

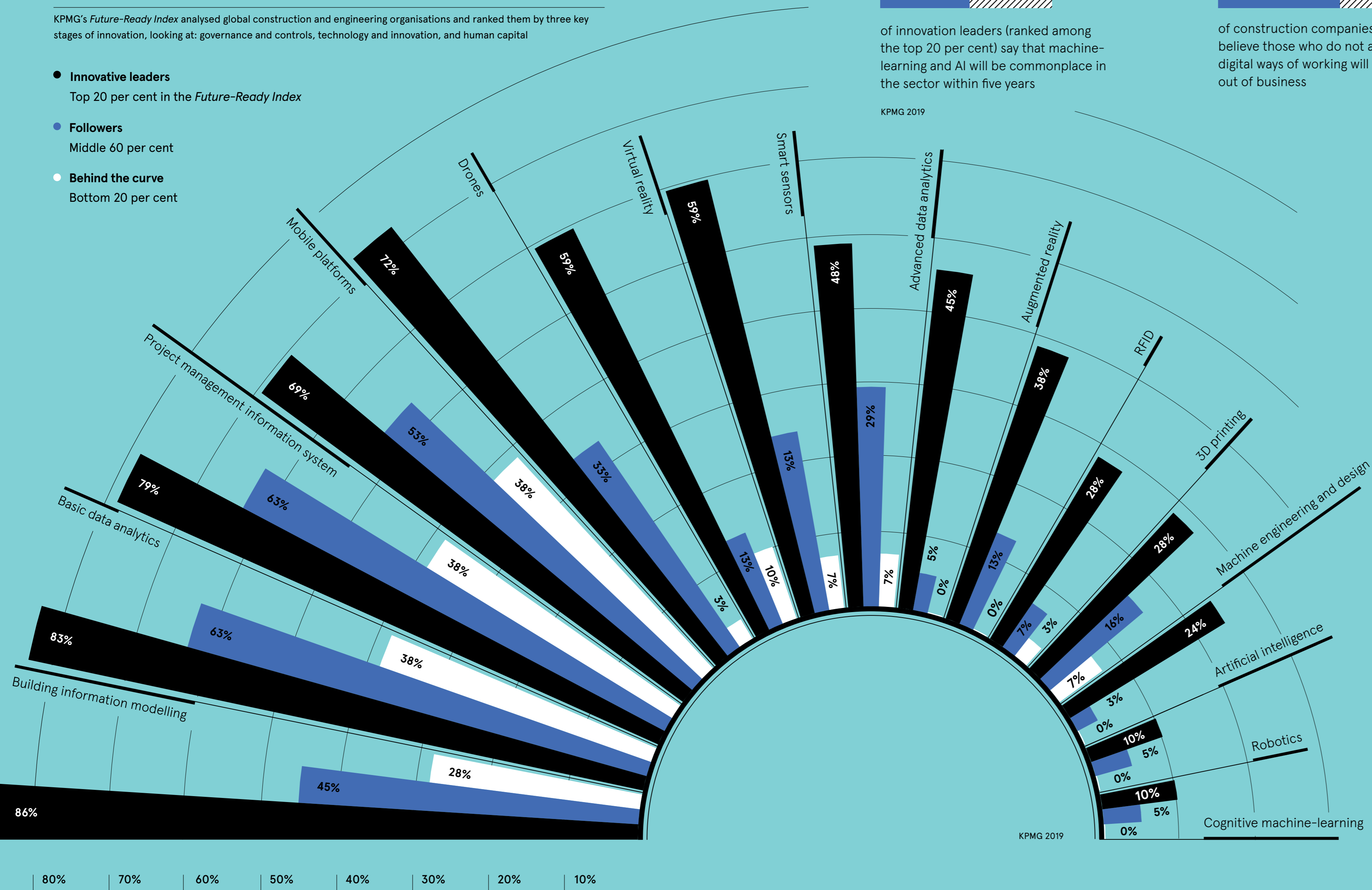
# CONSTRUCTION DISRUPTION

While building information modelling and data analytics are widespread among the most innovative construction companies, a host of emerging technologies are starting to have an impact on the sector, and it is the early adopters who are racing ahead of the competition

## TECHNOLOGY ADOPTION BY INNOVATION STAGE

KPMG's *Future-Ready Index* analysed global construction and engineering organisations and ranked them by three key stages of innovation, looking at: governance and controls, technology and innovation, and human capital

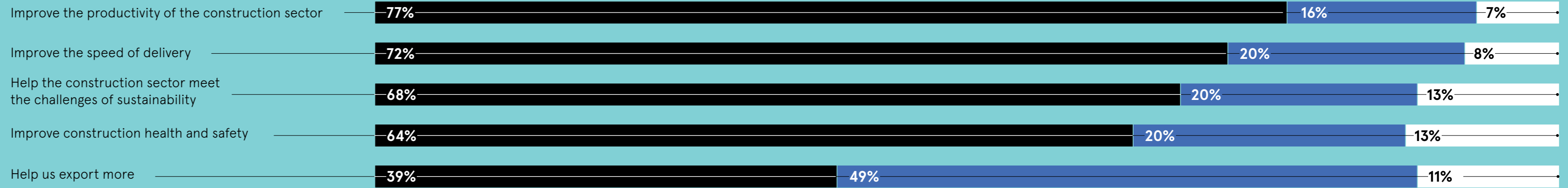
- Innovative leaders**  
Top 20 per cent in the *Future-Ready Index*
- Followers**  
Middle 60 per cent
- Behind the curve**  
Bottom 20 per cent



## IMPACT OF DIGITISATION ON THE CONSTRUCTION SECTOR

Where construction companies agree or disagree with the following statements about digitisation

- Agree
- Neutral
- Disagree



**52%**

of innovation leaders (ranked among the top 20 per cent) say that machine-learning and AI will be commonplace in the sector within five years

KPMG 2019

**70%**

of construction companies believe those who do not adopt digital ways of working will go out of business

**62%**

believe the sector is behind others when it comes to adopting digital technologies

**89%**

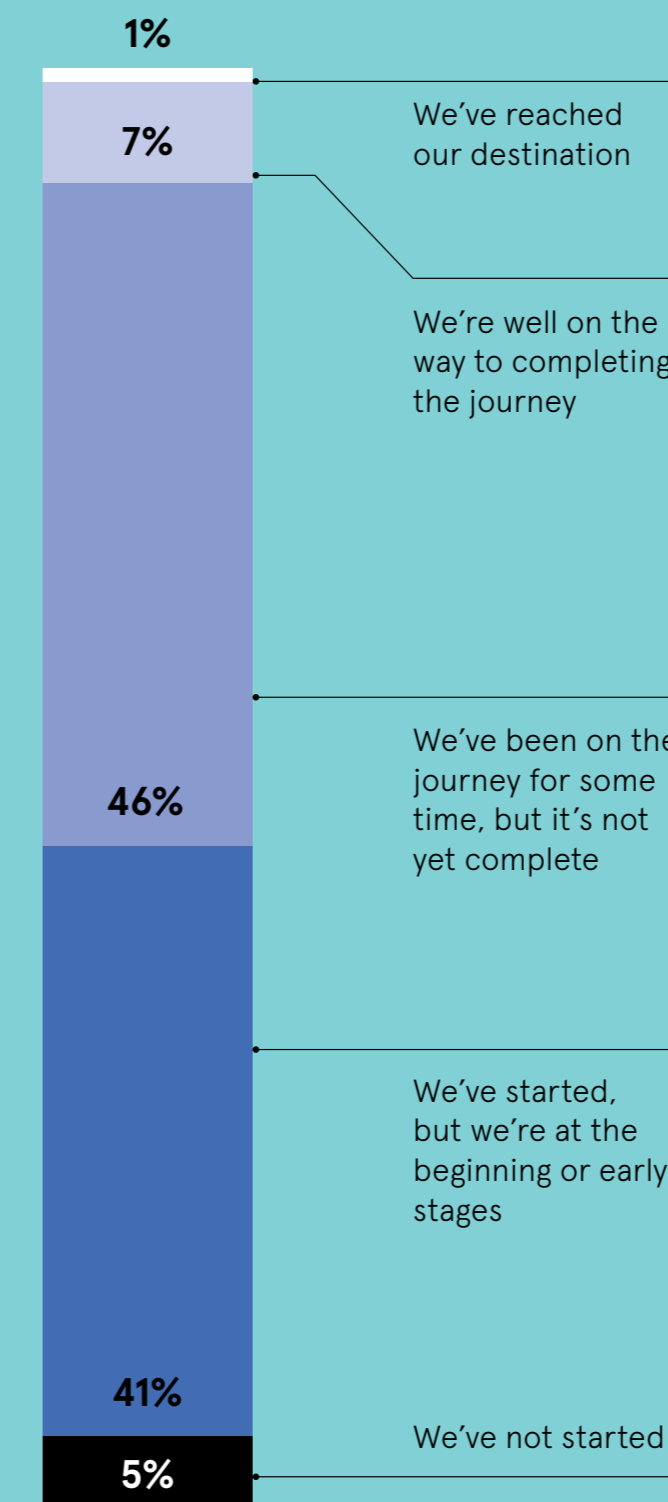
agree that digitisation will transform the way they work

NBS 2019

## STATE OF DIGITAL TRANSFORMATION

Where construction companies self-identify in the digital transformation journey

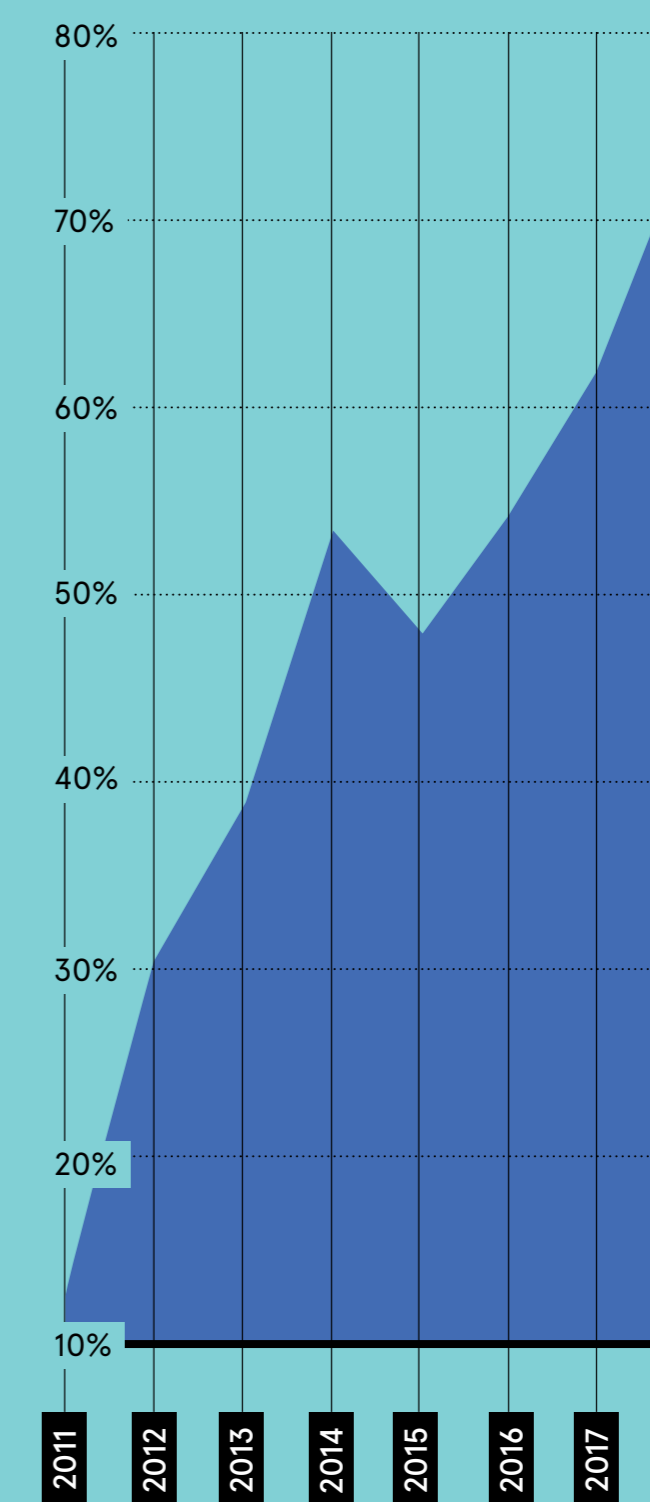
NBS 2018



## BIM ADOPTION RATES HAVE SURGED IN RECENT YEARS

Percentage of construction companies that are using building information modelling or BIM

NBS 2018



## BARRIERS TO ADOPTING NEW TECHNOLOGIES

Percentage of construction companies who said the following are limiting factors to adoption of new technology

JBKnowledge 2018

**38%**

Lack of staff to support the technology

**38%**

Budget

**34%**

Employee hesitance

**30%**

Management hesitance

**29%**

Lack of knowledge about new tech available

**16%**

Maturity of tech available

**11%**

None, we try everything out