PLM Road Map™ & PDT EMEA 2026

AI in PLM: A Disruptive Opportunity and Challenge

Turning AI disruption into enterprise value:
Strategic insights for the PLM professional

CIMdata

4-5 November 2026

www.CIMdata.com

LEVERAGING AI TO TRANSFORM PLM

From a system of records to a system of intelligence

Joakim Lindholm

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“The reality is that most businesses are already data rich, but insight poor.”

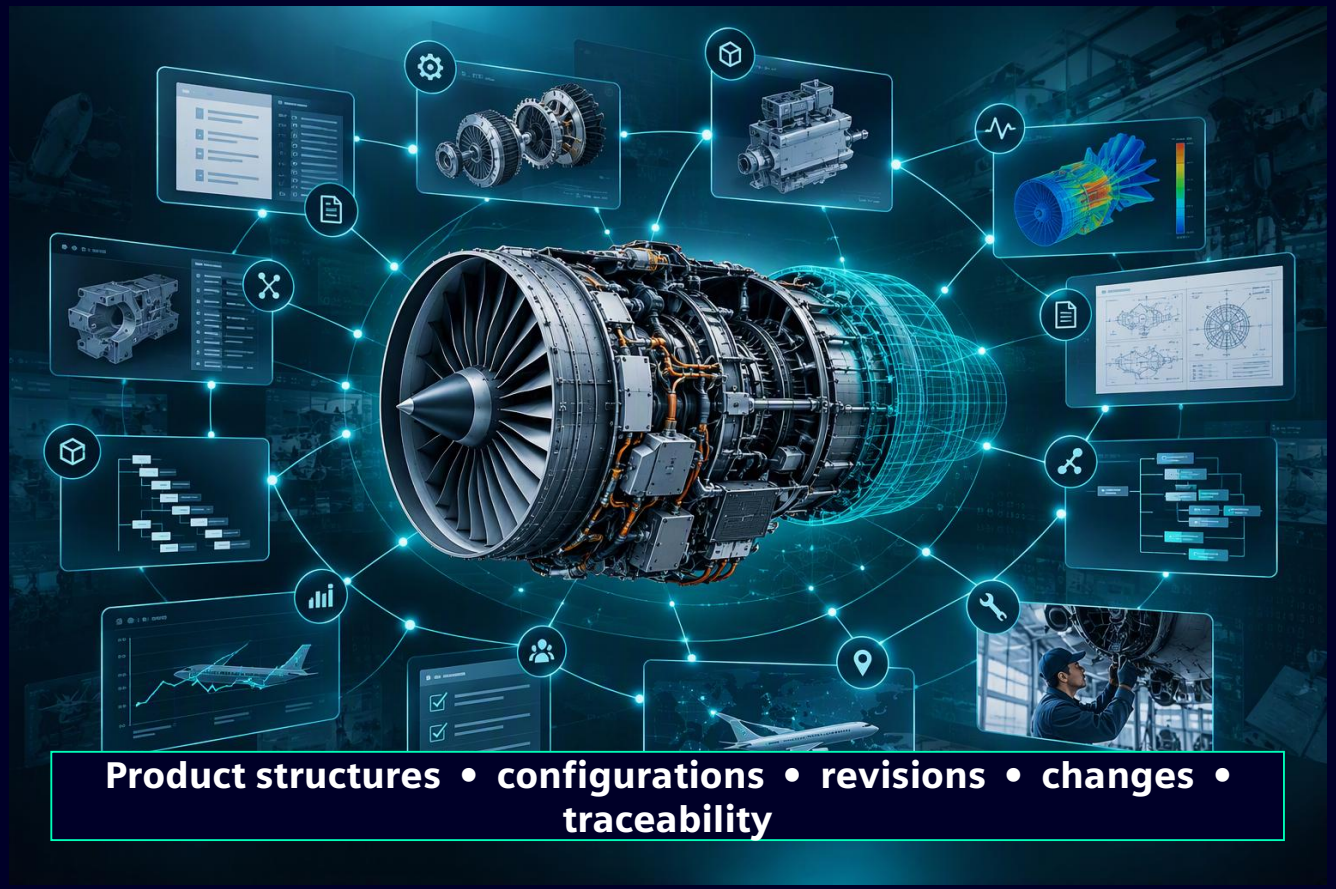
/Bernard Marr, 2015

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PLM offers a contextual knowledge model of the product

It does more than store product data. It keeps track of what the data means and how it is related.



FROM DATA TO DECISION CONTEXT

01 Product data

Parts, requirements, documents, ...

02 PLM context

BOMs, configurations, relationships and change, ...

03 Decision insight

What is current? What is impacted? Who needs to act?, ...

This is exactly the context AI needs.

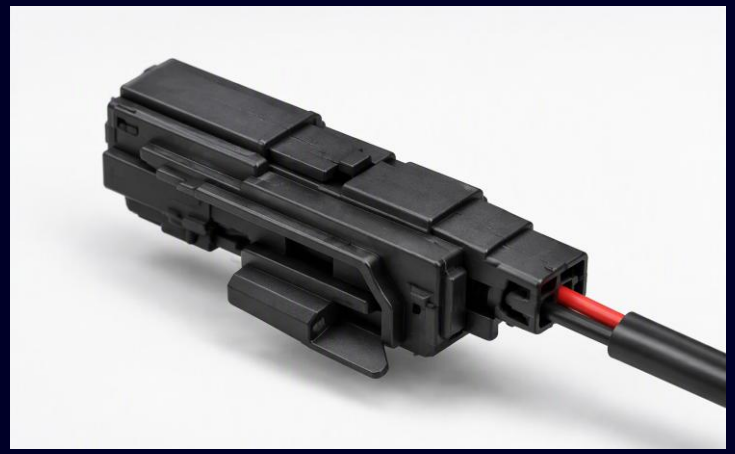
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How “data rich” are we?

PLM

Which products use it?
In which configurations?
What else is impacted by a change?



Quality / Warranty

How often does it fail?
What failure modes are occurring?
What is the warranty exposure?

ERP / Supply Chain

What alternatives exist?
What is in inventory?
What are the cost and supplier implications?

Service / Installed base

Which products in the field are affected?
Does service documentation need to change?

Manufacturing

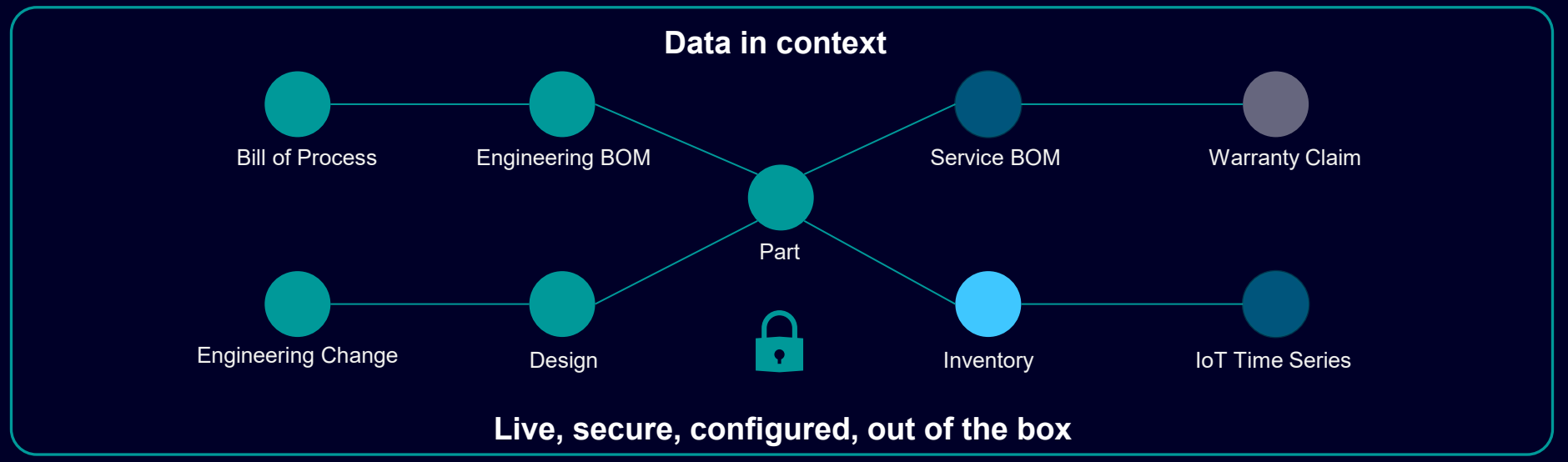
Will the alternative affect production?
Are tools, instructions or processes impacted?

The data exists. The context is fragmented.

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Intelligence Center X with Industrial Ontologies



Data Platforms

- Snowflake
- MS Fabric
- Databricks
- Palantir

Data in systems of record

Parts	Designs	Material Master	Vendors	Customer	Opportunity	Quality	Equipment
EBOMS	Requirements	Inventory	Routings	Tickets	Contacts	Quote	Warranty
Bills-of-Process	…	Sites	…	Asset	…	…	…

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094040/B;1-TOTAL VEHICLE

No Active ECN

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TOTAL VEHICLE

Revision: Global (Latest Working) Date: Today Units: None Variant: No Variant Rule Expansion: No Rule

Element

- TOTAL VEHICLE
  - MAINSTREAM MODULE
    - 20 CHASSIS
    - 55 BODY CLOSURES
    - 40 INTERIOR
      - 40.3 INTERIOR TRIM
        - IA-OVERHEAD SYSTEM - (G2KCZ-M
        - IA-QUARTER&GARNISH-(G2KCZ-M
        - IA DOOR TRIM (C121 MCM)-M-MI
        - IA-FLOOR TRIM-F-MM
        - IA-DOOR TRIM (C110 MCM)-F-MM
        - IA-REAR COMPARTMENT TRIM-F-I
        - IA-DOOR TRIM (C121)-F-MM
      - 40.8 OWNER INFO/LABELS
      - 40.2 SEATS
      - 40.7 AIR BAGS
      - 40.1 INSTRUMNTPNL/CONSOLE
      - 40.6 SEAT BELTS
      - 40.5 ACOUSTIC TREATMENTS
    - 60 EXTERIOR
    - 15 POWERTRAIN INTEGRATION
    - 50 BODY STRUCTURE
    - 10 POWERTRAIN
    - 80 ELECTRICAL FUNCTION
    - 70 INFORMATION & CONTROLS

3D



Copilot

Currently Open BOM

Welcome to AI powered Teamcenter Copilot

An intelligent tool to answer questions about your data in Teamcenter.

Filter content within 5 cm proximity of selected item.

Create workset with name 'My Workset'

Send

Clear

Role: Designer Revision Rule: Latest Working ID Display Rule: Empty (Initial ID only)

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3D



Copilot

Currently Open BOM

You

Show top 5 warranty issues

Copilot

Certainly! I'll use the available tool to retrieve the top 5 warranty issues based on severity index. Let me fetch that information for you.

1 steps performed in the background

Thank you for providing that information. I've retrieved the top 5 warranty issues based on severity index. Here'sa summary of the results:

Powered by RapidMiner

Part ID	Severity	Growth Rate
097203	92	562%
097624	85	285%
096503	81	142%
099767	79	53%
098975	78	29%

These are the top 5 warranty issues ranked by severity. The part with ID 097203 has the highest severity index of 92 and a year-over-year growth rate of 562%, indicating it's the most critical issue. Would you like more information about any specific part or do you need any further analysis of these warranty issues?

Send

Clear

Role: Designer Revision Rule: Latest Working ID Display Rule: Empty (Initial ID only)

033814/A;1-Workset for Problem 6098-9070 CONNECTOR AS...

No Active ECN

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TOTAL VEHICLE > MAINSTREAM MODULE > 40 INTERIOR > 40.6 SEAT BELTS > IA-FRT SAFETY BELT MODIFIED BEV2-F-MM > FR RH SEATBELT_ALR > 6098-9070 CONNECTOR ASM-UNSEALED x1

Revision: Latest Working Date: Today Units: None Variant: No Variant Rule

Element

- Workset for Problem 6098-9070 CONNECTOR
  - TOTAL VEHICLE
    - MAINSTREAM MODULE
      - 55 BODY CLOSURES
      - 40 INTERIOR
        - 40.3 INTERIOR TRIM
        - 40.6 SEAT BELTS
          - IA-FRT SAFETY BELT MODIFIED
            - FR RH SEATBELT_ALR
              - 6098-9070 CONNECTOR
              - TENSIONER ASM-F/SEAT BE
      - 50 BODY STRUCTURE
      - 80 ELECTRICAL FUNCTION

3D



Copilot

Currently Open BOM

specific part or do you need any further analysis of these warranty issues?

You

Find the impact of changing 097203 with a replacement and help me make the change

Copilot

Certainly! I understand you want to explore the impact of changing part 097203 with a replacement and proceed with making the change. To accomplish this, we'll need to use several tools to gather information and execute the change. Let me start by initiating the planning process for this task.

4 steps performed in the background

Here is a list of parents that are impacted:
C121 MCM HARNESS ASM-BODY WRG [SC] REAR
C121 MY2022 HARNESS ASM-L/GATE WRG
FRONT BUCKLE DRIVER
FR RH SEATBELT_ALR
FRONT BUCKLE PASSENGER
C121 MY2022 HARNESS ASM-L/GATE WRG HARN EXTN
6098-9070 CONNECTOR ASM-UNSEALED
Here is the workset created with impacted structures:
Workset for Problem 6098-9070 CONNECTOR ASM-UNSEALED(033814)
Would you like me to create a change notice for this?

yes no

Send

Clear

Role: Designer Revision Rule: Latest Working ID Display Rule: Empty (Initial ID only)

033814/A;1-Workset for Problem 6098-9070 CONNECTOR AS...

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3D



Copilot

Currently Open BOM

You

yes

Copilot

2 steps performed in the background

I understand. We've completed the preliminary steps for replacing part 097203, including identifying the part, assessing its impact, creating necessary documentation, and finding potential replacements. Now, we need to choose a suitable replacement part before executing the change.

Based on the metadata recommendations, here are the top potential replacements for the 6098-9070 CONNECTOR ASM-UNSEALED (097203):

Item ID	Cost	Supply chain risk ▲	Similarity
097319	£16.8	3%	97%
097635	£13.7	5%	88%
097564	£14.5	10%	96%
097586	£15.3	11%	98%
095400	£11.6	40%	95%

These are the top 5 recommended replacements based on similarity to the original part. To proceed with the change, we need to select one of these alternatives.

Which of these replacement parts would you like to use? Once you choose a replacement, we can move forward with executing the change.

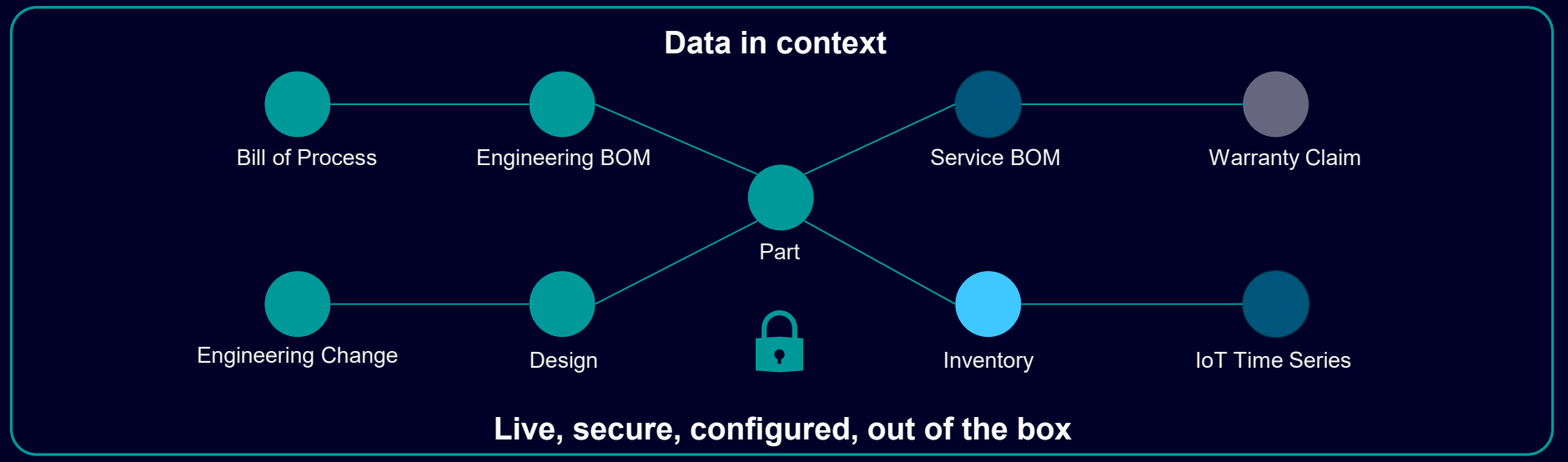
Continue with selected item

Send

Clear

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Intelligence Center X with Industrial Ontologies



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Bills-of-Process	…	Sites	…	Asset	…	…	…

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“With a knowledge graph and AI, Your systems of records can be transformed into a system of Intelligence “

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