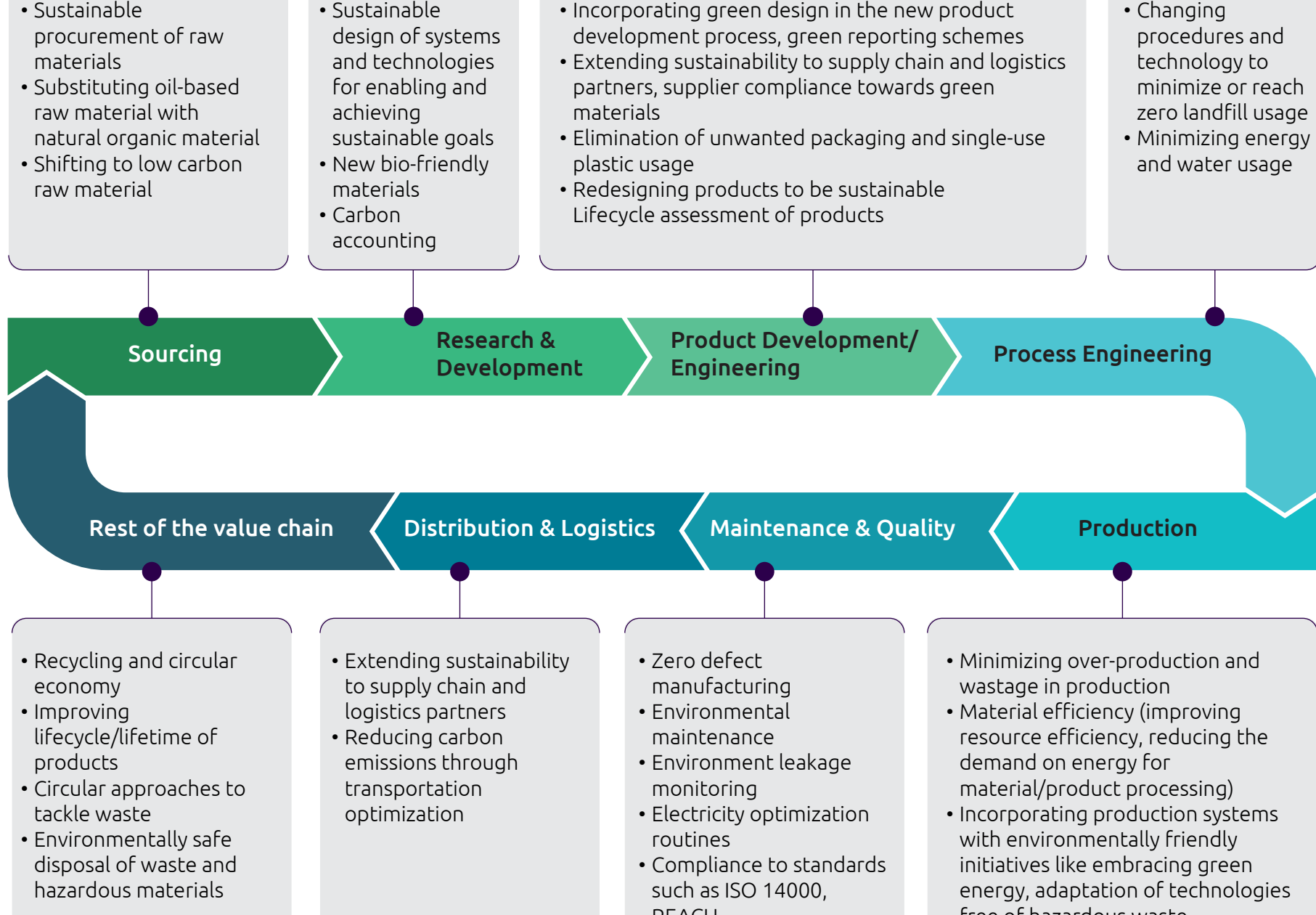


SUSTAINABLE OPERATIONS

A comprehensive guide for manufacturers

Why should organizations invest in sustainable manufacturing

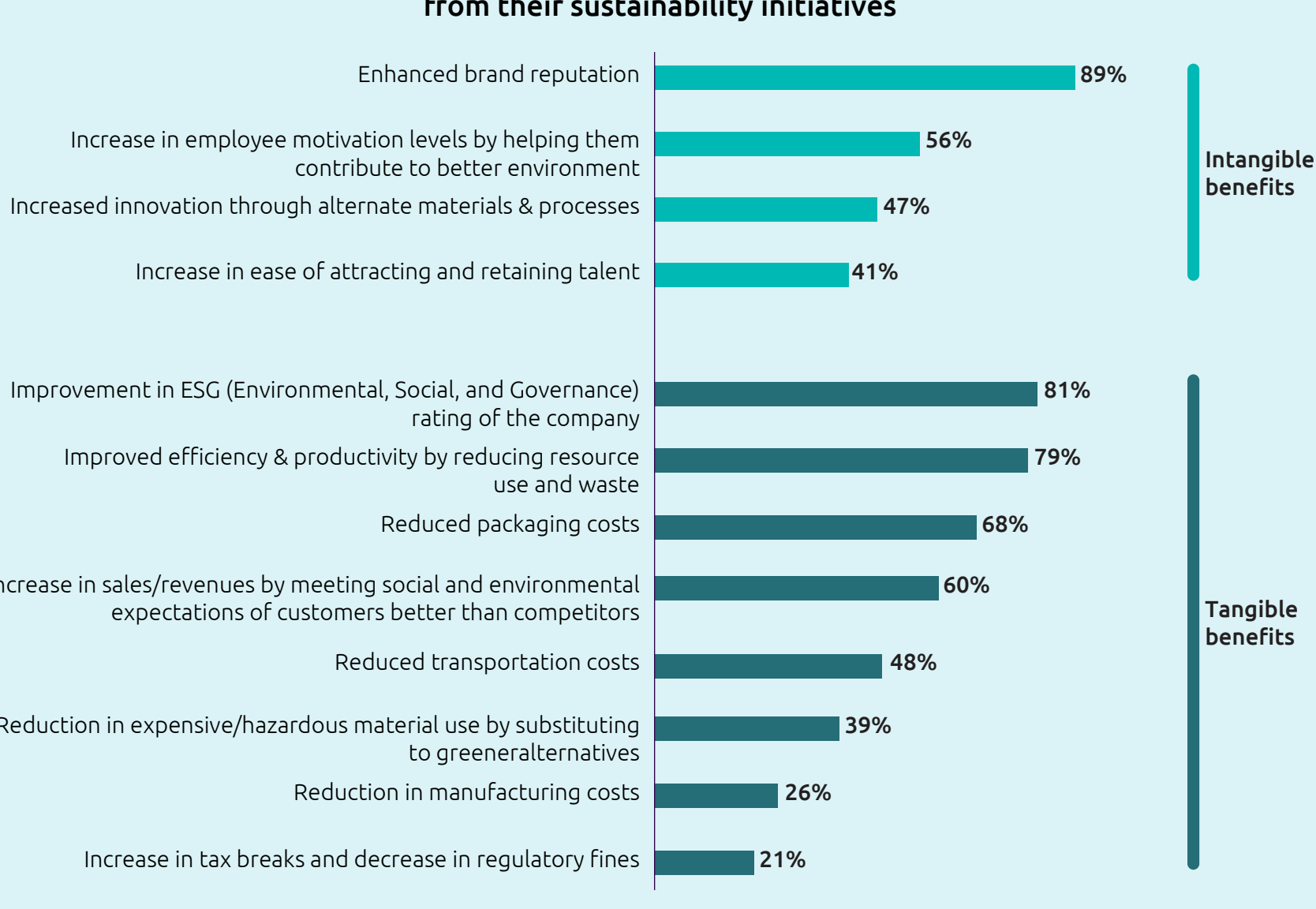
Sustainable manufacturing practices encompass the entire manufacturing value chain



In the above figure, "Rest of the value chain" covers product usage, disposal and circular economy components. Source: Capgemini Research Institute analysis.

Manufacturers see significant benefits from sustainability initiatives – tangible as well as intangible

Proportion of organizations that experienced the below business benefits from their sustainability initiatives

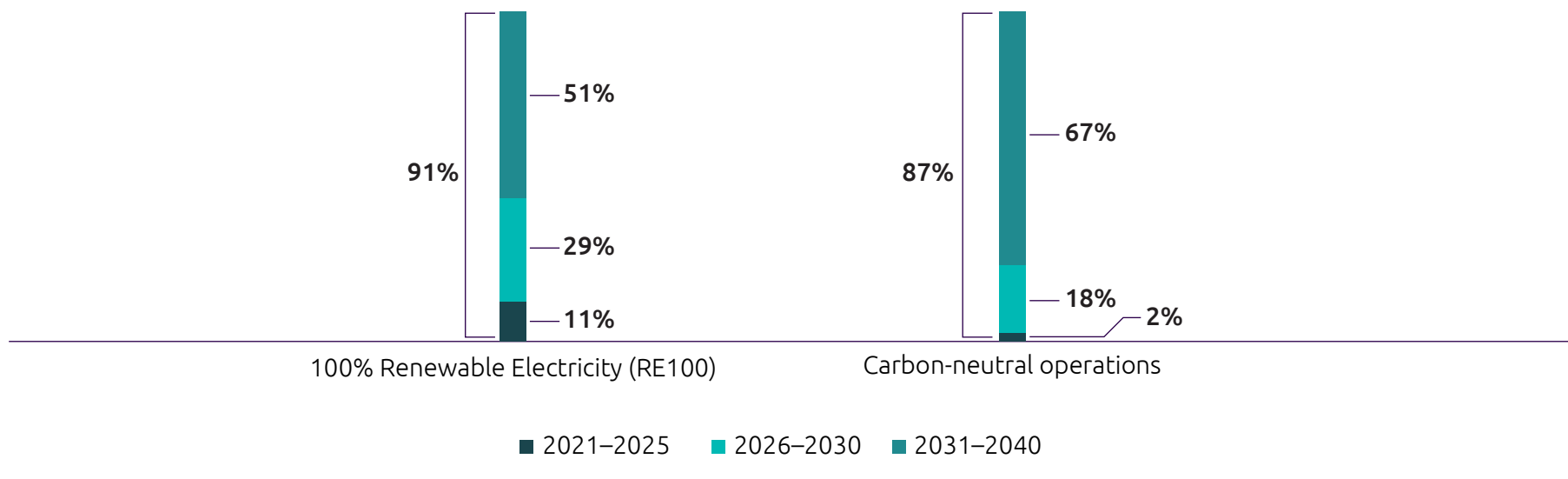


Source: Capgemini Research Institute, Sustainability in Manufacturing Operations, Business executives survey, February–March 2021, N=480 business executives.

Manufacturers have set ambitious targets for the next decade

Significant majority aim to have 100% Renewable Electricity and to be Carbon-neutral in their operations by end of next decade

In which year do you aim to achieve, or have achieved this goal?



Source: Capgemini Research Institute, Sustainability in Manufacturing Operations, Sustainability executives survey, February–March 2021, N=480 sustainability executives.

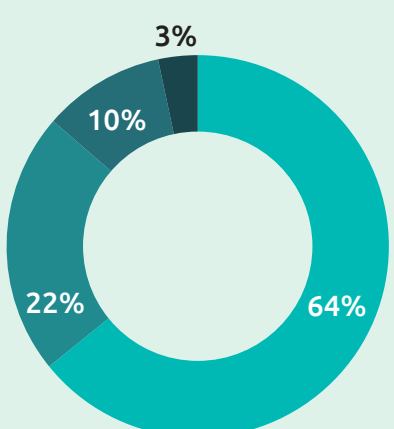
By 2040, all organizations aim to reduce **55%** of plastic usage

94% of organizations, on average, expect to achieve zero waste for **68%** of their operations by 2040

However, the maturity of the sustainability initiatives is not at pace with the ambitions

51% of manufacturers aim to align with temperature objective of Paris Agreement

Only one in ten are holistically approaching sustainable manufacturing



Foremost priority of manufacturing operations

Source: Capgemini Research Institute, Sustainability in Manufacturing Operations, Sustainability executives survey, Business executives survey, February–March 2021, N=480 organizations.

Only **11%** of the sustainability initiatives are actively being scaled across the organization.

Organizations are not prioritizing all parts of the value chain: while product development and engineering is most prioritized, only a minority are focusing on sourcing or logistics

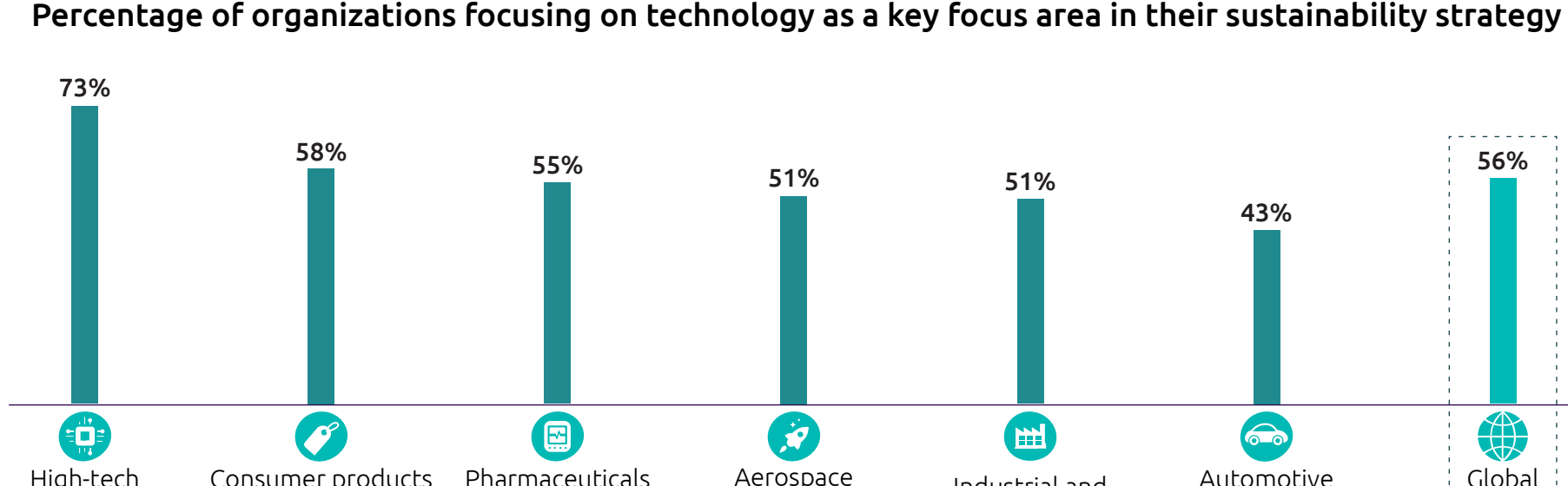
Only **1 in 5** of organizations agree that sustainability is fully integrated into their manufacturing strategy

Less than **1 in 3** organizations are internally aligned on the importance of sustainability across different parts of the organization

Technology is playing a key role in sustainability initiatives

More than half agree that technology is a key part of their strategy

Percentage of organizations focusing on technology as a key focus area in their sustainability strategy



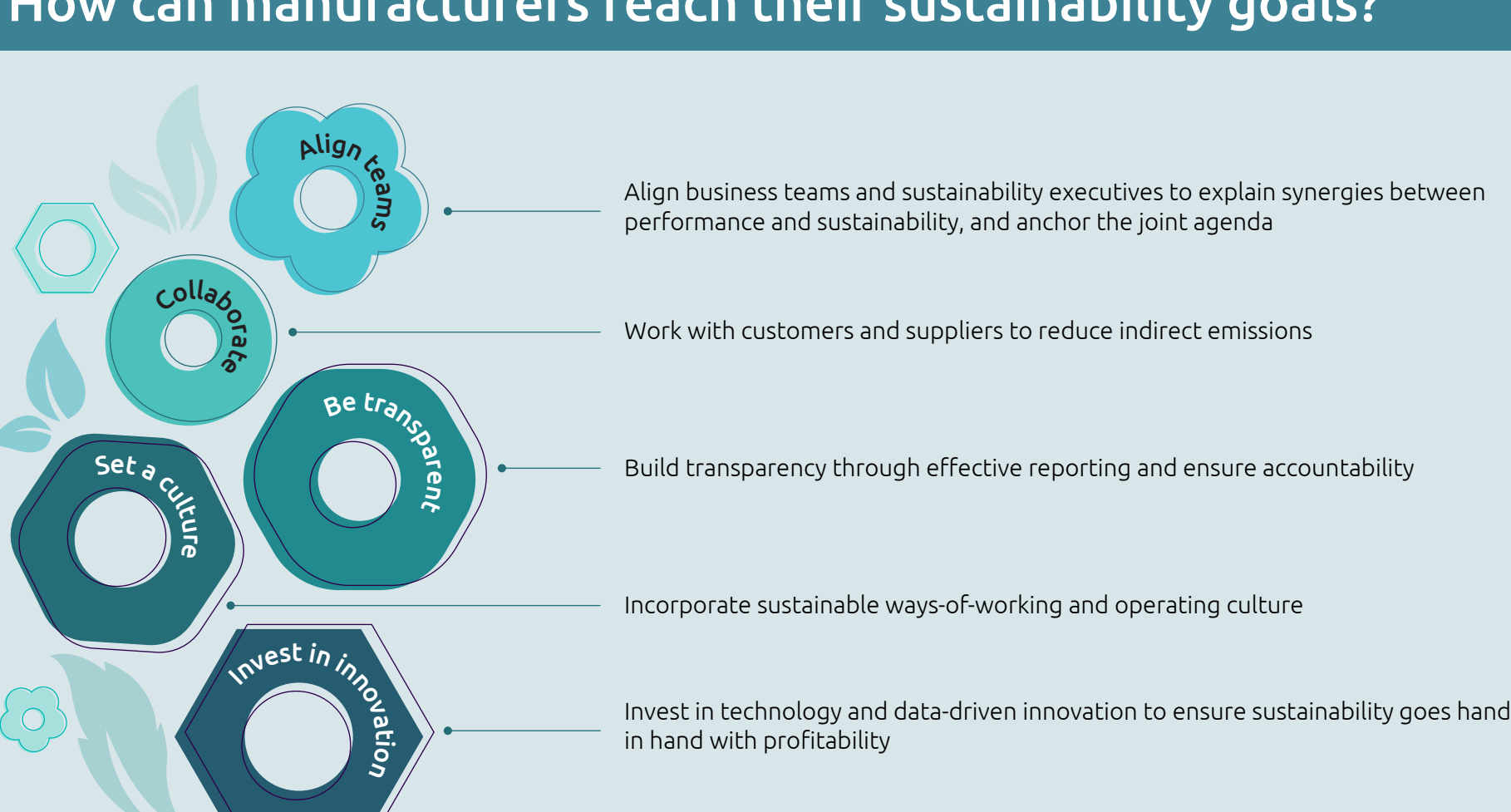
Source: Capgemini Research Institute, Sustainability in Manufacturing Operations, Business executives survey, February–March 2021, N=480 business executives.

Widely adopted technologies for sustainability:

Automation (**73%**)

Artificial Intelligence/Machine learning (**68%**)

How can manufacturers reach their sustainability goals?



Source: Capgemini Research Institute analysis.

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