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

#### 11 April 2024—Frankfurt, GERMANY

Christine Longwell, Director of Research, c.longwell@CIMdata.com + 1.734.668.9922

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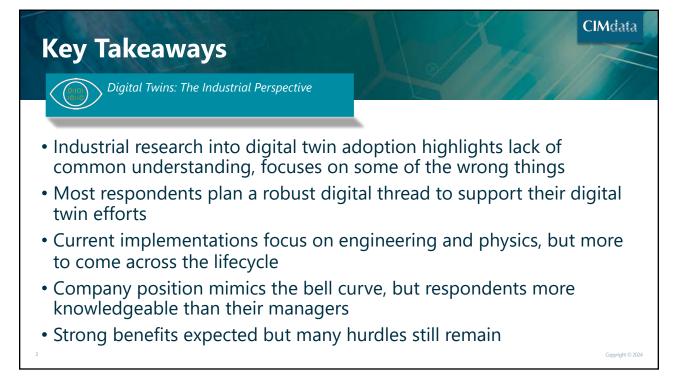
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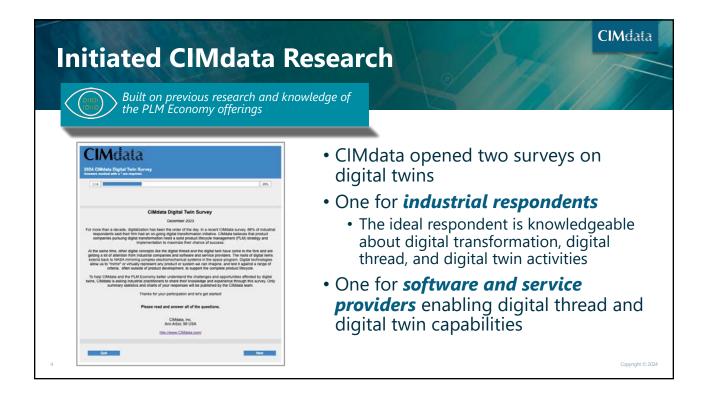
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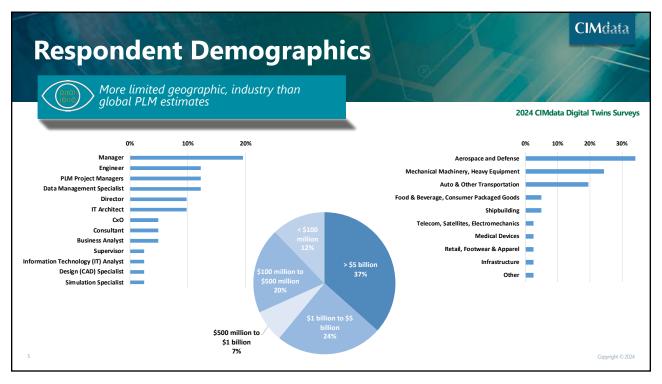
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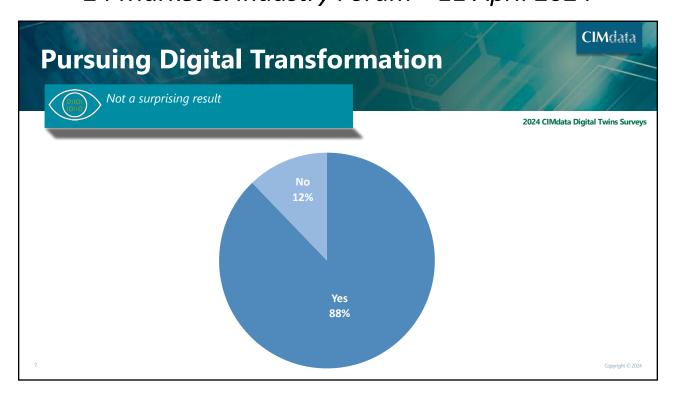


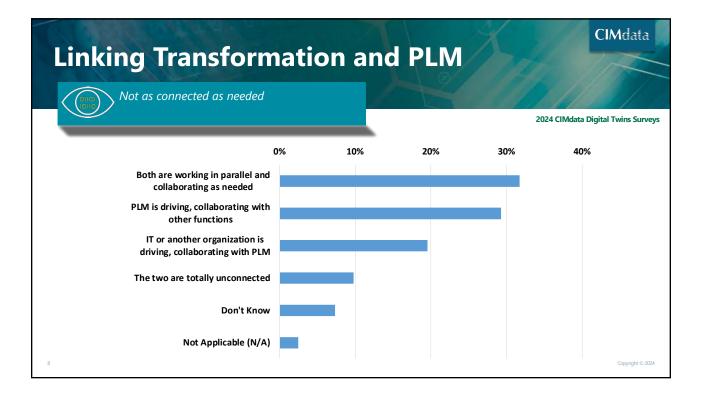






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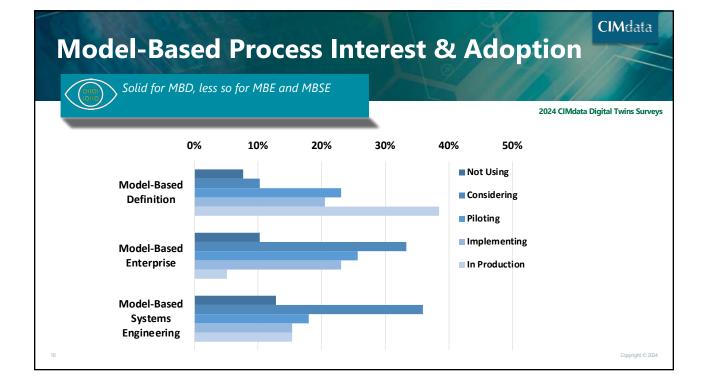


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#### **Model-Based Approaches**

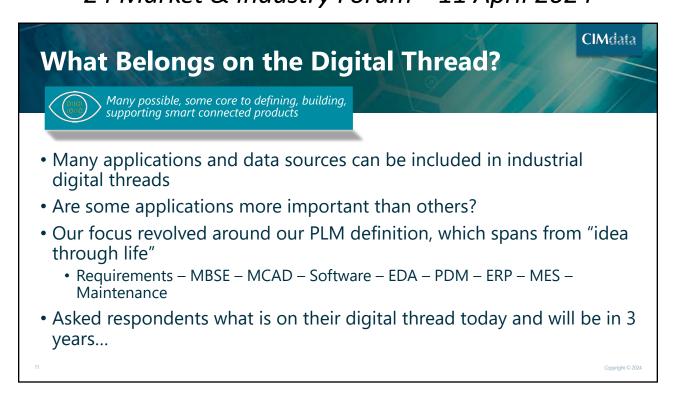
Related to and key enablers of digital twin and digital thread

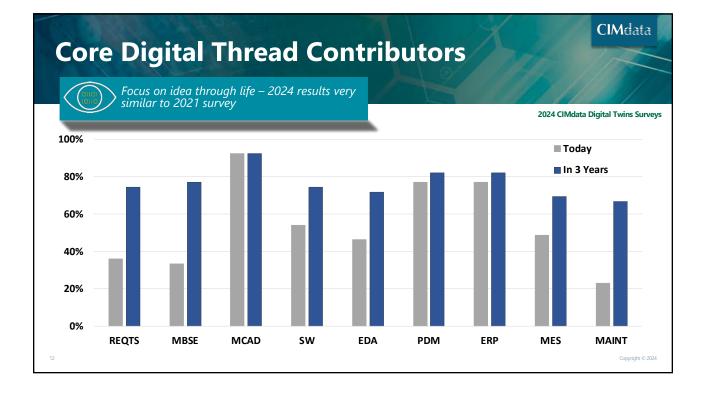
- Model-Based Definition (MBD) The practice of using 3D models (i.e., solid models, 3D PMI and associated metadata) within 3D CAD software to define (provide specifications for) individual components and product assemblies.
- Model-Based Enterprise (MBE) "a vision to transform an enterprise's engineering, manufacturing, and aftermarket services through product data reuse and derived context, rather than interpreting inputs and recreating the models and drawings." Leverages Model-Based Definition (MBD).
- Model-Based Systems Engineering (MBSE) "the formalized application of modeling to support system requirements, design, analysis, verification and validation activities beginning in the conceptual design phase and continuing throughout development and later life cycle phases."



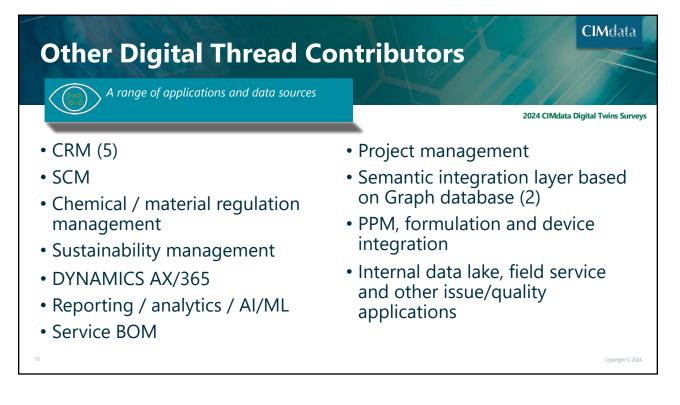


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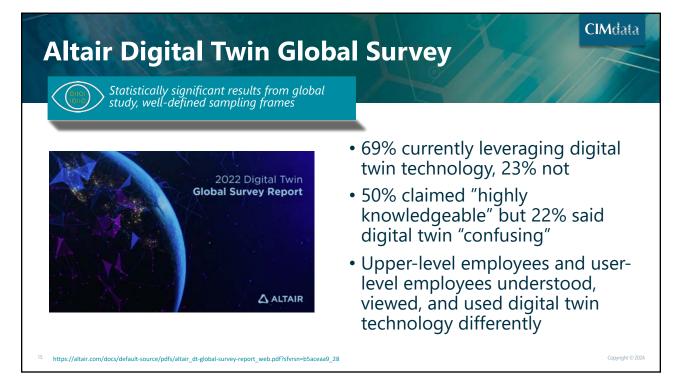


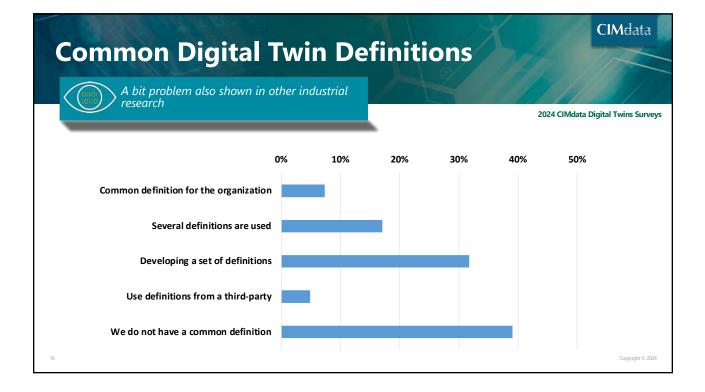




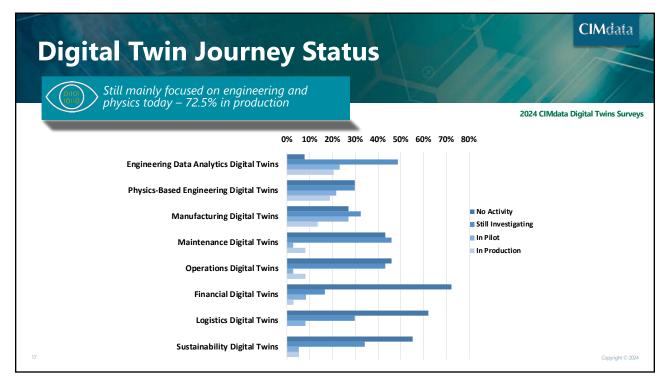
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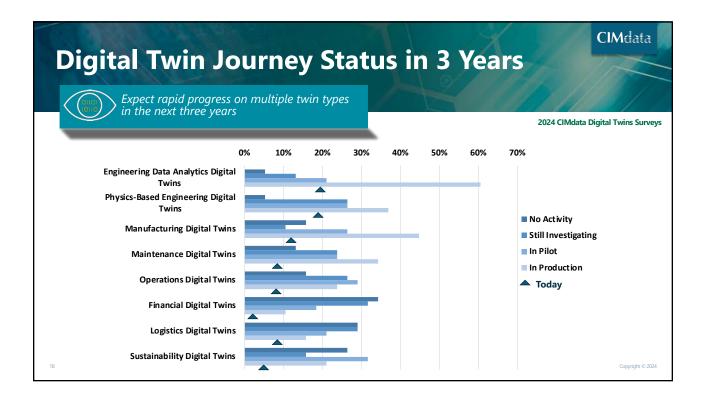




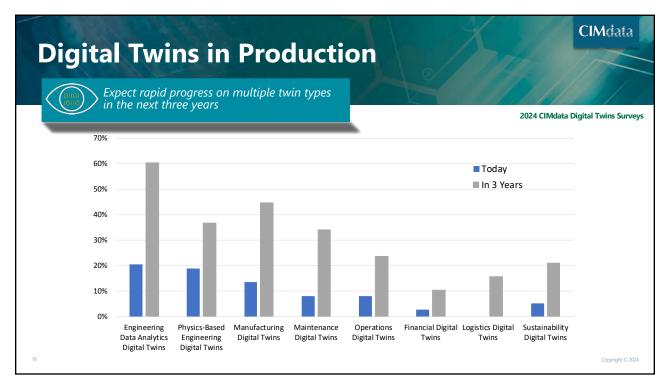


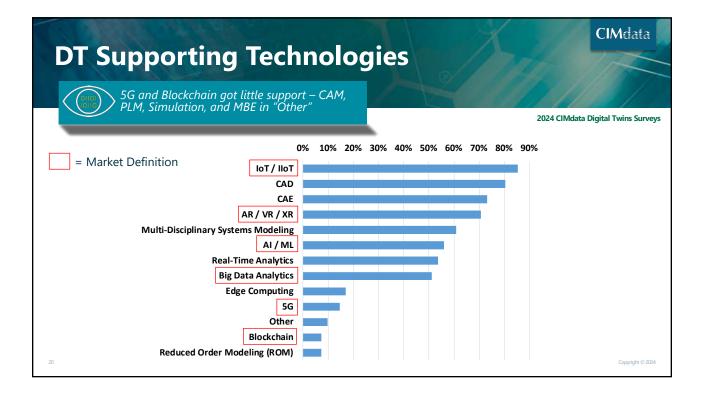




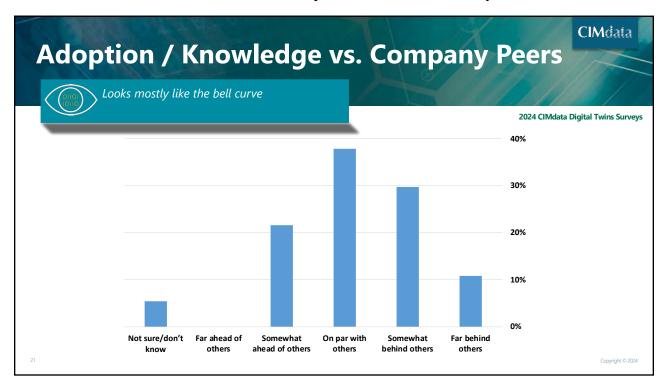


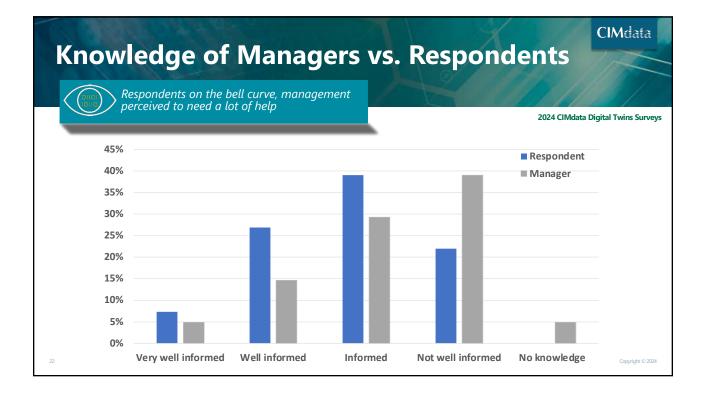




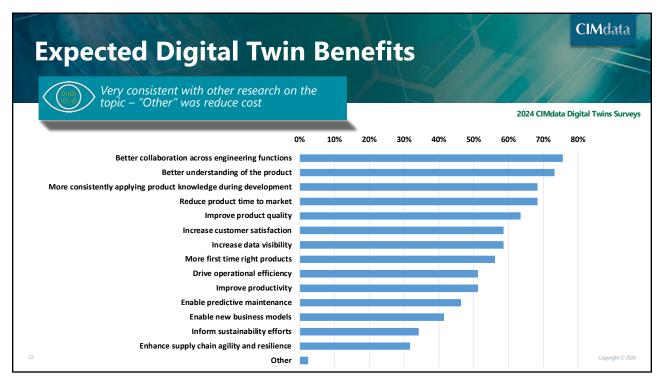


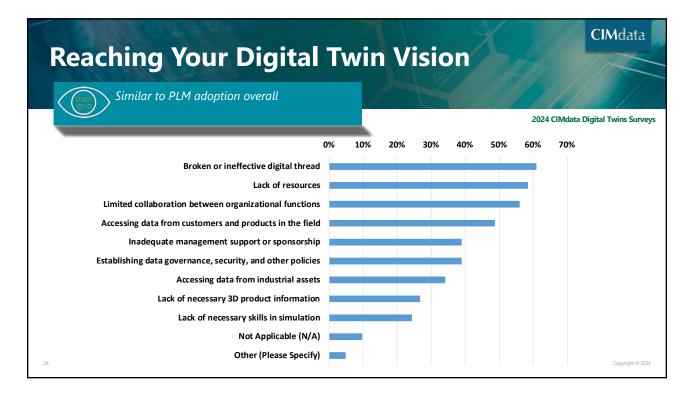
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#### **Concluding Remarks**

S Digital Twins: The Industrial Perspective

- Industrial research into digital twin spending and adoption highlights lack of common understanding, focuses on some of the wrong things
- Most respondents plan a robust digital thread to support their digital twin efforts
- Current implementations focus on engineering and physics, but more to come across the lifecycle
- Company position mimics the bell curve (lacking innovators), but respondents more knowledgeable than their managers
- Strong benefits expected but many hurdles still remain





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