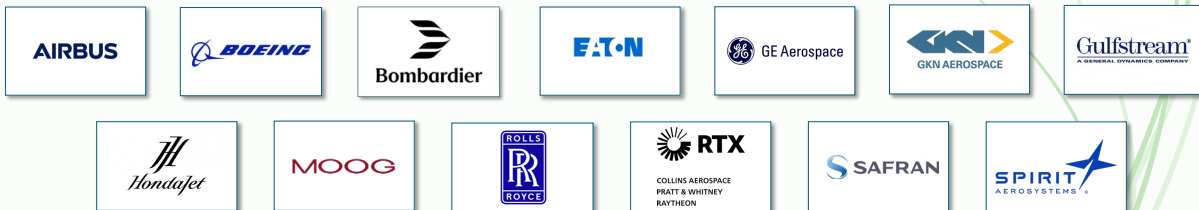


PLM Road Map™ & PDT Europe 2025
PLM's Integral Role in Digital Transformation From Strategy to Execution
Elevating PLM to an Enterprise Business Solution,
the PLM Professional's Road Map to Success
5 & 6 November



Aerospace & Defense PLM Action Group

Advocating for the Advancement of PLM



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Aerospace & Defense PLM Action Group

Antitrust statement

All Aerospace & Defense PLM Action Group (AD PAG) meetings shall be conducted in strict accordance with applicable antitrust laws, which exist to preserve and promote competition. It is the responsibility of all AD PAG member companies to ensure this compliance with the antitrust laws. To that end, meeting participants, who are business competitors, must be careful to avoid any mention or discussion of topics that might raise potential antitrust issues or concerns.

In particular, there shall be no mention or discussion of individual company pricing or marketing plans; terms and conditions of sale negotiations; changes in capacity, production or inventory; market share; allocation of customers or markets; company boycotts or refusals to deal; matters concerning individual suppliers; or contract bidding or bidding procedures. Should any question arise about the appropriateness of a meeting topic, discussion of that topic should stop immediately, and the members' legal counsels contacted for further direction.

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Aerospace & Defense PLM Action Group

Founded in February 2014



Mission

An association of aerospace & defense companies within CIMdata's globally recognized PLM Community Program, which functions as a **PLM advocacy group** to:

- Set the direction for the aerospace & defense industry on PLM-related topics that matter to members
- Promote common industry PLM processes and practices
- Define requirements for common interest PLM-related capabilities
- Communicate with a unified voice to PLM solution providers
- Sponsor collaborative PLM research on member-prioritized industry and technology topics

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2014-16 Research

PLM Obsolescence Management

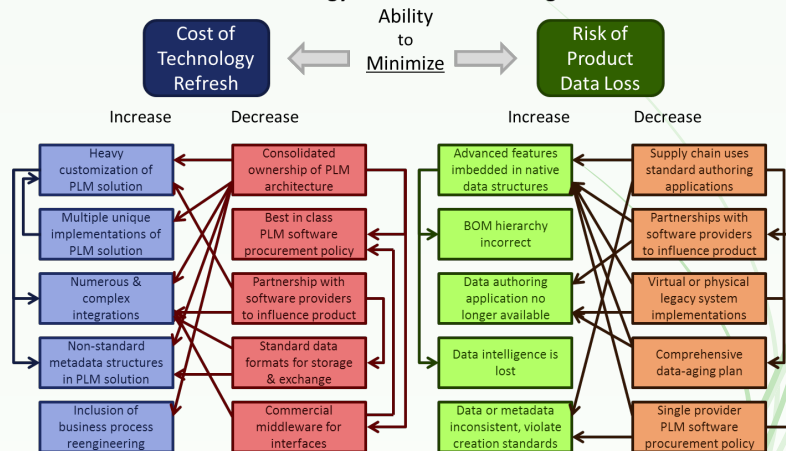
Phase 1 Goal

Develop more precise definition of the causal factors contributing to negative impacts of obsolescence and survey the state of the art in mitigation methods

Phase 2 Goal

Acquire insights and supporting evidence for a direction statement to influence solution providers, standards bodies, and members' supply chains.

PLM Technology Obsolescence Management



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2014-16 Research

PLM Global Collaboration

Phase 1 Goal

Characterize current state and future trends in collaboration, and determine how Members can most effectively influence solution suppliers, standards bodies, and collaboration partners

Phase 2 Goal

Recommendations to improve members' collaboration capabilities and supporting evidence for a direction statement to influence solution providers.

Phase 1

Collaboration Entity	Collaboration Purpose							
	Work Assignment & Des'n Delivery	Simultaneous Design & Evaluation	DMU Baselining	Design Review & Approval	Engineering Change	Supplier Selection – RFX & Response	Contractual Discussions *	
OEM							M.A.	Very High (7.1-9.0)
Design & Build Partner	1 8.1	2 7.2	3 3.9	4 3.8	5 3.3			High (5.1-7.0)
Equip't & System Supplier	↓	↓	↓					Moderate (3.1-5.0)
Design Supplier	↓ 4.4	↓ 3.3	↓ 3.8					Low (1.1-3.0)
Build to Print Supplier								Very Low (<1.1)
Tooling Design Supplier								

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Aerospace & Defense PLM Action Group

Fast forward to 2025

Membership

Presence within Global Aerospace

- 12 of the top 50
- 9 of the top 20
- 5 of the top 10

Level of Activity

- Annual Meeting
 - In person, 2 ½-3 days
- Mid-year Checkpoint
 - In person, 1 ½-2 days
- Leadership Meetings
 - Online, 2 hours, monthly

Collaborative Actions

Project Workstreams


- PLM Technology Obsolescence Management
- Global Collaboration
- Model-based Definition (MBD)
- Multiple View Bill of Material (Multi-view BoM)
- Model-Based Systems Engineering (MBSE)
- Interoperability Standards
- Digital Twin/Digital Thread

Research with Solution Providers

- Digital Thread
- Model-based Systems Engineering

AD PAG Insights

Website: www.ad-pag.com

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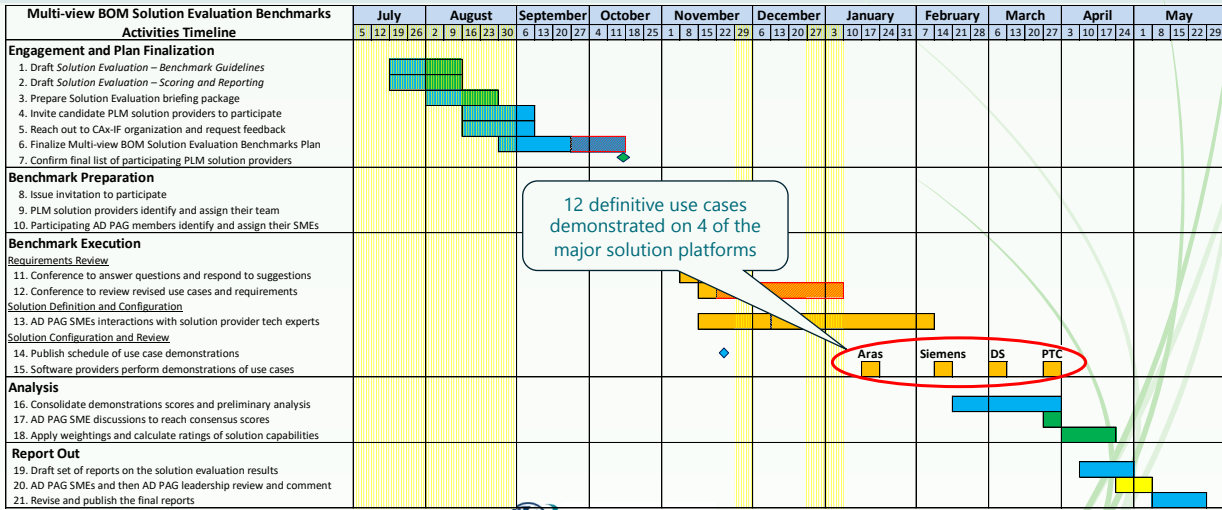
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Multi-view BOM Benchmarks

Demonstrations on four platform solutions (July 2019 – May 2020)



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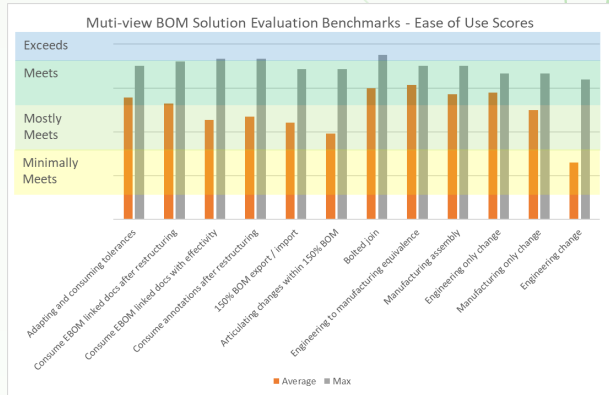
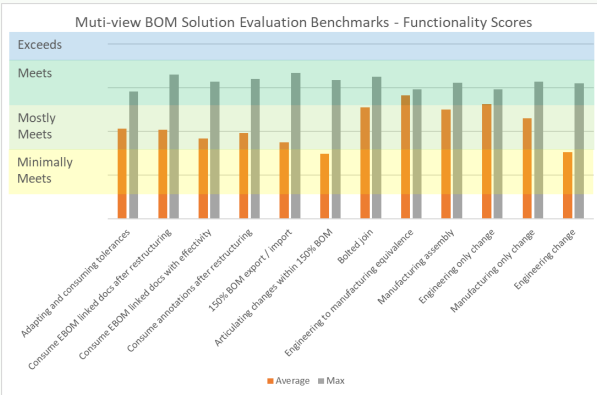
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Multi-view BOM Benchmarks

Results

- A&D OEM Multi-view BOM management requirements were met or mostly met by multiple commercially available PLM software solutions
- Usability of commercially available PLM software solutions' Multi-view BOM management capabilities will not inhibit adoption or efficiency



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Collaborative Research with Solution Providers

Insights on strategic topics beyond the planning horizon

Objective

To gain understanding of needs and opportunities within industry that will inform solution strategies and implementation roadmaps

Digital Thread Co-Sponsors

2022-23



MBSE Co-Sponsors

2023-24



Contributing Providers of Interest

Dassault Systems, HCLTech, IBM and Tata Consultancy Services

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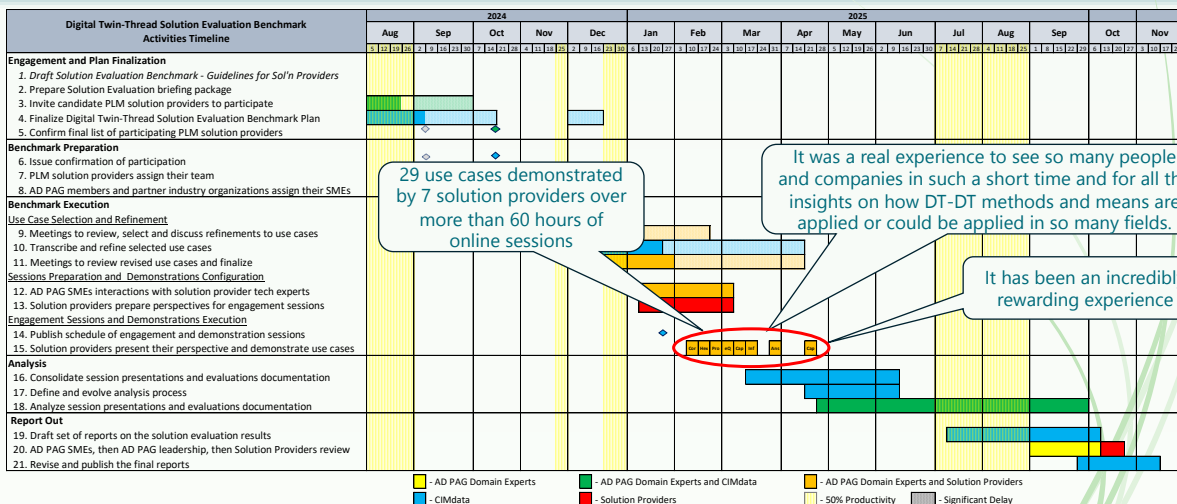
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Digital Twin-Digital Thread Benchmark

Timeline, scope and analysts' quotes (June 2024 – November 2025)



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Influencing the direction of the PLM ecosystem

Website launched Nov 2017, making AD PAG project artifacts publicly available (at www.ad-pag.com)

Content

- Direction statements (3)
- Research reports (8)
- Position papers (15)
- Benchmark report (1)
- A&D PLM Glossary
- CIMdata A&D webinars (15)
- CIMdata Road Map A&D conference presentations (18)

Status

- Over the period from Nov 2017 to Jul 2025
 - 3,435 individuals
 - 5,694 sessions
 - 27,954 documents downloaded

Industry	Downloads (July 31, 2025)
A&D	8,491
Academic	1,016
Automotive	555
Constuction	190
Consulting	1,381
Consumer Goods	279
Electronics / Hi Tech	708
Fabrication & Assembly	317
Government	491
Mechanical Machinery	532
Medical Device	346
Other	3,580
Other Transportation (non- Auto)	213
Process / Petro Chemicals	106
Shipbuilding	315
Solution Provider	9,016
Utilities	418
Total downloads	27,954

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Aerospace & Defense PLM Action Group

Further information

For further information or to inquire regarding membership please contact **CIMdata**

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James Roche, A&D Practice Director, email: j.roche@cimdata.com

or

any A&D PLM Action Group member



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