





2023 PLM Market & Industry Forum—30 March 2023

Sustainability & Green Energy Practice Overview Director: Mark Reisig

Mission

• Provide leadership to companies transitioning to sustainable carbon-free products and plants

Areas of Focus

- Provide management consulting services to enable clients to reduce their product carbon footprint
- Assist clients to design more sustainable eco-friendly products
- Enable clients to embed sustainability in PLM business strategies and enabling technologies through end of life, eliminating waste, increasing recyclability, reuse, and repurposing of materials and assets
- Evaluate new technologies and provide strategic management consulting services to help companies transform to meet the demands of a "net-zero" future

CIMdata



- Over 40 years of experience in digital transformation, information technology, and engineering
- Led digital initiatives in PLM, plant design, CAD, ERP, SCM, and MDM for global businesses
- Prior to CIMdata, held executive and senior management positions at Aras, General Electric, Federation, Oracle, Auto-trol Technology, and Kraft Heinz
- Has worked with all the major PLM solution providers from both an industrial perspective responsible for large global deployments, as well as deploying those technologies from a solution provider and consulting perspective
- Industry experience includes energy, aerospace, defense, automotive, industrial, high-tech electronics, medical devices, and food & beverage



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- We are on pace to reach 2.8°C warmer than the pre-industrial period
- Corporate net-zero emission pledges are gaining momentum, but few companies understand how to reduce their carbon footprint
- Greater visibility into the supply chain is required to reduce a companies product carbon footprint (PCF)
- Embedding sustainability in PLM is fundamental to reducing PCF
- Climate change is an existential threat and offers significant business opportunities

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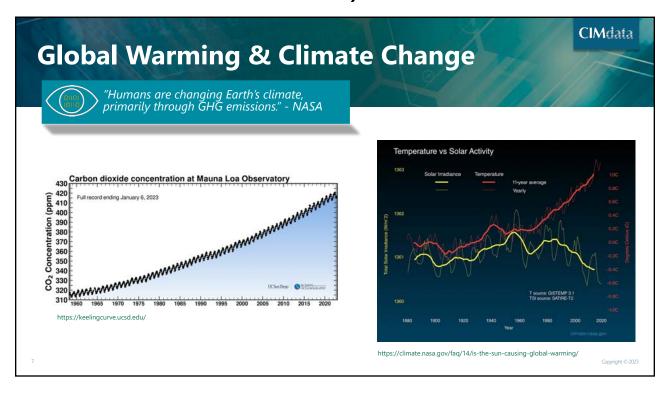
Agenda

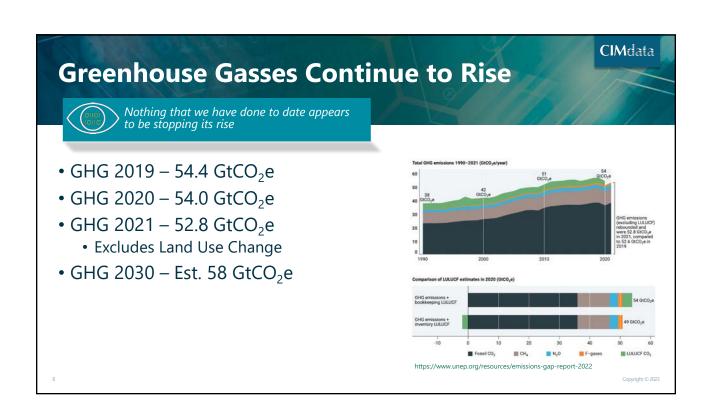
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- Earth Systems
- Sustainability & The Green Energy Transition
- The Green Energy Transition & Sustainability 2023 Survey Results
- Concluding Remarks

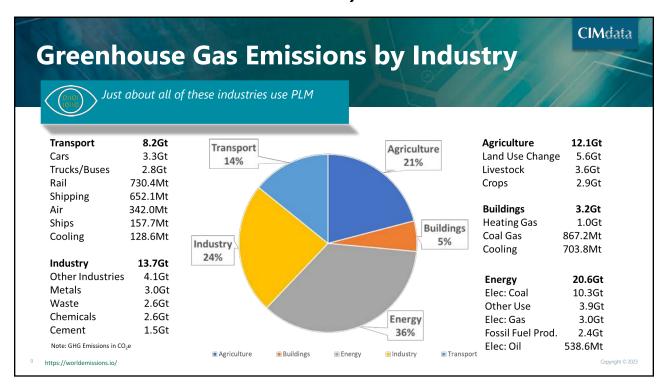
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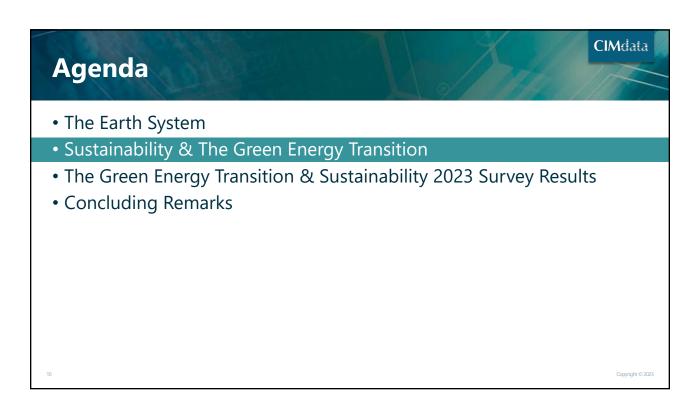










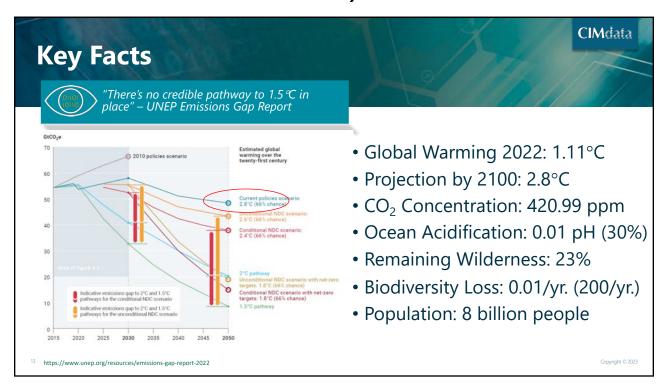






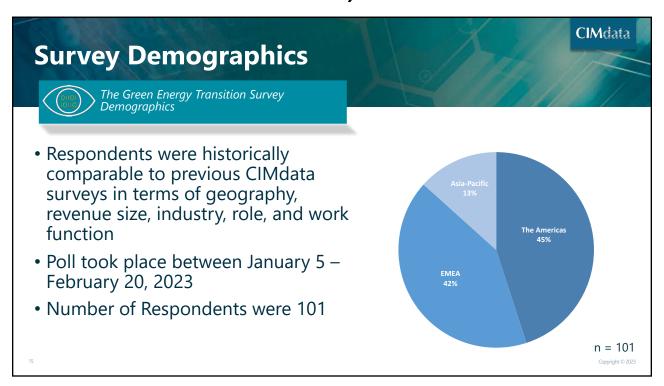


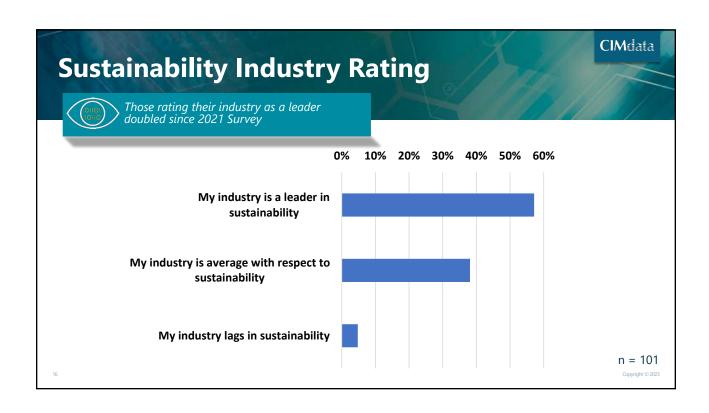




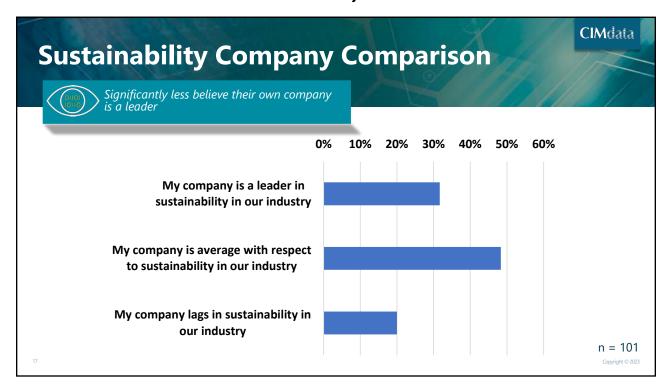






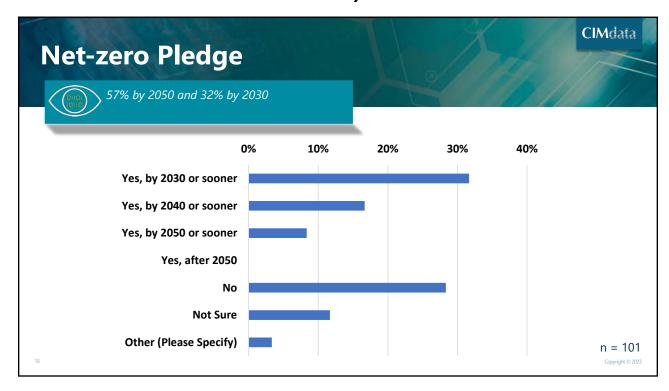


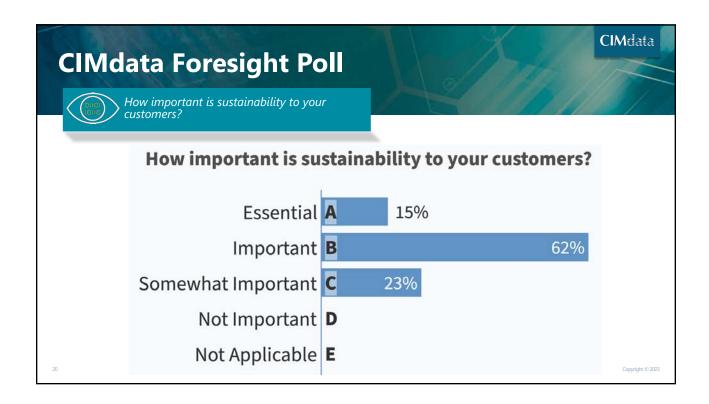




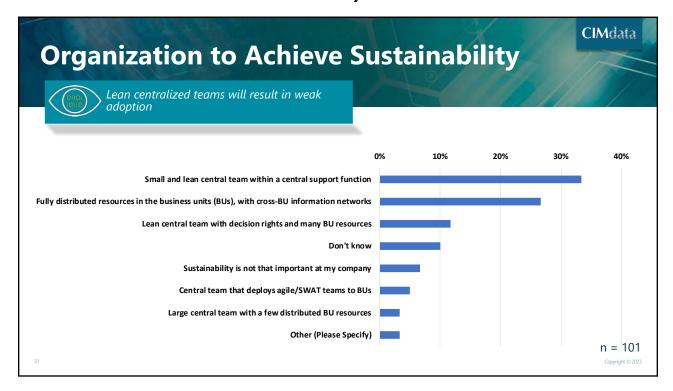








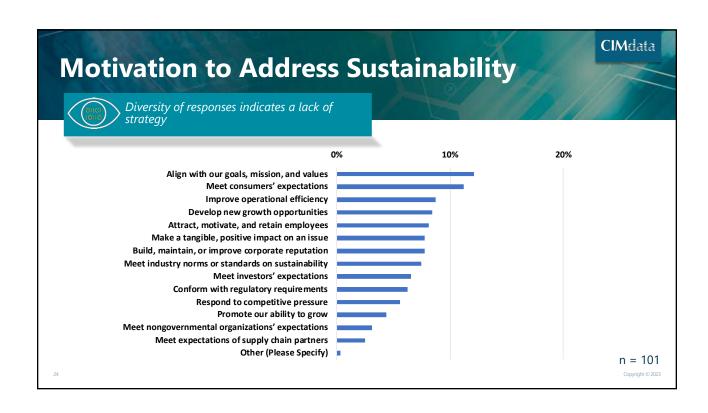




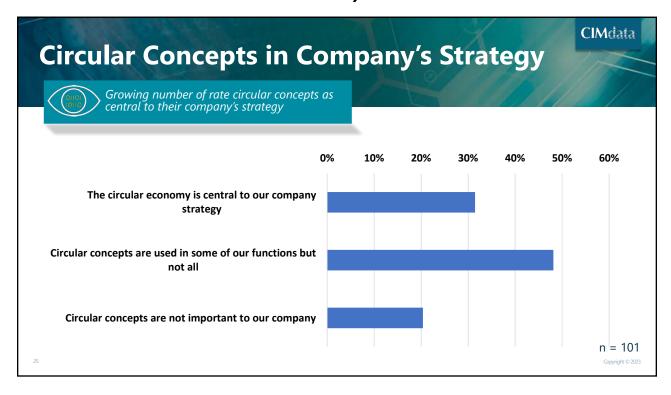


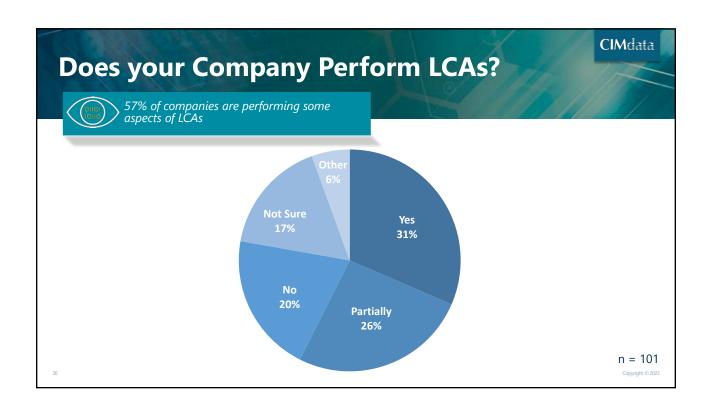




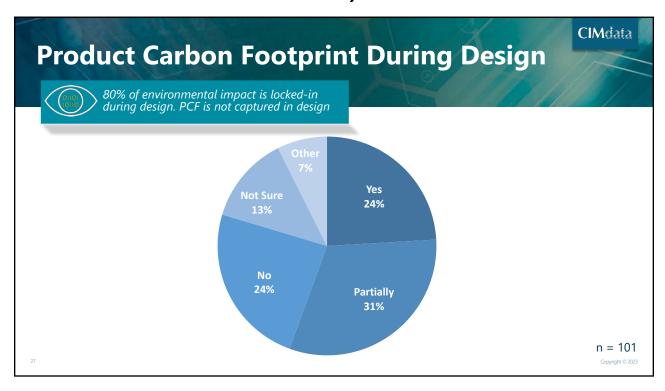


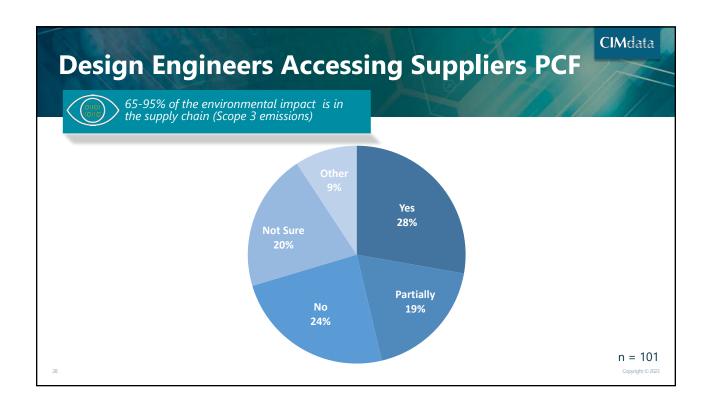




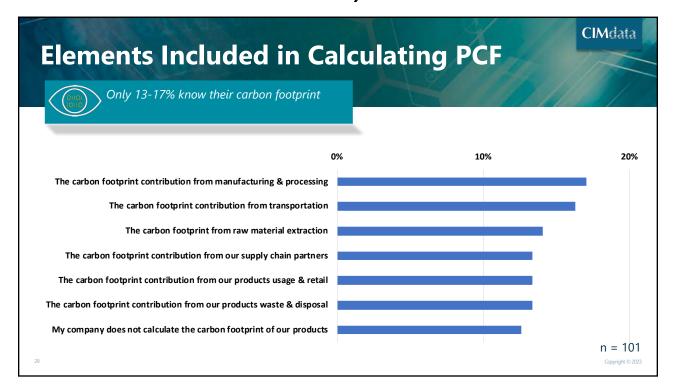


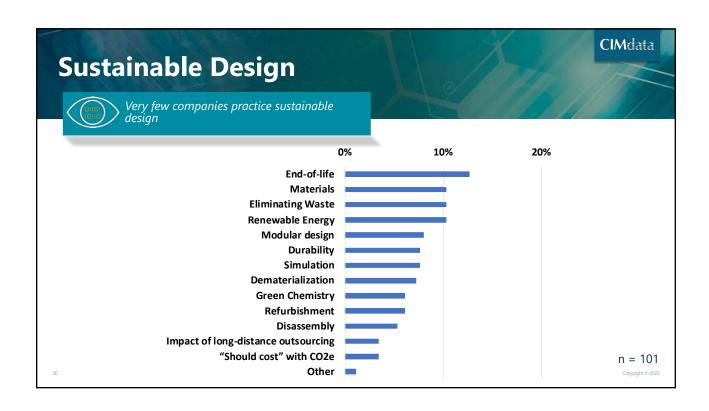






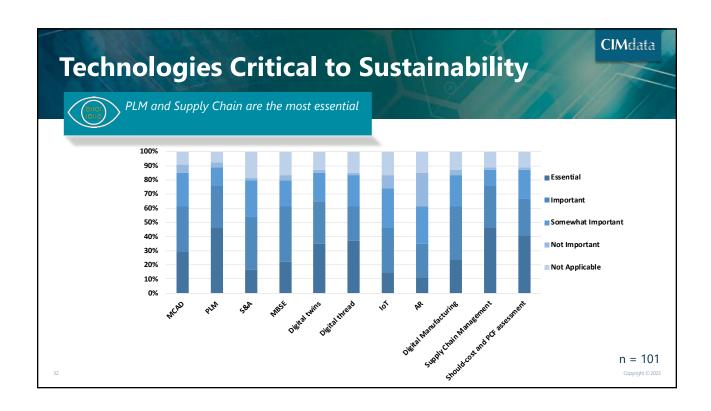




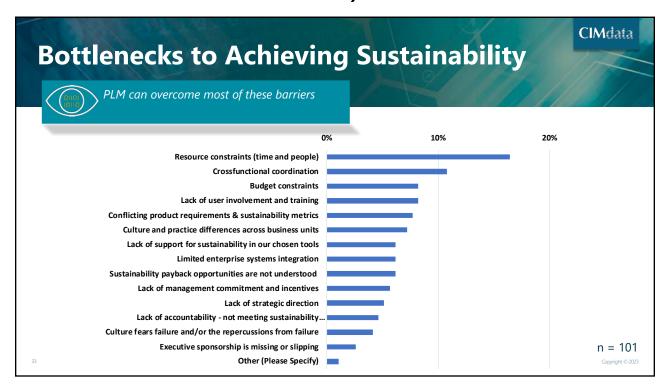
















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The Business Opportunity

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How can PLM providers best support sustainability requirements

- Organizations need sustainability embedded in PLM to reduce their PCF, engage in sustainable design and the circular economy
- Just like PLM, this is a people, process, and technology issue
- ISVs and SIs et al. can help with all three, depending on their expertise and offerings
- Demands a systemic approach and needs to be supported by a business platform with supply chain visibility, a robust digital thread, and in many cases, digital twins
- PLM and SCM must be more symbiotic

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Concluding Remarks



Climate change is an existential threat that offers significant business challenges

- All life on earth is vulnerable to global warming and climate change
- Sustainability requirements are being driven top-down in companies, but not yet ingrained in the corporate culture
- Industrial organizations have a gap between their ambition and actions required to meet their goals
- Advanced capabilities in PLM, supply chain, reducing PCF, and digital twin are seen as essential
- PLM is central to sustainability; industrials, ISVs, and SI/Reseller/VARs need to succeed together

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To Learn More...

CIMdata

- Mark Reisig, Executive Consultant, and Sustainability & Green Energy Practice Director
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- CIMdata has several useful resources on this topic:
 - Sustainability and Green Energy Consulting Practice on this topic
 - Webinar: The Green Energy Transition and Sustainability January 23, 2023
 - Webinar: <u>Webinar: Meeting Sustainability and Green Energy Transition Objectives: The industrial Perspective</u>, April 27, 2023, 11:00 AM EDT
 - Article: <u>Accelerating the Transition to Green Energy with Product Lifecycle Management (www.powermag.com)</u>
 - Article: <u>Climate Change is Transforming PLM Strategies</u> March 10, 2023, (https://industrytoday.com/)

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