Gathering 21

CitA

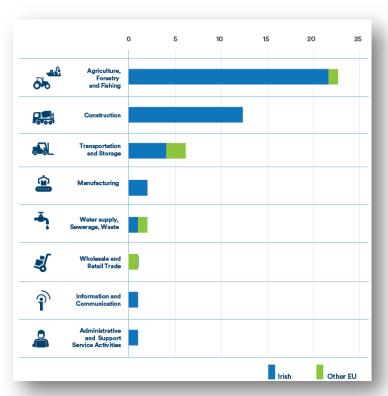
Construction Innovations for Future Generations

Can Ireland deliver the stable quantum to sustain a viable volumetric off-site industry?

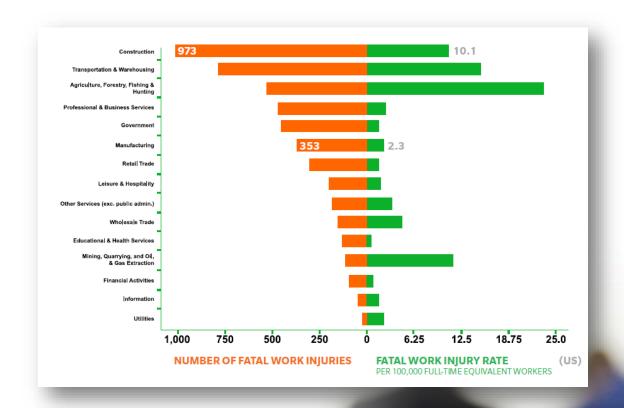




Why off-site Safety



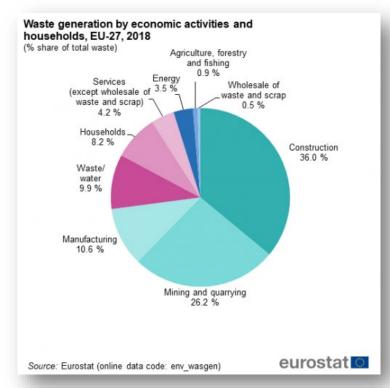
Number of fatal accidents by NACE economic sector and nationality, 2019 (HSA)





Why off-site

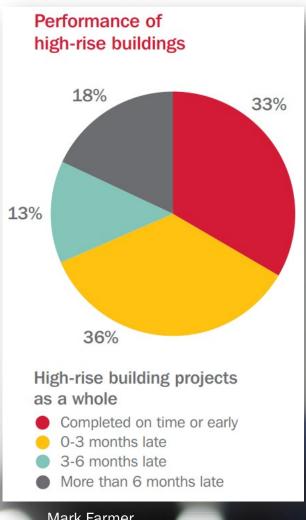
The Environment, The Labour Shortage & Speed



Eurostat information on waste generation by industry



UK statistics - Irelands are very similar



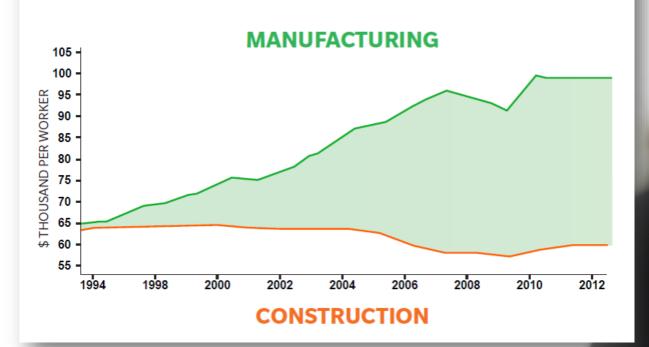
Mark Farmer



Why off-site **Efficiency**

EFFICIENCY

Over the past 2 decades the efficiency of Manufacturing per worker has **improved** by over **53**% The efficiency of Construction has actually **declined** by **10**%







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Why off-site **Quality**















World Leaders

THREE MAIN HOUSING COMPANIES IN JAPAN... ARE NOT TRADITIONAL CONSTRUCTION COMPANIES



Panasonic



What is volumetric off-site construction

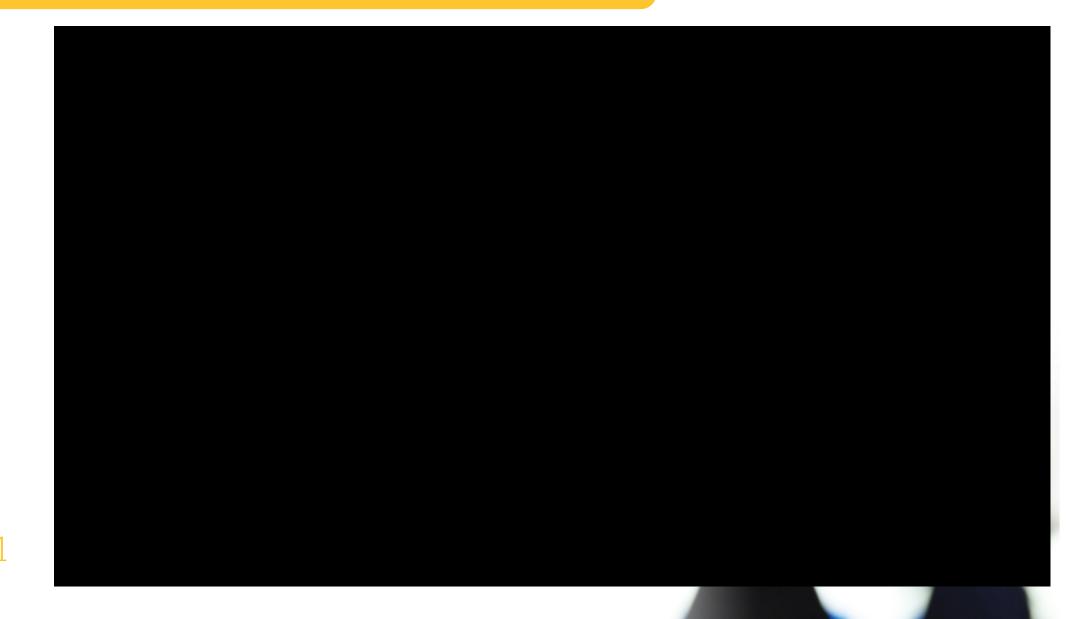






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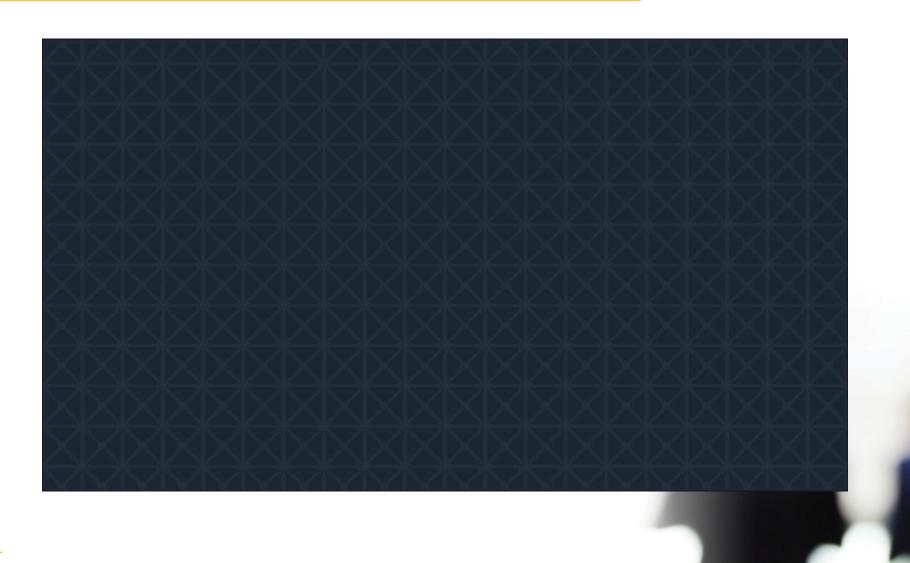
Why off-site **Efficiency**





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The How Design

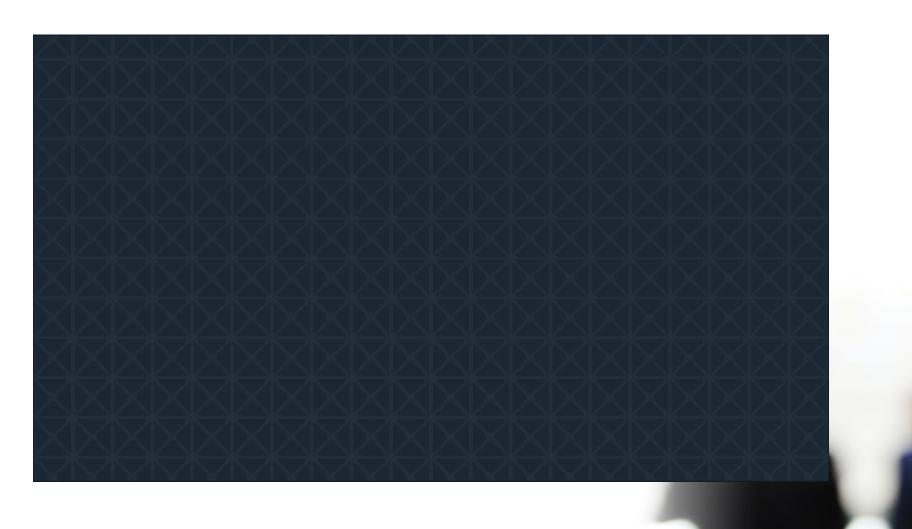






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The How Design







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The target?



for Future Generations



HOW TO GET THERE

- Learn from the UK Government commitment
- Committed to; 75,000 new home via modular construction by 2030
- = 25% 30% of the overall demand in the UK
- Mirrored in Ireland = 8,750 and 10,500 modular homes by 2030
- LDA (are pushing this), AHB's (have delivered modular Clúid, Tuath), Private Developers (Glenveagh)



for Future Generations



ANCILLARY BENEFITS

- Each factory delivering 2,000 homes / annum = 600 jobs
- Ireland needs 5 7 new factories which would create a minimum of 3,000 jobs
- Typically in rural and remote locations
- Generates 3,750 jobs in the related supply chains, including in manufacturing equipment supply so
- A total of 7,000 jobs in rural locations



5th CitA BIM Gathering Virtual Conference



THANK YOU ANY QUESTIONS



