CIMdata PLM Leadership Webinar Series—13 October 2016



Agenda Introduction Survey Overview Performance, Investment, and Technology Usage / Plans Potential Benefits, Who Wins, and Sources of Improvement Priorities for Improvement, and Obstacles to Change CIMdata's Perspective



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Presenter's Profile

Your presenter's professional background

 Ed Martin, Director, AEC & Manufacturing Convergence Consulting Practice



Over 36 years of PLM and manufacturing industry experience in the disciplines of product development, manufacturing automation, lean manufacturing, and systems engineering. Before joining CIMdata, Sr. Business Line Manager for Autodesk; Product Line Manager for Delphi Corporation, and Product Engineer at General Motors. Has held management positions in the manufacturing industry and PLM software and services industry, including responsibility for strategic planning, product management, manufacturing strategy, product and industry marketing, and strategic business development. He has driven the development of new solutions and championed the adoption of new technologies ranging from 3D laser scanning to configure/quote solutions and 3D layout.

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Our Mission...

Strategic management consulting for competitive advantage in global markets

CIMdata is the leading independent global strategic management consulting and research authority focused exclusively on the PLM market.

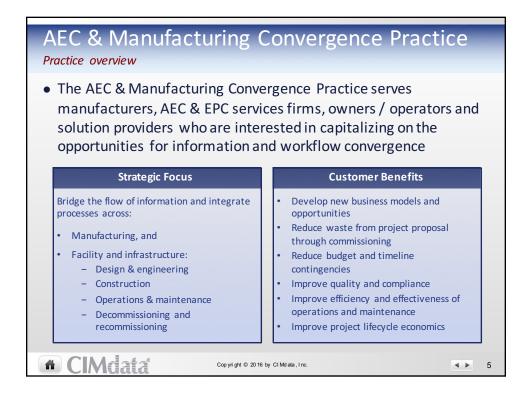
We are dedicated to maximizing our clients' ability to design and deliver innovative products and services through the application of PLM.

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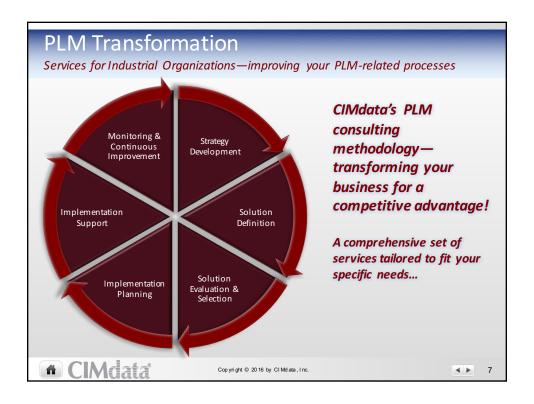
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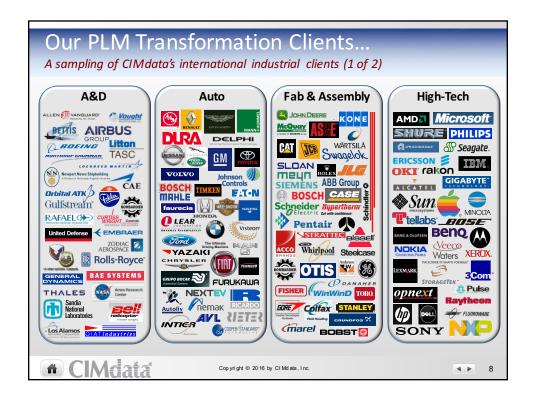




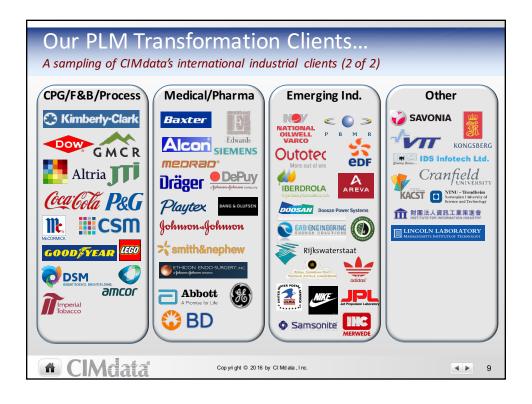


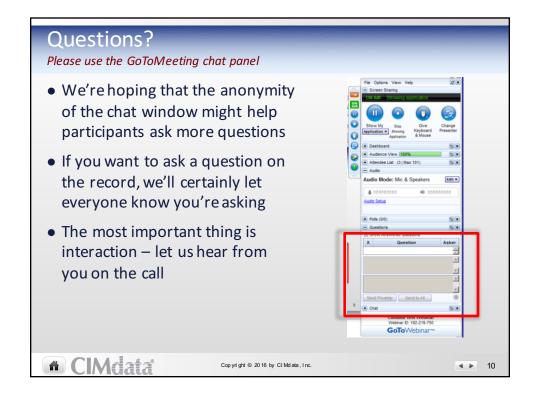




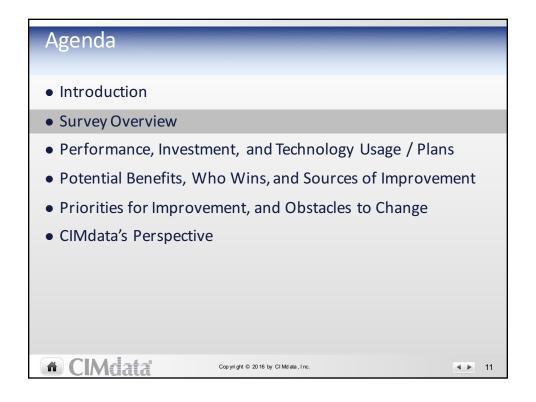


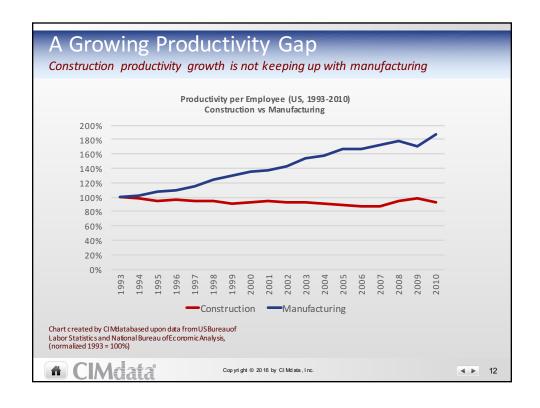














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CIMdata AEC Survey Demographics

Respondents mainly in NA, but a representative cross-section of the industry

- 84 responses included in analysis
- Evenly split across company sizes
 - 20% \pm 5% in each size "bin" (1–20, 21–100, 101–500, 501–2000, 2000+)
- 73% of survey respondents are executives, managers, architects, or engineers
- 64% of companies based in North America
 - About 40% of companies get at least 10% of revenue from both Europe & Asia
- Most respondents work on larger scale projects
 - Commercial facilities, Industrial facilities, Process & power, and Public facilities were top 4 project categories

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Key Takeaways

There is a major opportunity, and seizing it requires investing in capabilities

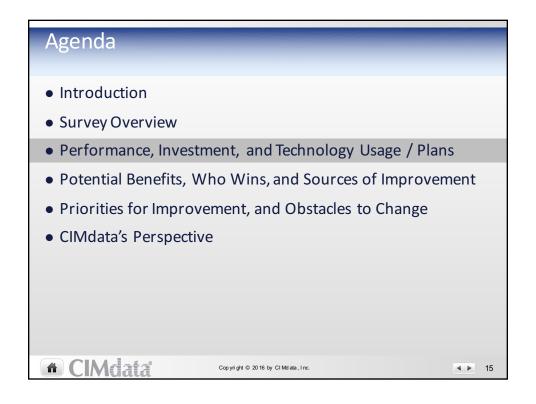
- Better performance vs competition is correlated with growth in IT budget and higher adoption of advanced technologies
- Most respondents see significant savings potential (10% or more) for *both* design/construction and operations/maintenance
- Building products manufacturers, AE firms, general contractors, and owners/operators all stand to benefit
- Most improvement will come via reducing changes and project risk
- Collaboration, change management, and interoperability are priorities
- Main challenges are technology interoperability, lack of owner understanding, and "incrementalism"

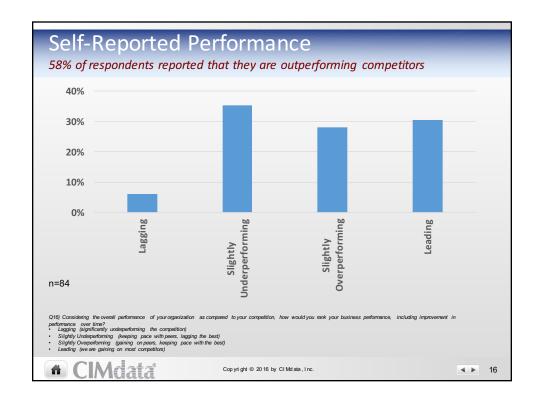


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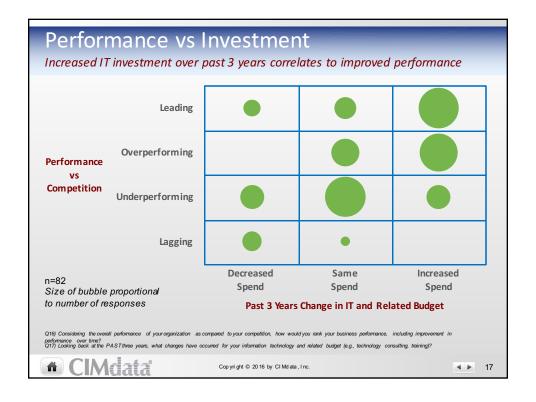
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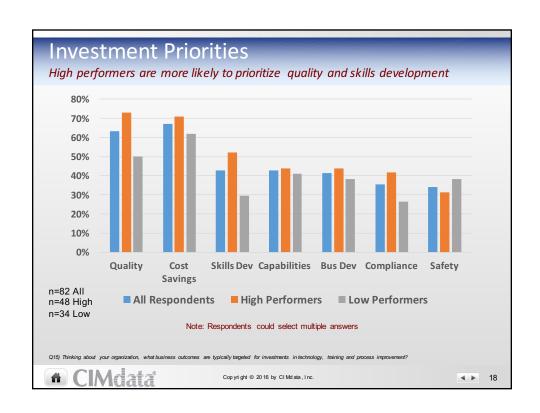




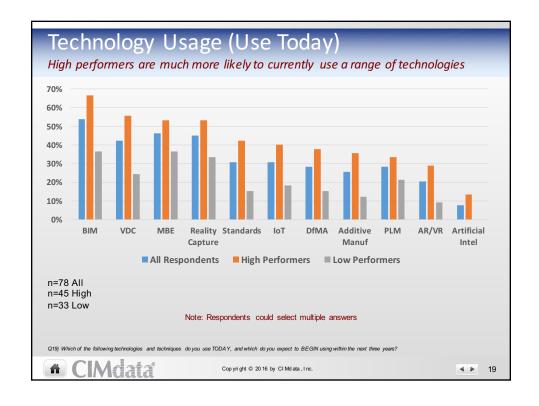


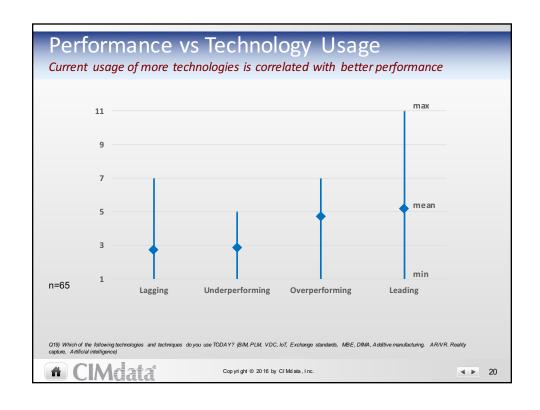




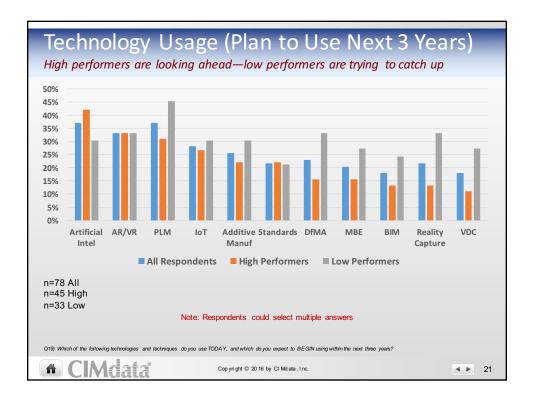






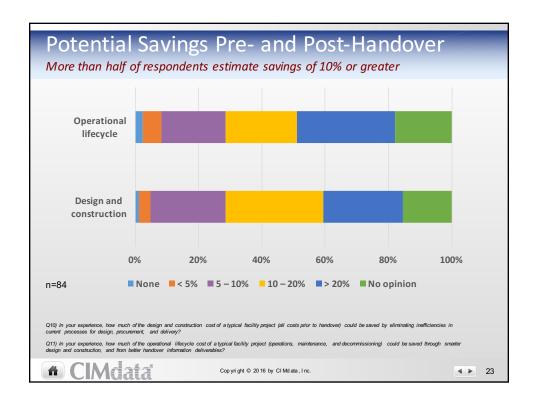


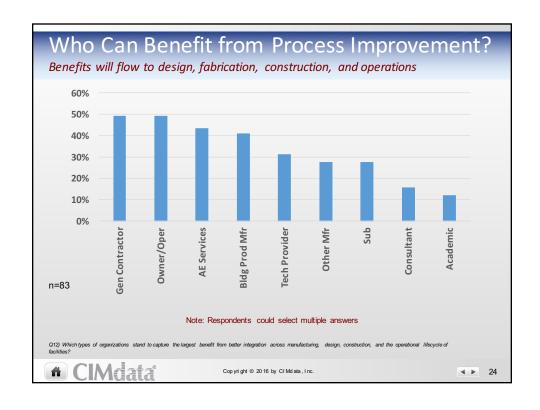




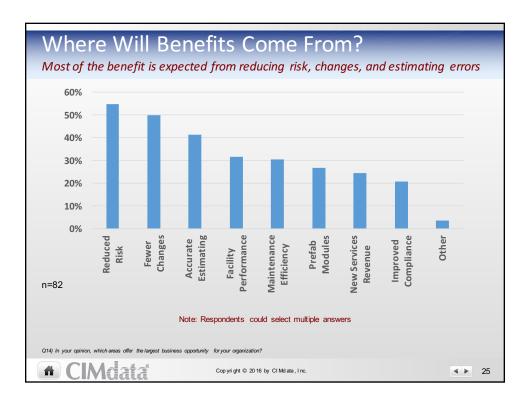


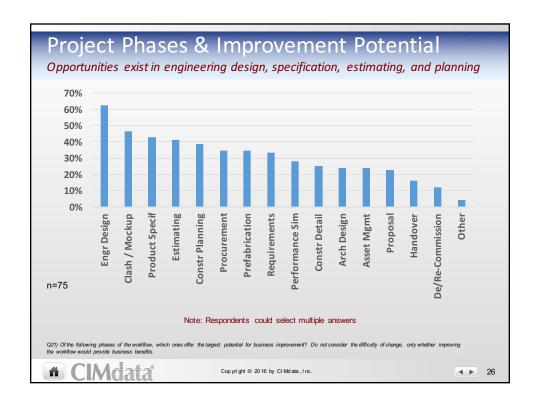






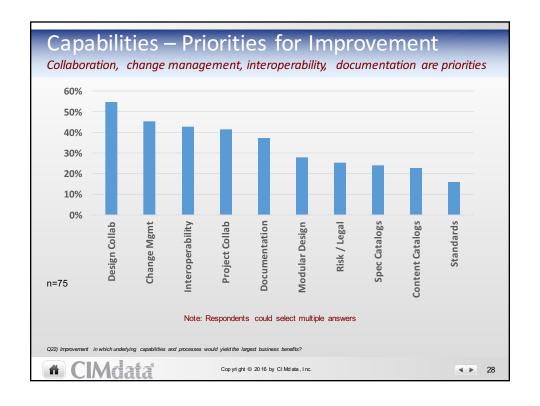




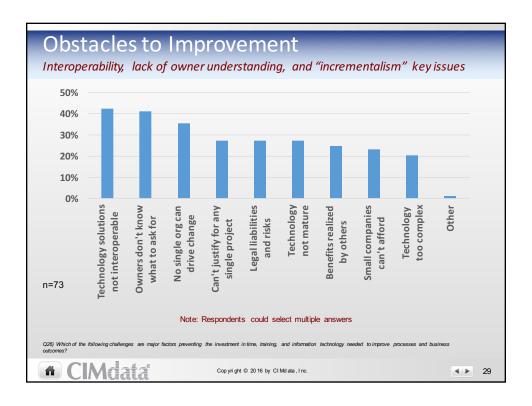


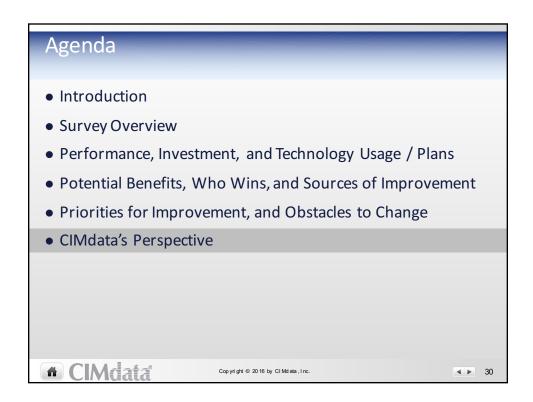




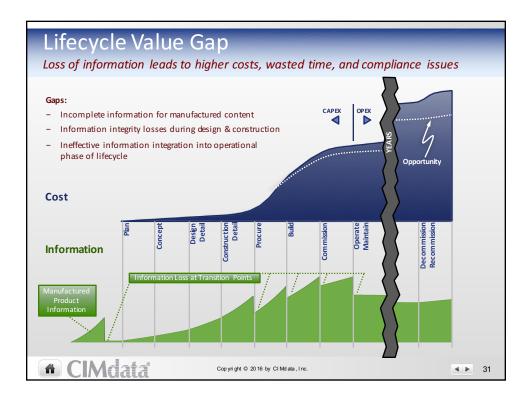


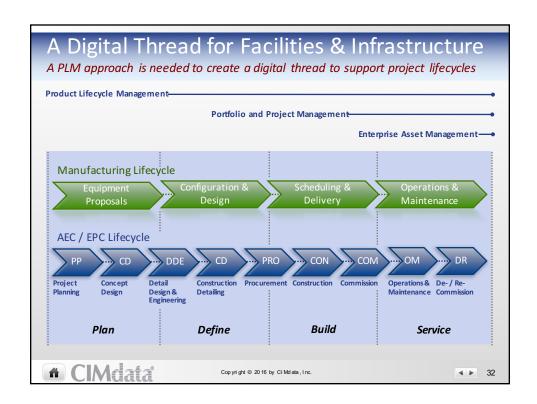














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CIMdata's Perspective on the Near Future

What the next three to five years will bring (1 of 2)

- Meaningful adoption of standards
 - Standards will mature beyond design data, to support the entire lifecycle
- Construction productivity focus
 - Construction solution providers will embrace BIM, and vice-versa
- Manufacturing technologies and processes will take hold
 - PLM, prefabrication, configuration, automation, lean, and more ...
- Wide adoption of cloud services and integration via Web APIs
 - The advantages are compelling, and we are just hitting the tipping point
- Reality capture will become common practice
 - The technology will penetrate everything from quality assurance to maintenance use cases



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CIMdata's Perspective on the Near Future What the next three to five years will bring (2 of 2) IoT moves from an acronym to an expectation Real-world benefits will be realized using data science combined with IoT Security concerns A significant incident will galvanize the industry's attention Primary applications will gain traction Primary applications will be in the areas of computational design, construction planning optimization, and predictive analytics Systems engineering will become the next hot topic Accelerating complexity will force the industry to deal with systems of systems





