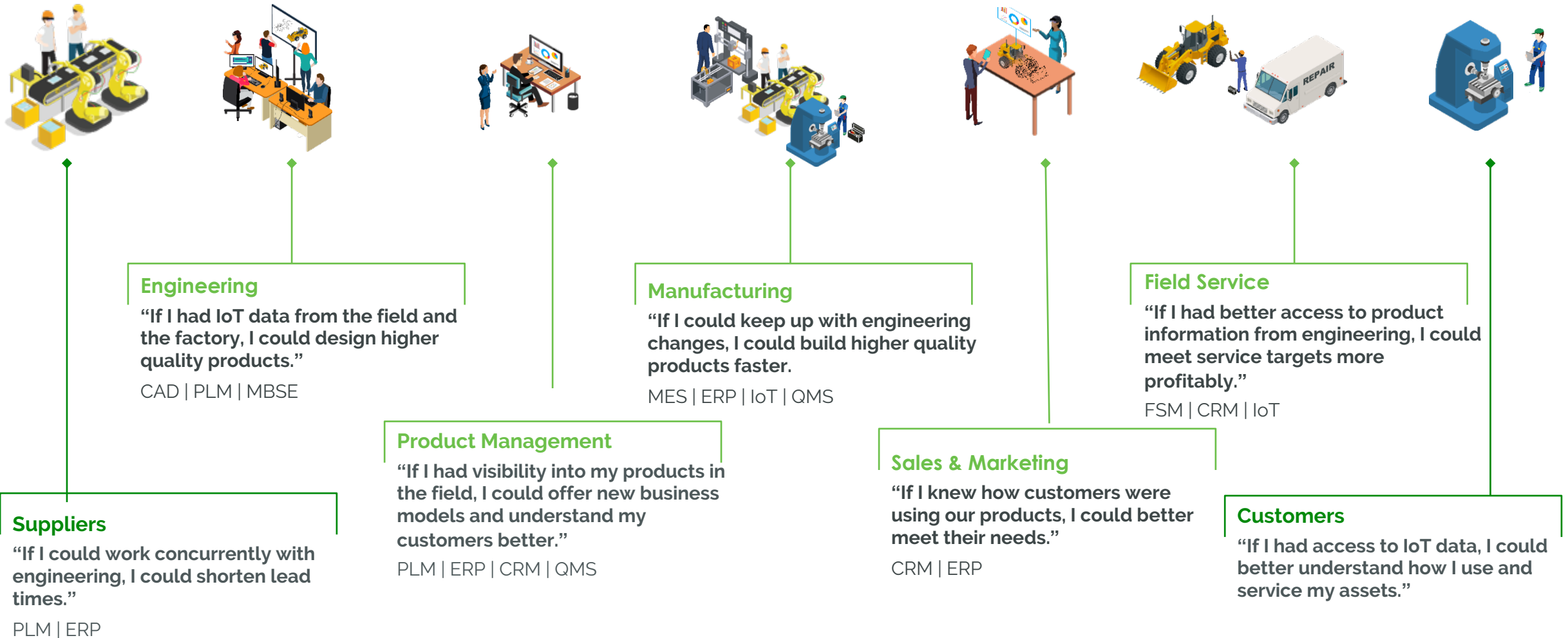
of silo'd initiatives fail to show ROI*

- Value lost at intersections of silos where collaboration takes place
- Valuable data and insights lost

*McKinsey, Transform the Whole Business, Not Just the Parts

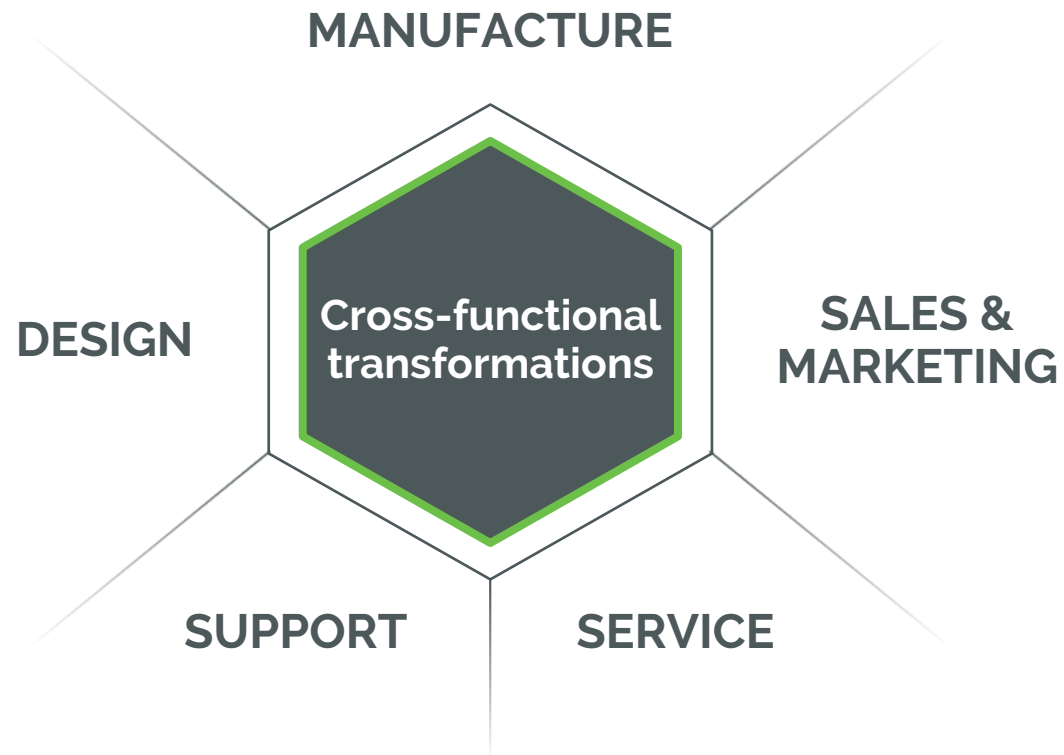
SILOS LIMIT COLLABORATION & INNOVATION

Every domain creates valuable data



But users struggle to access data they need from other departments

TO MAXIMIZE SUSTAINED IMPACT, TRANSFORMATION MUST INCLUDE CROSS-FUNCTIONAL PERSPECTIVE



30-40%

Improvement in results with cross-functional transformations

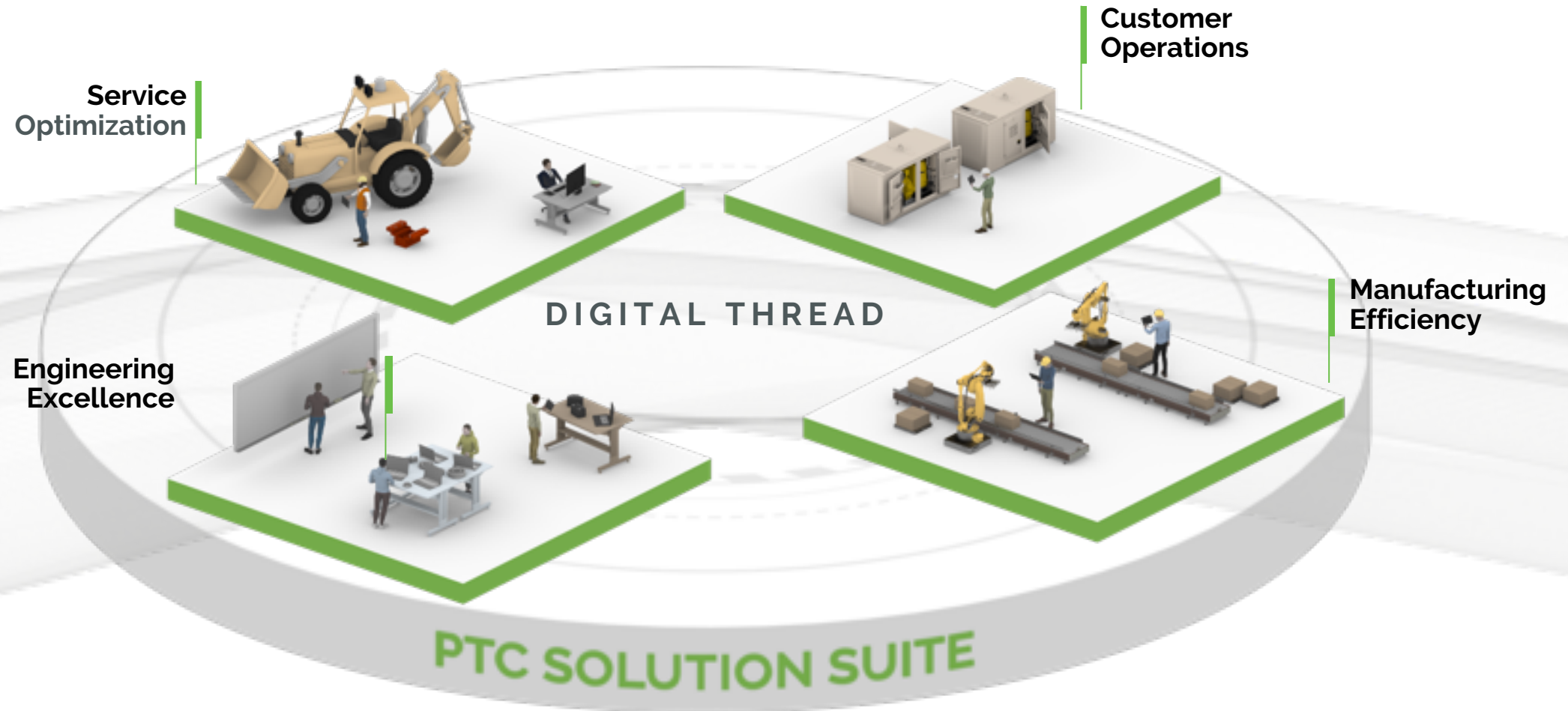
- Reduce risk, improve resiliency
- Drive flexibility and agility to quickly react to changing demands

*McKinsey, Transform the Whole Business, Not Just the Parts

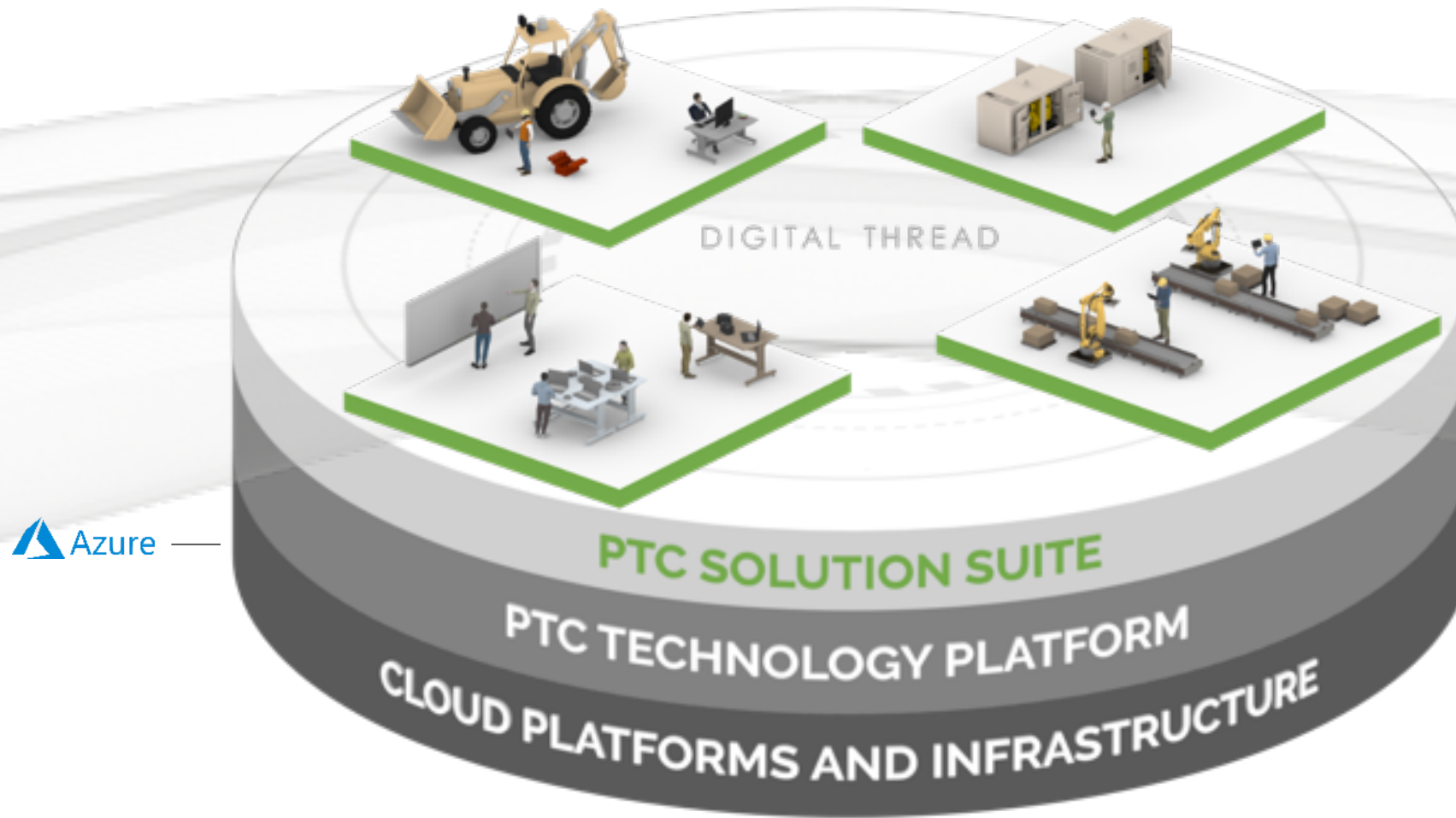


A DIGITAL THREAD creates a closed-loop between the physical and digital worlds to optimize products, people, processes, and places

DIGITAL TRANSFORMS PHYSICAL ACROSS THE INDUSTRIAL ENTERPRISE



PTC'S DIGITAL TRANSFORMATION SOLUTION SUITE



□ On-Prem / Hybrid / SaaS

HOW DIGITAL TRANSFORMS PHYSICAL

DIGITAL
Defines
PHYSICAL



DIGITAL
Manages
PHYSICAL



DIGITAL THREAD

DIGITAL
Connects
PHYSICAL

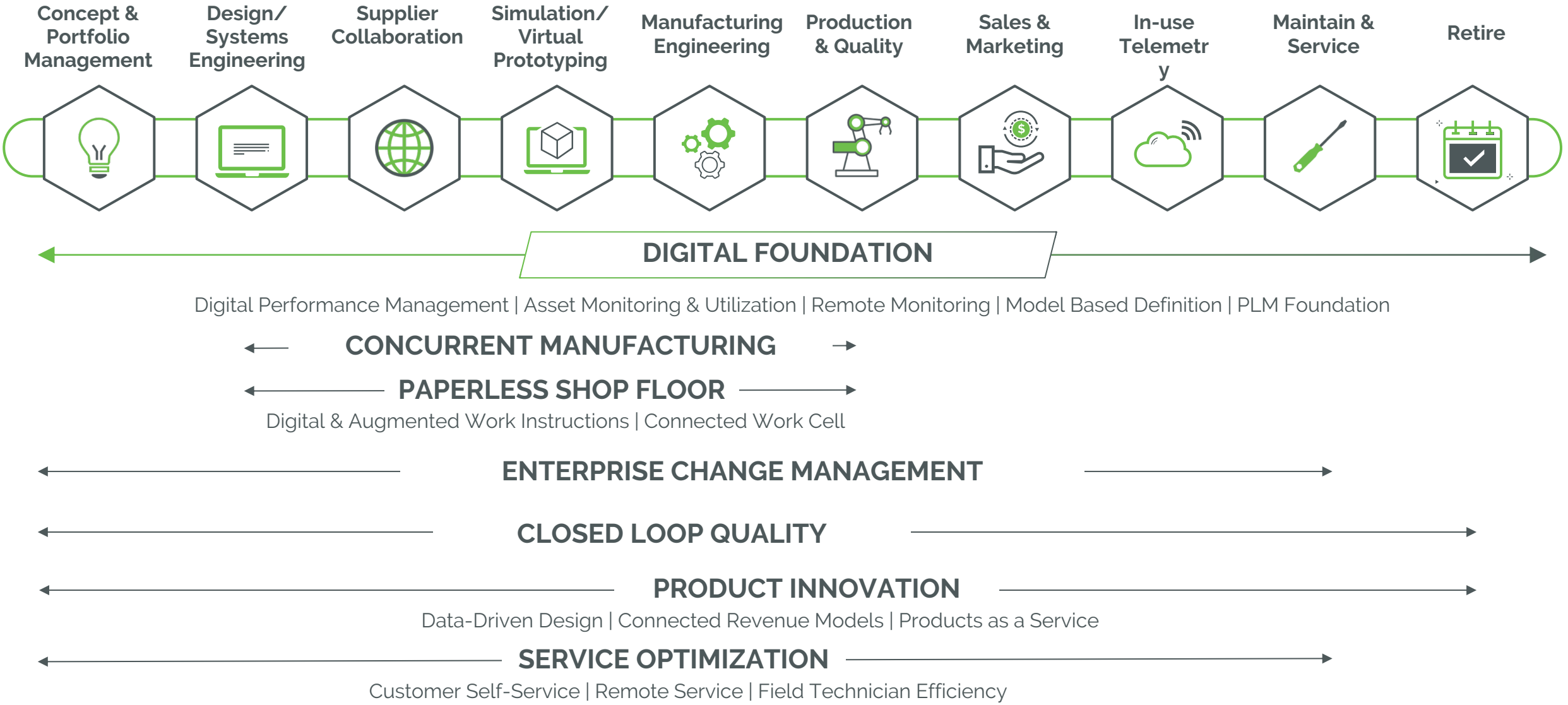


DIGITAL
Augments
PHYSICAL

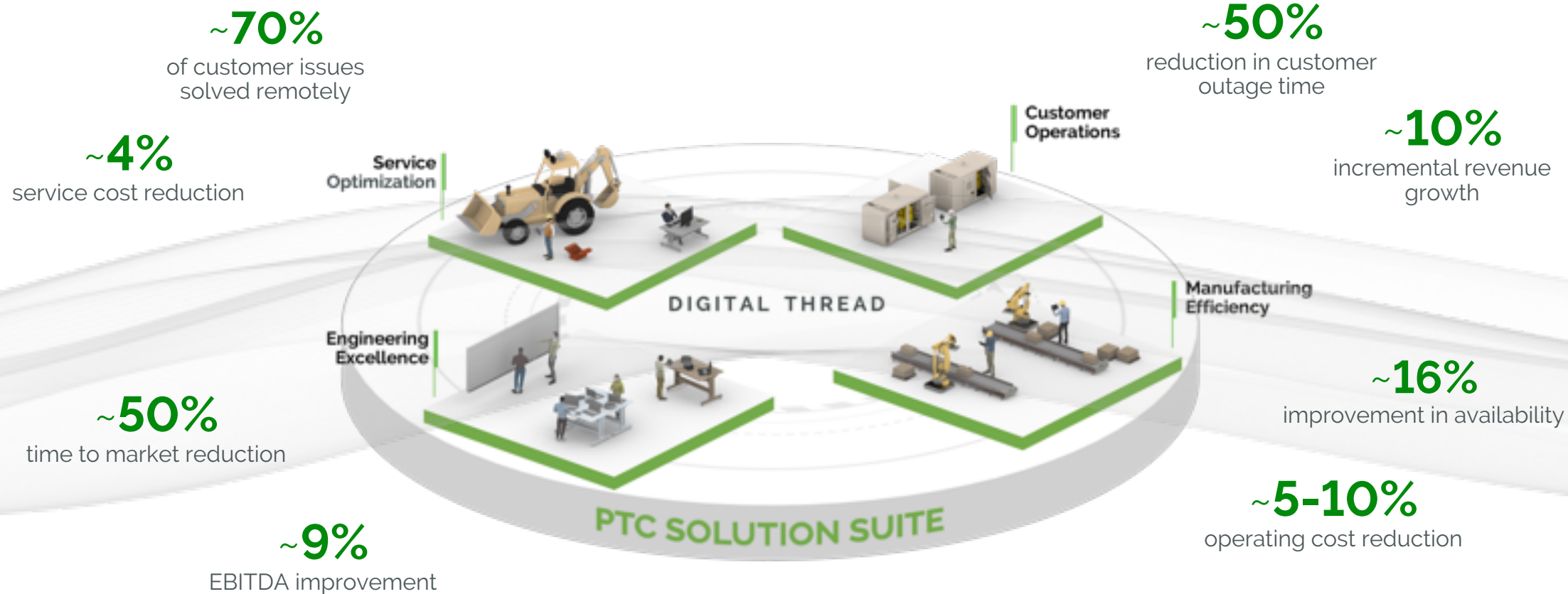


DIGITAL
Disrupts
PHYSICAL

OPPORTUNITIES ENABLED BY THE DIGITAL THREAD

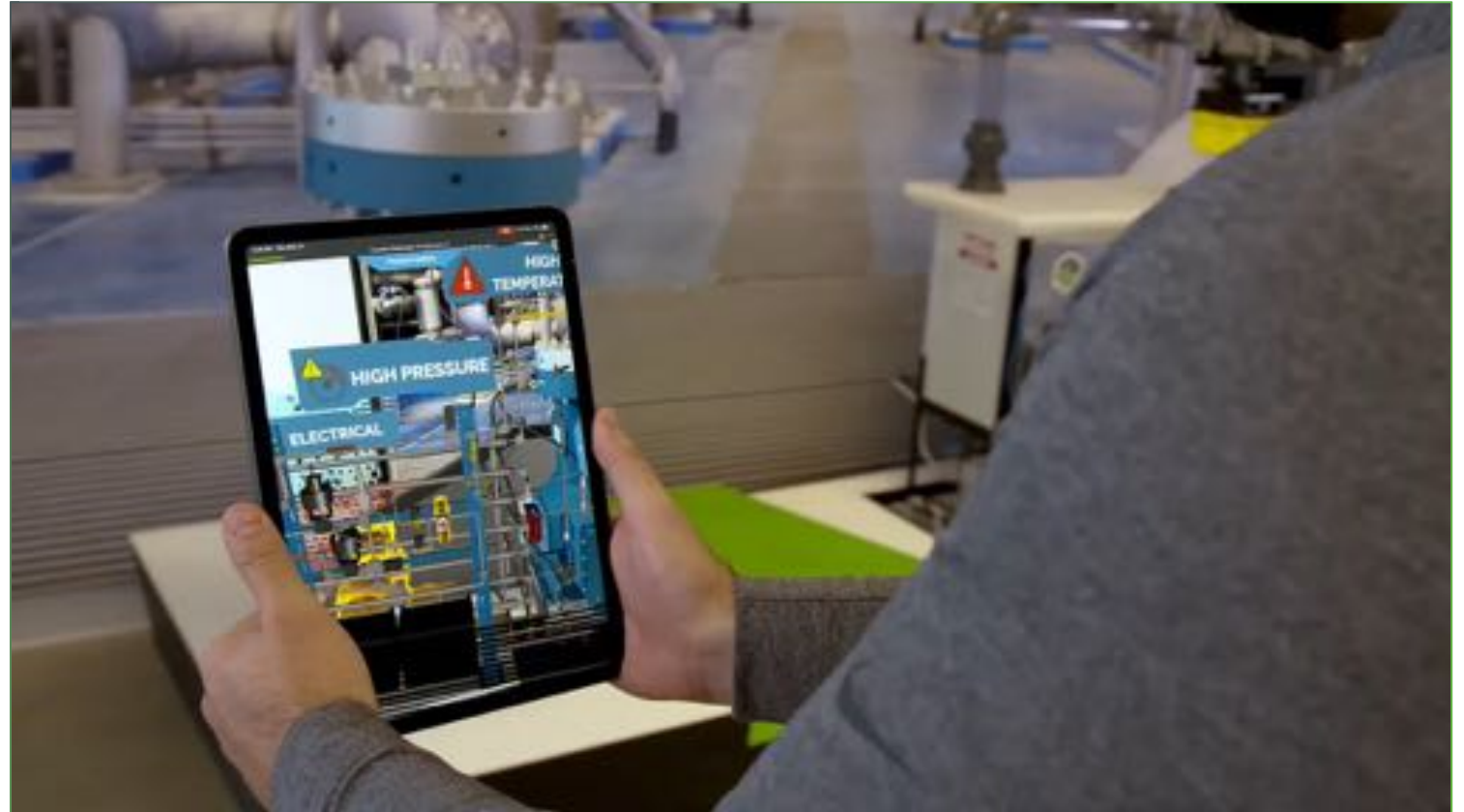


TO DELIVER FINANCIAL AND OPERATIONAL VALUE



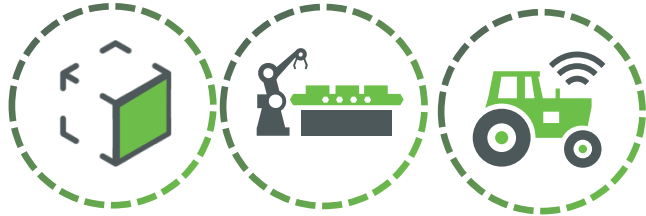
DIGITAL RELATES PHYSICAL

The digital thread enables data to be reused across the value chain with greater consistency between departments, from its origins in engineering through its practical application in manufacturing and service.



□ Digital Thread in Service Parts Catalog

JOURNEY TO UNIFIED FLOW OF PRODUCT & PROCESS DATA



1) Organize

Build a Digital Foundation

- **Organize data** in functional silos and enterprise systems to create visibility
- **Modernize product development processes**
- **Create governance** and traceability
- **Connect assets** in the factory & the field
- **Build edge & cloud infrastructure**

Opportunities:

- Digital Performance Management
- Asset Monitoring & Utilization
- Remote Monitoring
- Engineering Change Management
- Model Based Definition



2) Orchestrate

Unify & Share Information

- **Selective contextualizing** of product information for quick time to value
- **Sharing across systems**, functions creating connectivity in product information
- **Enabling collaboration** across disciplines, divisions, and with external partners

Opportunities:

- Collaborative Change Management
- Paperless Shop Floor
- Field Technician Efficiency
- Remote Service
- Customer Self-Service



3) Unlock Opportunities

Capitalize on Product Usage Data

- **Closed-loop feedback** to drive continuous improvement with contextualized data
- **Connected biz models** to build new revenue streams
- **Digital Twin** to help simulate, optimize products & processes

Opportunities:

- Closed Loop Quality
- Data Driven Design
- Connected Revenue Models
- Products as a Service
- Consumables



DIGITAL TRANSFORMS PHYSICAL

THANK YOU

ptc.com

