2023 Market & Industry Forum—4 April 2023

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The Digital Thread: The Industrial User Perspective PLM Market & Industry Forum A CIMdata Leadership Event

4 April 2023—Frankfurt, GERMANY

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Presenter's Profile



James Roche Aerospace & Defense Practice Director

- 35+ years of experience in transformation and IT enablement of product development and manufacturing processes.
- Strategic advisor and program manager for PLM programs across the Americas, Europe, and Asia.
- PLM Practice Manager at CSC Consulting and at A.T. Kearney.
- Previously with EDS, served as chief architect for General Motors' worldwide engineering systems.
- Areas of Focus
 - Facilitating cooperation within the aerospace and defense industry
 - Strategically expanding PLM within aerospace and defense companies
 - Extending PLM from airframe and propulsion OEMs to their external value chains

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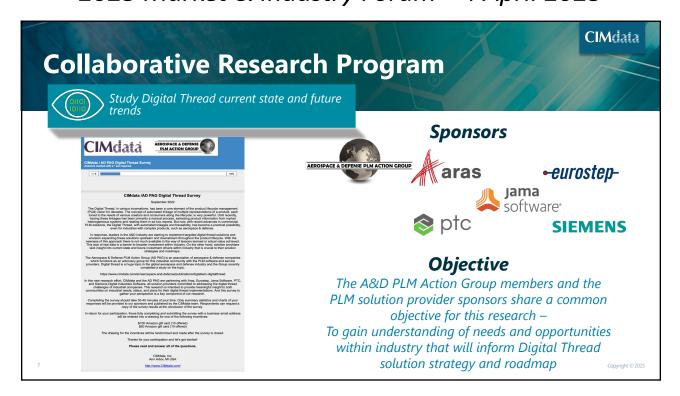


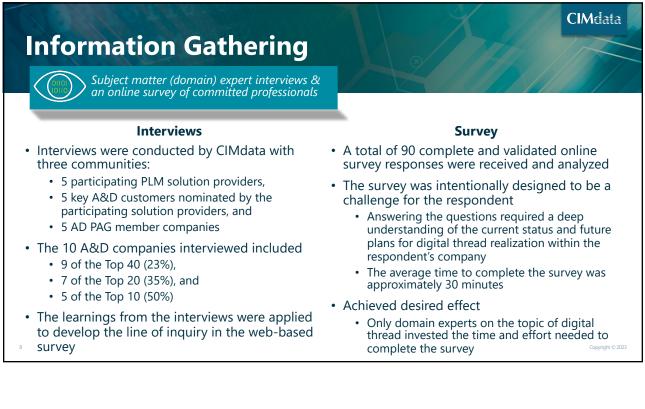
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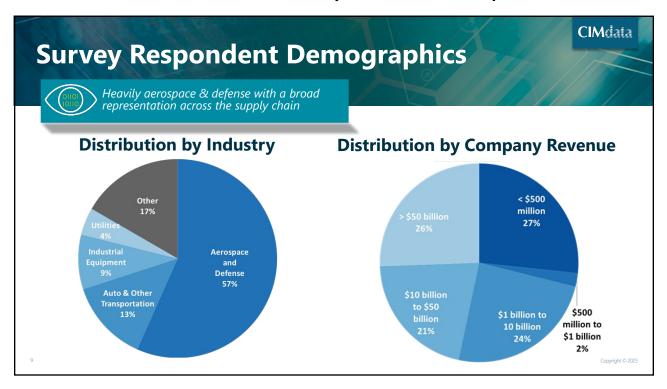






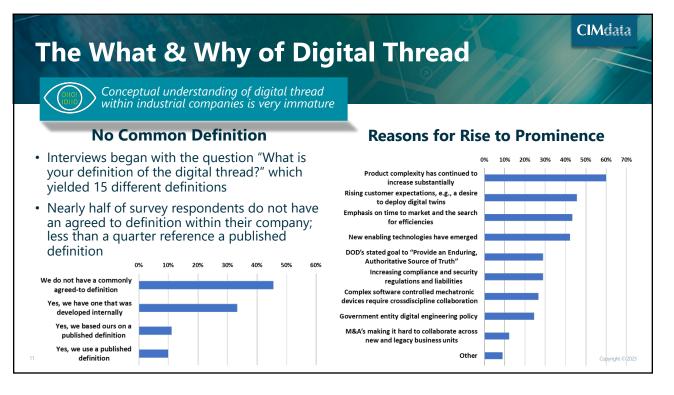


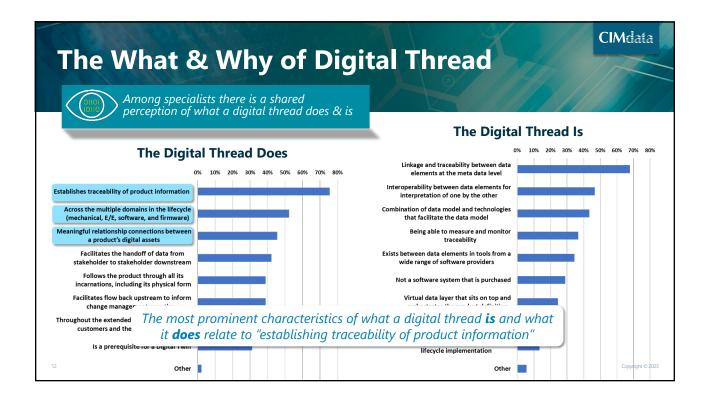
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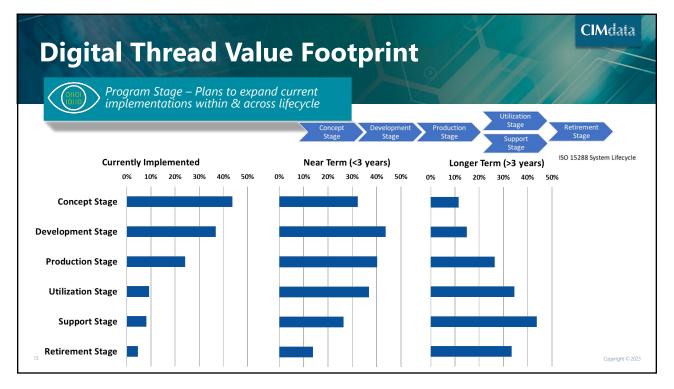
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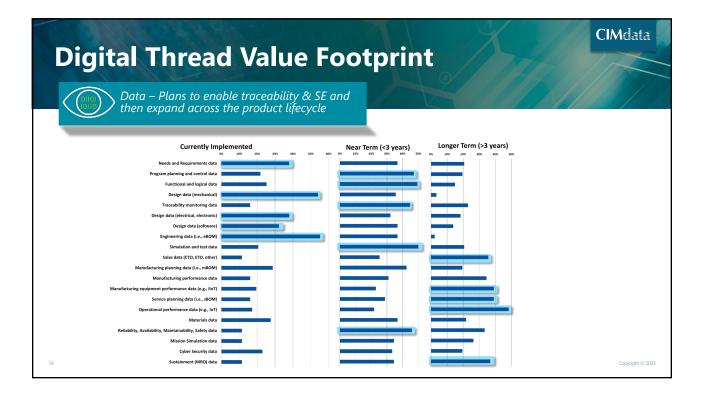




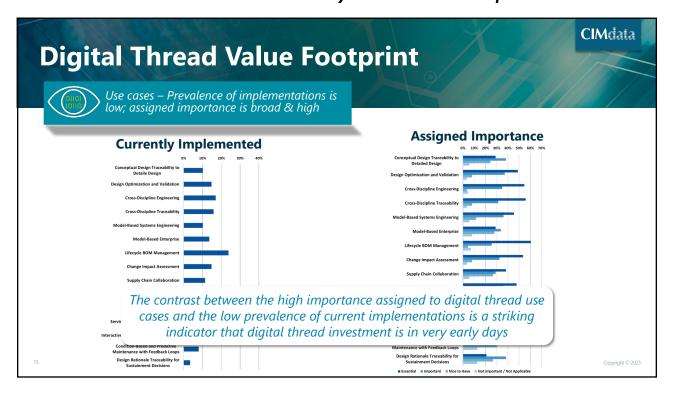


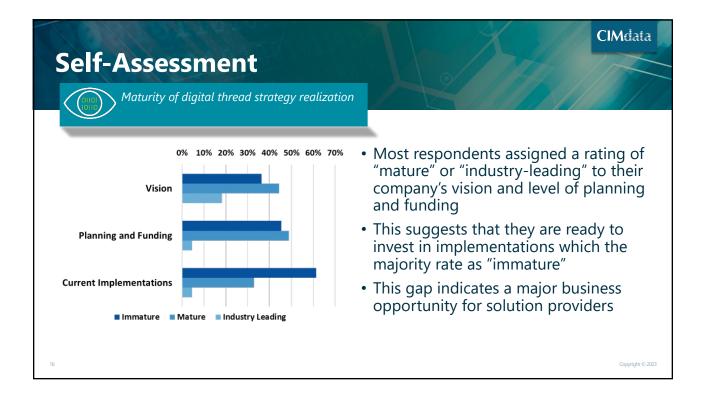
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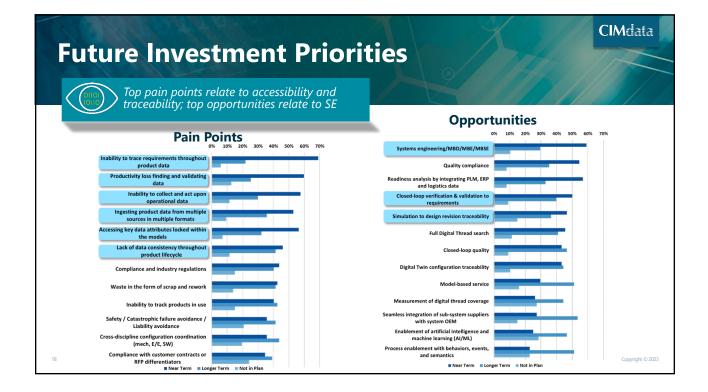




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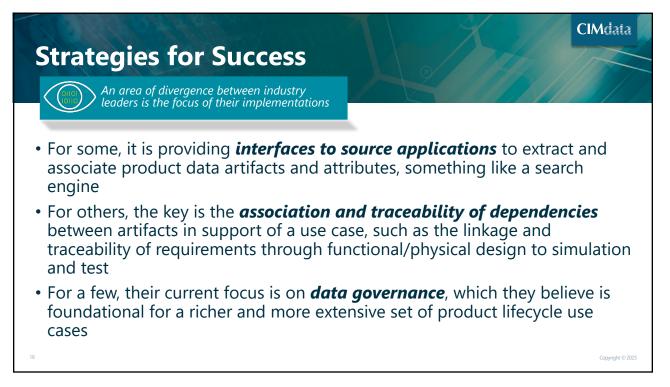
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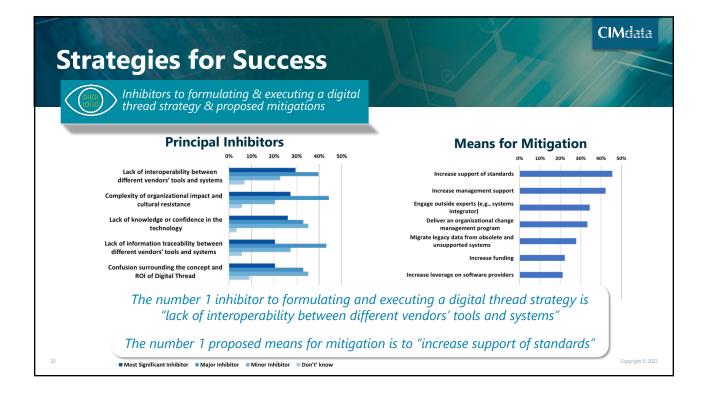






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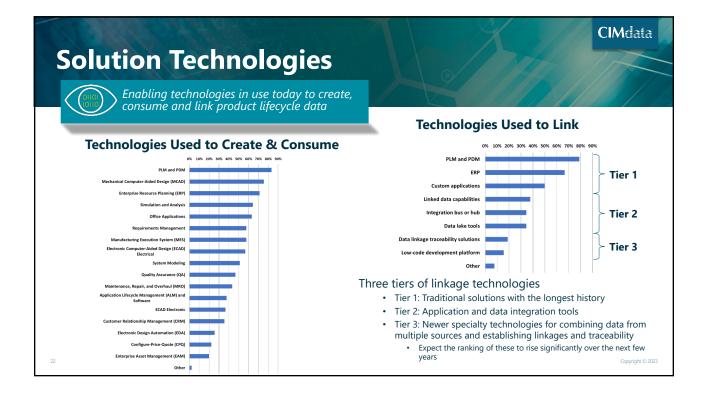


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Solution Technologies

Key technical considerations

- **Core to the value of digital thread is traceability** across source and derivative product-related artifacts along the lifecycle & throughout the extended enterprise
- The *digital thread value landscape is distributed across a heterogeneous value chain* from customer to OEM to partners and multiple tiers of suppliers. This reality drives the need for data interoperability and elevates the importance of standards and openness of enabling solution architectures
- **Proven technical solutions exist for enabling the digital thread**, and leading solution providers are investing heavily in research-guided strategies and roadmaps to further strengthen their offerings
- **Data is the foundation of the digital thread**. This reality elevates the importance of sound data governance and a cleansed repository, especially as use case
- implementations proliferate and must be interlinked into an extended thread Copyright © 2023



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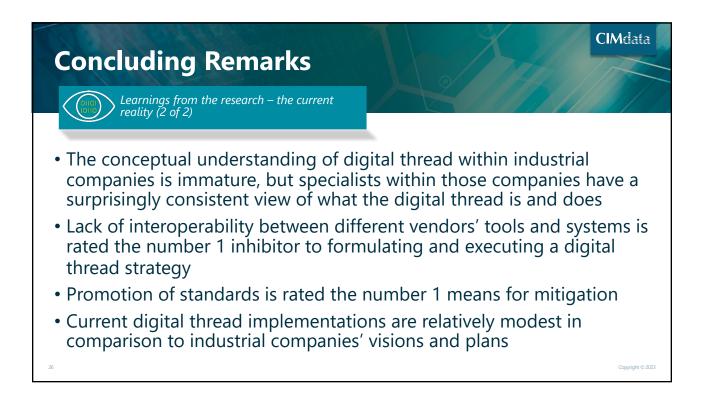




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Concluding Remarks

Learnings from the research – planning future investment

- The top six pain points all relate to accessibility and traceability across data elements, especially of requirements throughout the lifecycle
- Systems engineering is ranked as the top new value opportunity
- The next stage of digital thread realization will be more complex and transformative
- Most industrial companies seem to be unaware of the complexities and prerequisite foundational elements as they pursue their visions
- A few have sophisticated programmatic approaches with strong support from a well-informed and motivated senior management





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