

# Technology & Skills in the Construction Industry

## UK Construction Industry Today

Contributes almost

**£90 billion**

to UK economy



Sector dominated by high levels of self-employment

SMEs account for **95%** of the sector



## Offsite Construction



**12%** of construction takes place offsite.

e.g. pods, 'kit' homes, panelised systems



Close links to manufacturing sector



Most commonly associated with pre-fabricated post war building but is increasingly technology driven

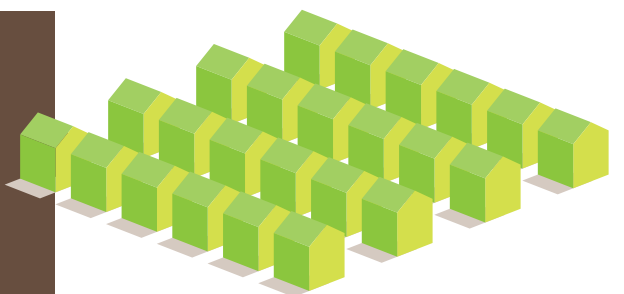
## Why Build Offsite?

Key to realising new opportunities for the industry

Control costs



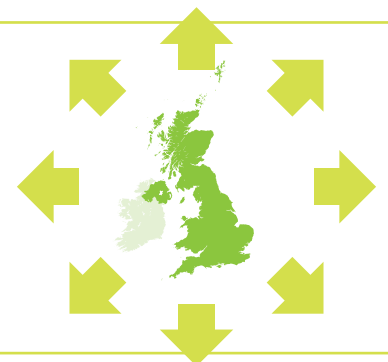
Increase productivity



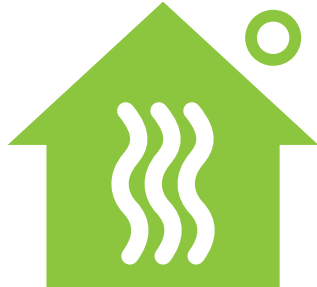
Increase quality and efficiency



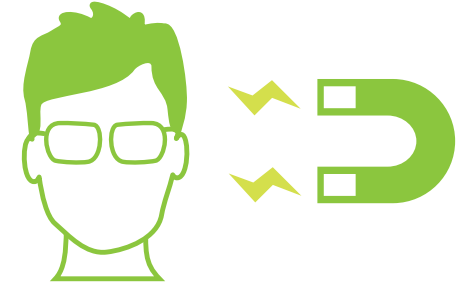
Expand construction export market



Improve energy efficiency



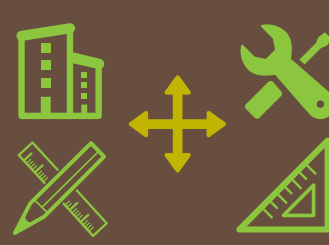
Attract young people to the industry



## Skills Required

Offsite presents skills requirements that are distant to those in traditional construction. Bespoke nature of offsite creates challenges to provision of qualifications and training.

1. Cross-industry collaboration



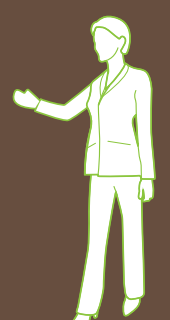
2. Project management



3. Design and IT



4. Marketing and business case development



## Future Jobs and Skills

If the uptake of offsite increases, an increased requirement for:

Schedulers  
Quantity Surveyors  
Design office staff  
Project Managers  
Engineers



SMALLER TEAMS required to assemble components onsite



Management of interface between offsite and onsite



Collaboration between occupations and across manufacturing and construction industry



Multi-skilling and greater flexibility within job roles



Knowledge and use of Building Information Modelling and automated tools



Knowledge of scheduling, planning and the 'whole life approach' to structures

