

# Challenges into opportunities

**Construction Productivity Conference**  
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**Do more with less**

People

DfMA

(Design for Manufacture  
and Assembly)

Skills

Prefabrication

Offsite

MMC

(Modern Methods  
of Construction)

Money

Smart  
Construction

Industry  
Construction

Emissions

Fuel

Advanced manufacturing  
for construction

Materials

Kit of Parts

Volumetric  
Modular

Impacts

Lean

Product  
Platforms

Standardisation

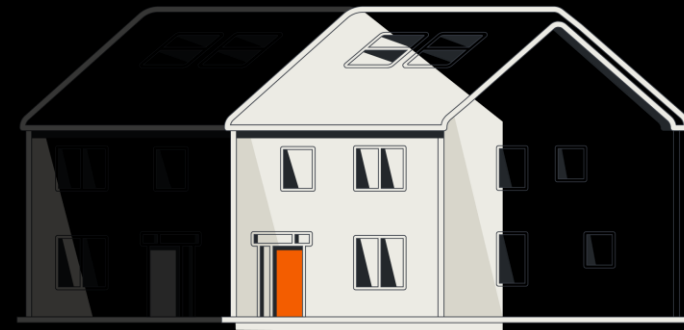
Waste

# Wales: Housing Pattern Book by Tai ar y Cyd

<https://taiarycyd.cymru>



- 23 social landlords
- Supported by Welsh Government.
- 15 house types and 18 variants.
- 1-bed flats to 4-bed houses and fully accessible bungalows and flats.
- Built faster and with low-carbon and natural materials, helping to reduce waste and disruption to communities.
- Designed to meet both Welsh Development Quality Requirements and Welsh Housing Quality Standards.



# UK: Vision - College Road



[visionvolumetric.co.uk](http://visionvolumetric.co.uk)

- 1<sup>st</sup> volumetric building in the world to reach 50 storeys
- Completed two months ahead of schedule.
- 817 co-living homes
- 120 affordable homes.
- More than 1 home per day delivered
- 86% reduction in vehicle movements
- 41% reduced CO2 emissions
- 97% factory waste recycled

**1725**

units installed in 40 weeks

**28 months**

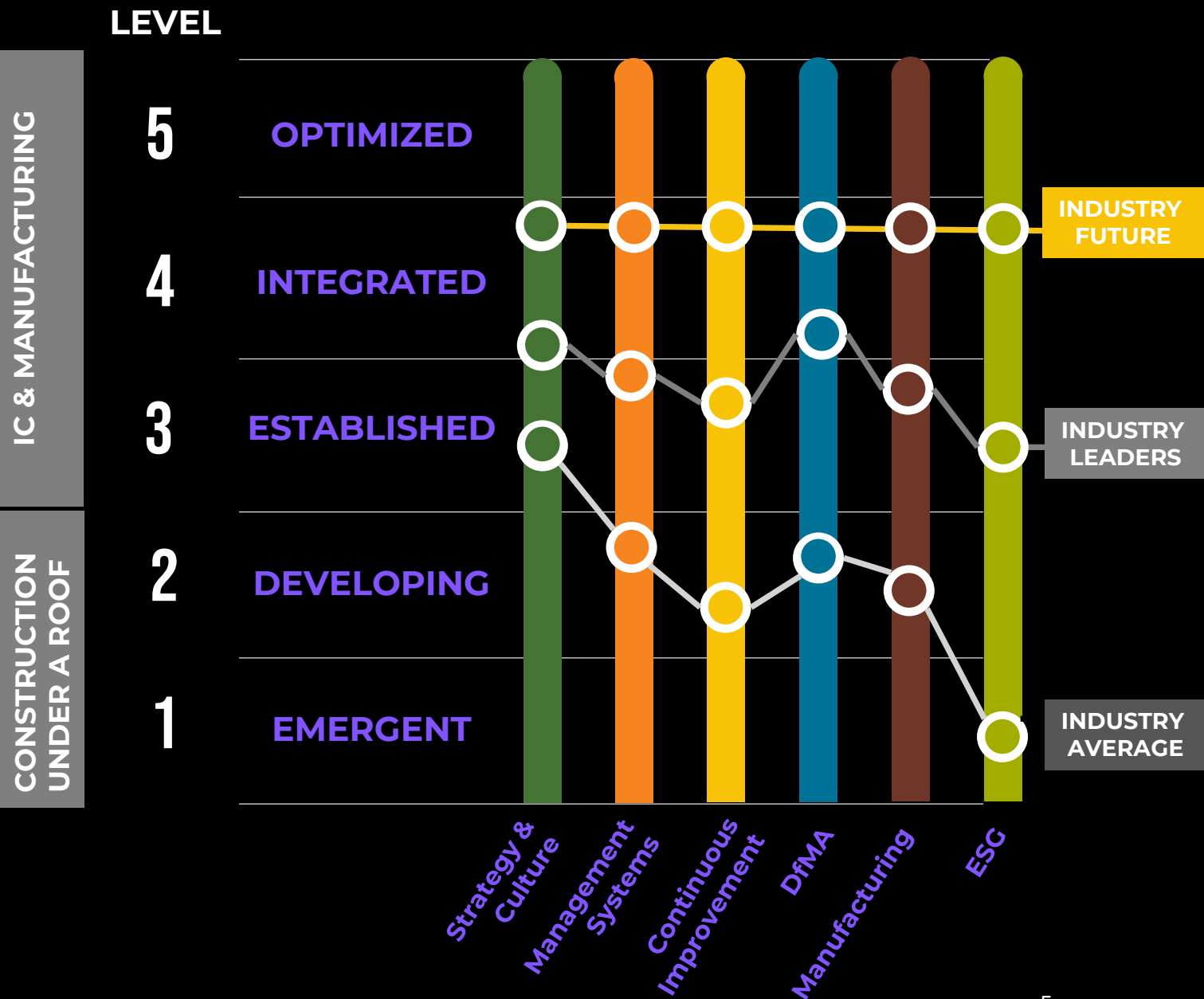
entire delivery time

# USA: Industrialized Construction Group



IC MATURITY:  
WHERE ARE WE  
AS AN INDUSTRY?

<https://www.icg.build/icma>







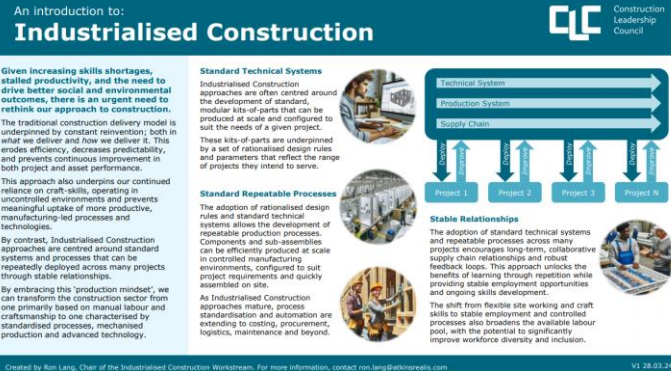


## Australia: Tackling culture to improve productivity



[constructionindustryculturetaskforce.com.au](http://constructionindustryculturetaskforce.com.au)

## UK: PAS8700; ISO CB/301; CLC



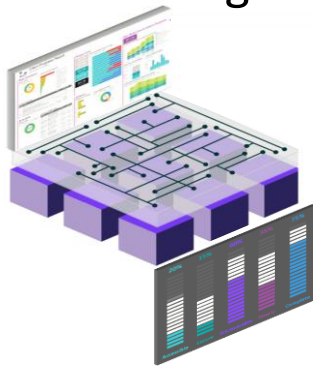
[constructionleadershipcouncil.co.uk](http://constructionleadershipcouncil.co.uk)

## Spain: Sagrada Familia



[arup.com/projects/sagrada-familia/](http://arup.com/projects/sagrada-familia/)

## UK: NHP Programme Intelligence Portal



[mottmac.com/en-gb/projects/new-hospital-programme/](http://mottmac.com/en-gb/projects/new-hospital-programme/)

## Japan: design freeze and a 3-month house



[iuk-business-connect.org.uk/wp-content/uploads/2020/12/B2\\_13\\_KTN\\_Japan-Transform-Construction\\_v4.pdf](http://iuk-business-connect.org.uk/wp-content/uploads/2020/12/B2_13_KTN_Japan-Transform-Construction_v4.pdf)

## Germany: Porsche Consulting



[porsche-consulting.com](http://porsche-consulting.com)



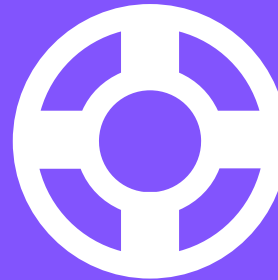
**£1.8bn**

potential annual CAPEX saving



**£7.8bn**

potential real GDP improvement



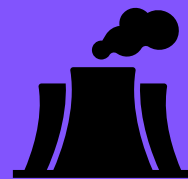
**Save and improve lives**



Reduced  
waste



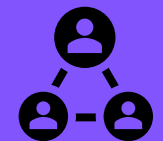
Improved  
reuse and  
recyclability



Lower  
emissions



Lower  
energy use



Better  
resources  
use



# DO BETTER

**With intent!**