

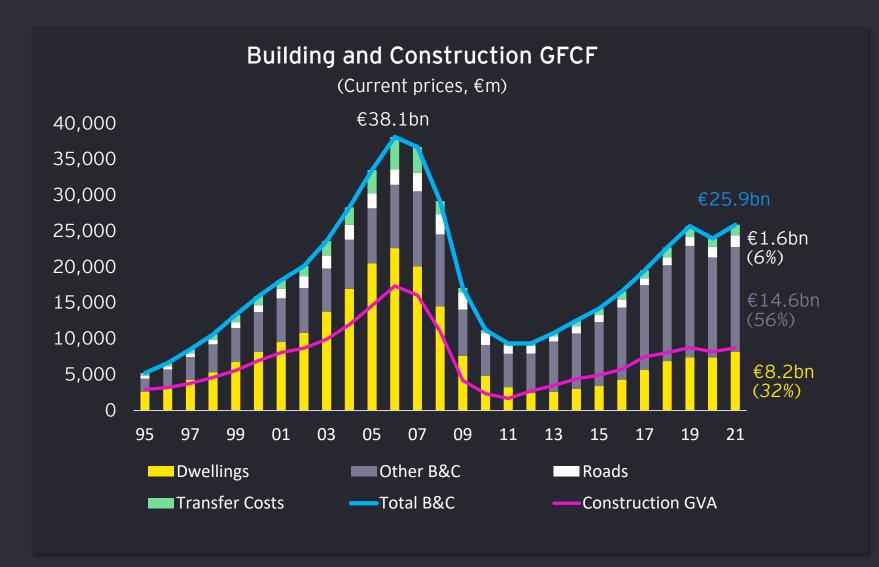
## What do we mean by construction capacity?

- The combinations of inputs used in production - land, labour, plant and machinery
- The maximum output attainable within the limits considered acceptable at a given time
- Influenced by the economic cycle
- The adoption of technology and digital innovations are becoming an important game changer for the industry





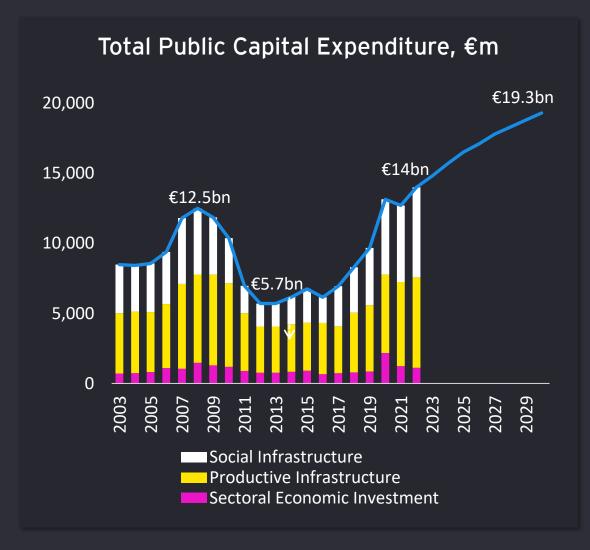
## Gross Fixed Capital Formation (GFCF) in Building and Construction is the official measure in the National Accounts

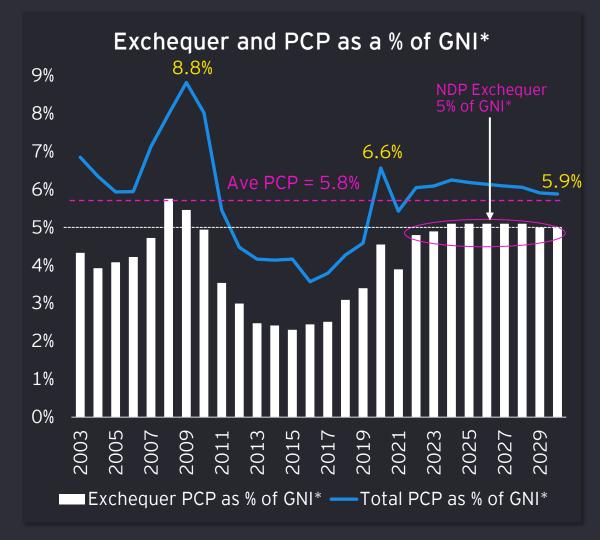


- Investment in B&C accounts for 6.1% of GDP and 11.1% of GNI\*
- New residential construction represents €5.1bn or c20% of the B&C investment (private and public)
- c.63% represents other B&C investment (private and public)
- Construction GVA at €8.7bn represents 2.0% of GDP and 3.7% of GNI\*



#### Government investment in Building and Construction





Source: Revised Estimates of Public Service 2003-2020, National Development Plan 2021-2030 2021 and 2022 split estimated from 2022 PCP.

Source: Revised Estimates of Public Service 2003-2020, National Development Plan 2021-2030. 2021 and 2022 split estimated from 2022 PCP. Actual to 2021.

GNI\* for 2022-2030 estimated from NDP Exchequer as % of GNI\*.



## A recap on what construction actually captures?

The general construction of buildings of all kinds (new, renovation, pre-fabricated structures on site and construction of a temporary nature) by the public <u>and</u> private sector

#### **Definition of construction**

(NACE Rev. 2 - Section F (41-43)

- F41: Construction of residential and nonresidential buildings
- F42: Civil Engineering
- F43: Specialised construction activities / trades

#### Non-residential construction

- 12m square metres of floor area granted planning permission for new non-residential buildings in last five years
- c.131,000 sqm of new office completions in Dublin in 2021 with a forecast for 202,000 sqm in 2022 (CBRE)
- Industrial and logistics plus FDI investments in new manufacturing
- Intel total investment c.€12bn on completing its "Fab 34" by end 2023
- Data centres €7bn of investment (data centres with approved planning permission) in 5 years to 2025
- Retail, hotels and sports facilities
- Investment in education and health

#### Private sector contribution

 $\overline{\mathbf{V}}$ 

c.50%

Estimated contribution of private sector construction in terms of total investment in total building and construction

EY analysis



## Challenges for Construction



Cyclical nature of the industry



Productivity



Industry demography and scale



Cost inflation



Labour supply



Low levels of R&D



Green agenda and sustainability



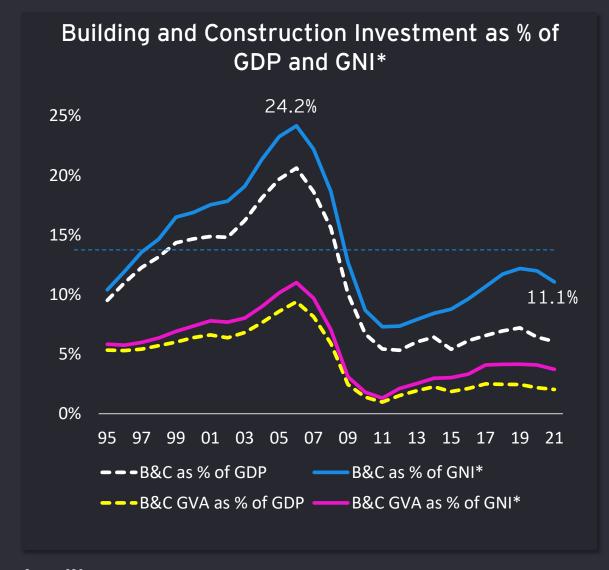
Client expectations



Off-site construction and digitalisation of projects



#### Challenge #1: Building and Construction investment cycle

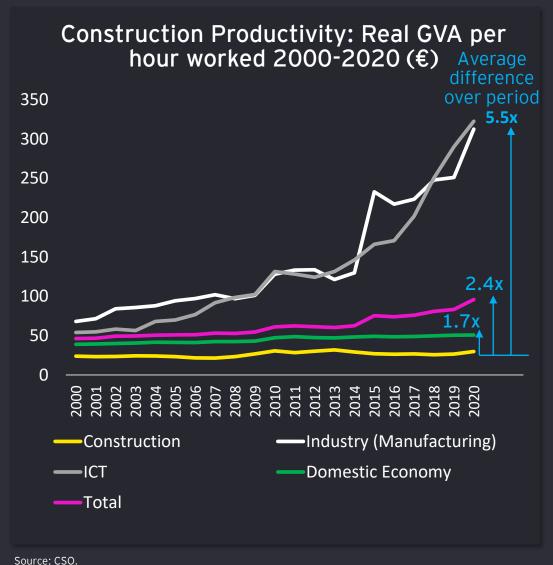


- B and C investment has fluctuated over more than two decades
- How to ensure the sector makes and 'appropriate' and 'stable' contribution to the economy and what should that be?
- Industry could potentially increase to 15% of GNI\* by 2024 and even more beyond given current investment plans
- Counter-cyclical public investment policy may be difficult given large scale investment planned





### Challenge #2: Productivity





Source: CSO and Eurostat.





# Enhancing productivity by adoption of more modern methods of construction (MMC) can yield substantial benefits

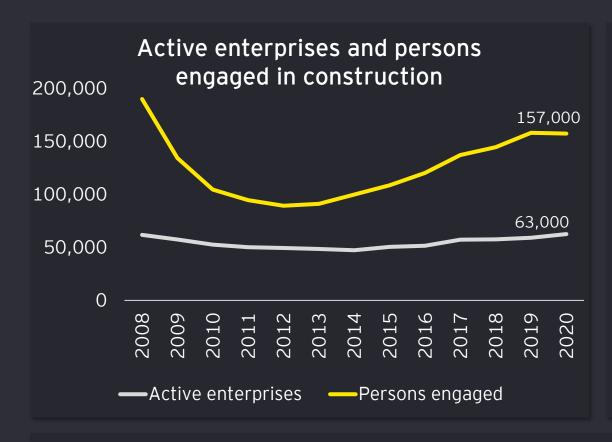
- ✓ MMC have the potential to achieve a 20%-60% reduction in construction programme time and a 20%-40% reduction in construction costs and greater programme certainty
- ✓ MMC have significant environmental benefits
- ✓ The increased prevalence of MMC is conditional on a steady demand pipeline
  of projects to ensure its financial viability
- ✓ The majority of the industry believe that MMC will be of 'great' and 'very great' importance over the next 10 years
- ✓ One of the key themes to have emerged from interviews by the MMC Working Group was a lack of understanding of what constitutes MMC

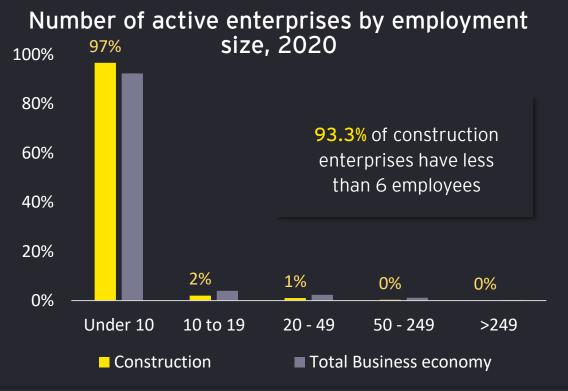
of firms believe
MMC will be of
very/great
importance in next
10 years

of large firms believe MMC will be of very/great importance in next 10 years

71%
of main
contractors believe
MMC will be of
very/great
importance in next
10 years

## Challenge #3: Construction is a fragmented sector





- In total, there were almost 63,000 active enterprises operating in the construction sector in 2020 employing 157,000 persons
- This represents 5,192 fewer enterprises and 23,000 fewer persons engaged compared with 2009
- Direct employment Q2,2022 was 167,300 (6.5% of employed workforce)
- 48.9% of persons engaged in construction work in firms with under 6 employees



## Top 50 CIF contractors - represent one-third of investment in the B&C sector

	2018	2019	2020	2021
Top 50 total turnover (€m)	8,390	10,000	11,370	12,890
% change YoY	+25.0%	+20.5%	+13.7%	+13.4%
- T/O in Ireland	5,900	6,700	7,120	8,540
% change YoY	+15.5%	+13.6%	+6.3%	+19.9%
- T/O overseas	2,500	3,300	4,250	4,360
% change YoY		+32.0%	+28.8%	+2.6%
Entry figure for Top 50 (€m)	31	35	35	47.3
Total B&C investment (€m current prices)	22,722	25,691	23,975	25,881
% change YoY (nominal terms)	16.4%	13.1%	-6.7%	7.9%
% change YoY (real terms)	10.5%	5.6%	-10.0%	-2.3%
Direct employment Q4 (000s)	143.7	147.1	135.0	158.3
% change YoY	7.8%	2.4%	-8.2%	17.3%
Top 50 CIF firms Irish T/O as % of total B&C investment	26.0%	26.1%	29.7%	33.0%

#### CIF Top 50 Contractors 2021



€12.9bn

Total turnover in 2021

+13% YoY



€8.5bn

Construction activity in Ireland in 2021
+20% YoY



€4.4bn

Construction exports in 2021 +3% YoY



€3.5bn

Total overseas turnover for Top 10 exporters in 2021. 48% of their total turnover

Source: CIF Annual Surveys

### Fragmented scale of the home building sector in Ireland

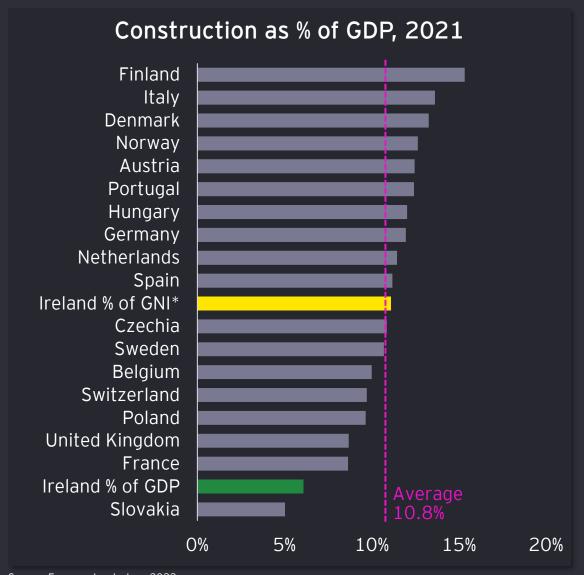
The market is fragmented and growth in annual completions has been slower for the vast bulk of the market when compared with the two PLCs

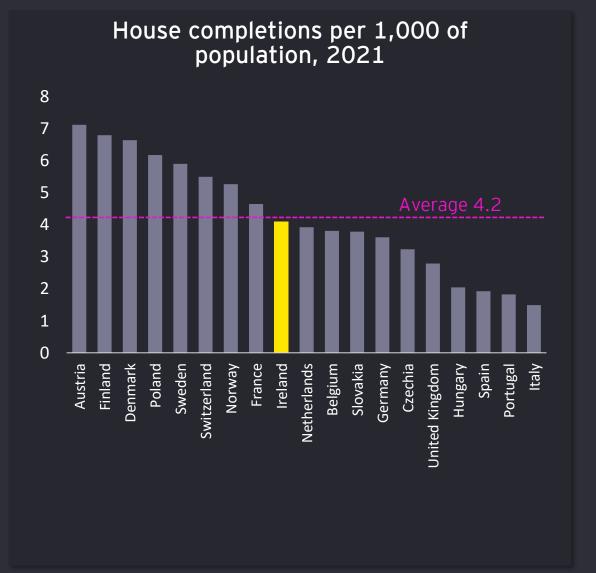
	2018	2019	2020	2021	2022F	2023F	2024F	Annual growth 2021-2024
Total completions	17,899	21,147	20,593	20,570	24,600	29,000	33,450	+17.6%
Single houses	4,674	5,108	4,981	4,737	4,900	4,900	4,900	+1.1%
Remainder of market	13,225	16,039	15,612	15,833	19,700	24,100	28,550	+21.7%
Total from 2 PLCs	1,079	1,924	1,443	2,270	3,300	4,233	5,167	+31.5%
Requirement from other builders	12,146	14,115	14,169	13,563	16,400	19,867	23,383	+19.9%

- Looking at the two PLCs:
  - They have increased their combined market share from 6% in 2018 to 11% in 2021
  - $\circ$  They increased their supply by 110%, while the rest of the market grew by 9% between 2018 and 2021
  - They are expected to account for 15% of the market by 2024 (using HfA targets)
- This implies that to meet the HfA annual target in 2024, the rest of the market will need to increase at an annual growth rate of c.16% between 2021 and 2024 or 20% excluding one-offs
- The focus needs to be on ensuring this growth by the vast bulk of builders delivering in the rest of the market is facilitated and supported



#### How does Ireland perform versus the rest of Europe?





Source: Euroconstruct, June 2022

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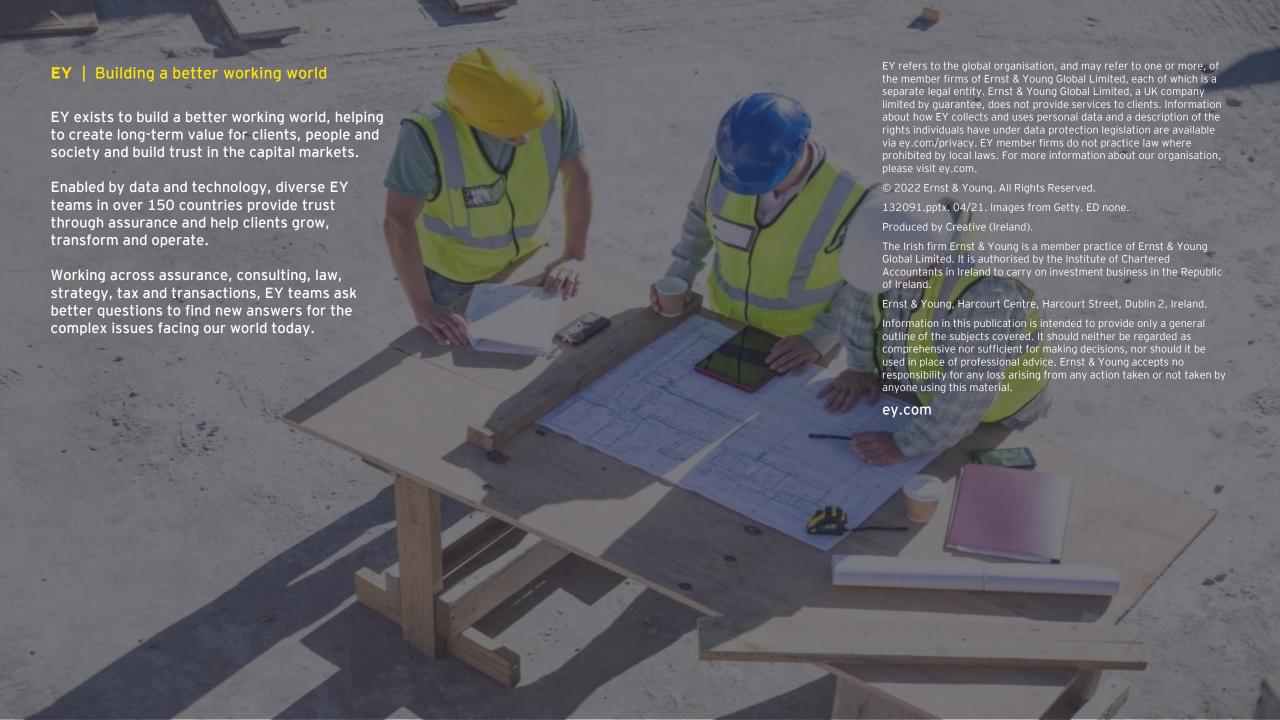
## Summary: Ensuring an industry which is fit for purpose for decades to come

- Capture robust and timely data right across the construction sector by project category, especially private sector activity
- Long term public investment plan gives certainty for industry, but prioritisation is key
- Ensure supports are in place to address cost concerns and viability issues
- The industry needs a cultural shift at grass roots level towards more modern methods of construction, innovation and digital technology
- The construction industry is in a position of considerable responsibility and influence - sustainability has to underpin the future of all construction activities





operational savings)



#### What does construction measure?

The general construction of buildings of all kinds (new, renovation, pre-fabricated structures on site and construction of a temporary nature) by the public <u>and</u> private sector

#### **Definition of Construction** (NACE Rev. 2 - Section F (41-43)

#### F41: Construction of buildings

- Development of building projects
- Construction of all types of residential buildings
- Construction of non-residential buildings
- Renovation of existing residential and non-residential buildings

#### F42: Civil Engineering

- Roads and motorways
- Railways and subways
- Bridges and tunnels
- Environment (e.g. water systems, flood relief)
- Electricity transmission and distribution
- Power plants, onshore/ offshore wind farms
- Telecommunications
- Ports, harbours, marinas, dredging
- Airports

## F43: Specialised construction activities / trades

- Construction involving specialised skills and equipment
- Demolition and site preparation
- Installation activities on site
- Building 'finishing' and 'completion' activities
- Mostly carried out under subcontract

