

Digital Engineering

The new growth engine for discrete manufacturers



Transforming product innovation and engineering – why it matters Legacy approaches to product innovation and development

are not delivering an innovation return

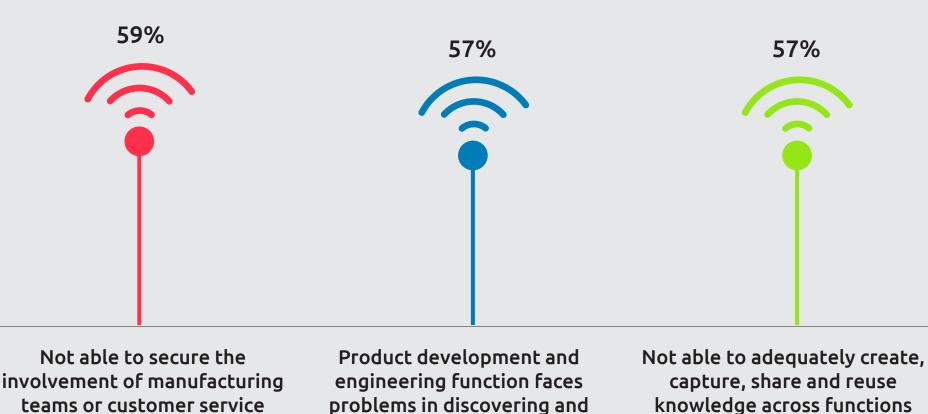


In 2017, manufacturing industry was responsible for 58% of global R&D spend. Only 19% of discrete manufacturers feature in Forbes's list of the most innovative companies

Key challenges in maintaining digital continuity

Digital continuity is sub-optimal

59%



early in the product development process **Source:** Capgemini Research Institute, Digital Engineering Survey, April–May 2018 (N = 1013).

Stop selling products and shift to

Advanced stages of transforming

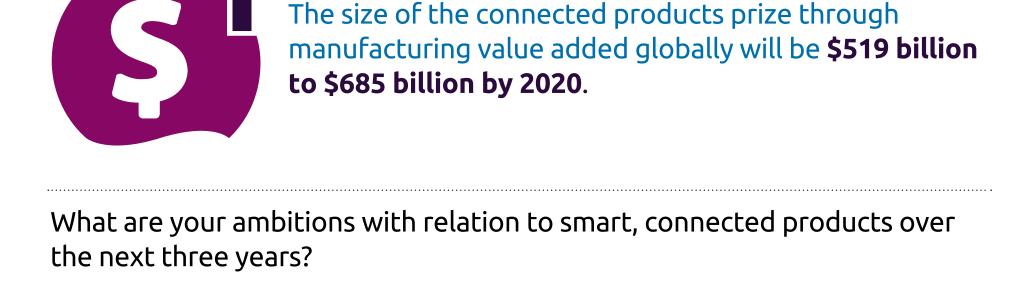
a service-based business

stakeholders

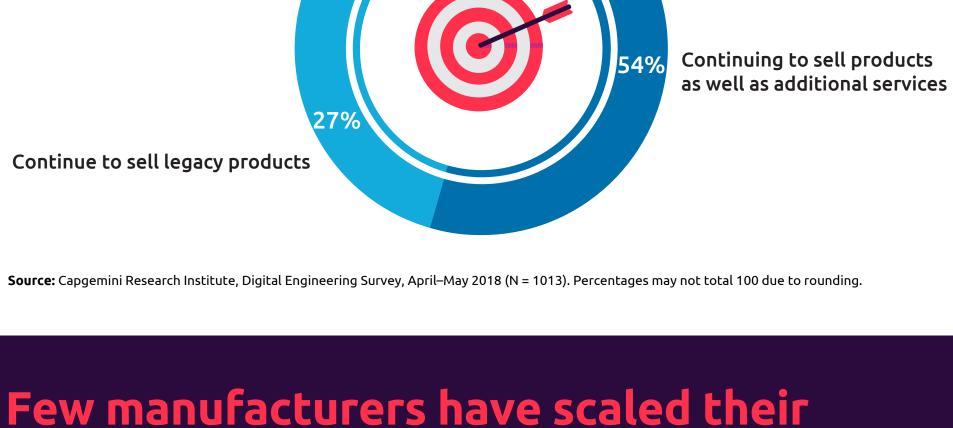
collecting the needs of all

Capitalizing on the servitization opportunity require enhanced

capabilities



18%



transformation efforts

Only 21% of manufacturers are at an advanced stage of

transforming product innovation and engineering with close to a third still running pilots

21%

31% Running small scale pilots Initial stages of transforming **Source:** Capgemini Research Institute, Digital Engineering Survey, April–May 2018 (N = 1013).

Multiple challenges slow down manufacturers



Most mature are

'The Front-Runners' –

17%

Use of digital

technologies in



Not able to leverage

product data and

partner ecosystem to

drive product



Talent shortage in

non-physical skills

continues to be an

acute issue



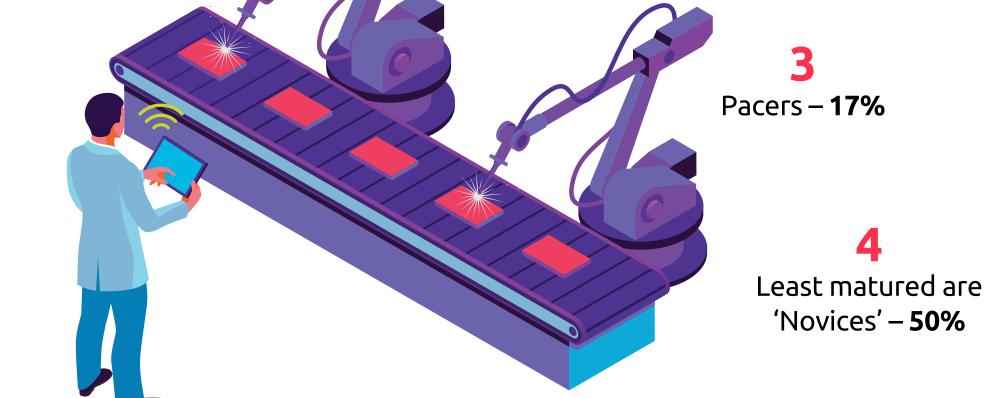
Building a roadmap for

transformation

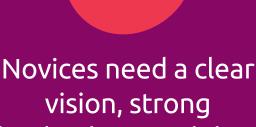
16%

The transformation roadmap will vary depending on the maturity of individual organizations. We found that manufacturers fell broadly into four camps:

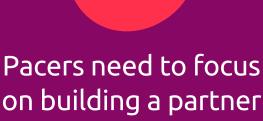
Challengers - 16%



Source: Capgemini Research Institute, Digital Engineering Survey, April–May 2018 (N = 1013).



leadership capability, and a focus on bridging gaps in both technology and talent



on building a partner ecosystem and a digital culture



develop talent and build on data competencies