



Sustainability 101: Trends, drivers, and why it's important

2017 Engineering and Construction Conference

Agenda

Module / Topic

What is sustainability?

The current landscape and business context

What does sustainability mean to E&C?

Deep dive on select sustainability topics

Q&A

Moderator and Panelists

Moderator: Mark Cohen, Managing Director – Deloitte

Panelists: Chris Drew, Director of Sustainability – Adrian Smith + Gordon Gill

Kate Wieczorek, Superintendent – Structure Tone

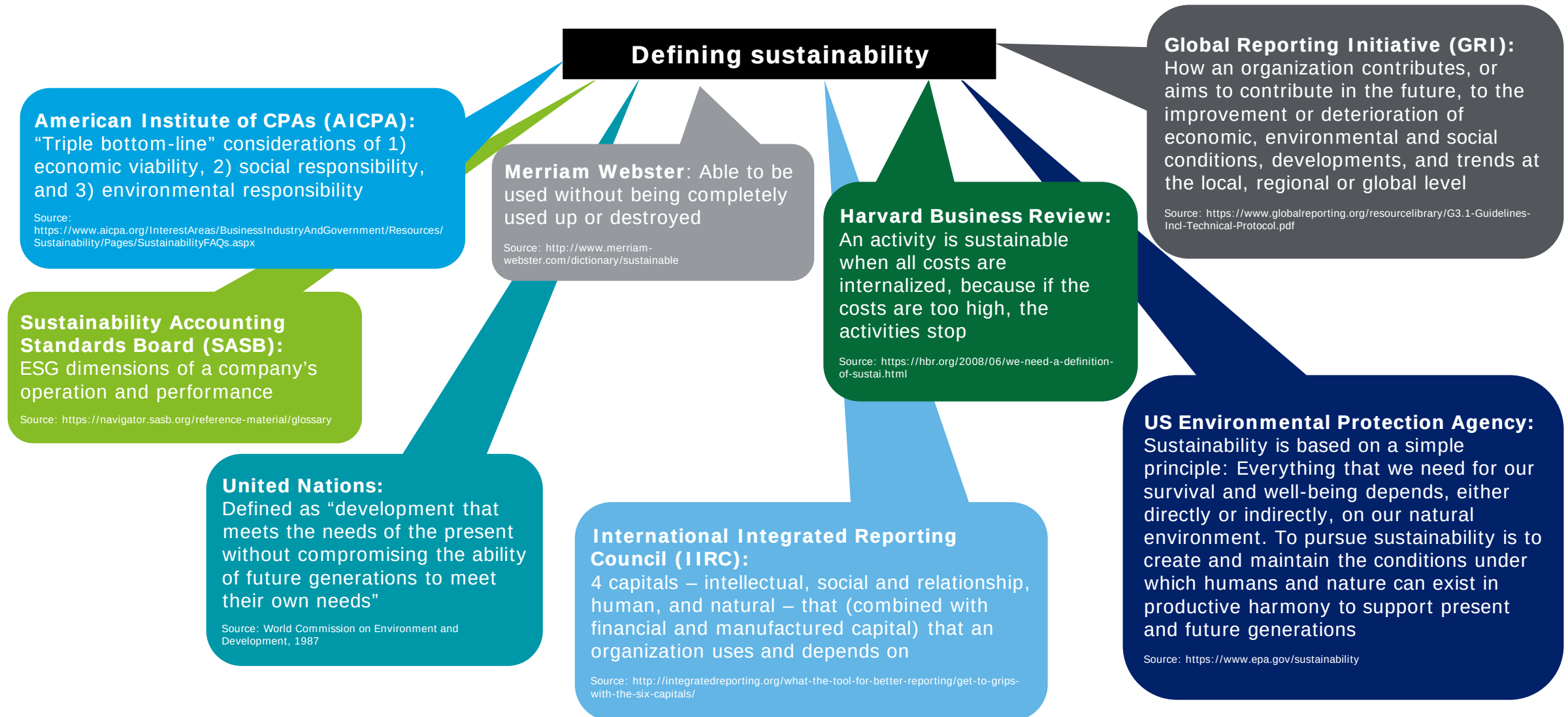
Jamie Varkey, Specialist Leader – Deloitte

Jenny Lynch, Senior Manager – Deloitte

What is sustainability?

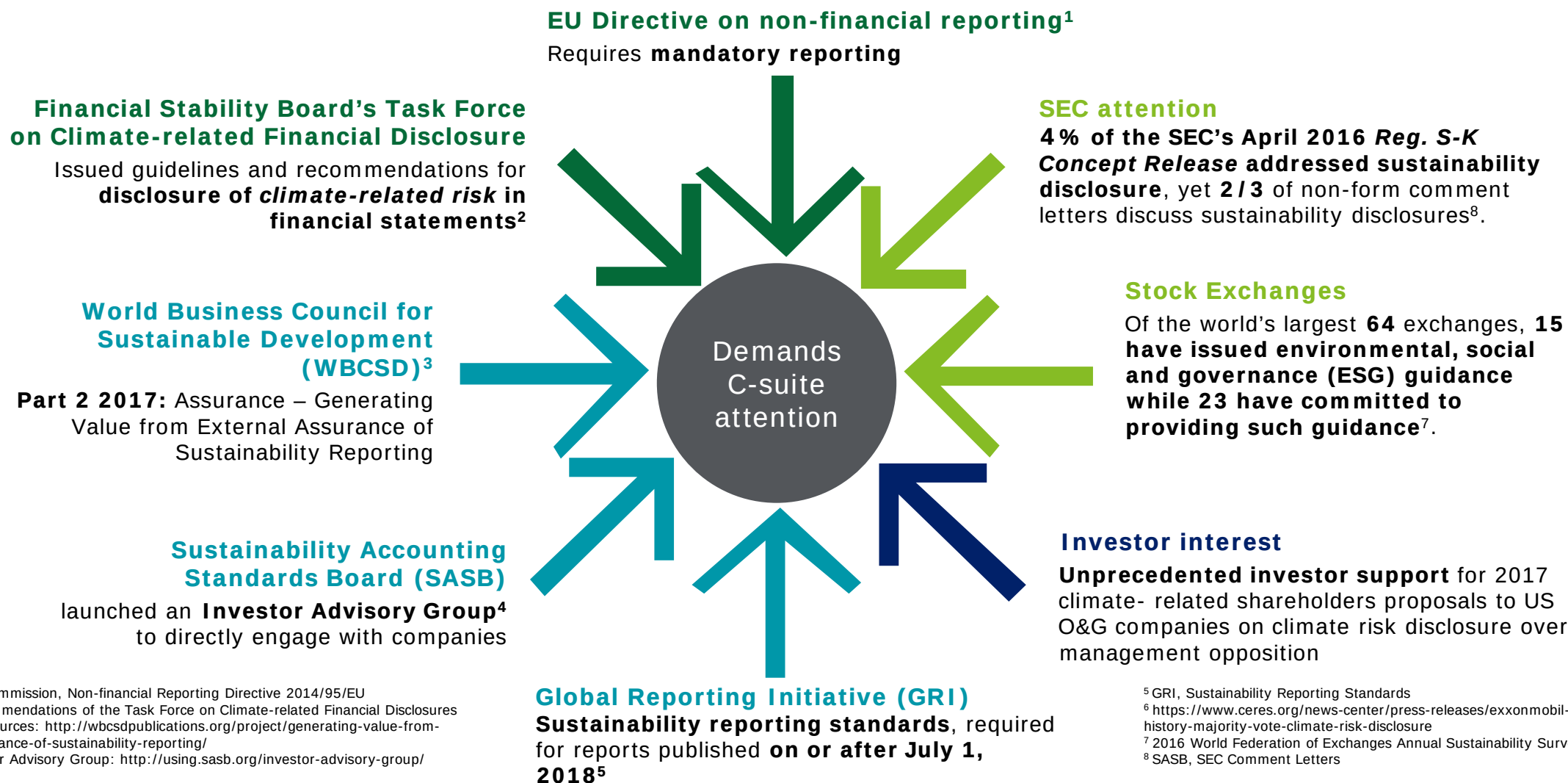


The many definitions of sustainability



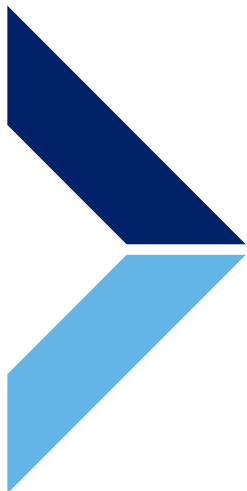
The current landscape and business context

The current sustainability landscape – think tank updates



The business context

Financial and non-financial reporting is evolving



In a Deloitte Touche Tohmatsu Limited (DTTL) CFO survey*, 60% of CFOs at large global enterprises indicated that sustainability challenges will change financial reporting and the associated auditing activities.

*DTTL global survey of 208 CFOs, 2011, see: http://www.deloitte.com/view/en_GX/global/4ca8b6140c0d2310VgnVCM1000001a56f00aRCRD.htm



The lens through which material issues are identified is expanding from strictly financial to other sustainability issues affecting human, social, natural, intellectual, and manufactured capitals.



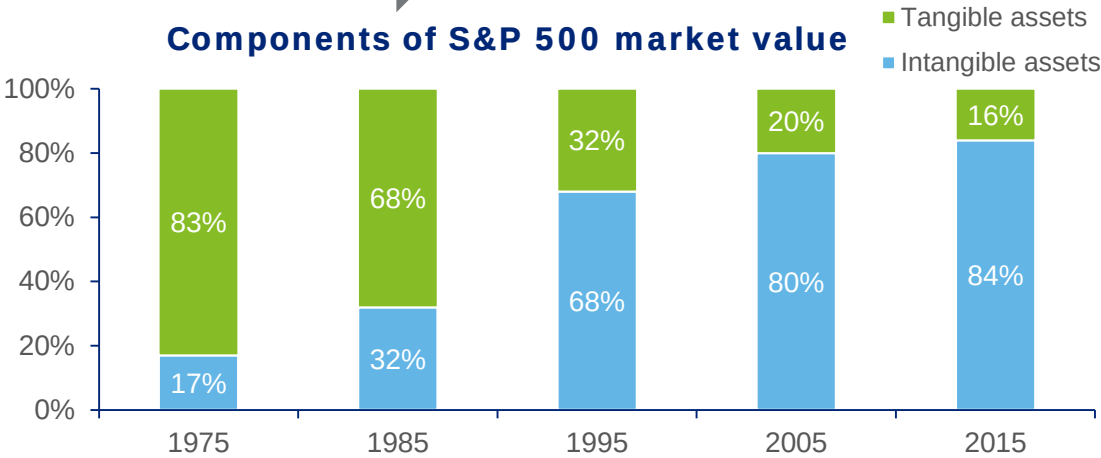
Applying the principle of materiality, drawn from financial accounting practices, is an essential filter for disclosing ESG information that is useful to the economic decisions of an interested user.



The financial and nonfinancial reporting landscape is rapidly evolving

Tangible assets reflect steadily diminishing components of shareholder value

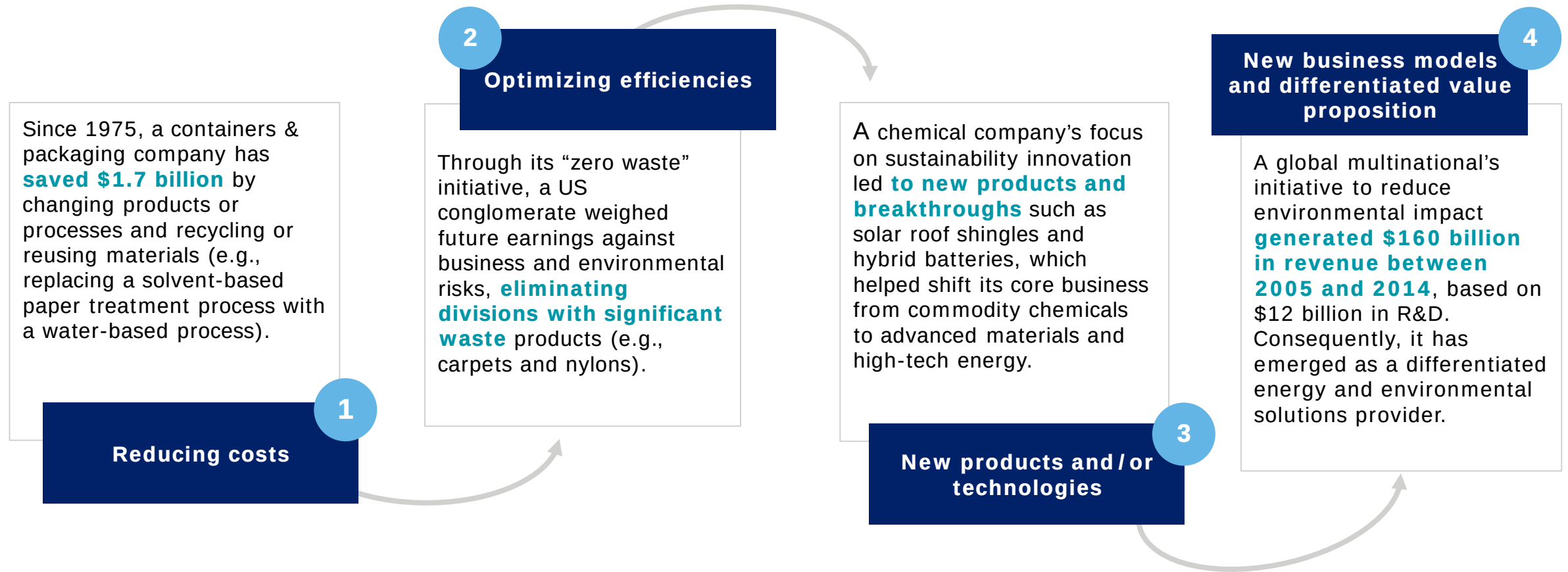
Intangible assets represent an important driver of business value but are not captured effectively in traditional financial measures



Source: Ocean Tomo, "Ocean Tomo's Intangible Asset Market Value Study," 2015

The business context

Sustainability for performance management: four stages of value creation



E&C and sustainability

What does sustainability mean to E&C?

Many of the fundamental factors that influence a company's performance and profitability today — energy prices and availability, supply chain reach and resilience, regulation, and public sentiment, among many others — are changing quickly and dramatically.

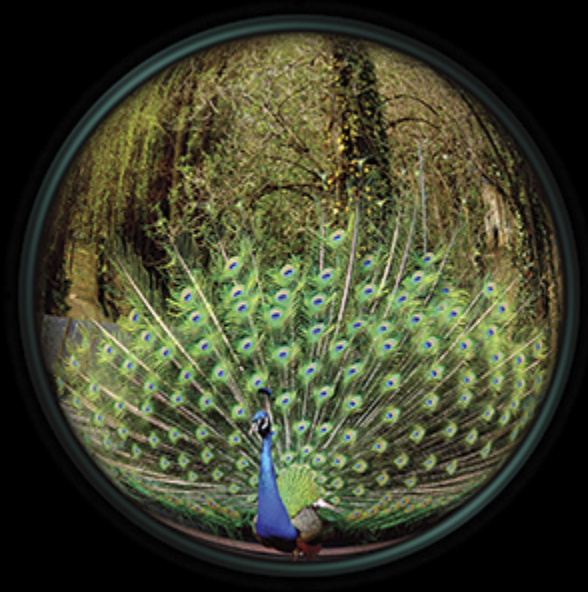
No business or organization is immune to these systemic challenges and societal responses. This means it is critical to plot adaptive strategies for operating effectively and communicating transparently.



Example: Application of sustainability during the life-cycle of a project

Pre-design	On-site	Design	Construction	O&M
• Material selection • Building program • Project budget • Team selection • Partnering • Project schedule • Laws, codes & standards • Research • Site selection	• Site analysis & assessment • Site development & layout • Watershed management & conservation • Site material & equipment	• Passive solar design • Materials & specification • Indoor air quality	• Environmentally conscious construction • Preservation of features & vegetation • Waste management • IAQ issues • Source control • Responsible practices	• Maintenance plans • Indoor quality • Energy efficiency • Resource efficiency • Renovation • Housekeeping & custodial practices

Deep dive on select topics:
Environmental impacts



Ecosystems and biodiversity



Materials lifecycle & waste

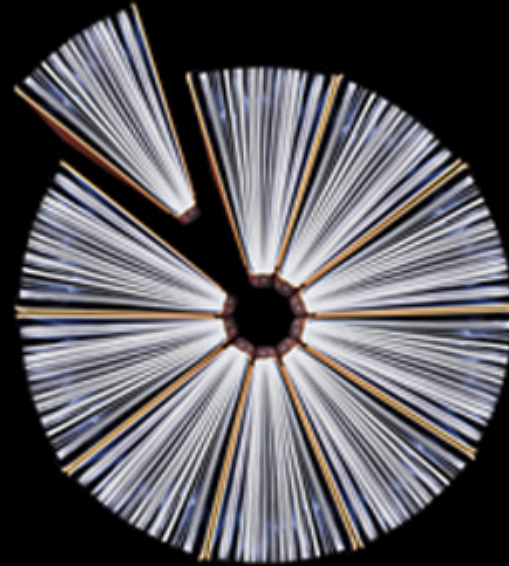


Remediation activities

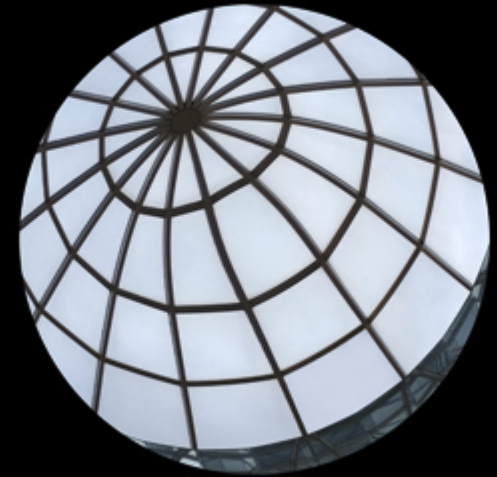
Deep dive on select topics:
Community and customer welfare



Local community engagement



STEM & trade education



Structural integrity / safety

Deep dive on select topics:
Workforce – human capital



Health & well-being



Attracting talent



Employee engagement

Q&A

Closing thoughts

Business and society are facing an array of urgent and critical social, environmental, ethical, and economic challenges. In fact, six of the 10 global risks of highest concern (in terms of impact) identified in 2017 by the World Economic Forum¹ are environmental and societal issues.

Because of this, broad societal responses are playing out in the realms of policy, technology, and the marketplace, including a significant growth in the number of CSR indices launched by financial institutions.



¹ World Economic Forum, The Global Risks Report 2017



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