



BRITISH  
WOODWORKING  
FEDERATION

# Build it Better with Wood

## Members Day 2018

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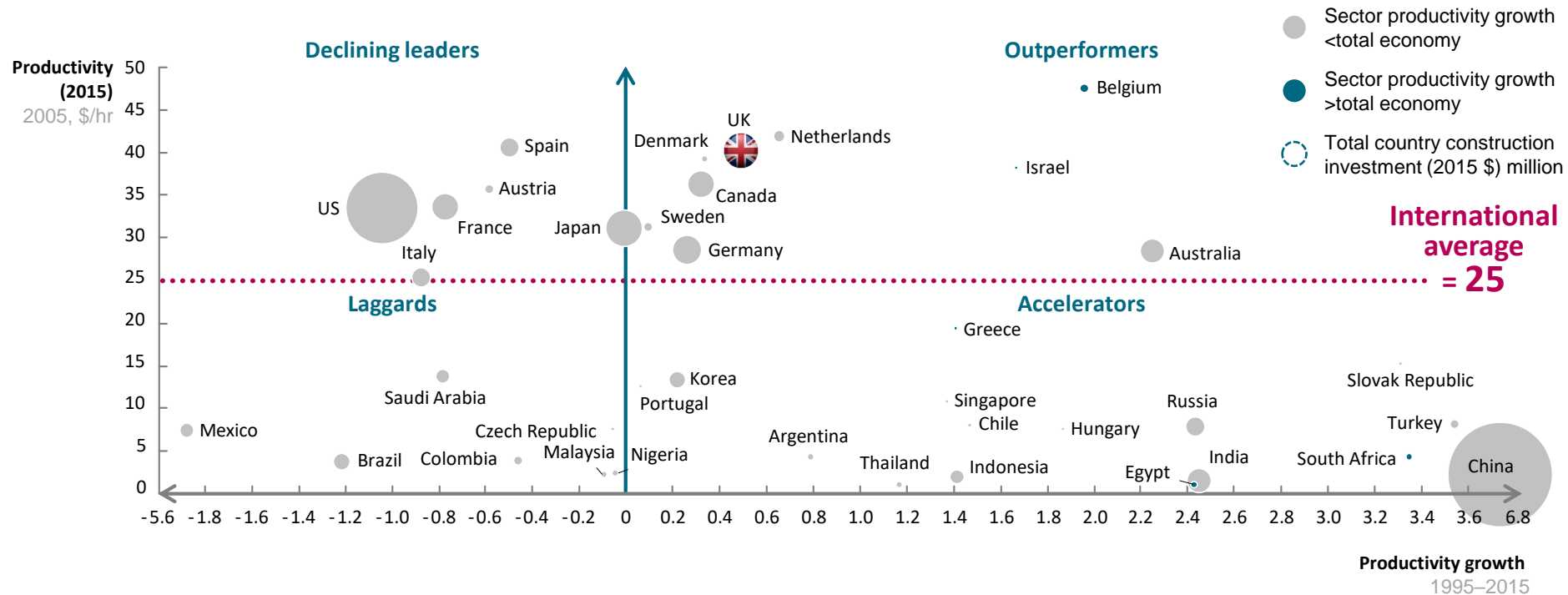


# Industrial Strategy

Building a Britain fit for the future



# Global Construction Productivity



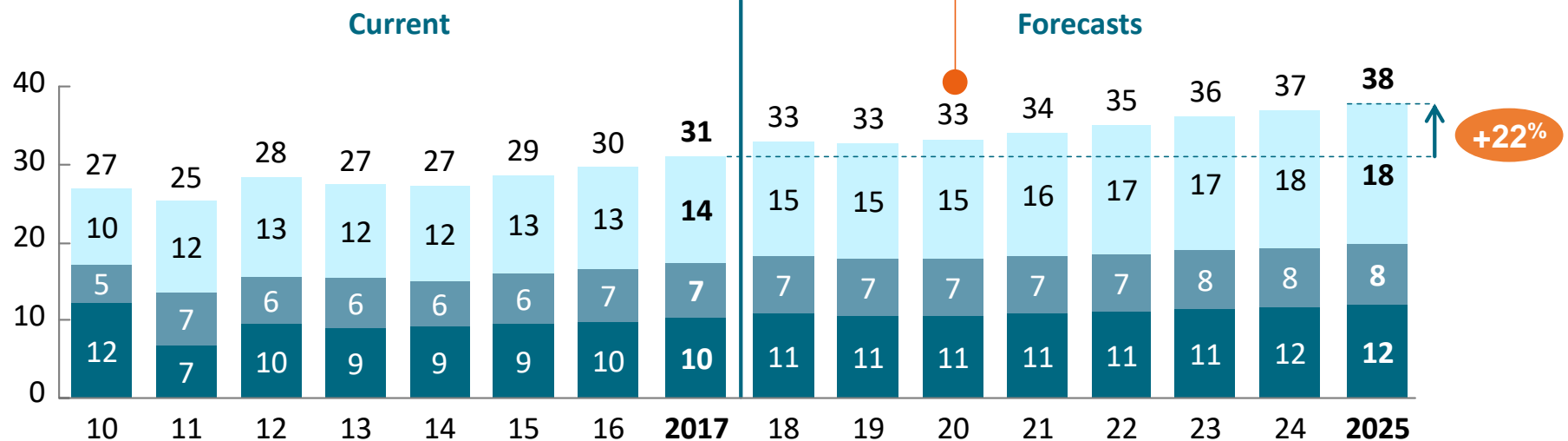
SOURCE: OECD Stat; EU KLEMS; Asia KLEMS; World KLEMS; KSA CDSI; KSA MoL; WIOD Socioeconomic accounts, GGDC-10; Oanda; IHS; ITF; GWI; McKinsey Global Institute analysis

ESTIMATES

# Delivering the 2025 investment with today's workforce would require a 22% increase in productivity

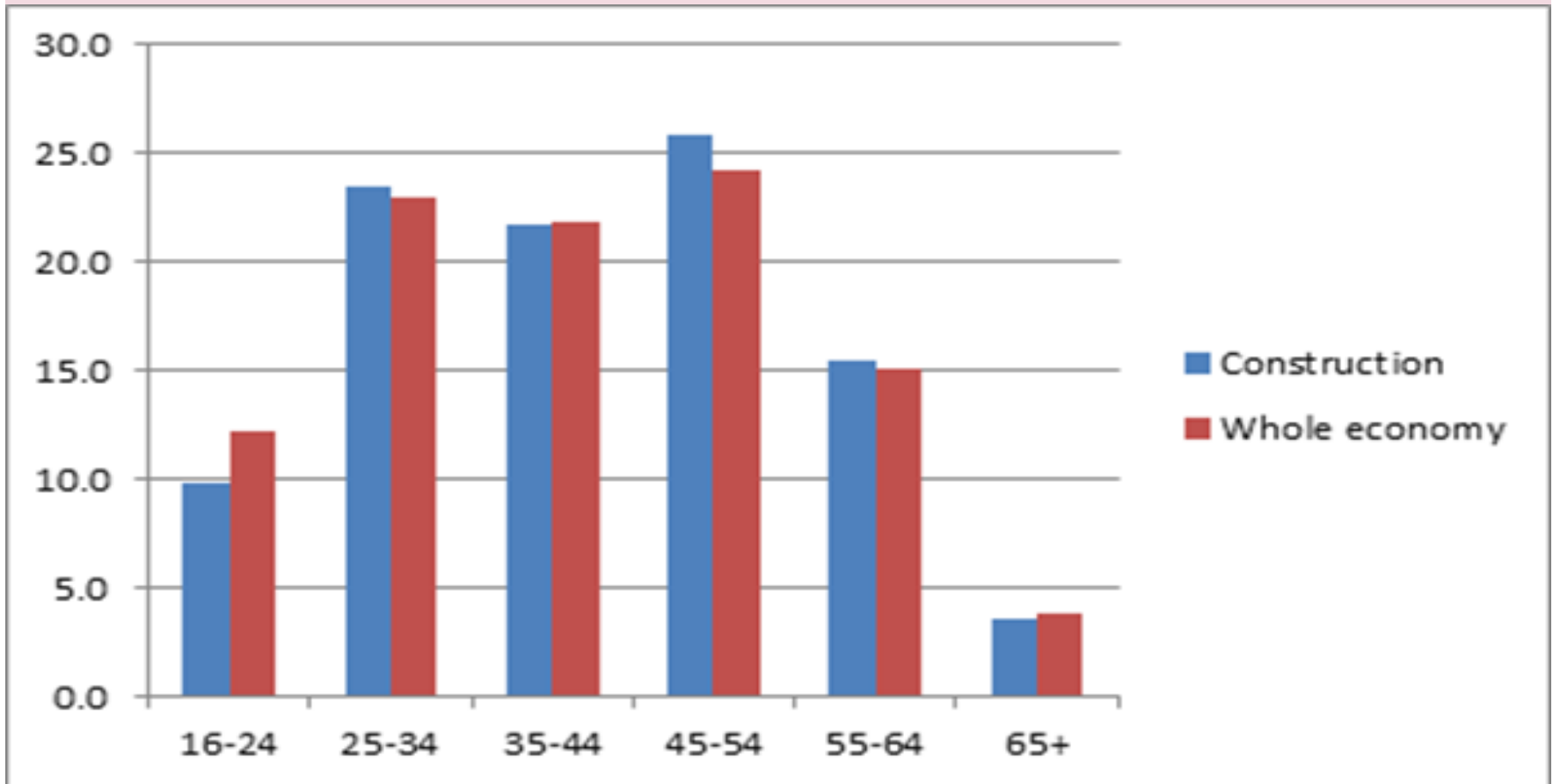
- Transport
- Communication
- Electricity, gas and water

**Gross infrastructure spend**  
£b, 2017 prices



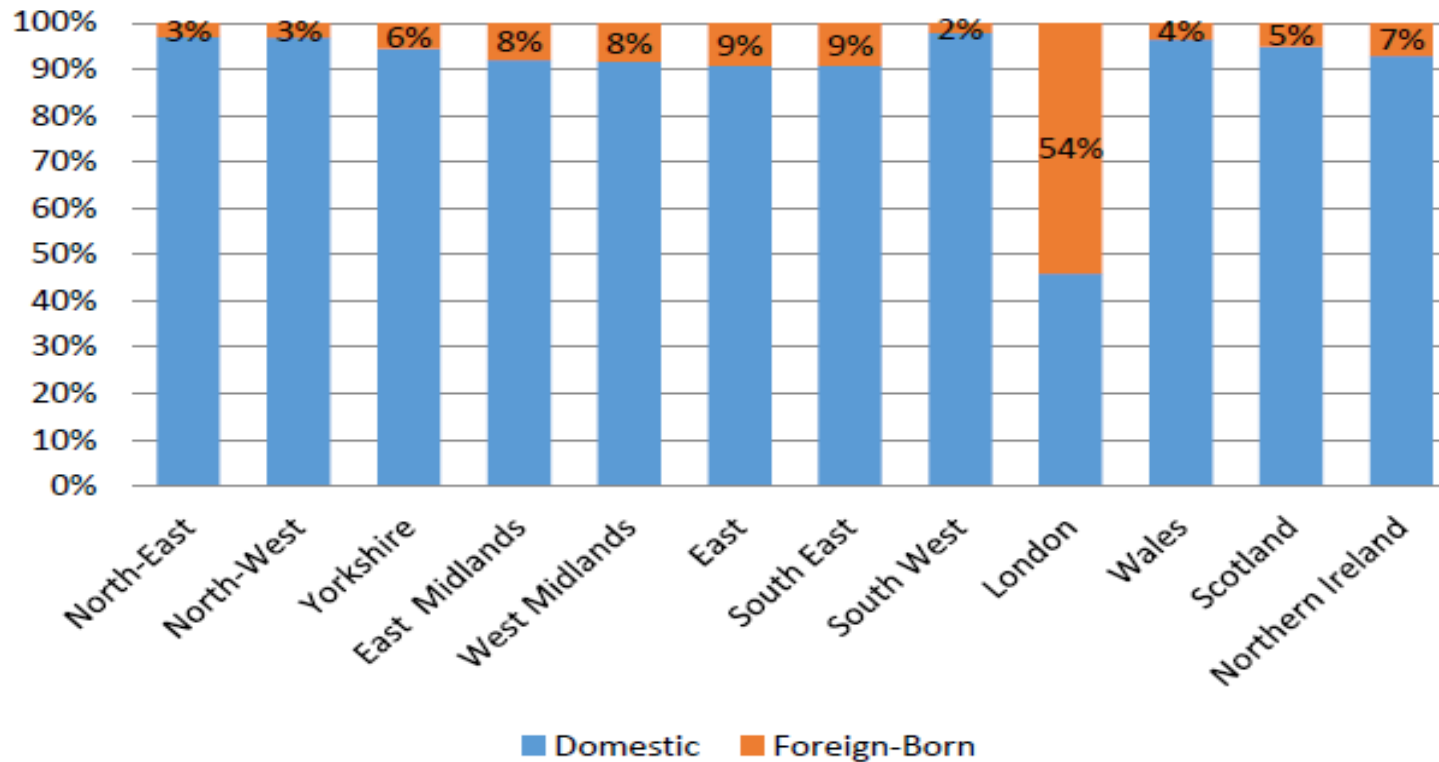
SOURCE: ONS, Annual Statistics Abstracts, Global Insight, McKinsey

## Demographic Change: Impact on the Construction Workforce



## Migrant Workforce in Construction

Figure 13: Proportion of migrants working in construction, per region in 2014



## Focus on the five foundations of productivity:

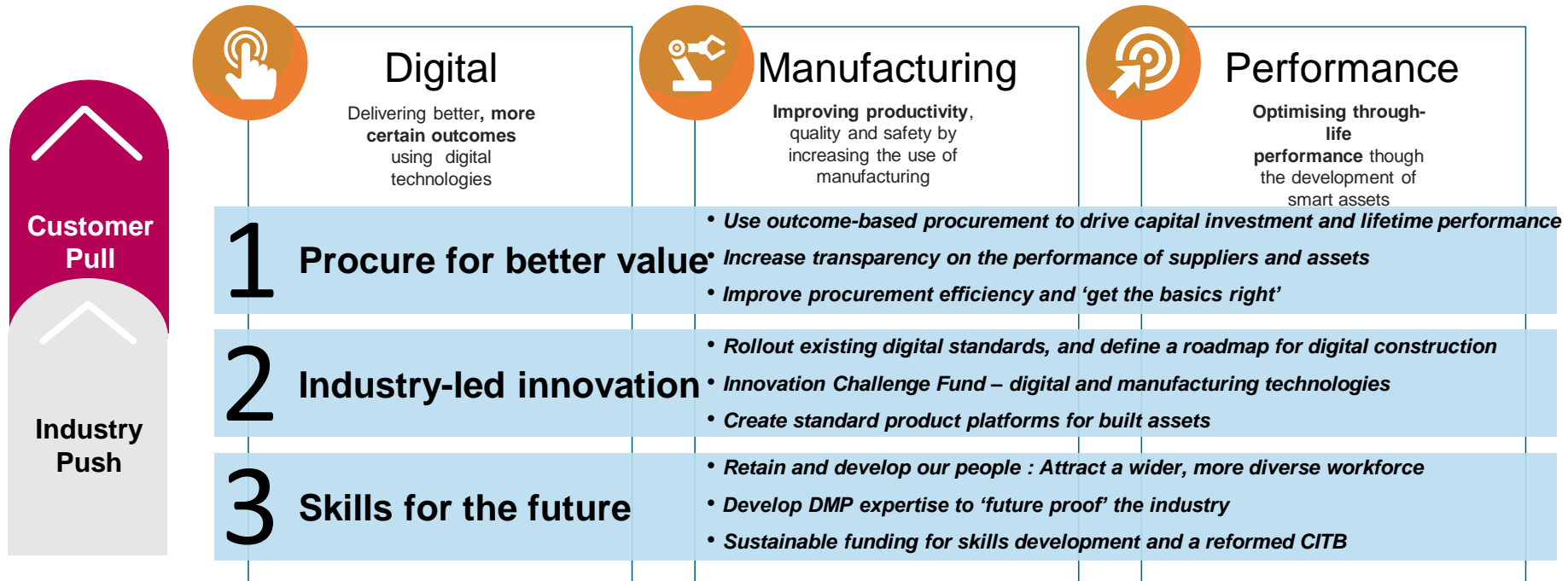
- **Ideas** - the world's most innovative economy
- **People** - good jobs and greater earning power for all
- **Infrastructure** - major upgrade to the UK's infrastructure
- **Business Environment** - the best place to start and grow a business
- **Places** - prosperous communities across the UK

# Construction Sector Deal



Three strategic outcomes delivered through three key enablers

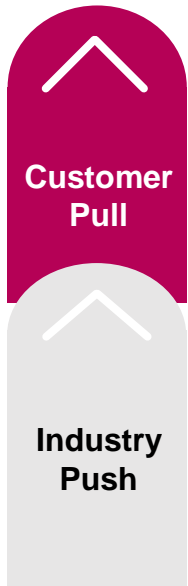
\* More houses \* More rail capacity \* Improved car journeys \* Cheaper energy \* Better public services



# Construction Sector Deal



\* More houses \* More rail capacity \* Improved car journeys \* Cheaper energy \* Better public services



## Digital

Delivering better, **more certain outcomes** using digital technologies



## Manufacturing

Improving productivity, quality and safety by increasing the use of manufacturing



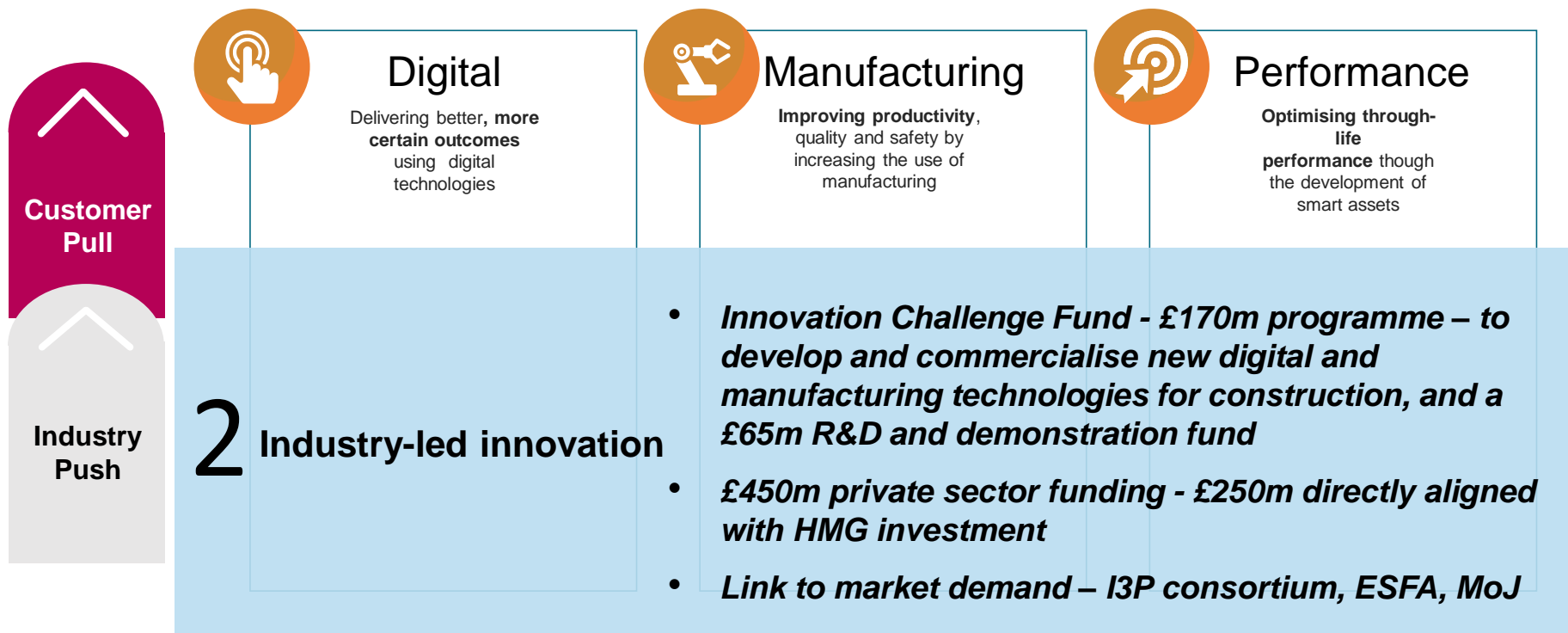
## Performance

Optimising through-life performance through the development of smart assets

# 1 Procure for better value

- ***Use outcome-based procurement to drive capital programmes – develop a common methodology for procuring best value (RICS/CIPS)***
- ***Underpinned by open access information source, standardised PQQ processes***
- ***Consult on payment practices – which create adversarial relationships within supply chains and obstruct collaboration***
- ***Benchmark performance of assets and contractors***

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# Construction Sector Deal



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## 3 Skills for the future

- ***Reform Construction Industry Training Board to identify and deliver skills needed in future, with stronger links with industry and more support for SMEs***
- ***Work with IfA to put in place apprenticeship standards needed for the industry to invest Apprenticeship Levy funds in training and improving workforce skills***
- ***Co-ordinated industry approach to promoting construction careers – to attract talent and increase workforce diversity***

## Laing O'Rourke schools in Yorkshire – driving productivity improvement through offsite manufacturing



68%

Manufactured offsite

66%

Productivity  
improvement

<20

Onsite staff to  
assemble

## Y:Cube Mitcham: use of offsite construction in affordable housing

### Description

- Y:Cube is a project by YMCA London South West that offers **self-contained and affordable starter accommodation for first time buyers or those unable to afford private rent**
- Developed in partnership with architects **Rogers Stirk Harbour + Partners** and project manager **AECOM**
- With use of offsite manufacturing, **each apartment is built** under controlled conditions **in a factory in Derbyshire**, increasing precision and quality control while minimising waste, **then craned into place on site**, with services already installed.
- The units have a **lifespan of around 60 years**, during which they can be **moved and re-installed up to five times**



### Impact achieved

Impact	Success Criteria	
36%	Productivity improvement	£95 per manhour from £70 per manhour
50%	Speed	Half the time taken to build the project
35%	Reduced Embodied Carbon	Quality improvements
50%	In-Use Energy	% better than traditional projects
<ul style="list-style-type: none"><li>The level of insulation and airtightness in the this project makes the bills for heating and electricity at <b>£10 per month</b>, while the cost-saving in construction makes the units be <b>rented for £150 per week, 65% of the local market rate</b>.</li></ul>		

# Outcomes

\* More houses \* More rail capacity \* Improved car journeys \* Cheaper energy \* Better public services



**Digital**



**Manufacturing**



**Performance**

**Industry**

Improved **profitability**

**Productivity** improvement

Value adding **Jobs in the regions**

**Skills**

More **sustainable business models**

Sector impact at **scale**

Increased **Exports**

**Carbon** reduction

**Government**