

CINCLATE Defining What Comes Next in Digital Transformation

Strategic management consulting for competitive advantage in global markets

The leading independent authority on PLM and its digital transformation. We provide research, education, and strategic consulting to clients around the world.

OUR MISSION: Maximizing clients' ability to design, acquire, deliver, and support innovative products and services.

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#### **Presenter's Profile**

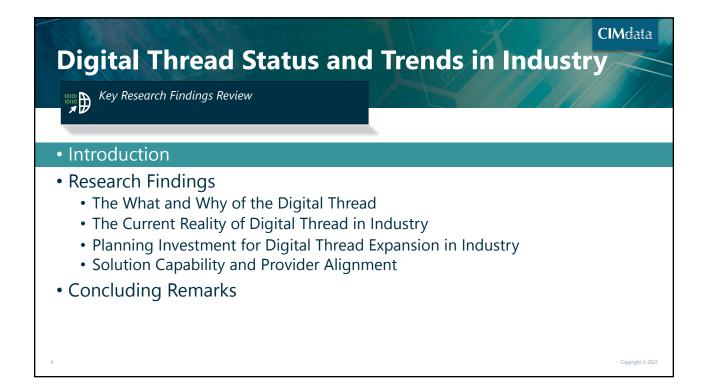


James Roche Aerospace & Defense Practice Director

- 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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# Information Gathering

Subject matter (domain) expert interviews & an online survey of committed professionals

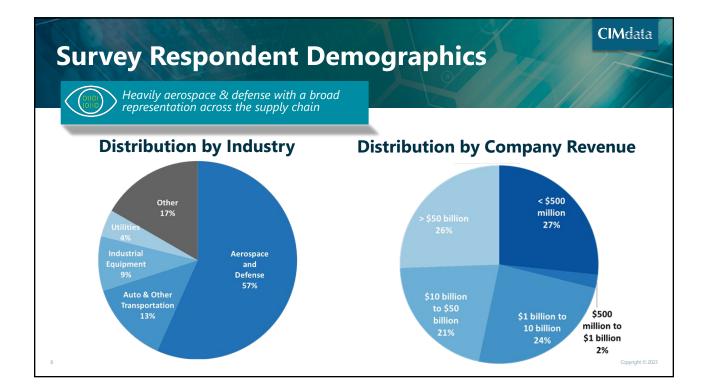
#### Interviews

- Interviews were conducted by CIMdata with three communities:
  - 5 participating PLM solution providers,
  - 5 key A&D customers nominated by the participating solution providers, and
  - 5 AD PAG member companies
- The 10 A&D companies interviewed included
  - 9 of the Top 40 (23%),
  - 7 of the Top 20 (35%), and
  - 5 of the Top 10 (50%)
- The learnings from the interviews were applied to develop the line of inquiry in the web-based survey

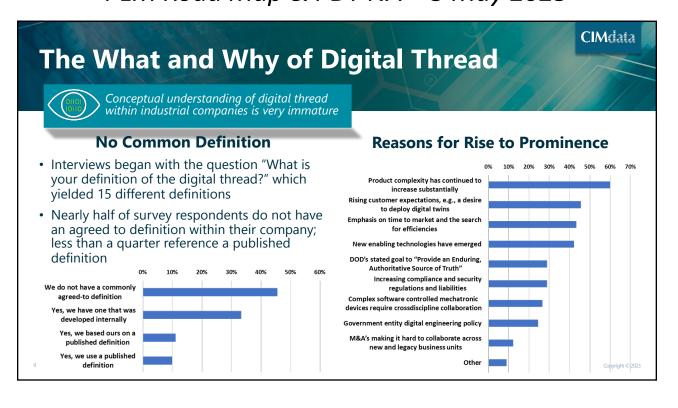
#### Survey

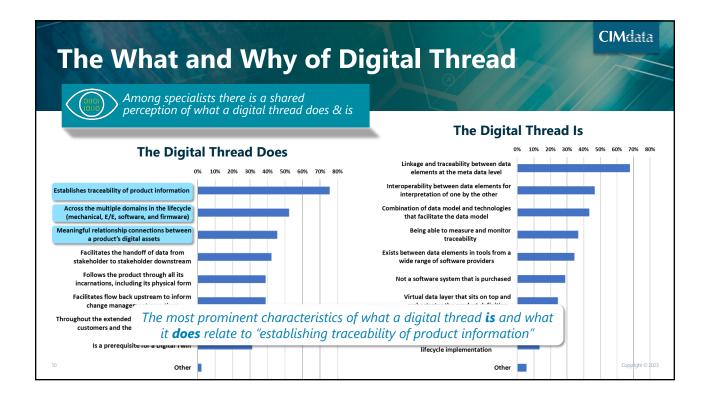
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- A total of 90 complete and validated online survey responses were received and analyzed
- The survey was intentionally designed to be a challenge for the respondent
  - Answering the questions required a deep understanding of the current status and future plans for digital thread realization within the respondent's company
  - The average time to complete the survey was approximately 30 minutes
- Achieved desired effect
  - Only domain experts on the topic of digital thread invested the time and effort needed to complete the survey



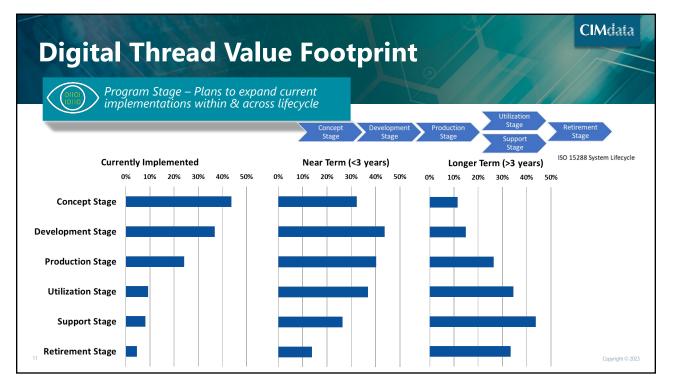
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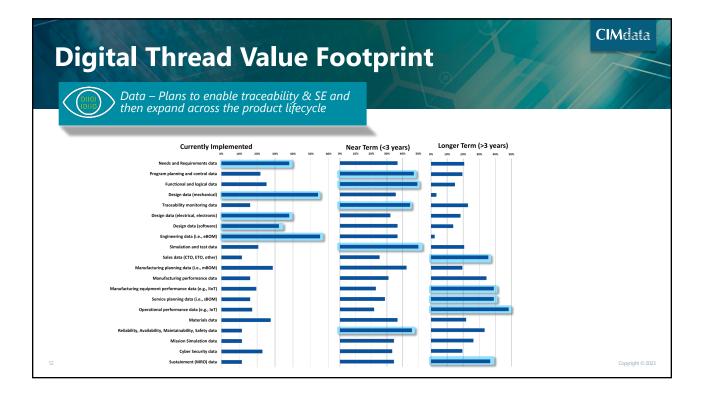




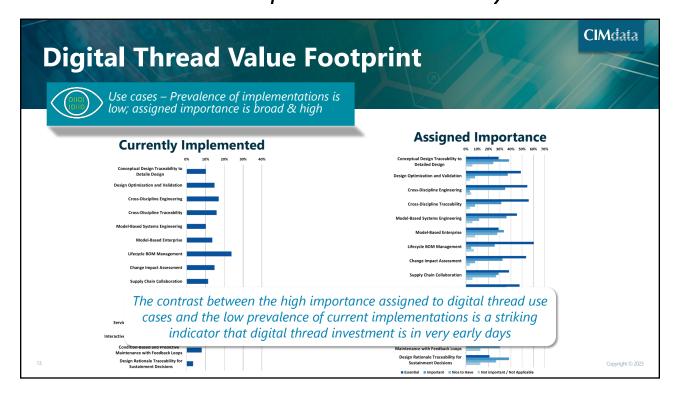


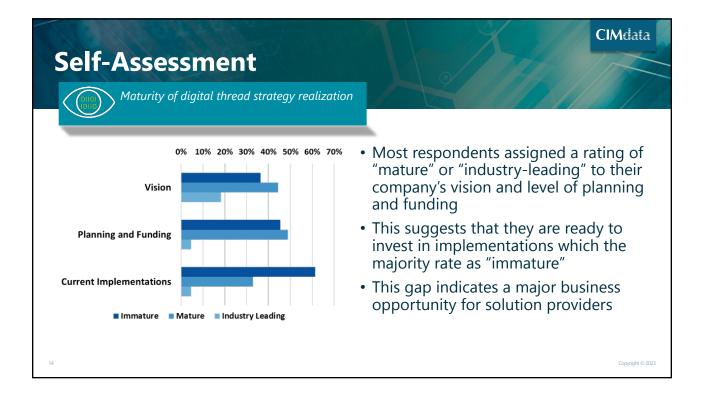
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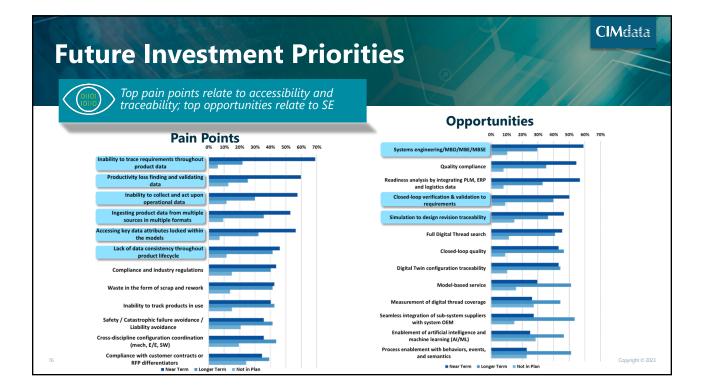
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#### Looking to the Future

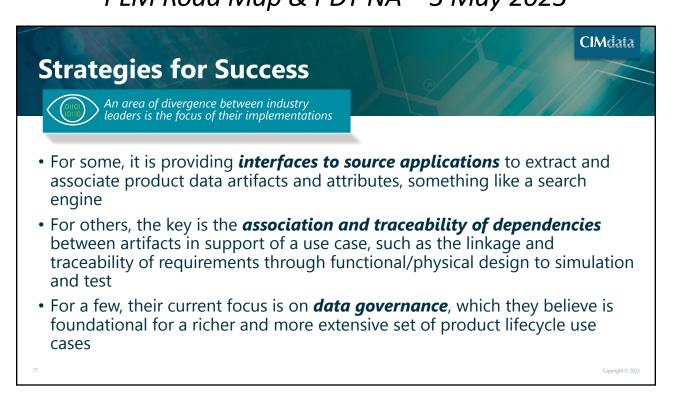
Industry leaders are taking a broader view as

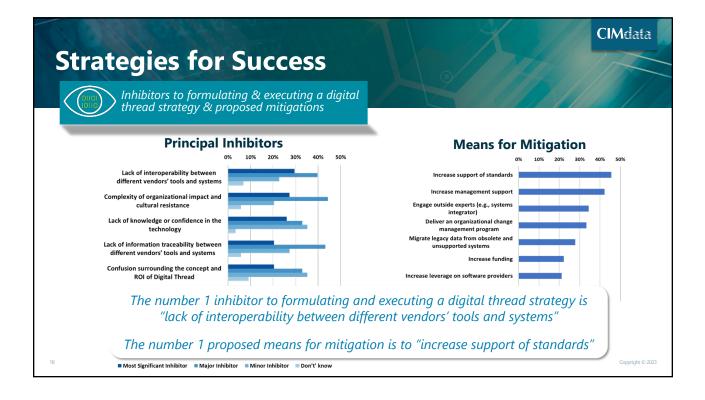
- they enter a more complex phase
- There will be more investment in production and service
- There will be increased emphasis on extending the digital thread community to include customers, partners, and suppliers more fully
- MBSE will be a fundamental driver of future investment
- The next stage will be more complex and transformative
  - There are examples of established programs that enjoy strong support from a well-informed and motivated senior management
  - But many are struggling to build awareness within their leadership and achieve early successes as proof points to motivate executive engagement and funding for execution





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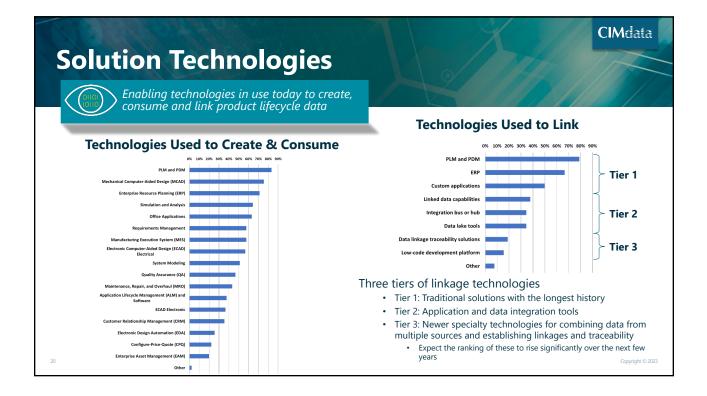


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### **Solution Technologies**

Key technical considerations

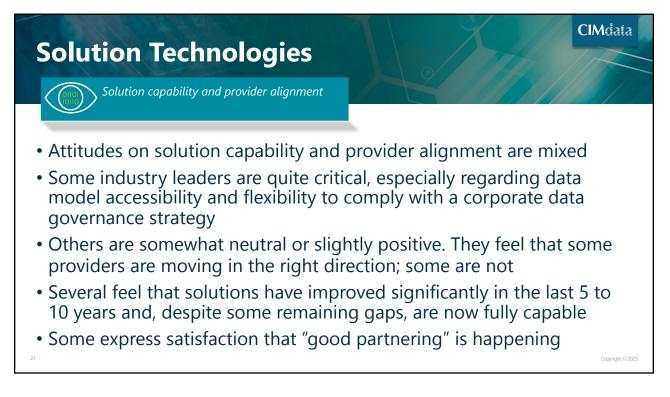
- **Core to the value of digital thread is traceability** across source and derivative product-related artifacts along the lifecycle & throughout the extended enterprise
- The *digital thread value landscape is distributed across a heterogeneous value chain* from customer to OEM to partners and multiple 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 Copylight © 2023

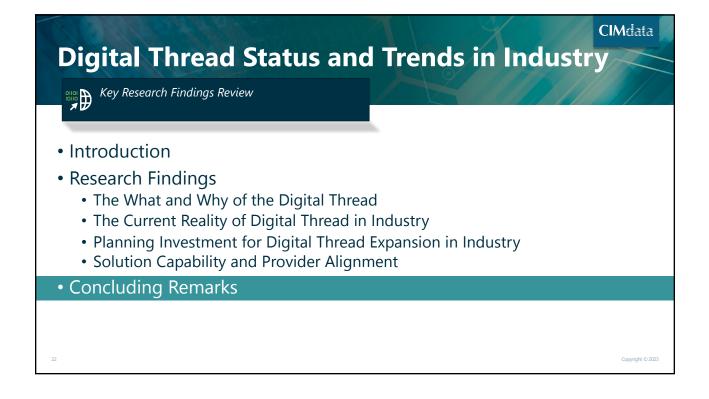


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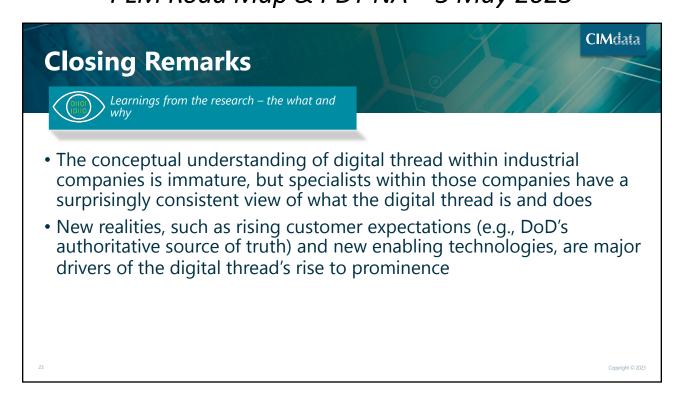
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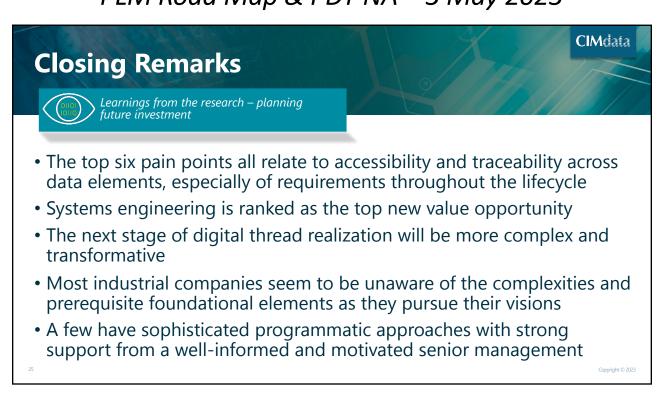
















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