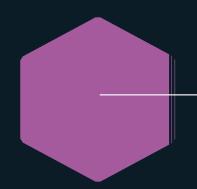
## Leading material DECARBONIZATION

The chemical industry has a "trifecta" opportunity to lower scope 1 and 2 emissions, as well as downstream end-market scope 3 emissions. A properly designed and optimally deployed core business strategy, with sustainability as a critical component, may represent one of the biggest-ever opportunities for chemical and materials companies. This strategy can help the industry decide where to play and how to win in lowering emissions and creating new sources of value.

Read the full report at www.deloitte.com/us/Loweringchemicalemissions

## WHY IS THIS IMPORTANT?



96% OF ALL MANUFACTURED GOODS

> are directly touched by chemistry

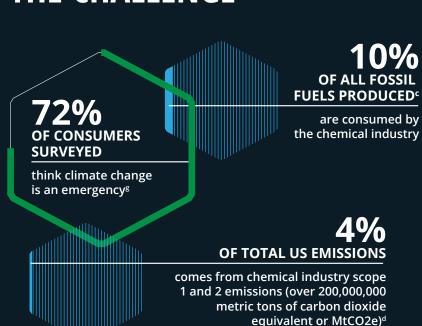
(e.g., chemicals make up <96% of the weight of a new vehicle but 50% of its volume)

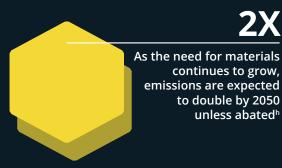
OF UNITED NATIONS'
SUSTAINABLE
DEVELOPMENT GOALS

are attained by contributing factors from chemical products and R&D



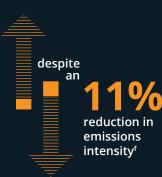
## THE CHALLENGE



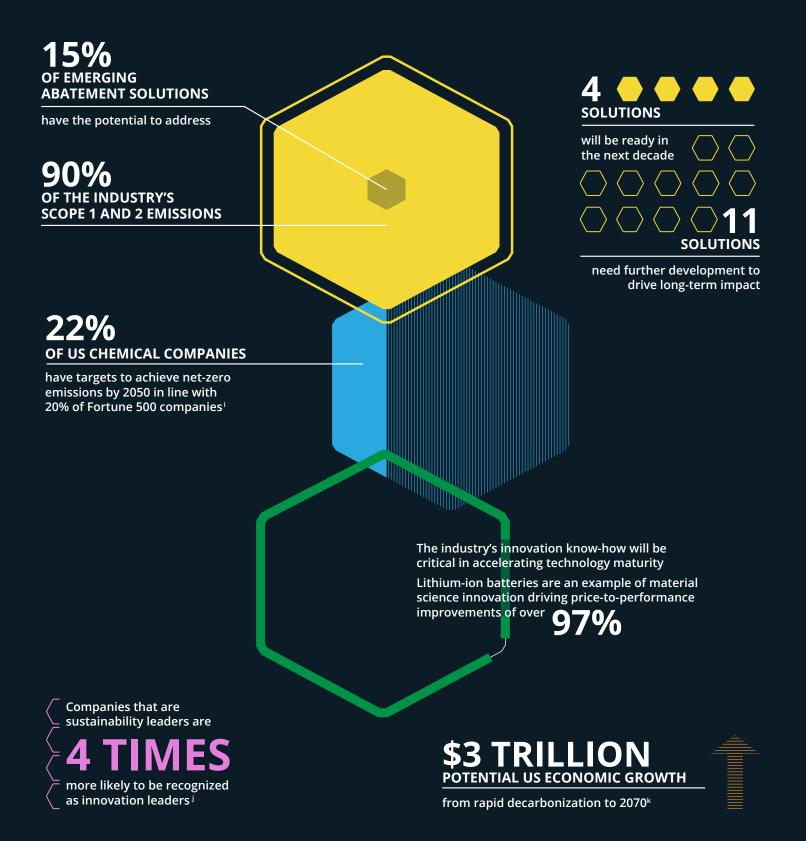




8.9%



## THE OPPORTUNITY



Sources: <sup>a</sup> American Chemistry Council (ACC), *Guide to the Business of Chemistry*, 2021; <sup>b</sup> Deloitte analysis based on United National Sustainable Development Goals; <sup>c</sup> Jeffrey Rissman et al., "Technologies and policies to decarbonize global industry: Review and assessment of mitigation drivers through 2070," *Applied Energy 266* (2020); <sup>d</sup> Deloitte analysis based on data from the Environmental Protection Agency; <sup>e</sup> Deloitte, "Global State of the Consumer Tracker", accessed May 4, 2022; <sup>f</sup> ACC, *Guide to the Business of Chemistry*; <sup>g</sup> Deloitte, "Global State of the Consumer Tracker"; <sup>h</sup> Deloitte analysis based on data from the Environmental Protection Agency; <sup>i</sup> Deloitte analysis based on company announcements data from Science Based Targets, accessed May 24, 2022; <sup>j</sup> Deloitte, *The turning point*, May 2022; <sup>k</sup> Rhonda Evans and Tony Seisfeld, *Measuring the business value of corporate social impact: Beyond social value to enterprise performance*, Deloitte Insights, July 31, 2020.