



Quarter20

Connected documentation is the
missing link in your digital thread

March 10, 2026



Addy First

Co-Founder & COO

- Led product strategy for Microsoft's industrial IoT portfolio
- Focused on software for machine-to-machine communication in factories
- Saw a gap in human communication, caused errors at customer sites (downtime, recalls, quality issues)



AI is transforming manufacturing, but it can't operate outside of the digital thread

Documents are where the digital thread breaks

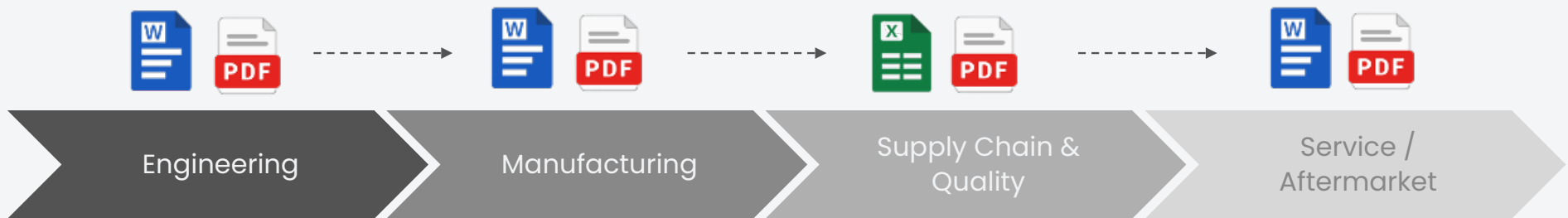


The Digital Thread: **Ideal State**





The Digital Thread: Reality





Why does it matter if documents break the thread?

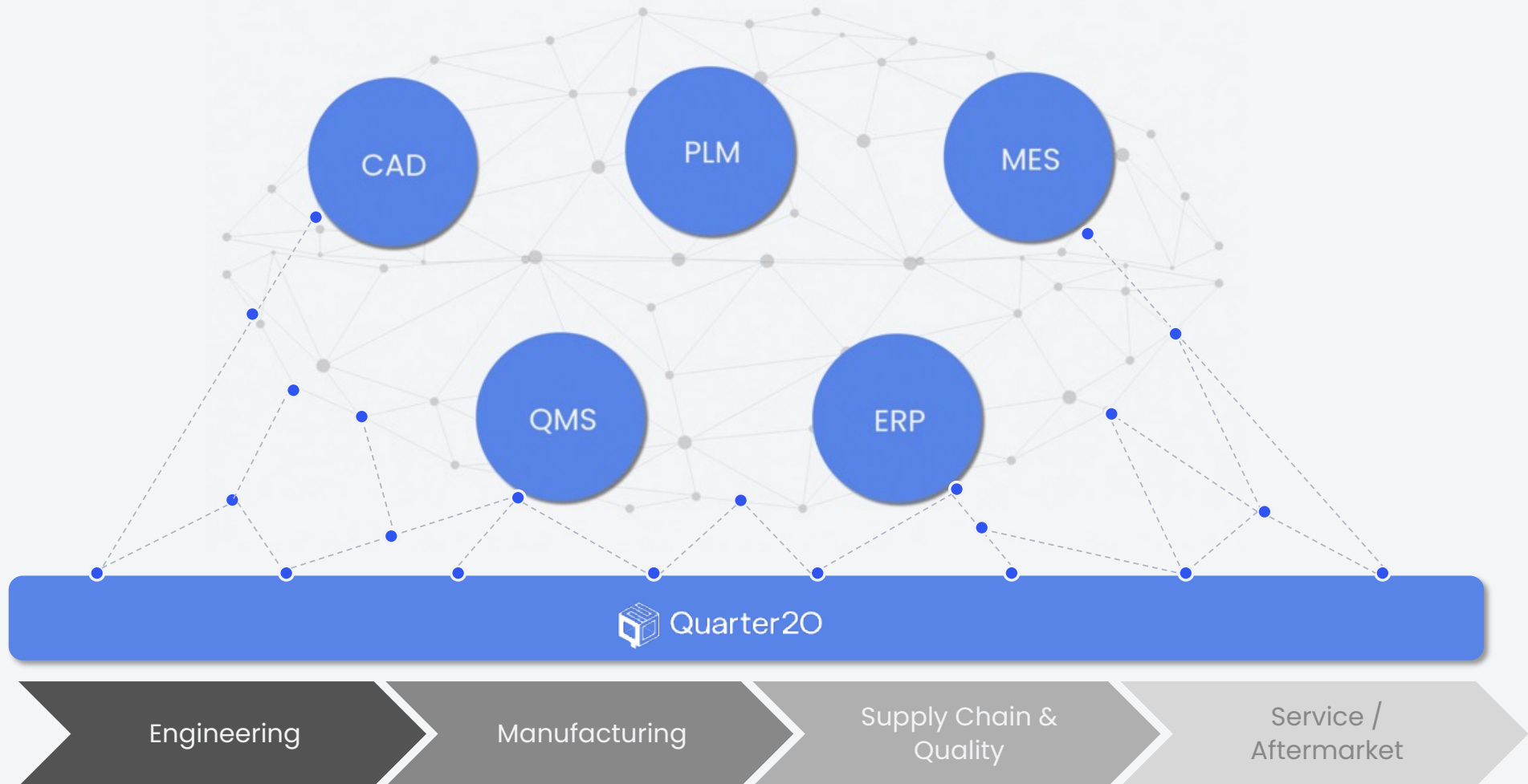
- 1 Engineering intent doesn't reach execution**
Critical context and "source of truth" doesn't make it in documents people rely on
- 2 Changes don't propagate**
Updates are done manually, incorrectly, or not at all
- 3 Work happens outside the system**
Execution and traceability is disconnected by default
- 4 You can't apply reliable AI**
Data is not continuous, structured, or reliable



Humans break your digital thread with disconnected documentation
... and AI can't magically fix it

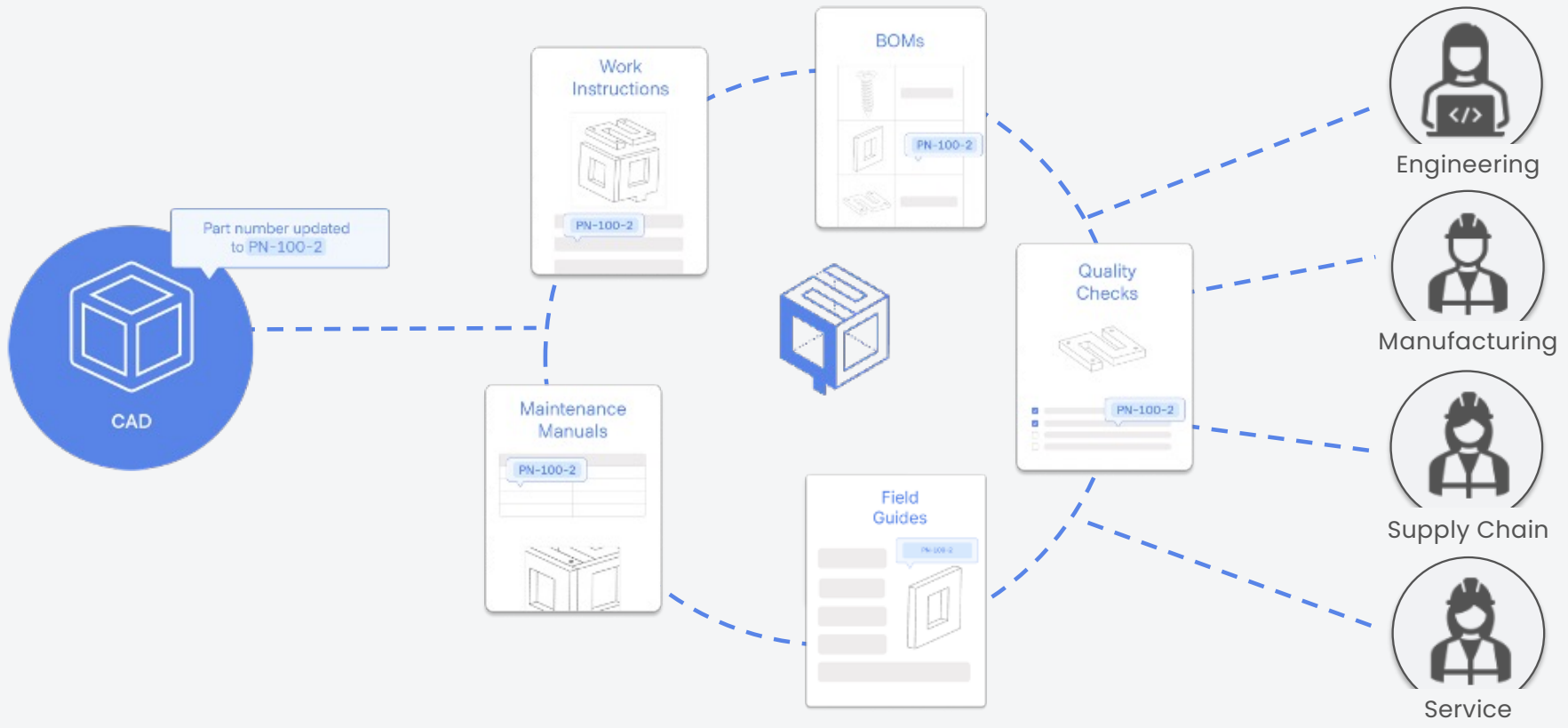


Quarter20 is the human-facing collaboration layer of your digital thread





- 1 Tie documents to data sources
- 2 Create content with data tags that auto-update
- 3 Extend the digital thread to every team





Example: engineering pushes an ECO after a part redesign

Documents auto-update and teams are notified

Work Instructions

Install Backing Spring Created: Apr 06, 2026

Id	Part Name	Description	Revision	PartNo	Qty	Tools	Torque
A	500-002	Rocker Arm Backing Spring	C	500-002	12	spring fixture	1 N.m

Load **500-002** into assembly using **spring fixture** seated in the assembly

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Quality Checks

Quality Check Created: Apr 06, 2026

- Verify **300-271** doesn't have any leaks
- Verify **200-192** is aligned with **300-110**
- Verify **500-281** and **500-291** are connected to the correct ports
- Verify **500-002** (12x) are properly seated

I certify that I completed the above quality checks:

Name: _____

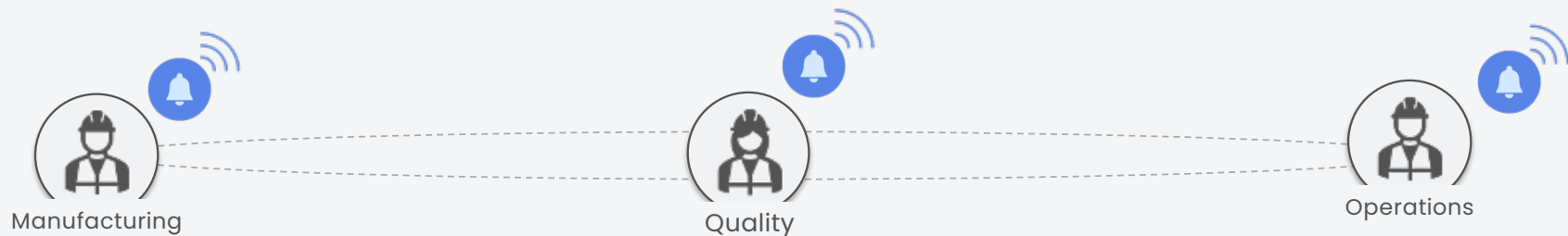
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Parts Catalogues

500-002 Created: Mar 02, 2026

Id	Part Name	Qty	Description	Revision
A	500-002	1	Rocker Arm Backing Spring	C

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Measured customer impact



Manufacturing

Time to production + efficiency

70% less time creating documents,
95% less time updating them



Quality

Quality

Improved first pass yield by over 30%



Operations

Reliability in field

Reduced customer downtime by 10%

Orenda 9-10-Jet Engine Assembly
Work Instructions

- Cover
- Version History
- Bill of Materials
- Operation 1 - Front Gearbox & Bearing Assem**
- Operation 2 - Compressor Spool Assem
 - 2.0 Quality Check
- Operation 3 - Oil Pump Hydraulic Pump Assem
- Operation 4 - Centre Bearing Assem
 - Operation 4.1
- Operation 5 - Turbine Assem
 - Operation 5.1
 - Operation 5.2
 - Operation 5.3
 - 5.0 Quality Check
- Operation 6 - Combustor Assem
 - Operation 6.1
 - Operation 6.2
 - Operation 6.3

Id	Part Name	Qty	Description	Revision
A	100-0020	1	Front gearbox assem	B
B	100-0023	1	Front bearing assem	A
C	M6 x 25 hex	6		
D	Loctite 243			

Operation 1 - Front Gearbox & Bearing Assem

- Clean mating faces of 100-0020 and 100-0023 ; align us dowels.
- Insert M6 x 25 hex screws with Loctite 243 and hand-tig in a star-pattern.
- Torque screws to 85-in-lbf using T27 driver

Verify flush fit and free shaft rotation.

Thank you!

Send me a note
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