

# Ireland: Cautious lockdown continues before vaccine underpins recovery

Vaccines, household savings and external environment give optimism from H2 onwards

April 2021



Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta  
National Treasury Management Agency

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# Summary

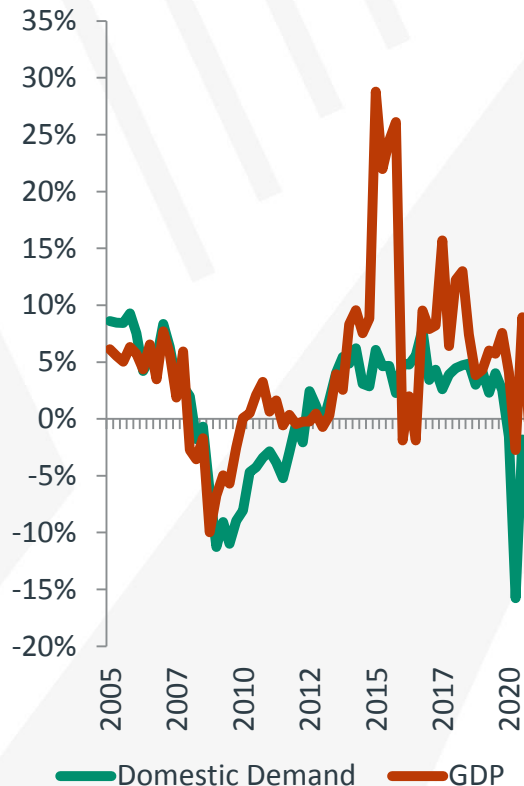
Irish economy has shown remarkable resilience amid Covid shock



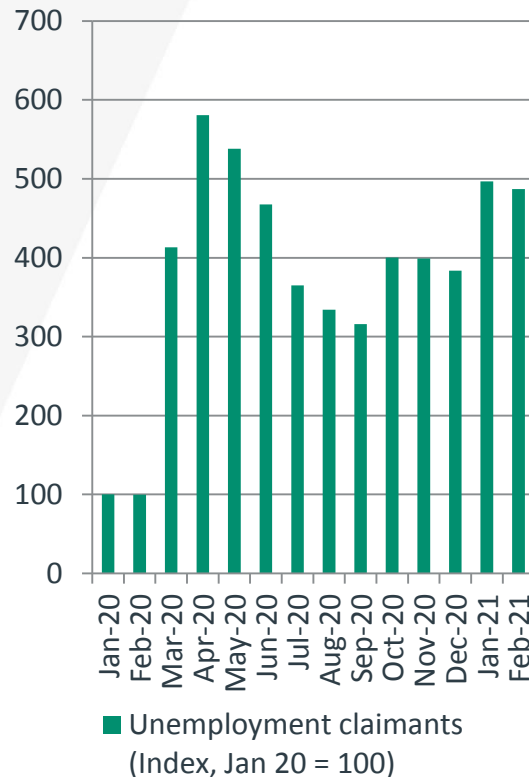
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# 2020 Economic performance showed resilience; Cautious Q2 before vaccine rollout underpins H2 recovery

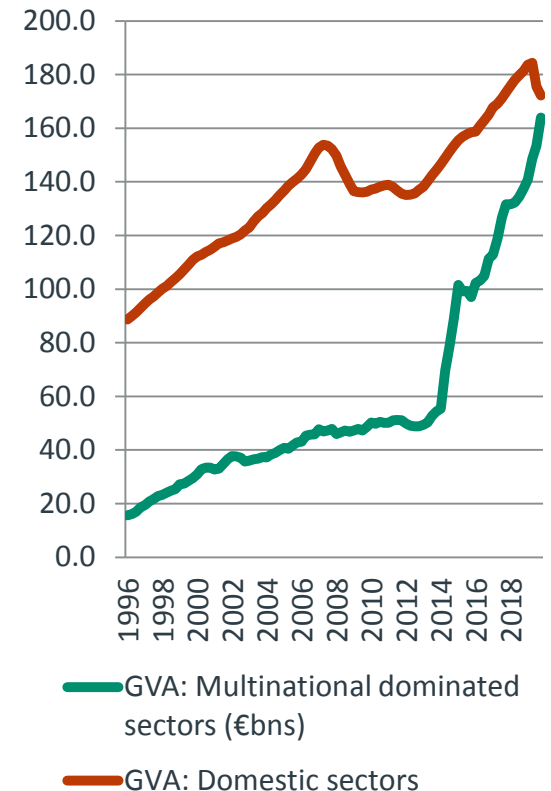
**GDP remained positive in 2020 but domestic sectors hit**



**Unemployment increase as lockdown impacts Q1**



**Value added from ICT & pharma has given Ireland resilience**



Source: CSO

\* Domestic demand series accounts for multinational activity and known as modified final domestic demand (excludes inventories)

\*\* Whether those on government income supports are unemployed is statistically debatable. Some will have left the labour force, others are just temporarily furloughed.

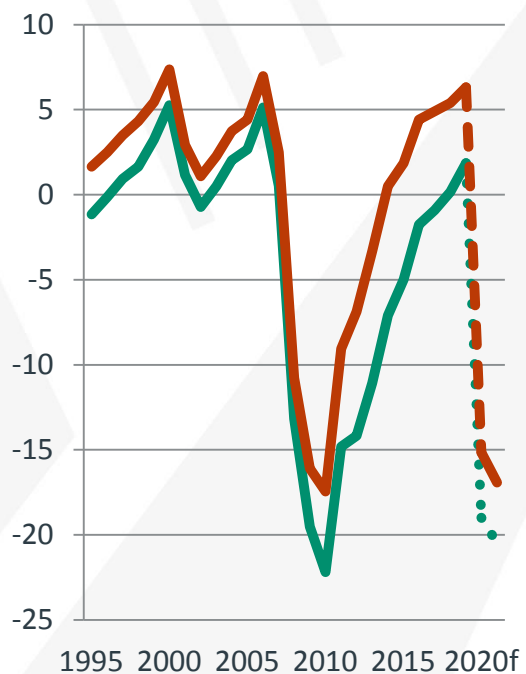


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# Ireland's debt figures to reverse in 2020 and 2021 as large fiscal response needed; Govt. to set path back to balance

Run of primary surpluses before '20 GG deficit c. €19bn



— GG Balance — Primary Balance

Debt position reversed in 2020

Debt-to-GNI\*  
(108% 2020f; 95% in 2019)

Debt-to-GG Revenue  
(259% 2020f; 230% in 2019)

Average interest rate  
(1.9% 2020f, from 2.2% in 2019)

Debt-to-GDP  
(60% 2020f, from 57% in 2019)

Debt fell from 166% to 95% of national income pre-Covid



— Debt to GNI\* — Debt to GDP



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Source: CSO, Department of Finance

^ due to GDP distortions, Debt to GDP is not representative for Ireland, we suggest using other measures listed.

# Covid-19 and Ireland: significant hit to domestic economy followed by powerful policy response

## Recession

Ireland (ex. Multinationals) is in recession. But income levels have been maintained through government action.

Current lockdown will impact Q1 but smaller than initial lockdown.

## Exposure

Ireland's domestic economy hit hard like others but internationally-traded sectors (Pharma/ICT) have thrived.

Proposed OECD corporation tax reform may impact IE economic model in the medium term.

## Policy

Significant stimulus announced equivalent to 19% of GNI\* over 2020 and 2021.

ECB and Fed actions should cap interest costs and allow necessary fiscal room.

# NTMA has indicated a funding plan of €16 - €20bn for 2021 €7bn already funded this year

## Flexibility

Ireland has large cash balances and a year free of maturing bonds in 2021.

In addition to bond funding, Ireland received €2.5bn in EU Sure funding in Q1.

## >10 years

Weighted average maturity of debt one of longest in Europe.

The ECB's first QE program enabled NTMA to extend debt maturities and reduce interest cost. Now ECB buying in large amounts with few limitations.

## AA-

Ireland has been affirmed in AA space by S&P.

On relative basis, hit to Ireland less than for other countries given multinationals, relatively smaller domestic share of economy and tourism.



An aerial night photograph of a city, likely Dublin, featuring a large bridge with green lights over a river, and modern glass-fronted buildings in the background.

# Section 1: Macro

Domestic economy hit hard by restrictions but  
resilience shown in income, tax and exports  
data

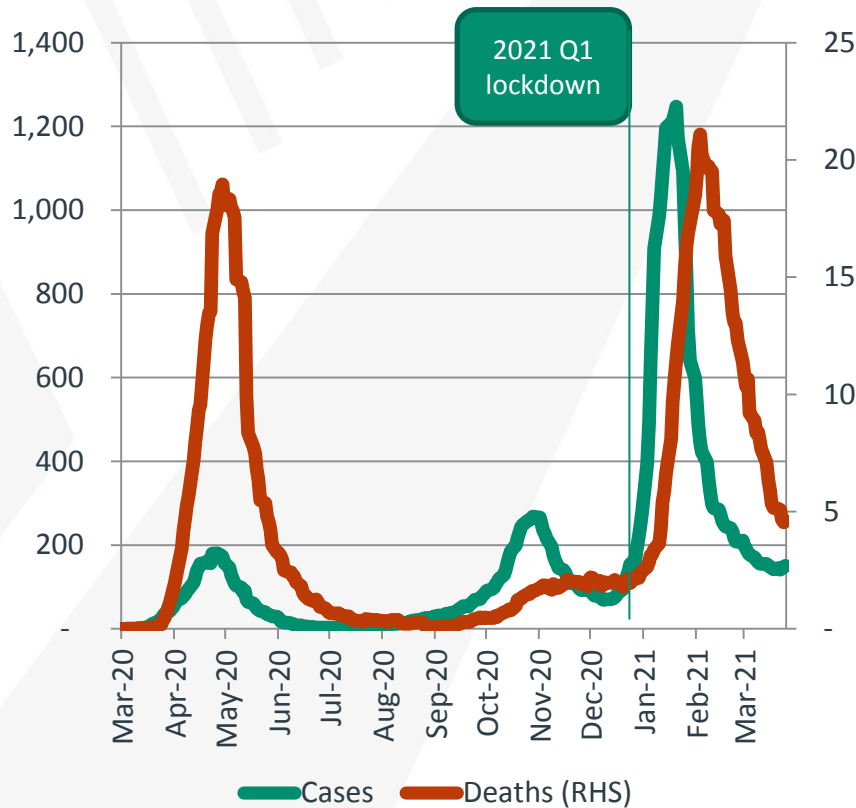


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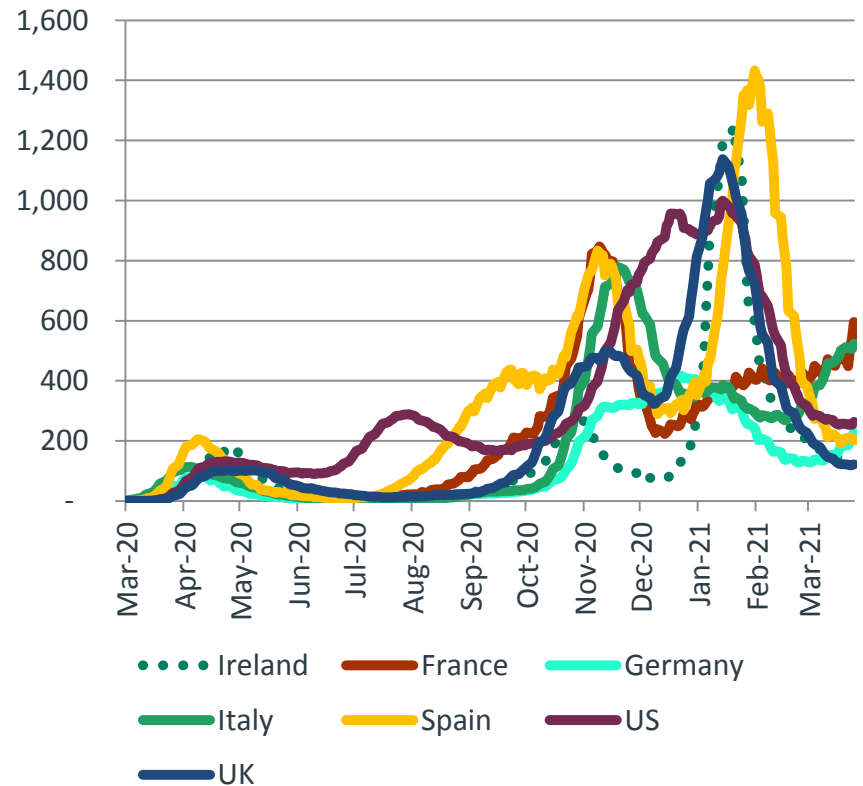


# Current lockdown has stabilised case numbers; restrictions in effect until April 5; cautious thereafter

14 day cumulative Covid-19 cases/deaths  
per 100k of population

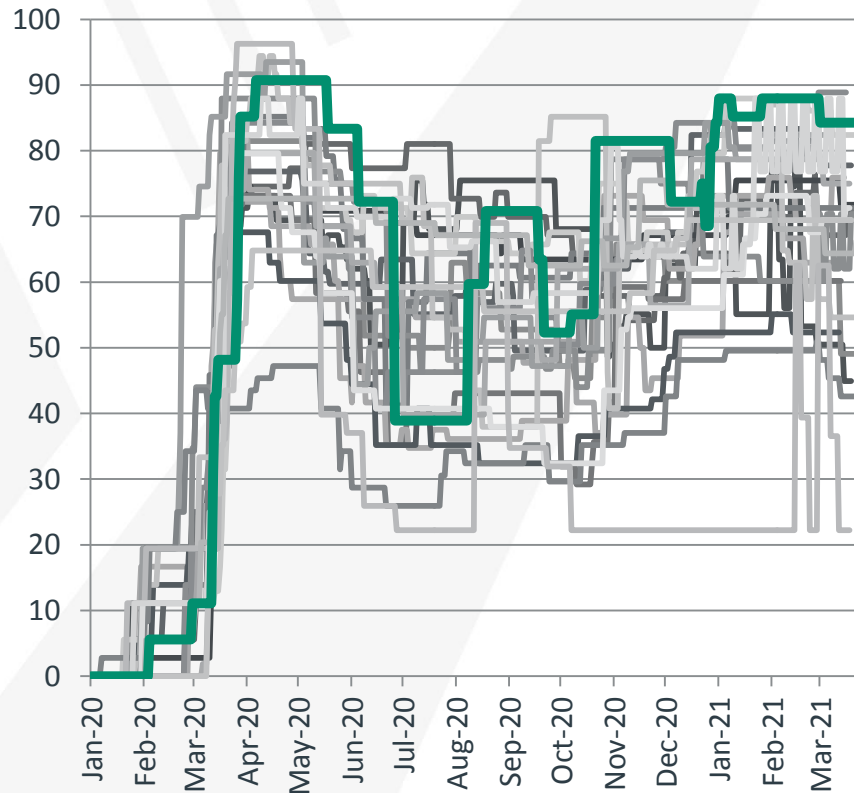


Ireland case numbers versus other countries  
(per 100k of population)

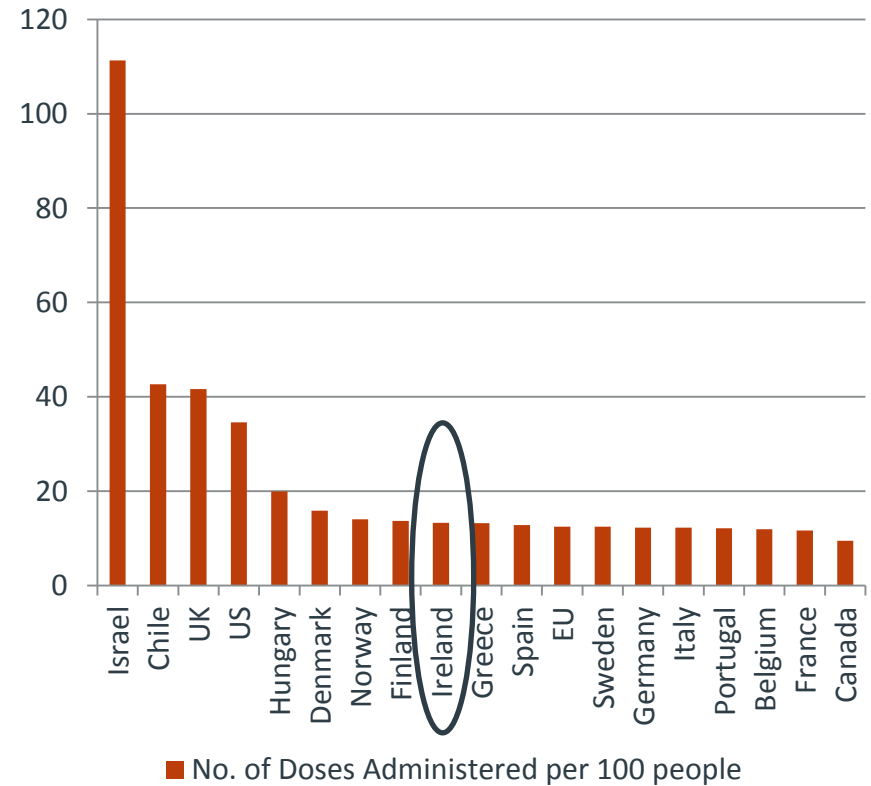


# Covid policy has been cautious while the vaccine rollout progresses

**Oxford Stringency Index (0-100 scale)**  
Ireland strict comparatively incl. at present

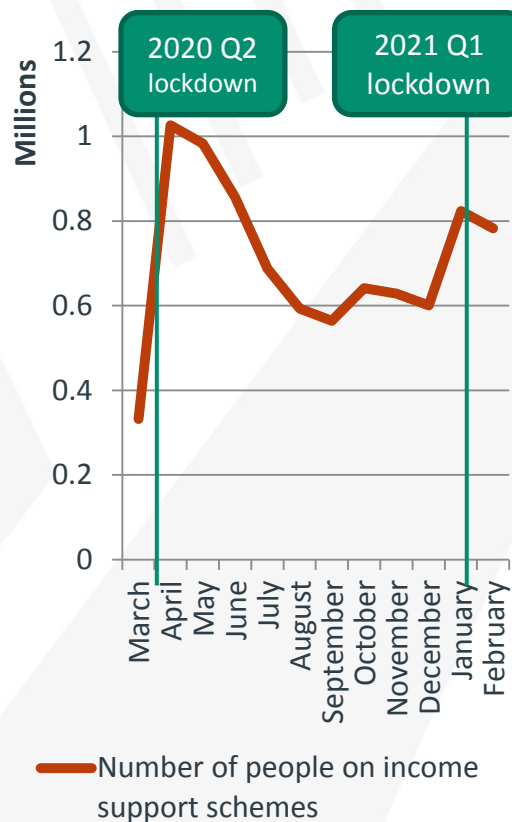


**Ireland's vaccine rollout – better than EU average but lagging the front runners**

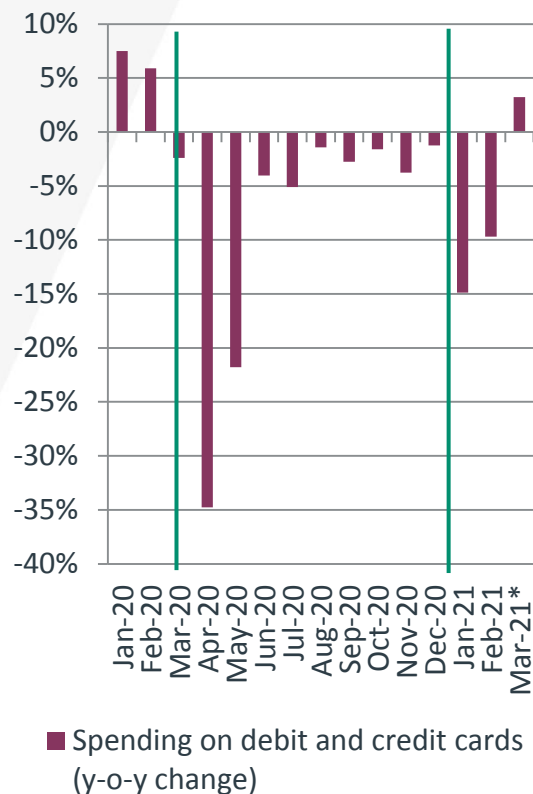


# The effects of the Q1 lockdown are evident but not as severe as the initial Covid lockdown

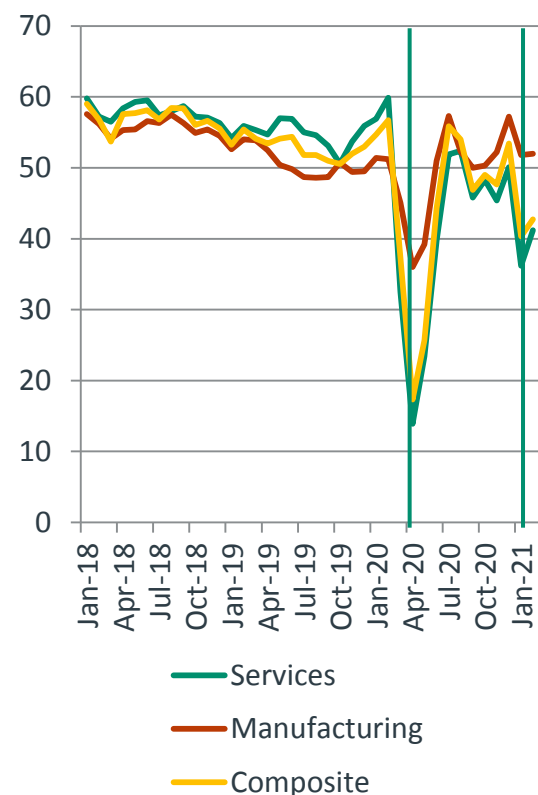
Those on government supports well below levels seen in Q2 2020



Spending fell sharply in Jan. but has since recovered

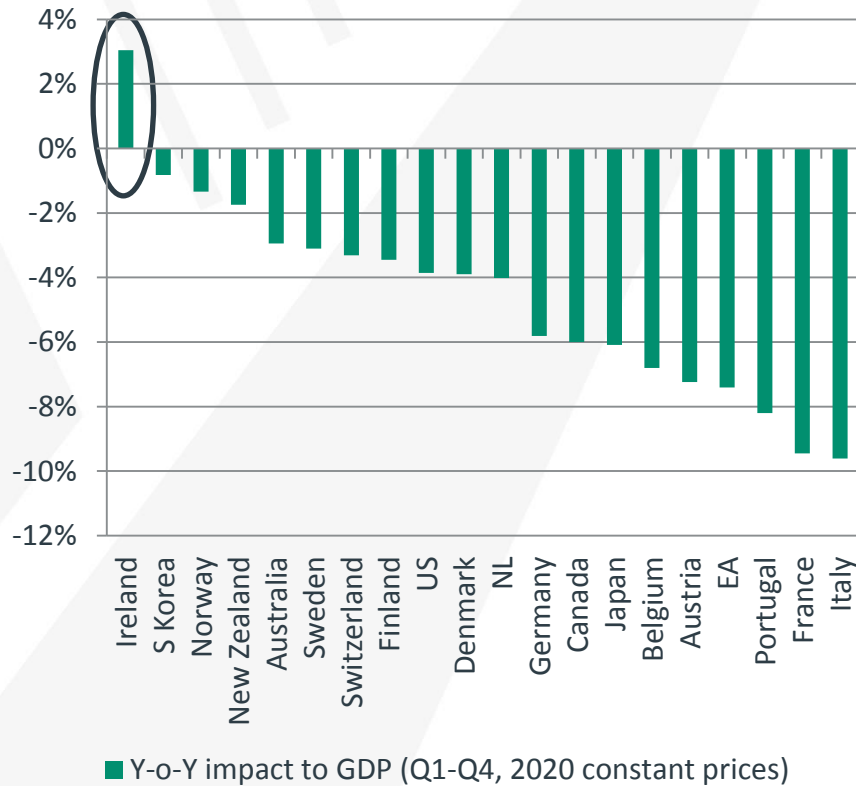


Q1 Hit to PMIs not as great as during the first Covid shock

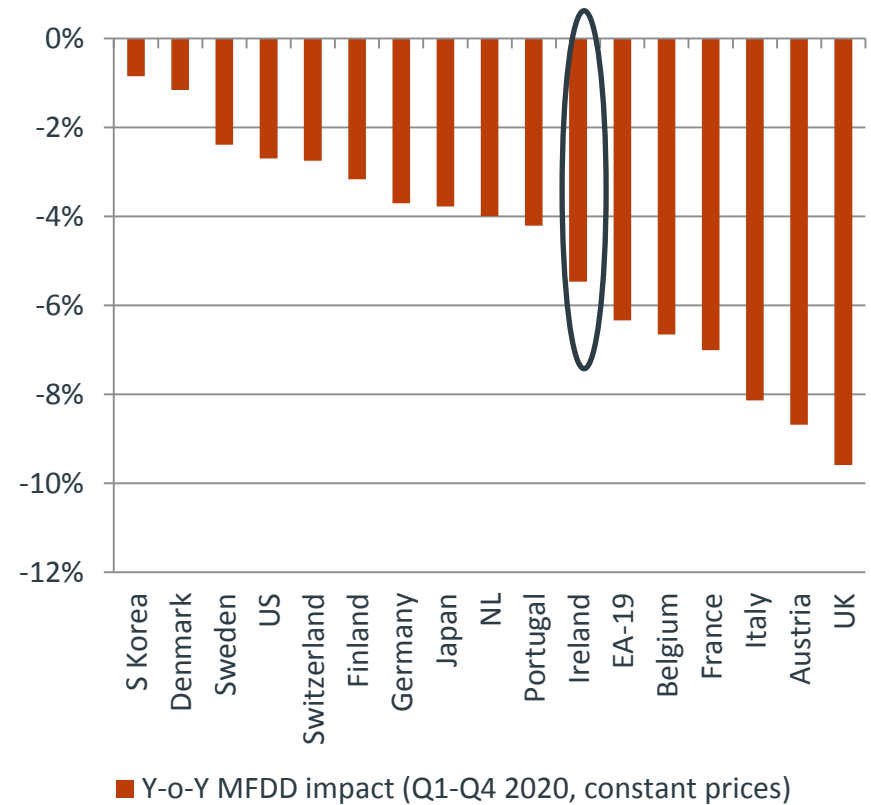


# On a relative basis Ireland performed well in 2020 – thanks to ICT (tech) and pharmaceutical firms

Real GDP up 2.5% Y-o-Y in 2020 for Ireland:  
GDP overstates impact of multinationals

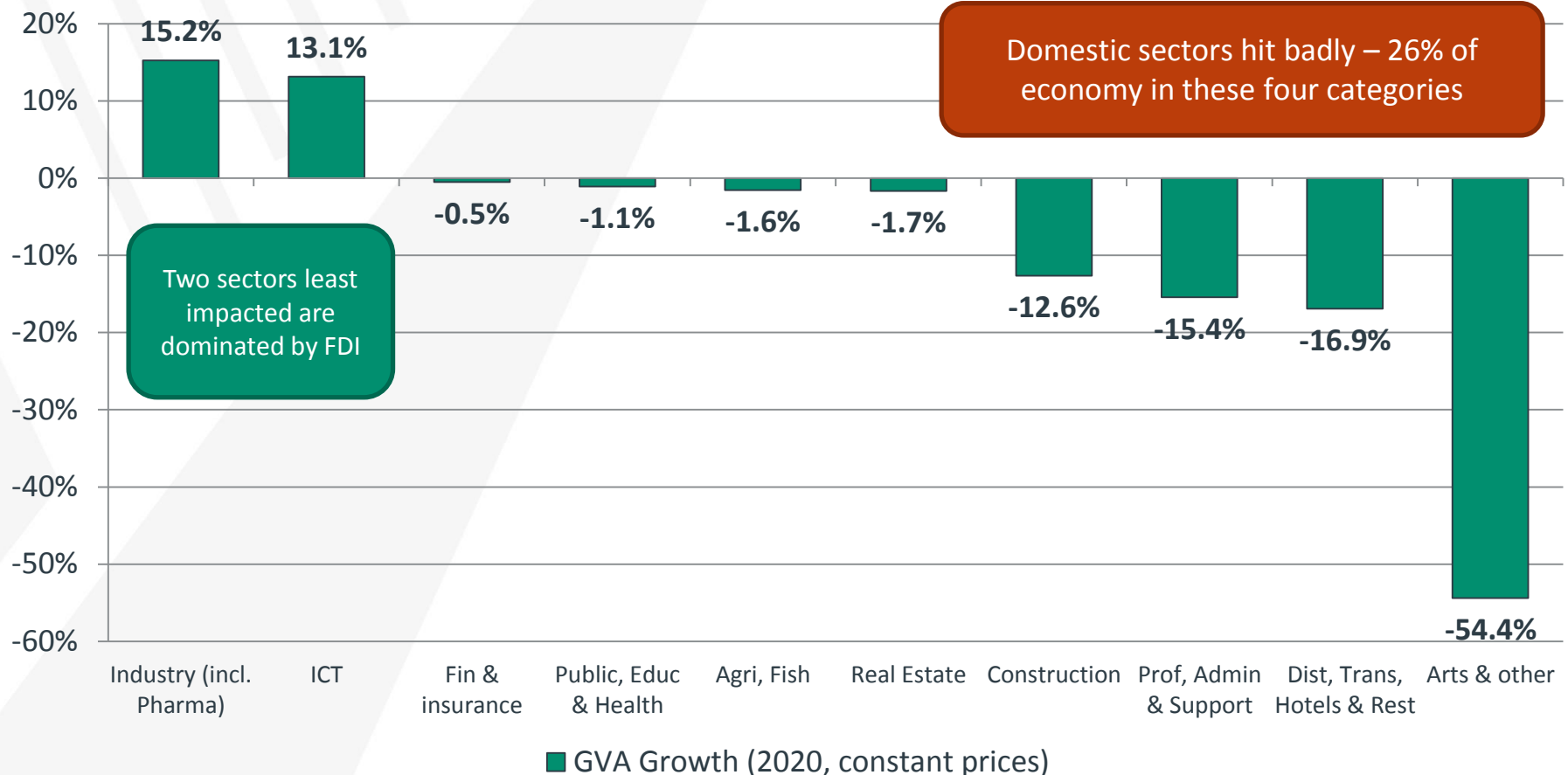


Real MFDD down 5.4% Y-o-Y in 2020: MFDD understates impact of multinationals



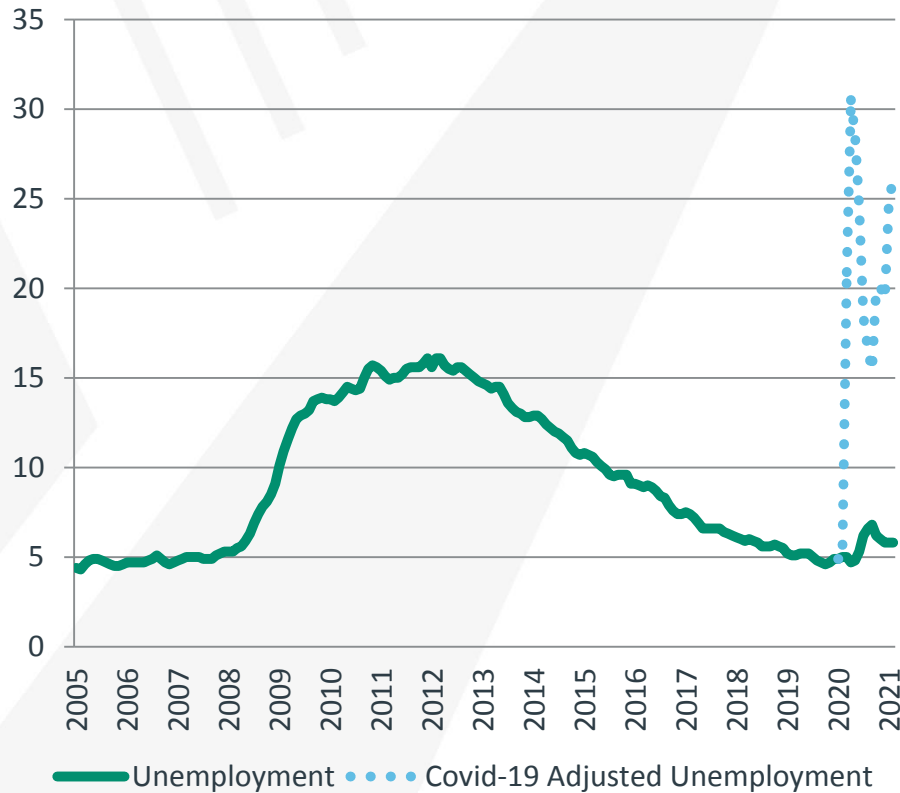


# Sector breakdown for 2020 – Multinationals racing ahead, domestic side hit hard

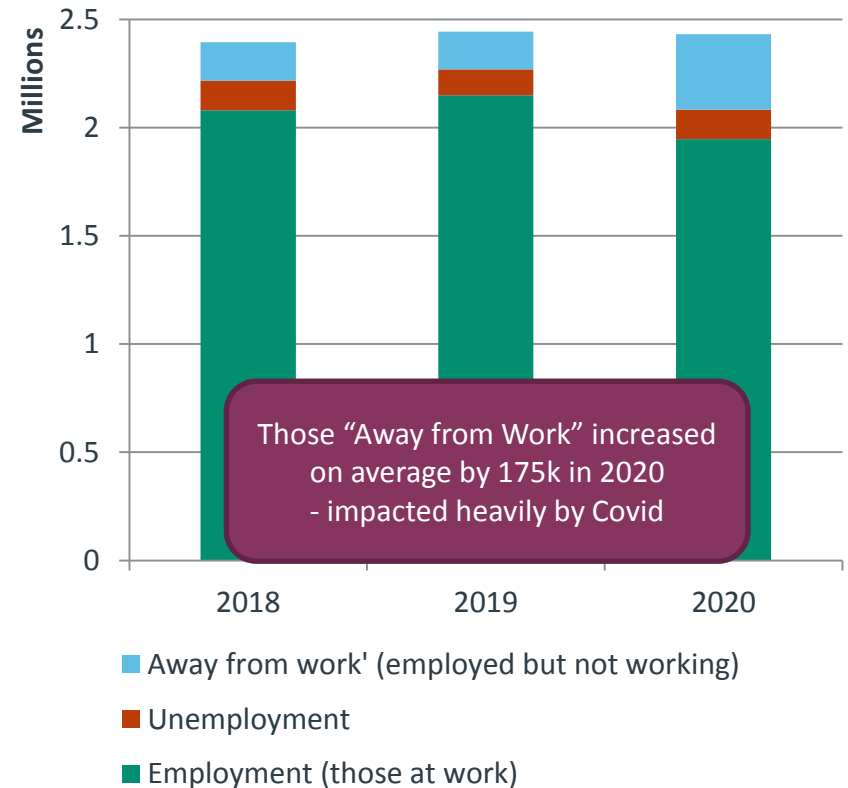


# Labour market data shows stark Covid-19 impact; 2021 has seen a reversal in unemployment rate

True unemployment rate is uncertain:  
Covid-19 adjusted rate 25%\* in February



10% fall in actual hours worked per week in 2020; MDD fall smaller due to productivity mix



Source: CSO

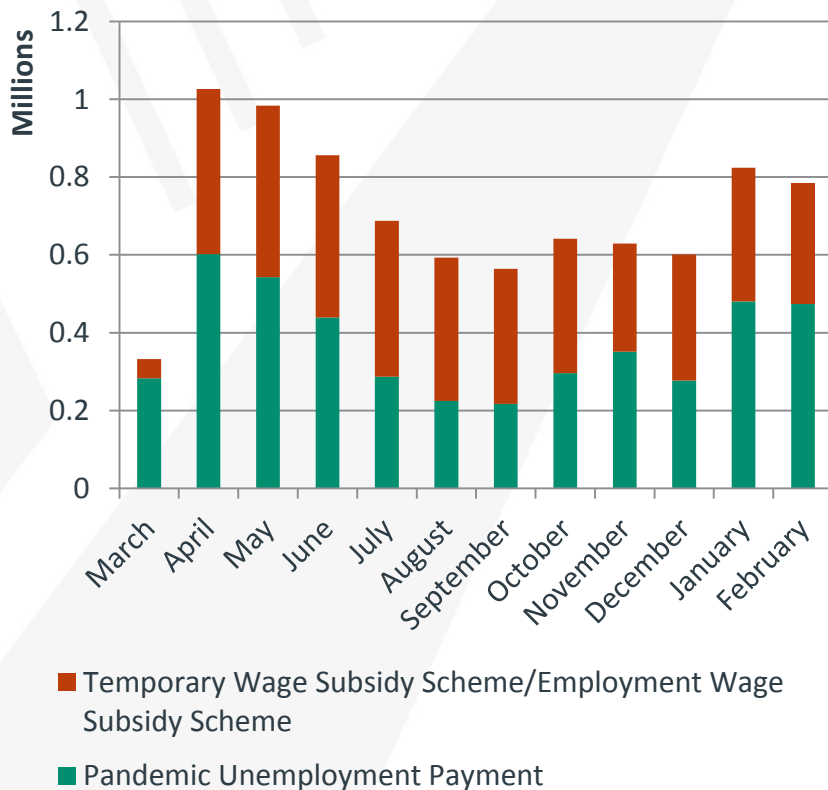
\* The CSO have estimated the upper bound of the unemployment rate at 24.8% in January. The CSO have urged caution around labour market data given the likelihood of revisions and the unique nature of employment status for some people in the pandemic.



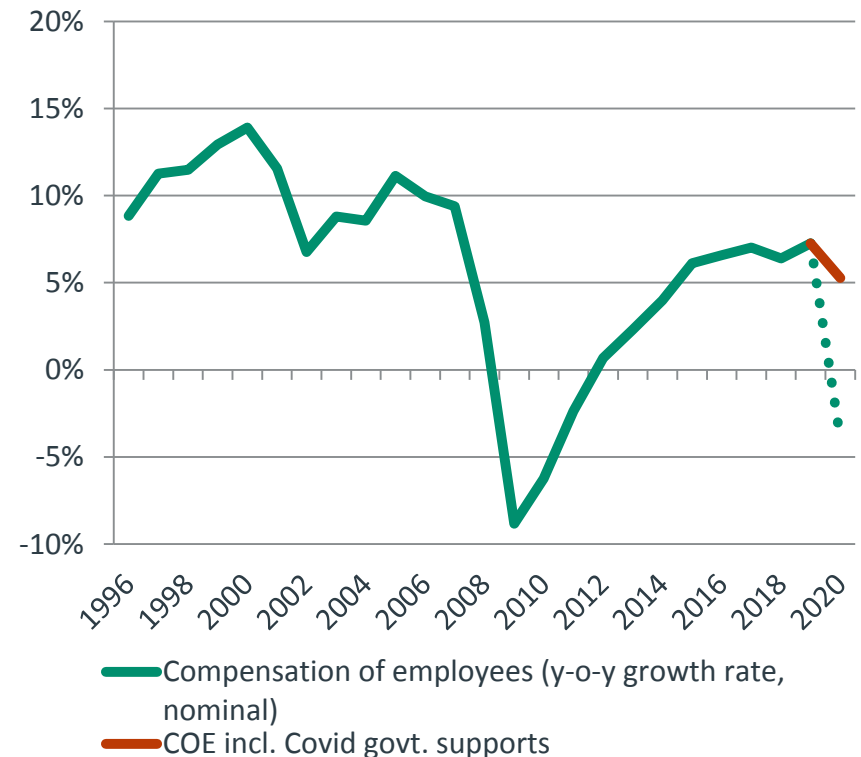
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# Approx. 800k on income support in Jan/Feb as lockdown in place; schemes maintain aggregate household income

Those on the PUP and EWSS likely to remain at current level for March

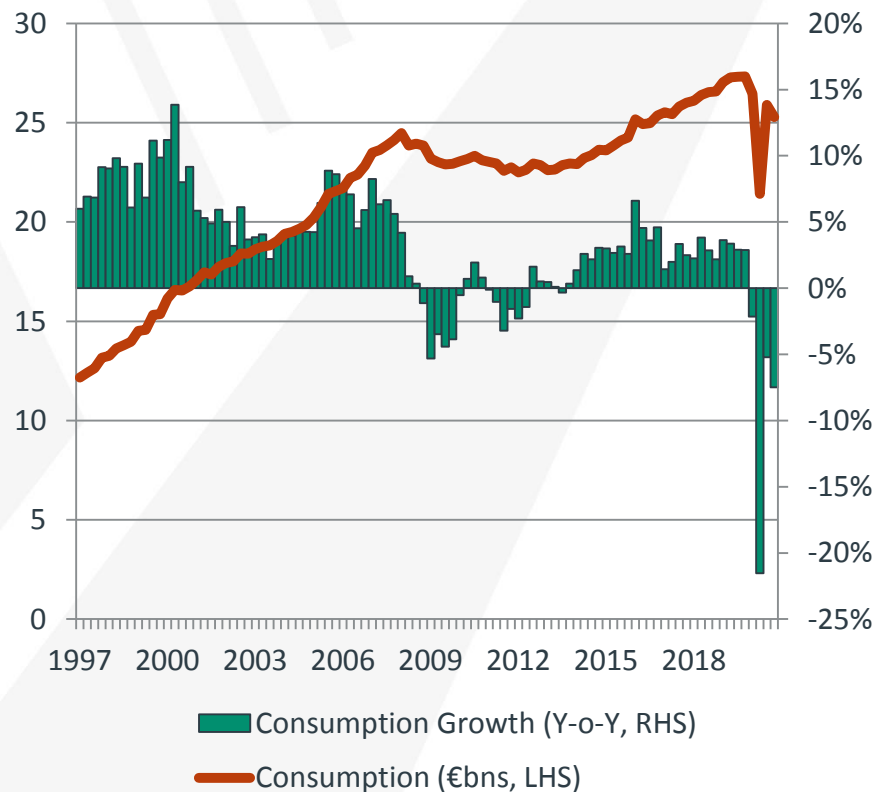


Supports mean compensation of employees actually grew in 2020 (aggregate basis)

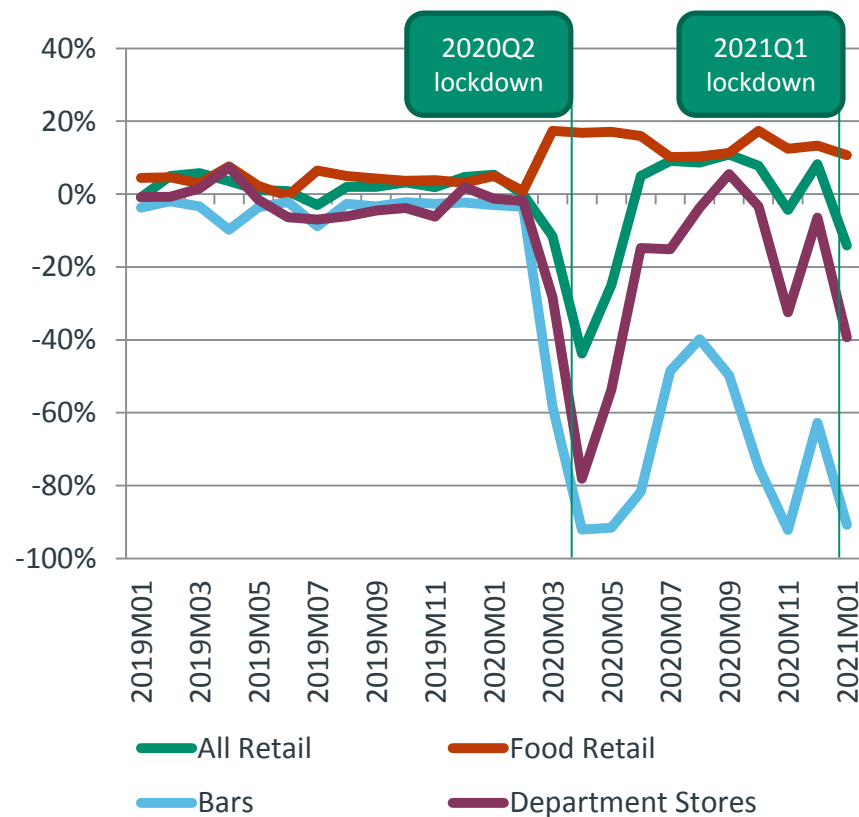


# Consumption fell sharply in 2020 – down 9.1% versus 2019 despite incomes being maintained

Consumption sharply hit in Q2: Q4 saw a step back from Q3 level – down 9.1% y-o-y



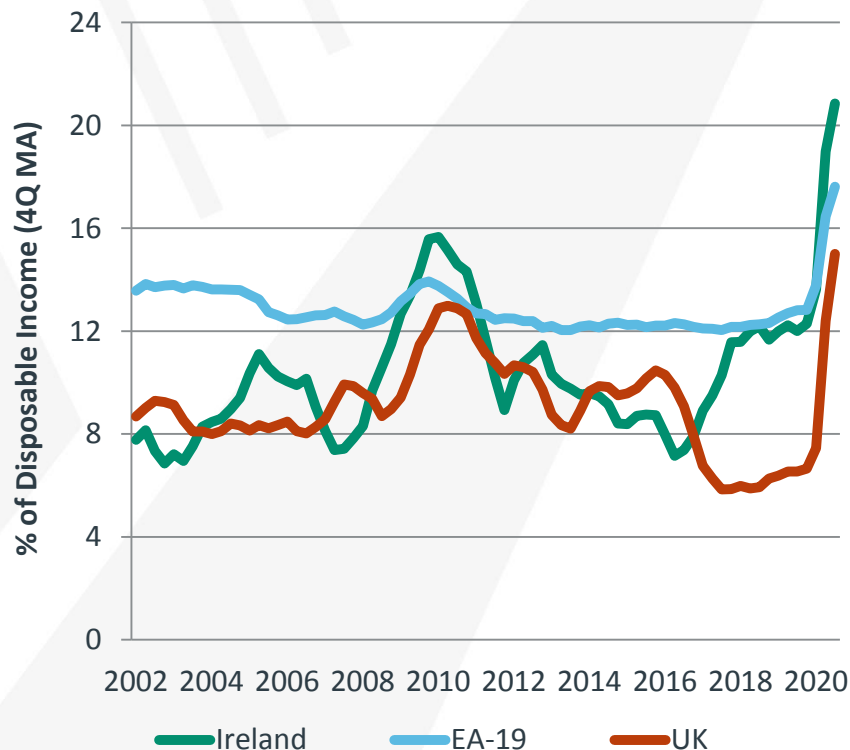
Retail sales numbers volatile on switch in and out of lockdown



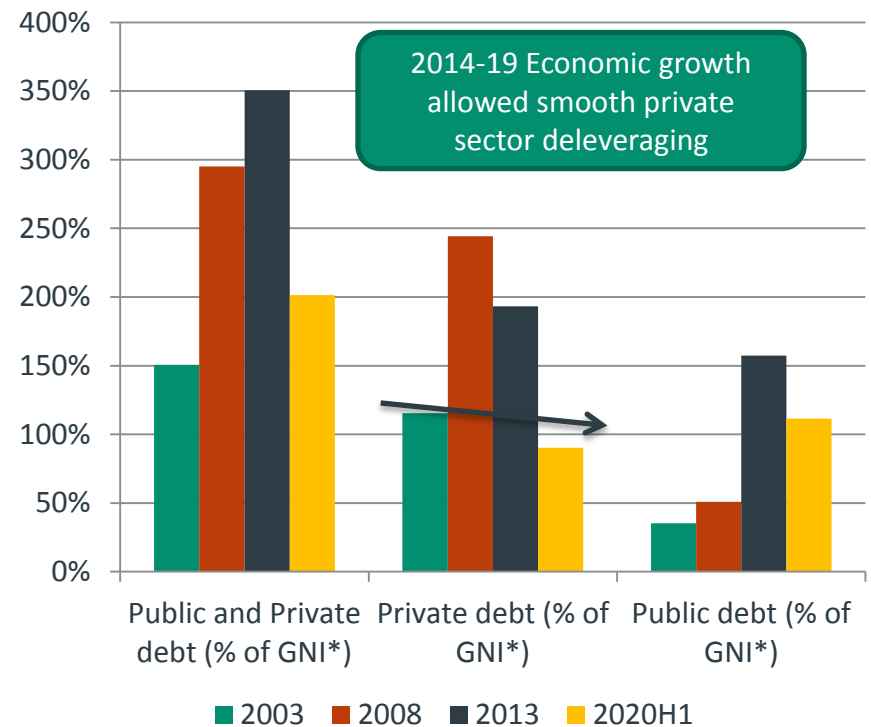


# Household balance sheets in stronger position: debt levels much lower coming into pandemic + new Covid savings

**Gross HH saving rates jumped 2020 on back of forced savings – IE larger than most**



**Legacy of 2008-12 financial crisis is on the Government balance sheet**



Source: Eurostat, ONS, CSO ; CBI,

Note: Gross Savings as calculated by the CSO has tended to be a volatile series in the past, some caution is warranted when interpreting this data

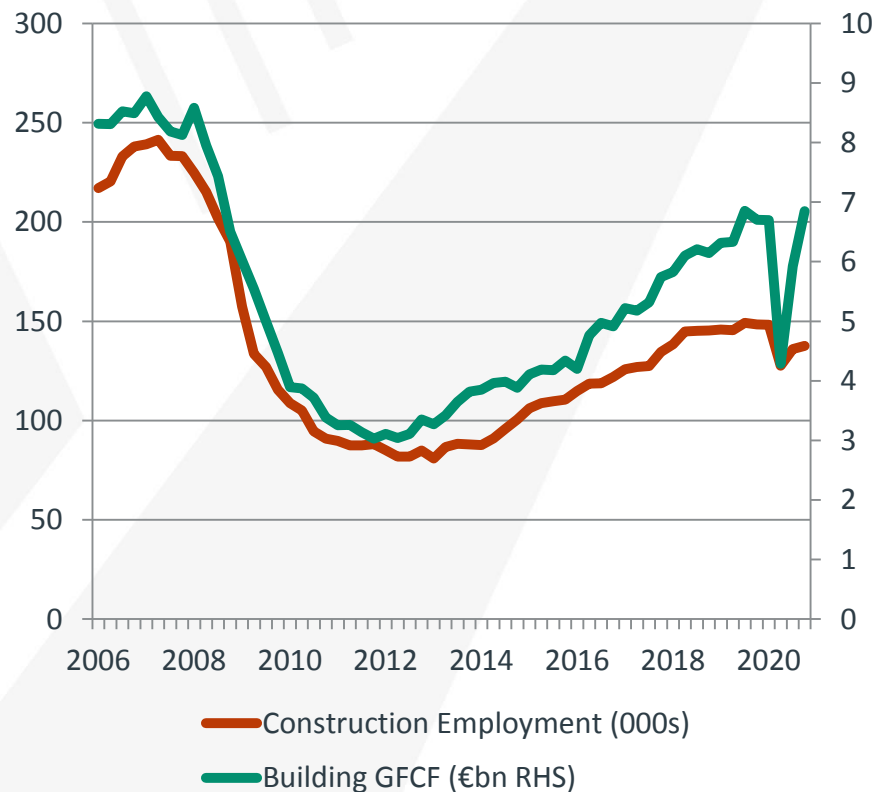
Note: Private debt includes household and Irish-resident enterprises (ex. financial intermediation) CBI quarterly financial accounts data used for household and CSO data for nominal government liabilities.



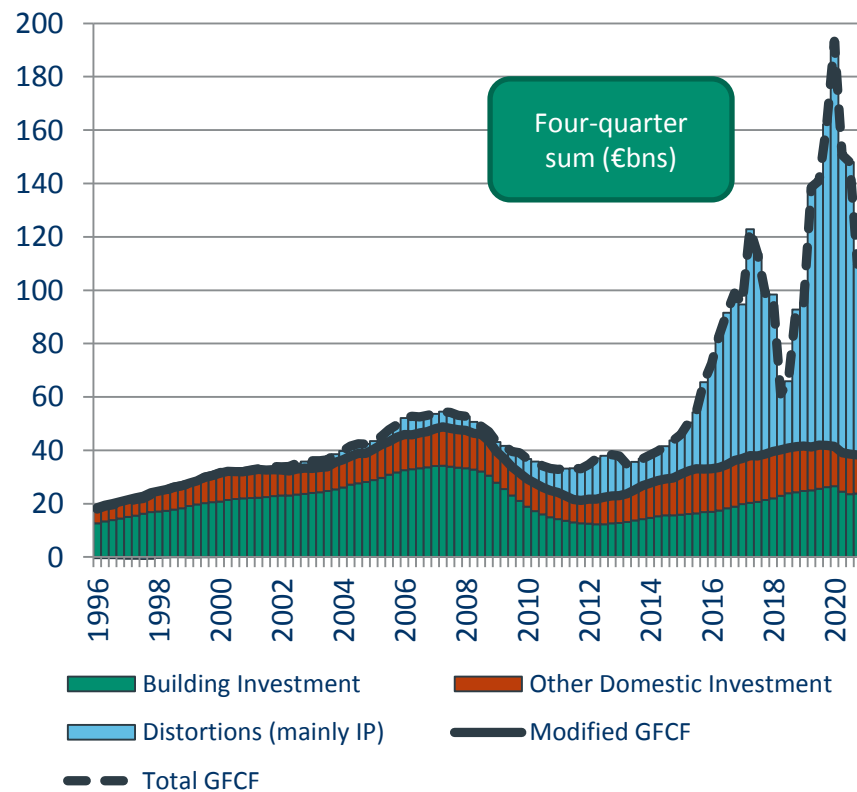
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# Investment hit as construction sector has moved in & out of lockdown; closed in Q1 but likely to open in Q2

Employment in construction remained down in Q4 2020 but investment has rebounded



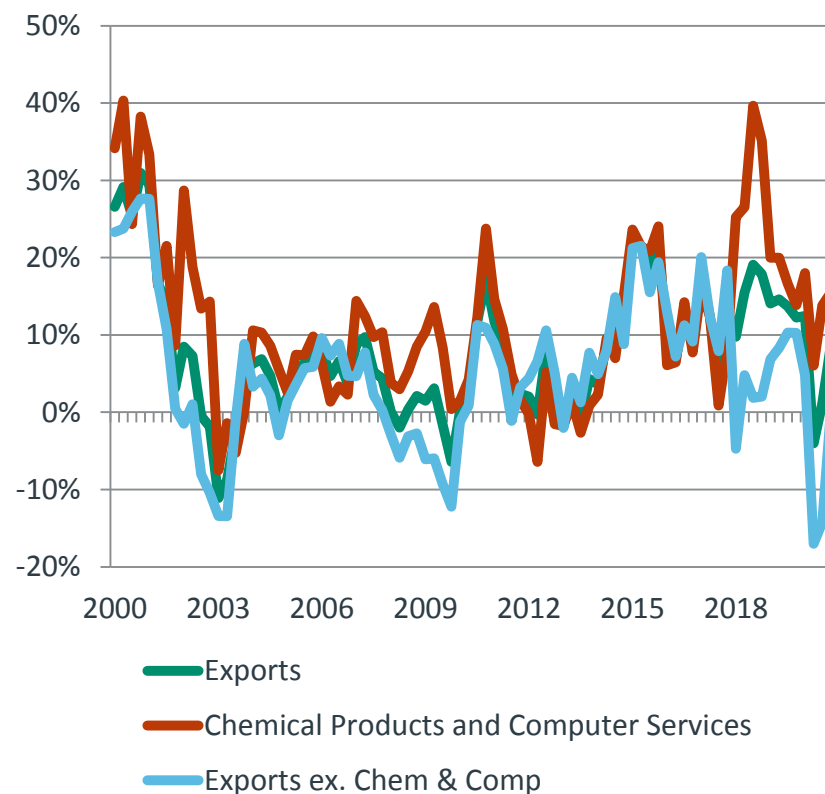
Another surge of IP into Ireland in 2019-2020 – helps ICT but distorts investment picture



# External environment supportive – 2021 should see the global economy rebound given large stimulus & vaccines

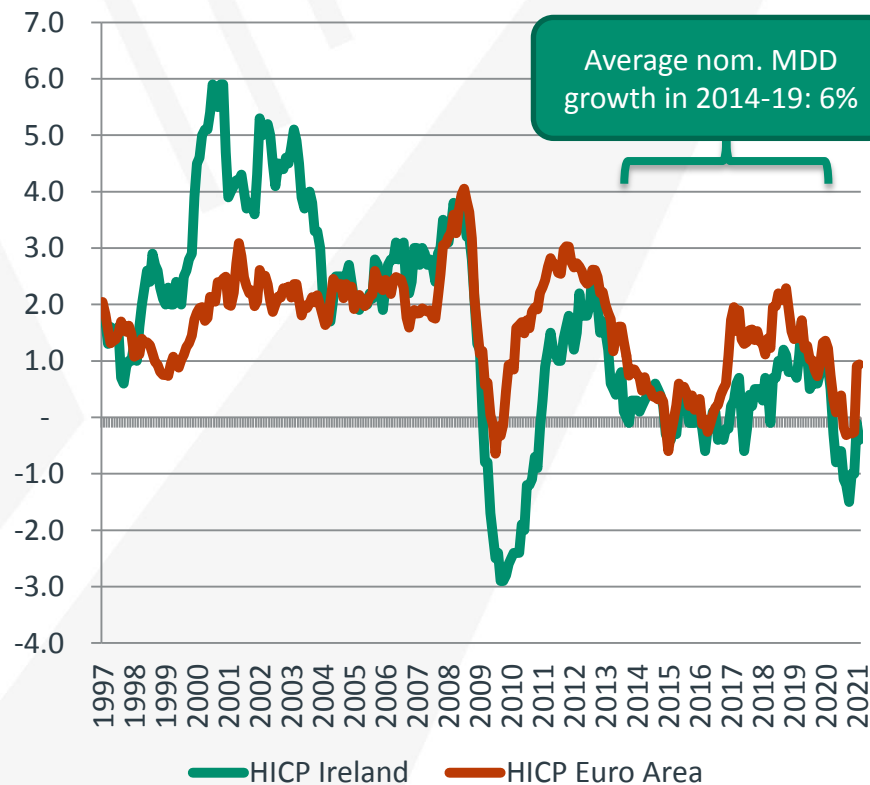
	2020	2021
EA Monetary Policy	Maximum accommodative	Maximum accommodative
EU Fiscal Policy	Expansionary	Expansionary
US Monetary Policy	Maximum accommodative	Maximum accommodative
US growth	Covid-19 shock	Rebound
Oil price	Significantly down despite rebound	Rising but contained
UK growth	Covid-19 shock; Brexit unresolved	Brexit resolved; Rebound
Euro Growth	Covid-19 shock	Rebound
Euro currency	Strengthening vs. Dollar	Unclear

## Exports driven by demand for multinationals products – Pharma. and Tech

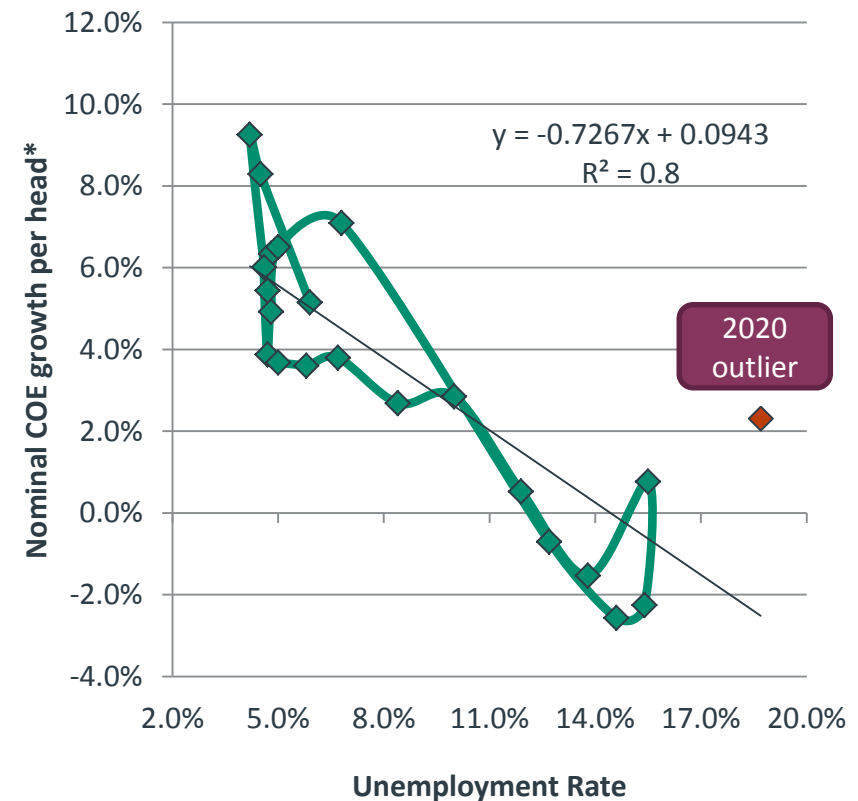


# Philips curve relationship has held in the past in Ireland but not recently and we are some way off full employment

Inflation subdued in Ireland for close to a decade despite strong growth



Full employment has led to inflation in past but a long way from there currently





# Section 2: Fiscal

Revenues have held up well with deficit  
expansion nearly all spending related



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# Fiscal policy response was swift in 2020; Conservatism in Budget 2021 allows for continued flexibility

## Response

Total fiscal response of €38bn over 2020 and 2021 (19% of GNI\*) is large.

Ireland has responded to Covid with first attempt at counter-cyclical fiscal policy in its 100 year history.

## Revenues

Ireland's economic structure has meant revenues have held up despite Covid-19.

Strength of both Corporate and Income tax revenues from multinational sectors has helped sustain government coffers.

## Debt

Debt ratios will reverse due to Covid.

Gross Government debt 57% of GDP at end-2019 but close to 95% of GNI\*. Ratios were c.60% and 108% for end-2020.



# Large fiscal response of €38bn over 2020/21 (19% of GNI\*)

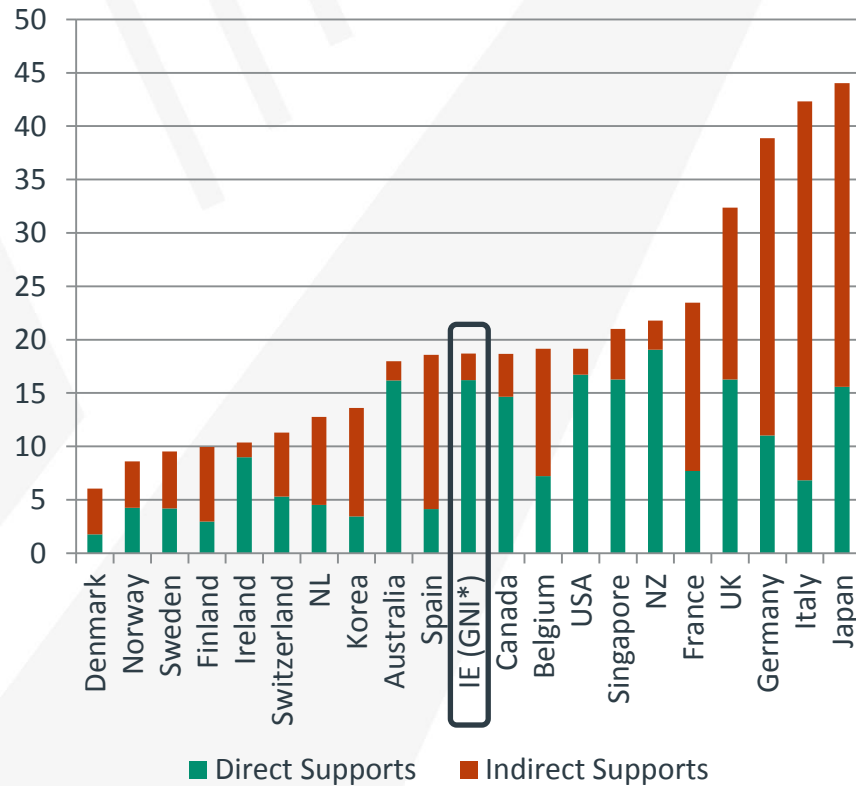
## €5.5bn contingency to help with lockdown costs

	€bn	2020	2021	% GNI*	Description
<b>Taxation Measures</b>	<b>4.1</b>	<b>3.4</b>	<b>0.7</b>	<b>2.1</b>	
• Warehousing/Deferrals	2.0	2.0	0.0	1.0	Corporate Tax, VAT, Stamp duty tax deferrals
• Other	2.1	1.4	0.7	1.1	Temporary VAT decrease; hospitality VAT decrease, CRSS
<b>Expenditure Measures</b>	<b>28.7</b>	<b>16.8</b>	<b>11.9</b>	<b>14.1</b>	
• Social Protection (income supports)	13.6	10.4	3.2	6.7	PUP/TWSS extended into 2021; TWSS transforming into EWSS
• Health	4.4	2.5	1.9	2.2	Covid-19 capacity expenditure
• Business Supports	1.0	0.9	0.1	0.5	Business supports, Grants, Education, Arts, Tourism and Transport
• Housing, Local Govt	1.2	1.1	0.1	0.6	Commercial Rates waivers
• Other	8.5	1.9	6.6	4.2	Help-to-Buy, other grants and aids, Recovery Fund, <b><u>Covid contingency response</u></b>
<b>Total Direct Supports</b>	<b>32.8</b>	<b>20.2</b>	<b>12.6</b>	<b>16.2</b>	
Indirect supports	5.0	5.0	0.0	2.5	Credit Guarantee Scheme, Pandemic Stabilisation and Recovery Fund, other schemes
<b>Total Supports</b>	<b>37.8</b>	<b>25.2</b>	<b>12.6</b>	<b>18.7</b>	

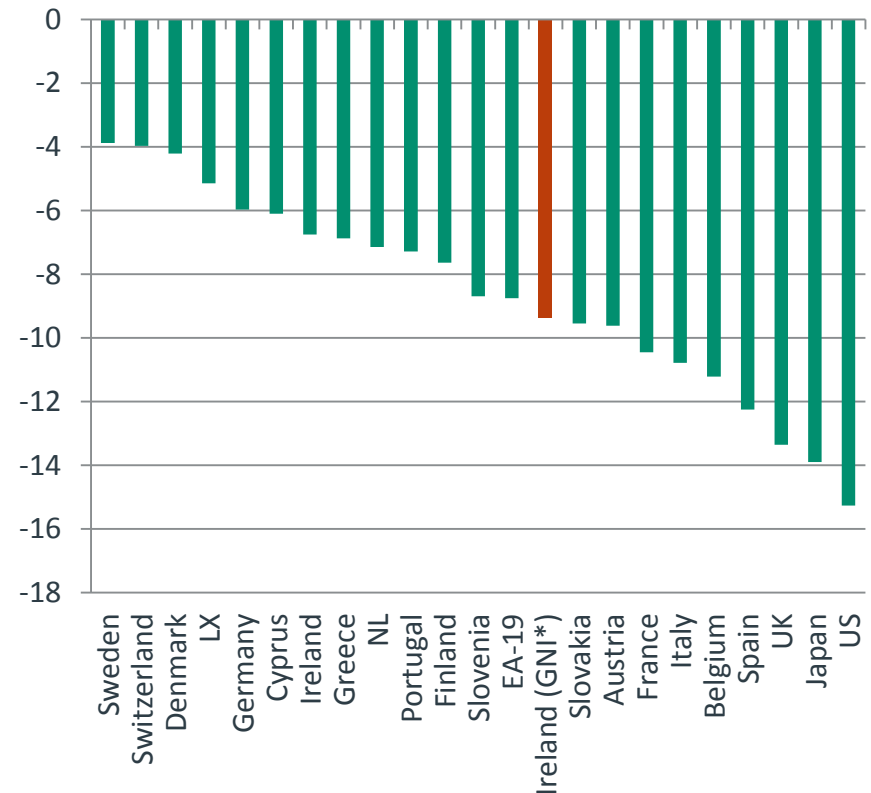


# Ireland fiscal response highly skewed to direct supports - one of highest % in EU for direct support

Combined 2020/21 Covid-19 fiscal response  
(% of GDP/GNI\*)



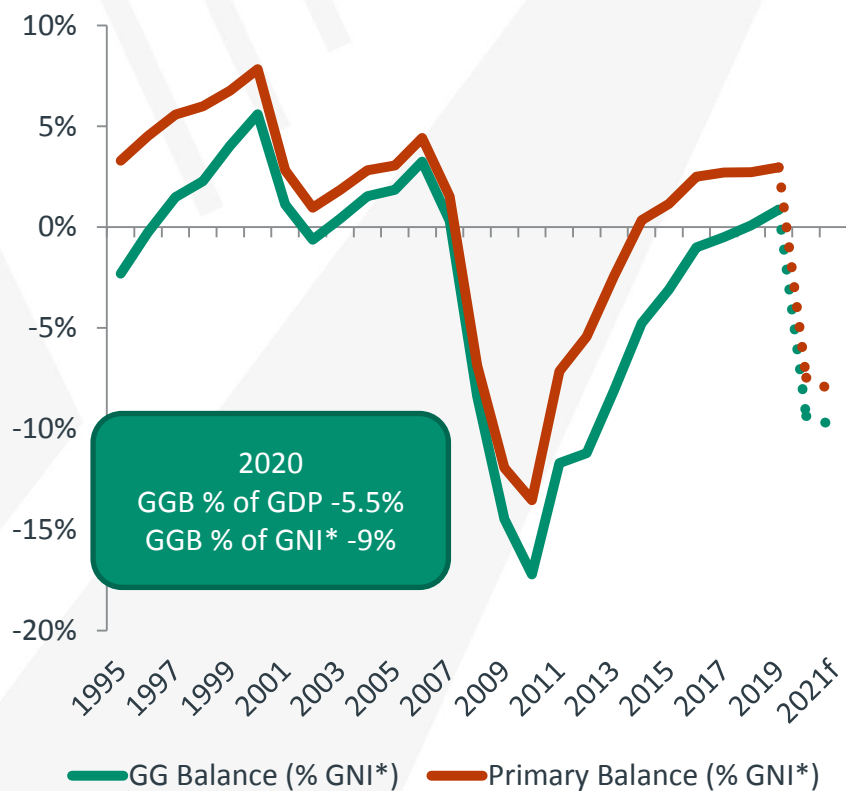
2020 General Government Balance – Ireland close to Euro Area average (% of GDP)



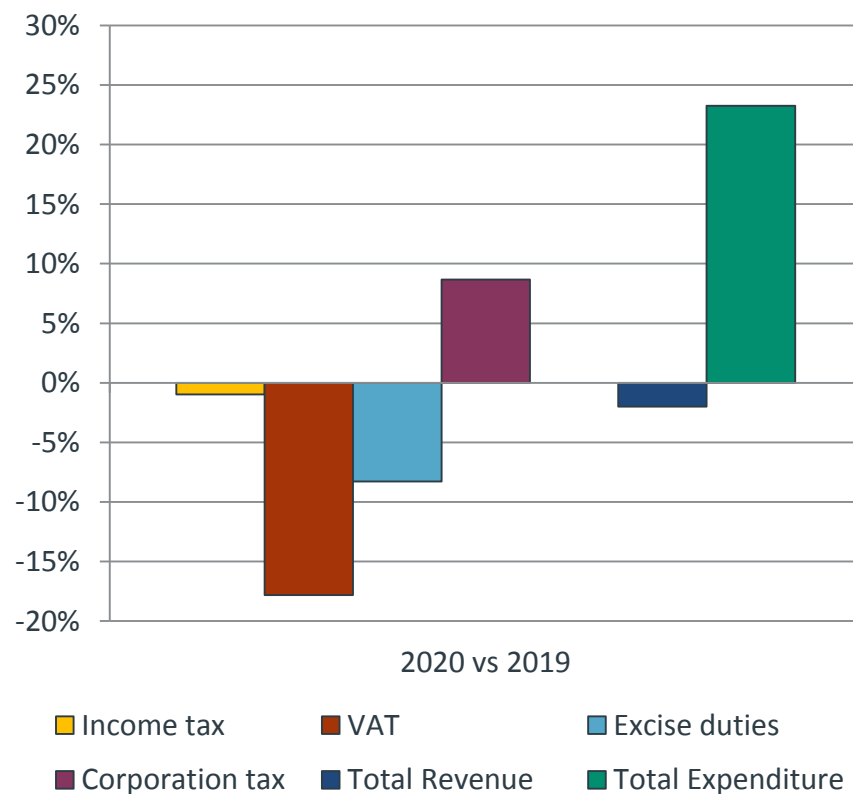


# Fiscal discipline in evidence in last decade – after Covid-19 stimulus ends Ireland plans to narrow its deficit again

**Gen. Govt. Balance (% of GNI\*) will be in significant deficit in 2020/21<sup>^</sup>**

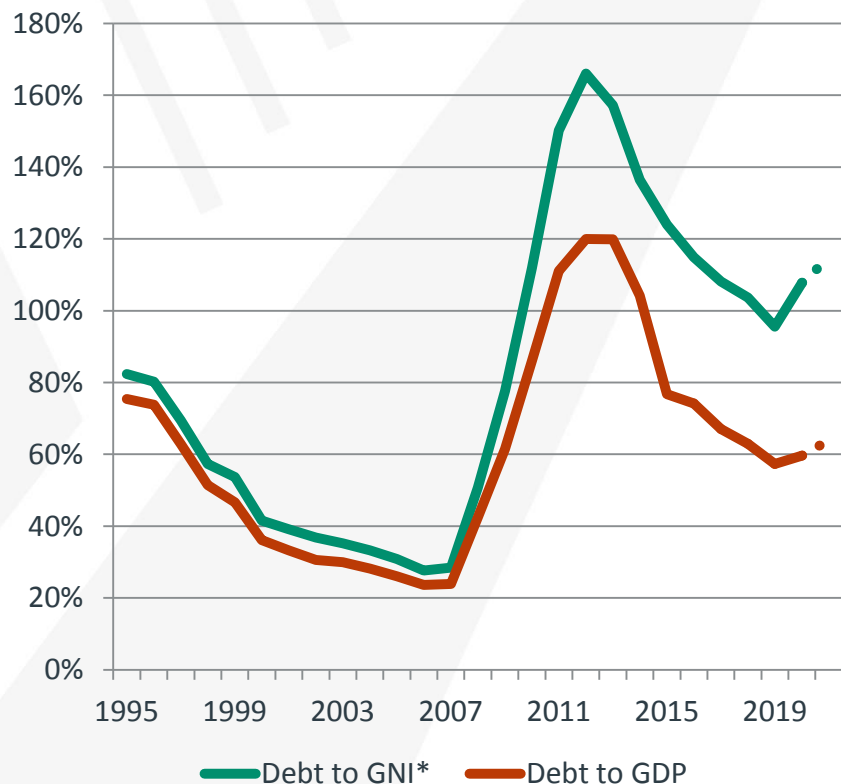


**Revenues holding up despite pandemic; Deficit mostly due to expenditure increase**

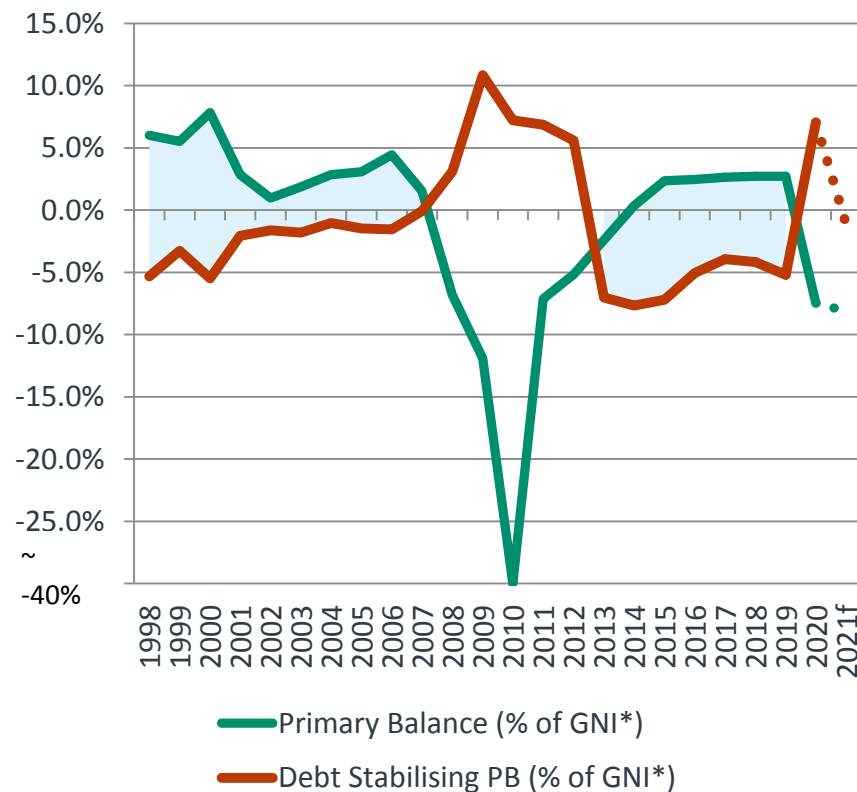


# Gross Government debt c. 60% of GDP at end-2020 but close to 108% of GNI\*

Debt-to-GNI\* had dropped since last crisis; could increase 20pp in coming years

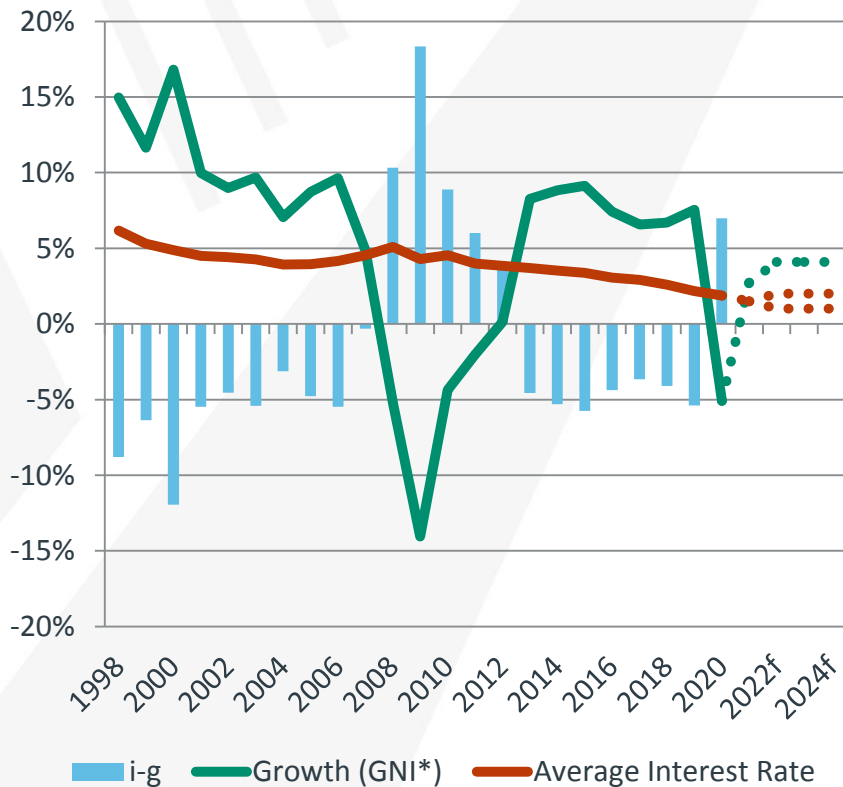


Primary balance main contributor to debt ratio deterioration

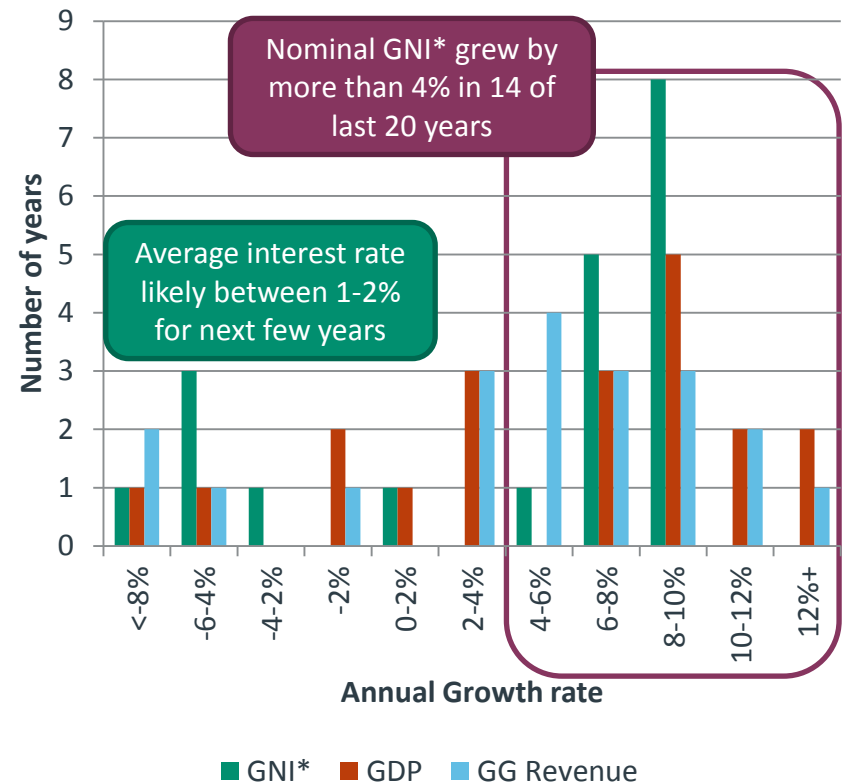


# Low interest rates coupled with reversion to growth may see helpful “i-g” snowball effect on debt ratios

With low rates locked in, Ireland’s “hurdle rate” for a positive snowball effect is low

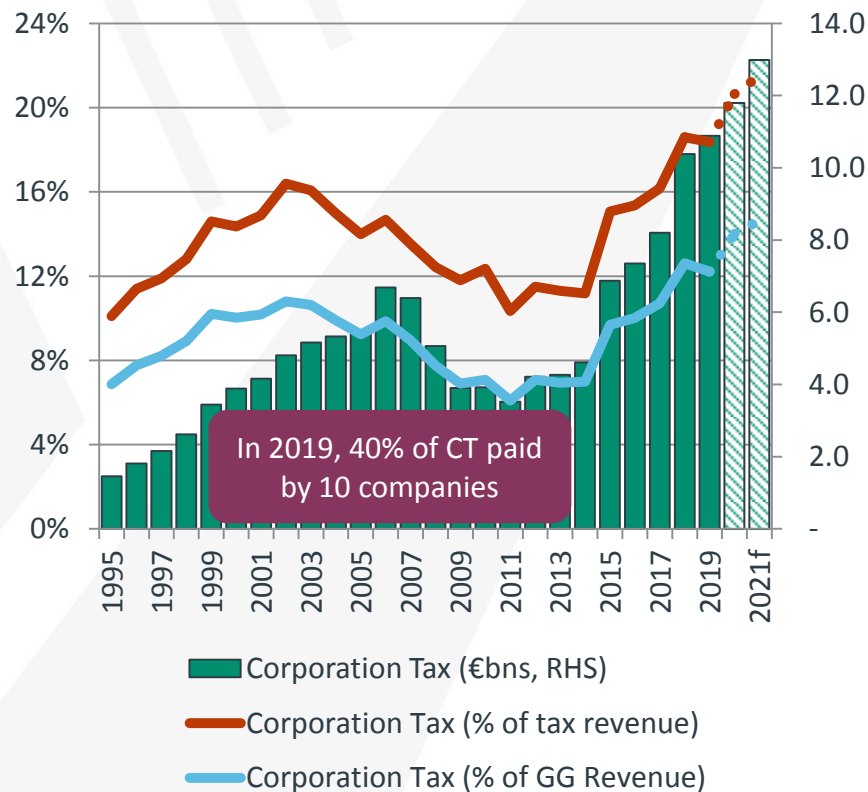


Histogram of Ireland’s recent growth history (2001-2020)

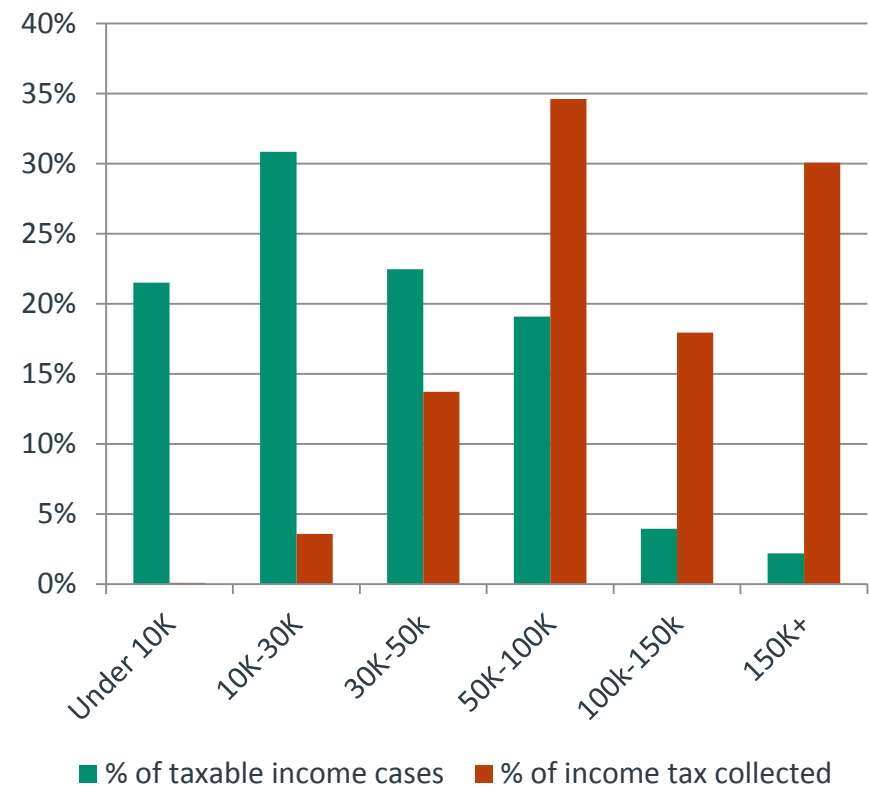


# CT revenue cushioned by 2019 payments and defensive nature of Pharma and ICT; income tax protected also

## Corporation tax (CT) receipts continue to rise – have nearly tripled in 6 years

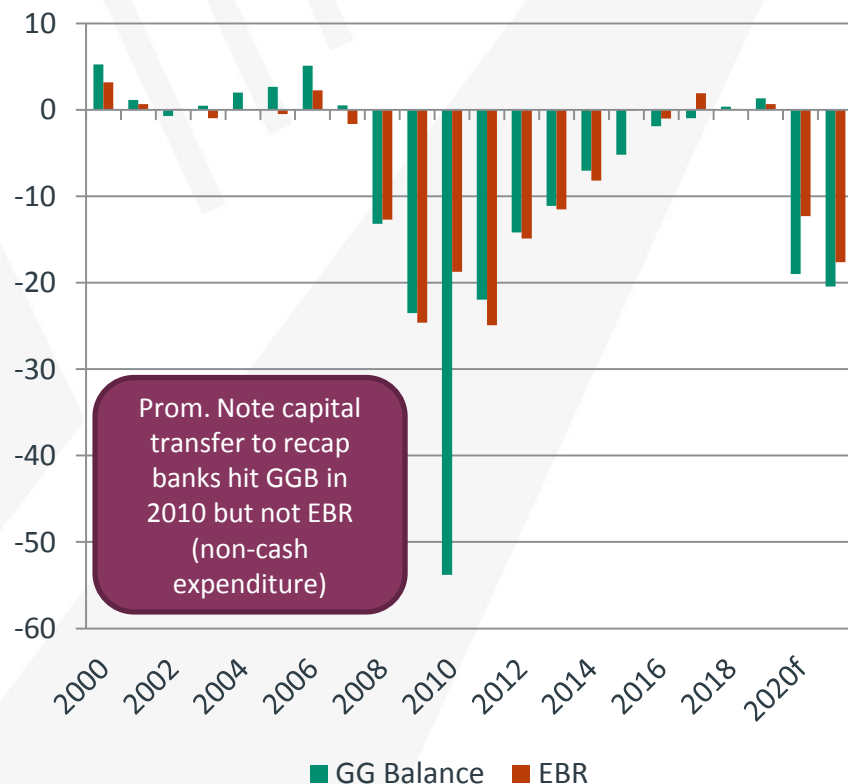


## Progressiveness of income tax system and sector mix limits hit to overall receipts



# NTMA's job is to finance the cash deficit (EBR) but it's best to use accruals-based GGB for comparison to peers

EBR and GGB (€bns) usually minor – gap is larger currently



Methodological Differences	EBR		GGB
Accounting basis	Cash (exchequer)		Accrual
Financial transactions	Included		Excluded
Scope	Subset of Central Govt.		Includes all of Central & Local
Intra-Government Consolidation	No		Yes

	2020	2021	Comments
EBR	-12.3	-17.6	This is the deficit in cash terms that the NTMA must finance each year
Adjust for Accruals	3.1	0.4	Accruals can relate to interest, taxes, other expenditures
Exclude Equity & Loan Transactions	-4.6	-1.5	Transactions between the Exchequer and NAMA, CBI and other govt. entities: <b>this benefits funding req.</b>
Social Insurance Fund	-2.2	-0.6	Archaic funding structure of social insurance in Ireland is outside Exchequer. Consolidated in GGB
Semi State, ISIF, other funds	-0.2	-0.2	Dividends and profits from government entities
Local Govt.	-1.0	-0.9	Local governments fund themselves
Unspecified	-1.8		Outturn different than forecast for EBR walk. This category is a placeholder until further information is available
GGB	-19.0	-20.5	<u>Most complete metric for fiscal position. Use this for deficit comparison with other nations</u>



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Source: CSO,  
Department of Finance,  
NTMA analysis

# Need to assess other metrics apart from debt to GDP when analysing debt sustainability

2020F	GG debt to GG revenue %	GG interest to GG rev %	GG debt to GDP %
Greece	411.7%	6.1%	207.1%
Italy	332.7%	7.5%	159.6%
Portugal	316.1%	6.9%	135.1%
Spain	292.8%	5.8%	120.3%
Cyprus	272.7%	5.7%	112.6%
<b><u>Ireland</u></b>	<b><u>264.0%</u></b>	<b><u>4.6%</u></b>	<b><u>63.1%</u></b>
Belgium	234.5%	4.1%	117.7%
France	220.1%	2.6%	115.9%
EA19	218.8%	3.4%	101.7%
Slovenia	182.2%	3.8%	82.2%
EU28	177.2%	3.5%	79.4%
Austria	175.8%	2.9%	84.2%
Germany	154.1%	1.5%	71.2%
Slovakia	149.2%	3.0%	63.4%
Netherlands	142.2%	1.4%	60.0%
Finland	134.3%	1.4%	69.8%





# Section 3: NTMA Funding

Flexibility in funding strategy due to smooth maturity profile and no 2021 bond redemptions



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# NTMA has indicated a funding plan of €16 - €20bn for 2021 €7bn already funded this year

## Flexibility

Ireland has large cash balances and a year free of maturing bonds in 2021.

In addition to bond funding, Ireland received €2.5bn in EU Sure funding in Q1.

## >10 years

Weighted average maturity of debt one of longest in Europe.

The ECB's first QE program enabled NTMA to extend debt maturities and reduce interest cost. Now ECB buying in large amounts with few limitations.

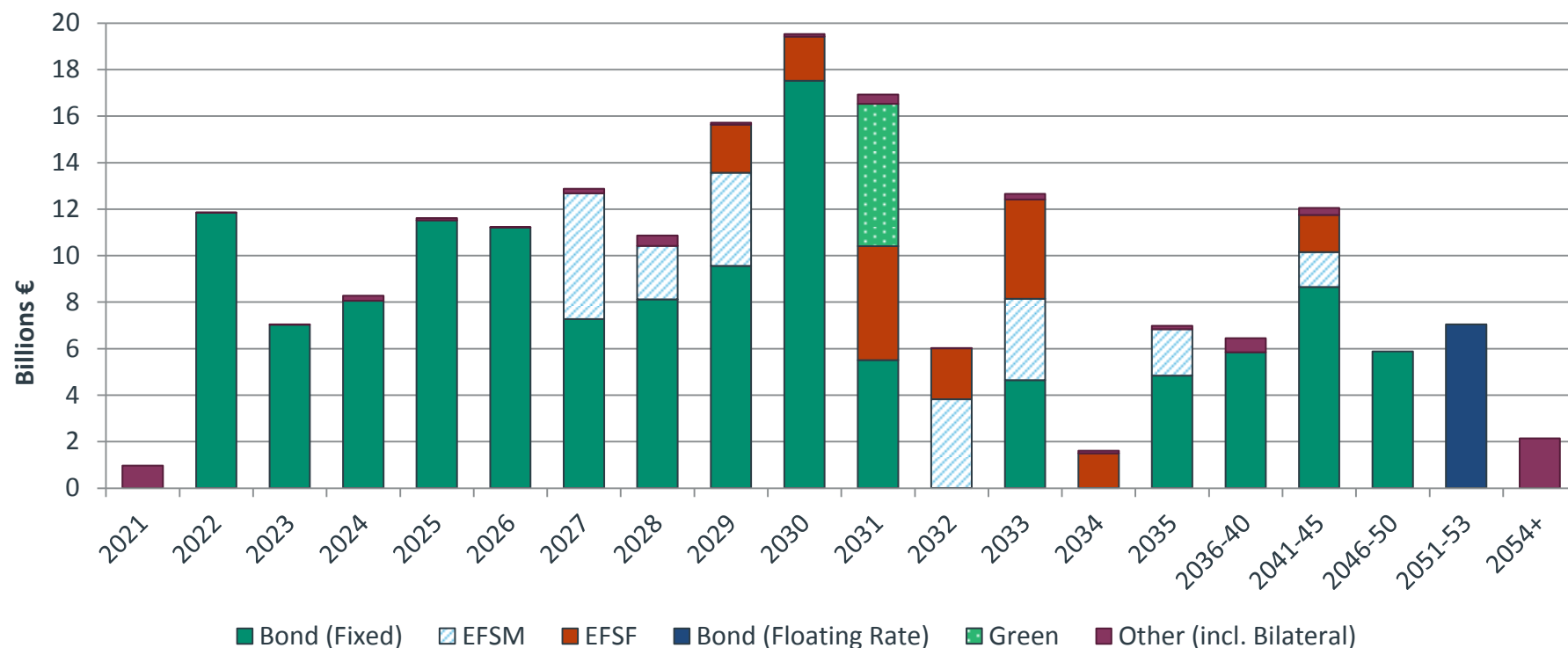
## AA-

Ireland has been affirmed in AA category by S&P.

On relative basis, hit to Ireland less than for other countries given multinationals, relatively smaller domestic share of economy and tourism.



# Flexibility helped by smoother maturity profile and no bond redemptions in 2021



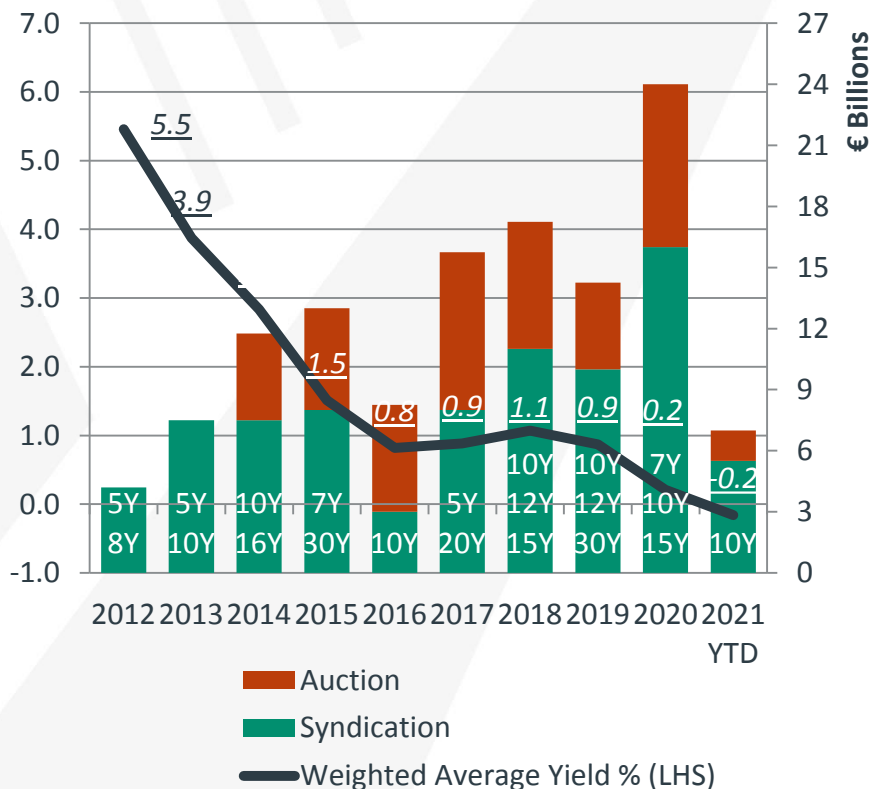
Source: [NTMA](#)

Note: EFSM loans are subject to a 7-year extensions. It is not expected that Ireland will refinance any of its EFSM loans before 2027. As such we have placed the pre-2027 EFSM loan maturity dates in the 2027-33 range although these may be subject to change.

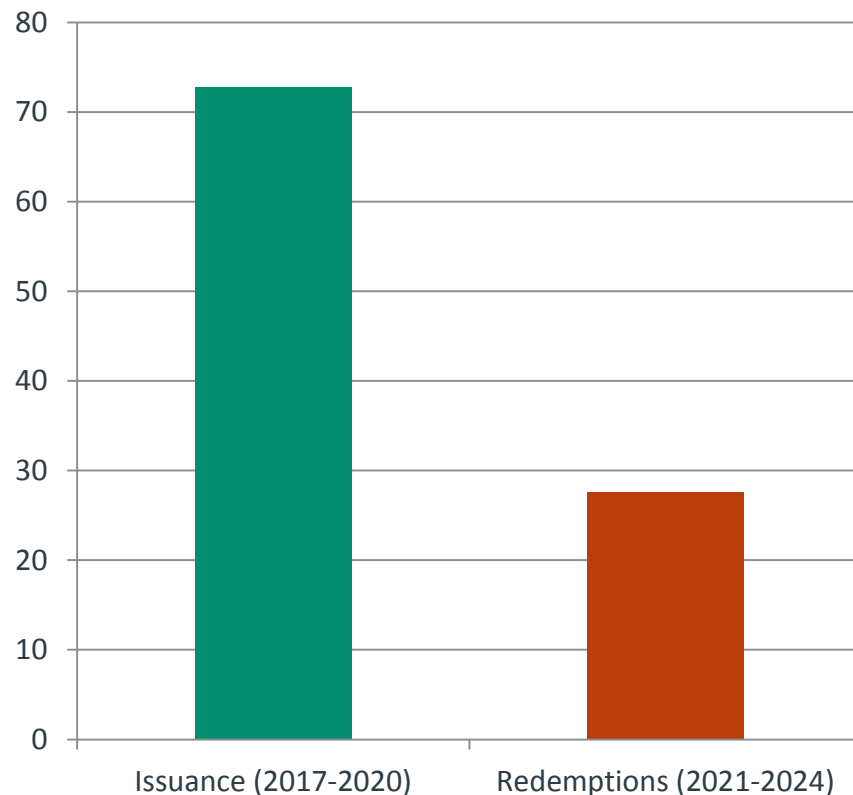


# Near-term redemptions much lower than last four years; lower borrowing costs also provides NTMA with flexibility

NTMA issued €99.5bn MLT debt since 2015;  
13.1 yr. weighted maturity; avg. rate 0.76%

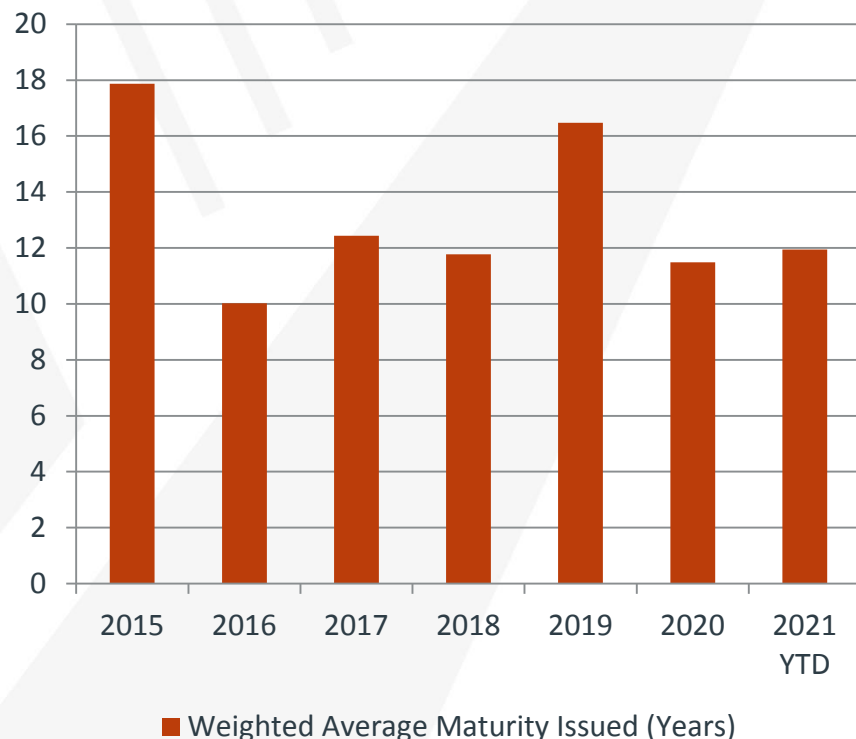


Even with extra Covid-19 borrowings, NTMA might not match supply in 2017-2020 period

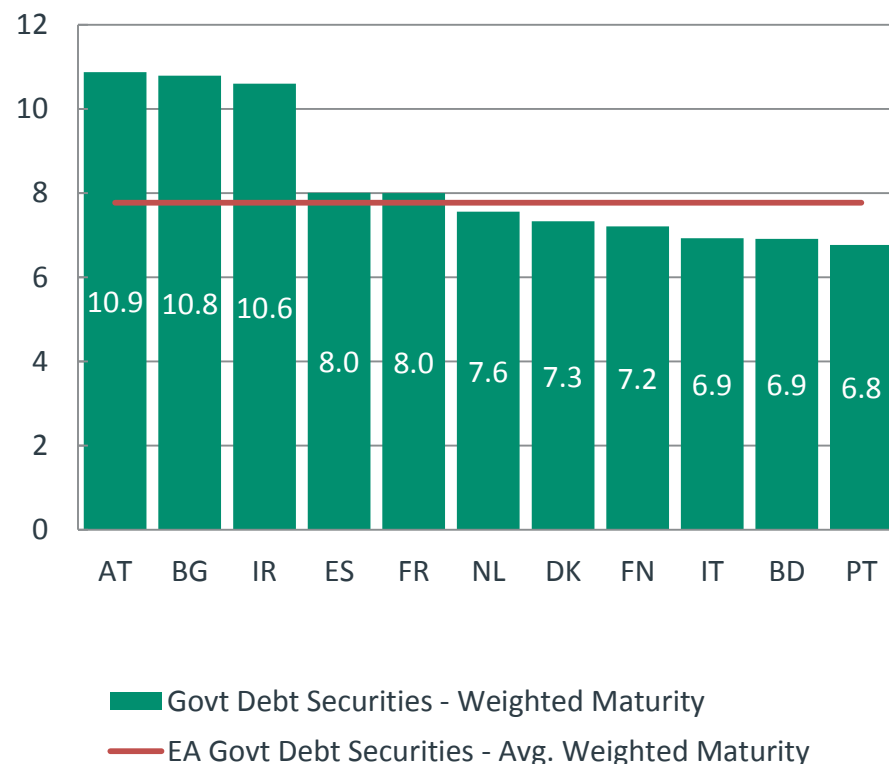


# The NTMA has taken advantage of QE to extend debt profile since 2015

Various operations have extended the maturity of Government debt ...



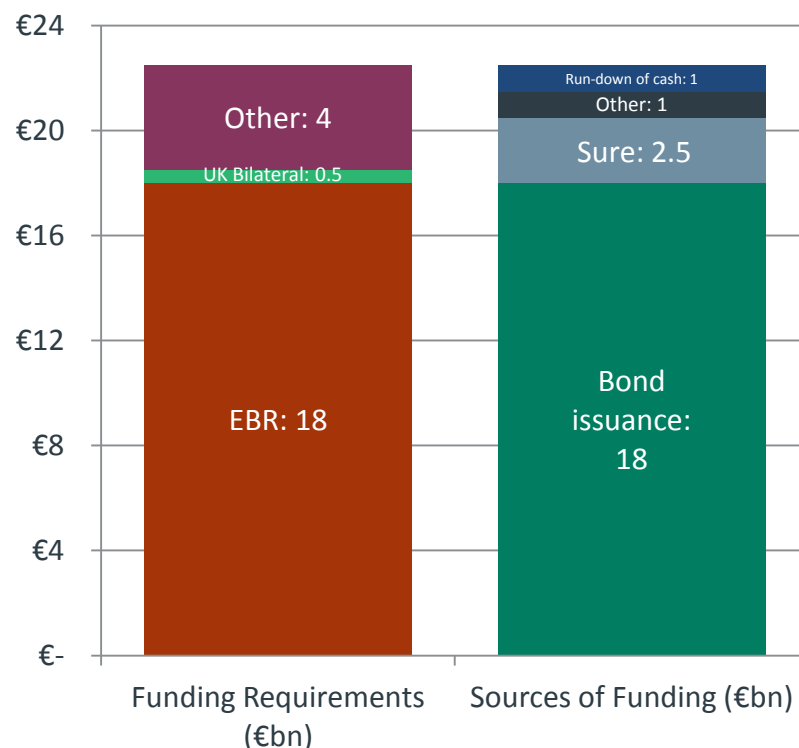
...Ireland (in years) now compares favourably to other EU countries





# Various sources of funding will be used to meet Covid-19 borrowing requirements: cash balance and flexibility key

- No bonds mature in 2021. The last of the UK bilateral loan matures in 2021.
- The Exchequer Borrowing Requirement (EBR) for 2020 was lower than expected at €12.3bn.
- Thus, NTMA entered 2021 with a larger cash balance of €17.4bn.
- NTMA has received monies from the EU SURE scheme. It is a diversified source of funding in 2021 (c. €2.5bn).
- End year cash balances are currently forecasted at €16bn.



Source: [NTMA](#)

Notes:

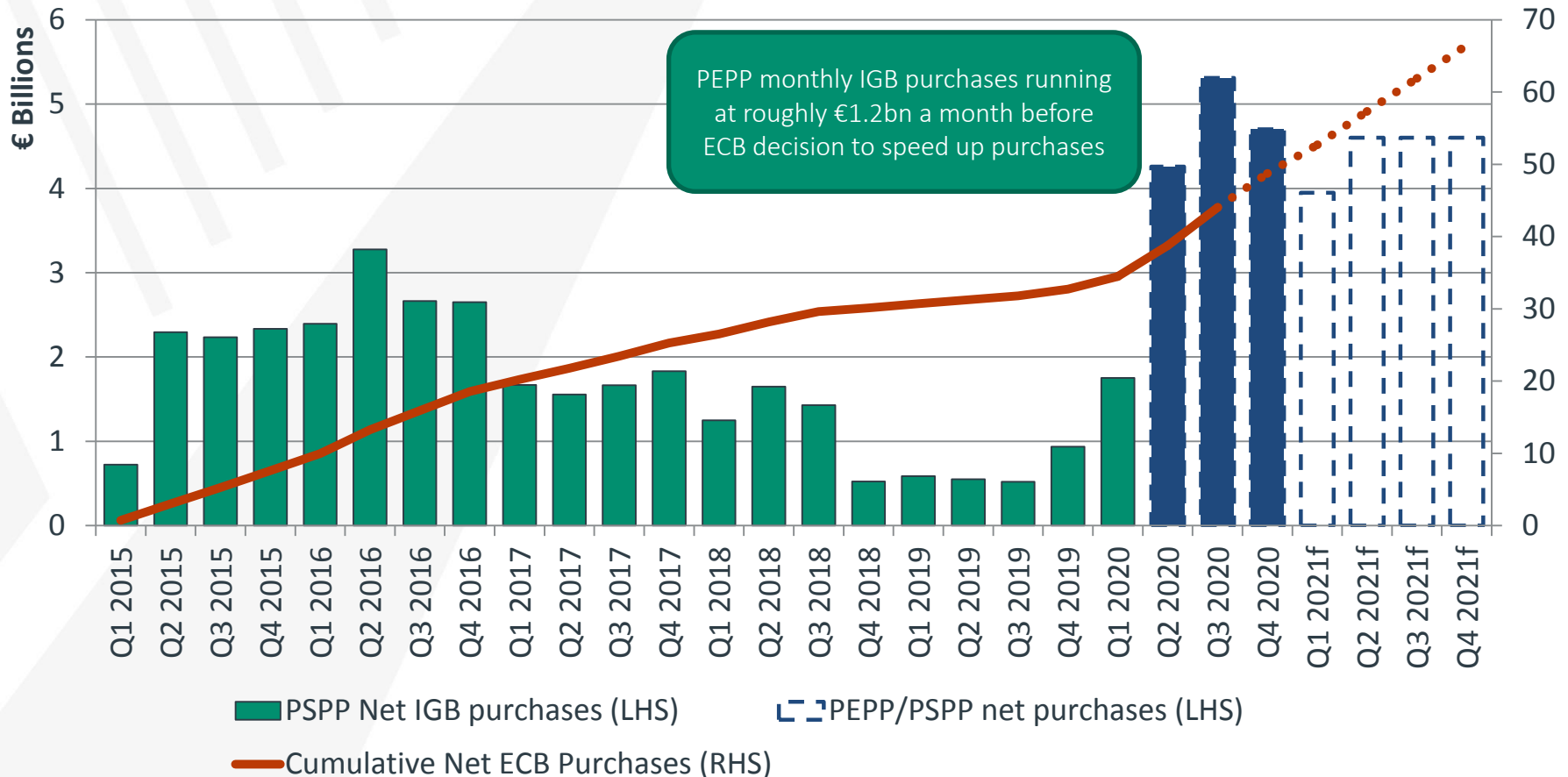
Rounding may affect totals as some figures have been rounded up to the nearest €bn.

1. In its 2021 Funding Statement of December 2020, the NTMA outlined its plan to issue €16-€20bn in long term government bonds. €18bn is reflected as an indicative estimate in the chart.
2. Other funding needs includes provision for the potential bond/FRN purchases and general contingencies.
3. Other funding sources includes retail (State Savings), private placements and EIB loan drawdowns.
4. SURE refers to the European instrument for temporary Support to mitigate Unemployment Risks in an Emergency.
5. EBR is the Department of Finance's estimate of the Exchequer Borrowing Requirement for 2021.





# In addition to PSPP, ECB's PEPP with its flexibility (no limits) & size (€1.85trn) will underpin Irish bond market



Source: ECB, NTMA Calculations

Notes:

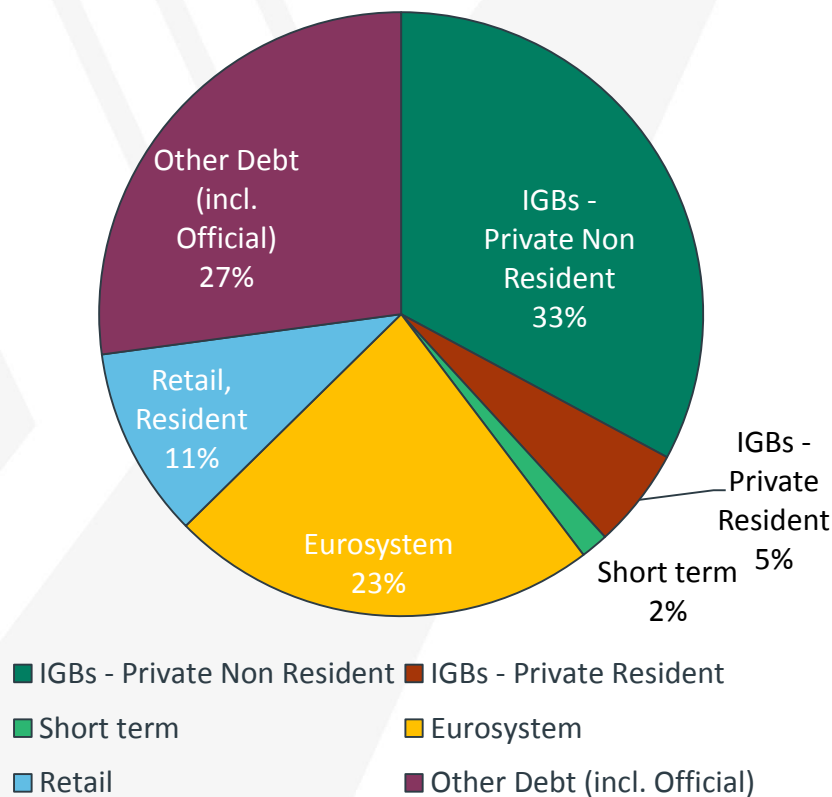
Forecasts sees Ireland's capital key of 1.69% and assumes 90% of new purchases will be for public sector assets with 7% of public sectors assets being supranational issuers.



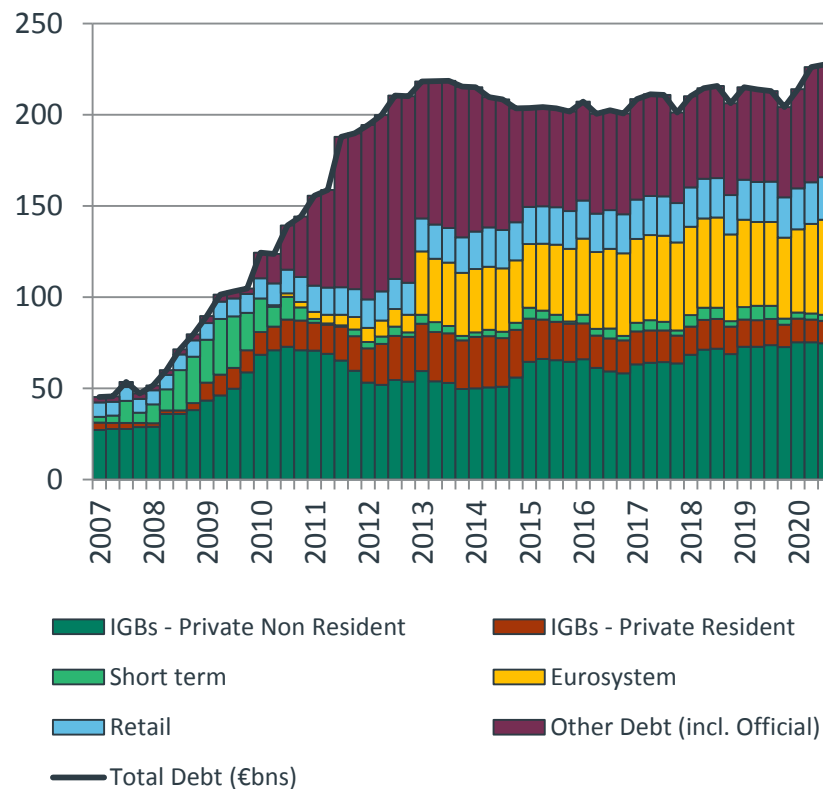
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# Diverse holders of Irish debt – sticky sources account for over 50%; will increase further with Eurosystem's PEPP

Ireland roughly split 80/20 on non-resident versus resident holdings (Q3 2020)



“Sticky” sources - official loans, Eurosystem, retail - make up over 50% of Irish debt



Source: CSO, Eurostat, CBI, ECB, NTMA Analysis

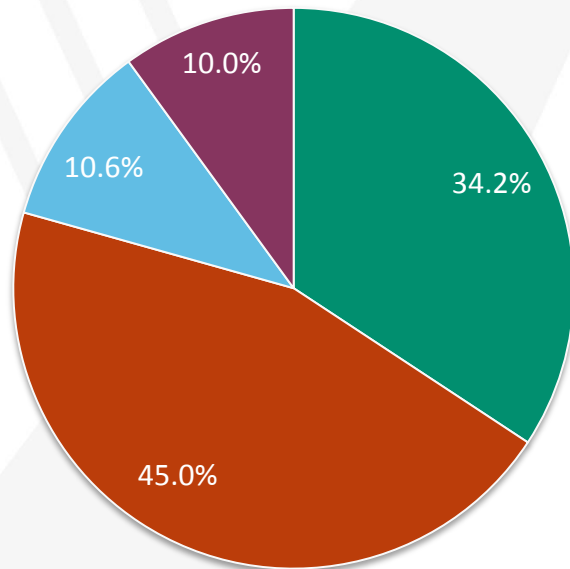
IGBs excludes those held by Eurosystem. Eurosystem holdings include SMP, PSPP and CBI holdings of FRNs. Figures do not include ANFA. Other debt Includes IMF, EFSF, EFSM, Bilateral as well as IBRC-related liabilities. Retail includes State Savings and other currency and deposits. The CSO series has been altered to exclude the impact of IBRC on the data.



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# Investor base for Government bonds is wide and varied

**Investor breakdown:  
Average over last five syndications**



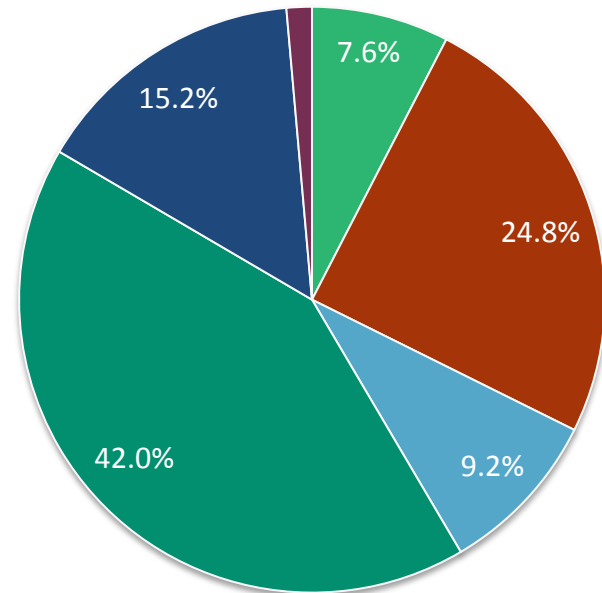
Fund/Asset Manager

Banks/Central Banks\*

Pensions/Insurance

Other

**Country breakdown:  
Average over last five syndications**



Ireland

UK

US and Canada

Continental Europe

Nordics

Asia & Other



# Irish Sovereign Green Bonds (ISGB) - €6.1bn issued with €3.9bn allocated to green projects

- Launched 2018
- Based on ICMA Green Bond Principles – Use of proceeds model
- Governed by a Working Group of government departments and managed by the NTMA
- Compliance reviews by Sustainalytics



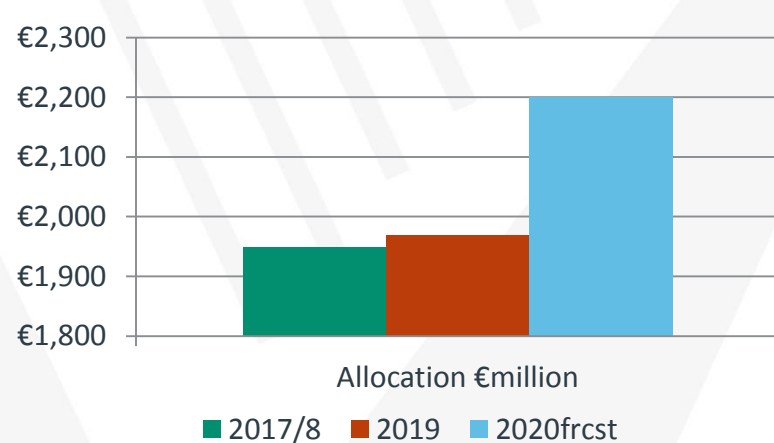
*Irish Rail train at Avoca on the Dublin to Rosslare route. Heavy rail was allocated some €400m from ISGBs in 2019*

## **April 2021 Update**

- €6.1bn nominal outstanding (€6.5bn cash equivalent)
- €3.9bn allocated to eligible green projects since inception
- €2.6bn remaining to be allocated to eligible expenditure in 2020
- Issuance through two syndicated sales and one auction
- Pipeline for eligible green expenditure remains strong
- [ISGB 2019 Allocation Report](#)
- [ISGB 2017/2018 Impact Report](#)

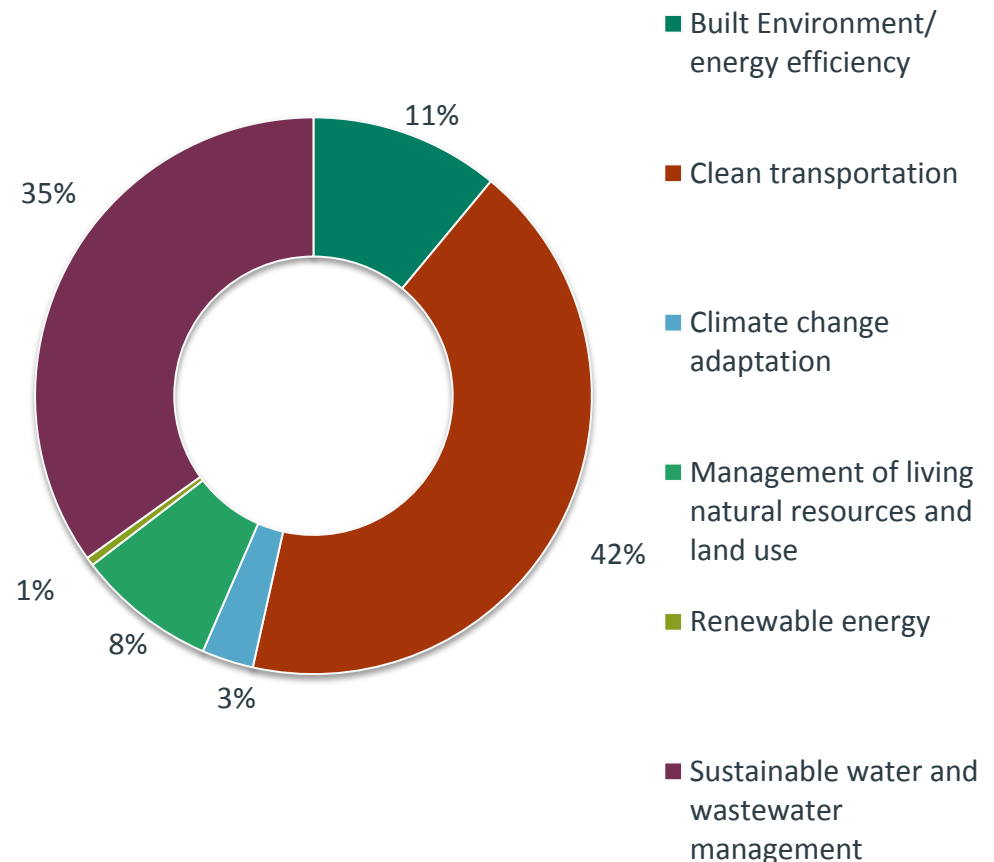


# Allocation of ISGB funding has focused on Water/Waste management and transportation



Construction of the new water treatment plant at Varry (March 2020)

## Allocation per eligible green category 2019





# Irish Sovereign Green Bond Impact Report 2018: Some 50 Impact measures reported

## Some highlights from Report\*

- **Built Environment/ Energy Efficiency**
  - Energy saving (GigaWattHours) : 621.06
  - GHG emissions reduced/ avoided in tonnes of CO<sub>2</sub> : 150.5
  - Number of homes renovated : 27,549
- **Clean Transportation**
  - Number of public transport passenger journeys : 268.66 million
  - Additional km of cycling infrastructure works (feasibility/ design/ screening phase) : 85km
  - Take-up of Grant Schemes/ Tax foregone provided (number of vehicles) : 15,712
- **Climate Change Adaptation (2017 and 2018)**
  - Number of properties protecting from flooding on completion : 7,403
  - Amount of damages/ losses avoided on completion : €658 million



Waterford Greenway





# Irish Sovereign Green Bond Impact Report 2018: Some 50 Impact measures reported

## Some highlights from Report

- **Environmentally Sustainable Management of Living Natural Resources and Land Use**
  - Number of hectares of forest planted : 4,025
  - Number of hectares of peatlands restored : 203
- **Renewable Energy**
  - Number of companies (including public sector organisations) benefitting from SEAI Research & Innovation programmes as lead, partner or active collaborators : 68
  - Number of SEAI Research & Innovation awards benefitting research institutions : 52
- **Sustainable water and wastewater management**
  - Water savings (litres of water per day) : 79.1 million
  - New and upgraded water treatment plants : 10
  - New and upgraded wastewater treatment plants: 11
  - Length of water main laid (total) : 416km
  - Length of sewer laid (total) : 74km



*Irish peatlands*

# Ireland rated in “AA” category by Standard & Poor's

Rating Agency	Long-term	Short-term	Outlook/Trend	Date of last change
Standard & Poor's	AA-	A-1+	Stable	Nov 2019
Fitch Ratings	A+	F1+	Stable	Dec 2017
Moody's	A2	P-1	Stable	Sept 2017
DBRS Morningstar	A(high)	R-1 (middle)	Stable	May 2020
R&I	A+	a-1	Stable	Jan. 2021



# Section 4: Structure of Irish economy

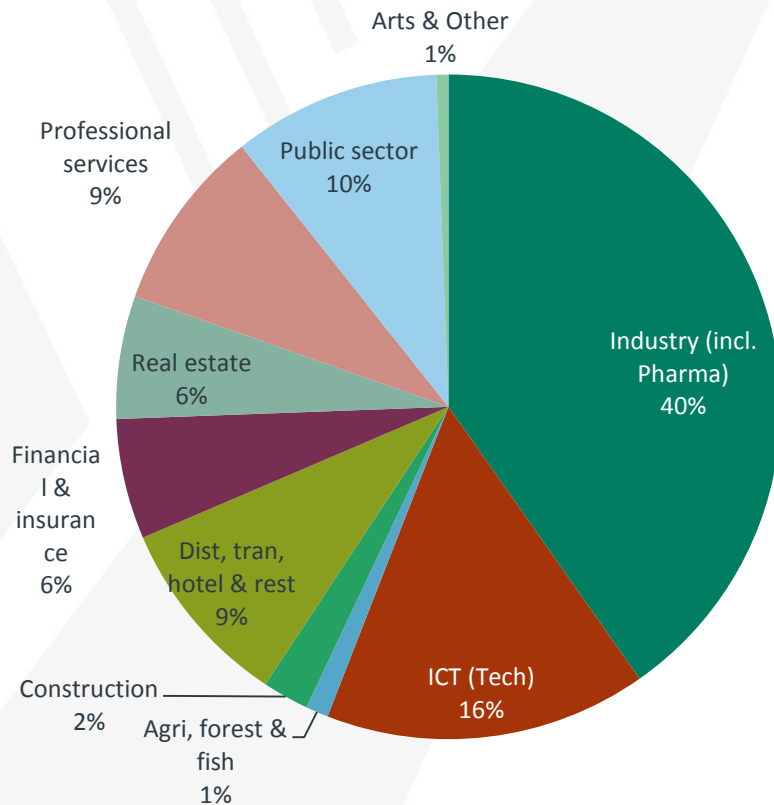
Multinationals distort Irish economy picture  
but have added resilience during Covid-19



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National Treasury Management Agency

# Multinational activity has distorted Ireland's data; notwithstanding those issues, MNCs have real impact

**Multinationals dominate GVA: profits are booked here but overstate Irish wealth generation**



**Domestic side of economy adds jobs; MNCs add GVA/high wages**

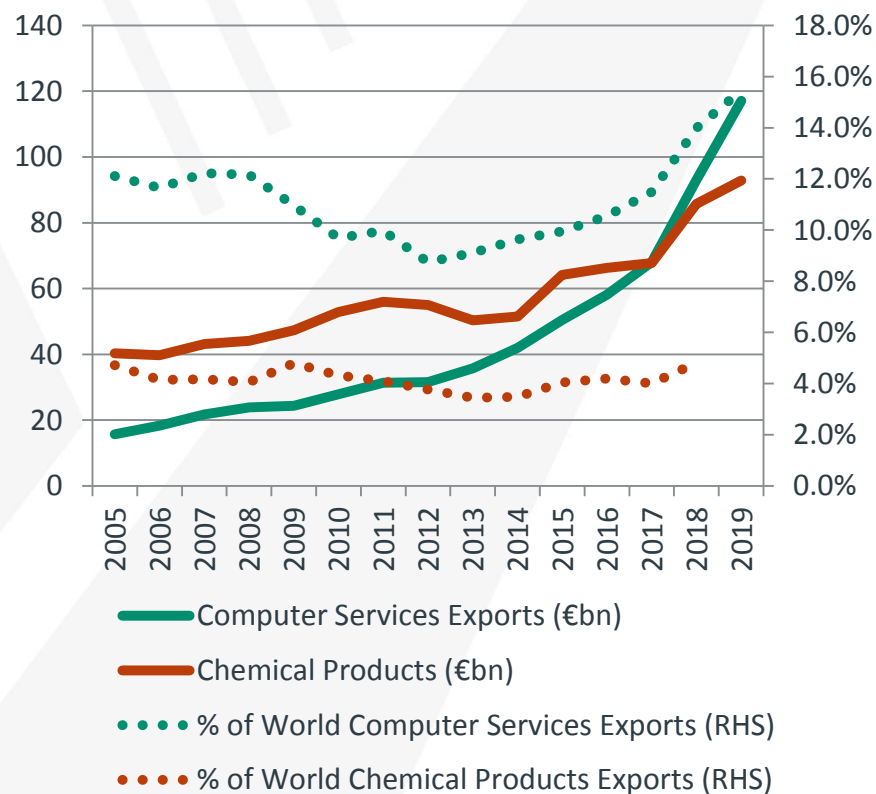
	Share of Employment (2020)	Share of Wage Bill (2019)	Share of GVA (2020)	Gross Weekly Earnings € (Q4 2019)
Agriculture	4.50%	1%	1%	N/A
<b>Industry (incl. Pharma.)</b>	<b>12.20%</b>	<b>15%</b>	<b>40%</b>	<b>916</b>
Construction	6.20%	4%	2%	821
Dist., Tran, Hotel & Rest	25.40%	17%	9%	571
<b>ICT (Tech)</b>	<b>5.40%</b>	<b>9%</b>	<b>16%</b>	<b>1,241</b>
Financial	4.50%	8%	6%	1,235
Real Estate	0.40%	1%	6%	730
Professional	10.80%	13%	9%	810
Public Sector	25.60%	30%	10%	836
Arts & Other	5%	2%	1%	514



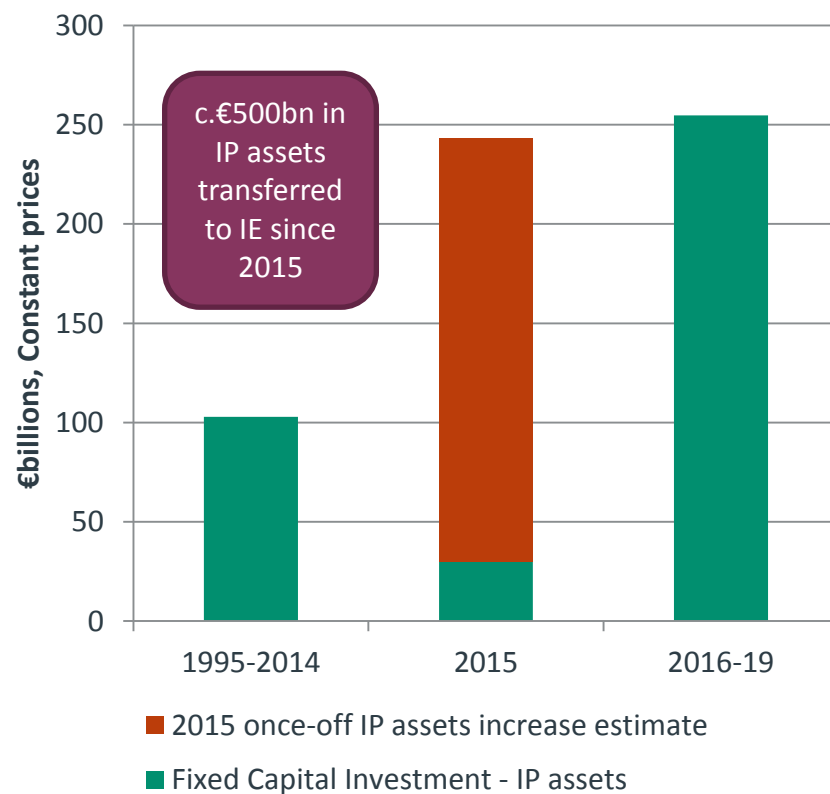


# Sizeable inflows of intellectual property into Ireland by tech. & pharma. in recent years: exports & jobs created

## Ireland is a leader in Computer Services; Exports have trebled since 2014



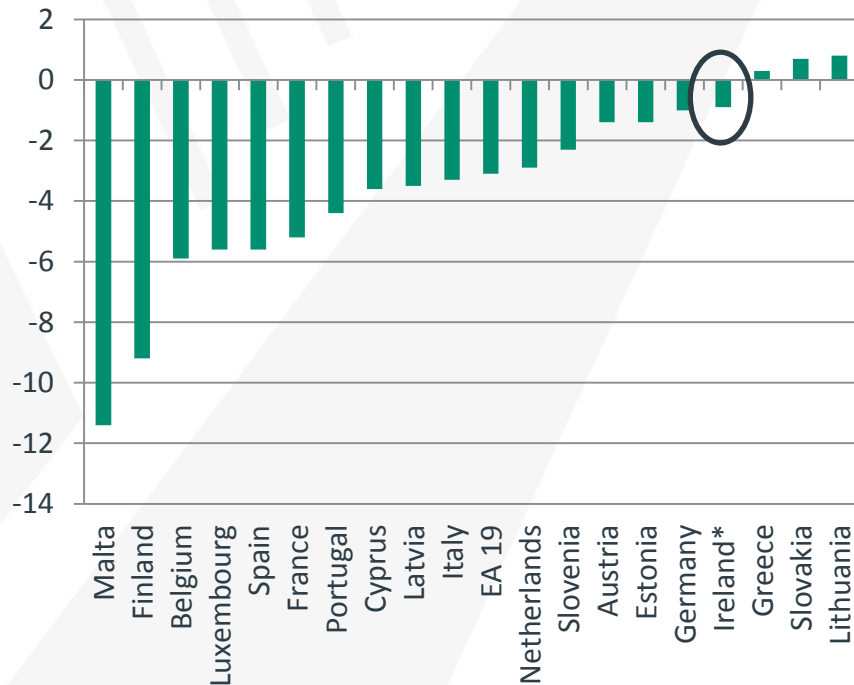
## Enormous inflows of IP assets into Ireland since 2015 on the back of BEPS reforms





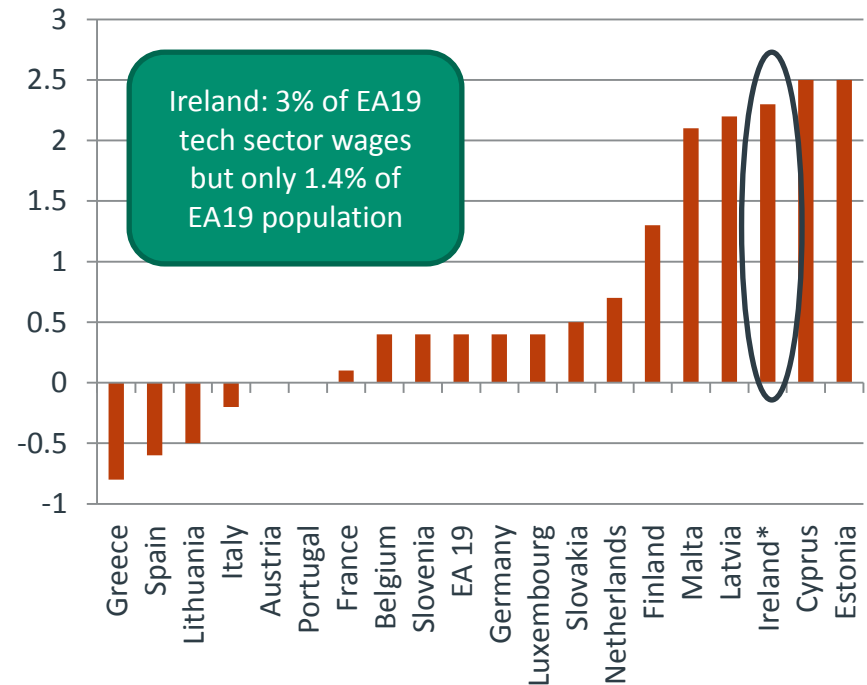
# Ireland has deftly navigated the changing global economy landscape this century (adjusted GVA for Ireland)

**Euro Area manufacturing base hollowed out over time: Ireland less impacted than most**



■ Manufacturing GVA: pp change in share of economy since 1999

**The digitalisation of the economy: Ireland able to grow its tech sector in recent years**



■ Tech Sector GVA: pp change in share of economy since 1999

Source: Eurostat, NTMA calculations (1999-2019 data)

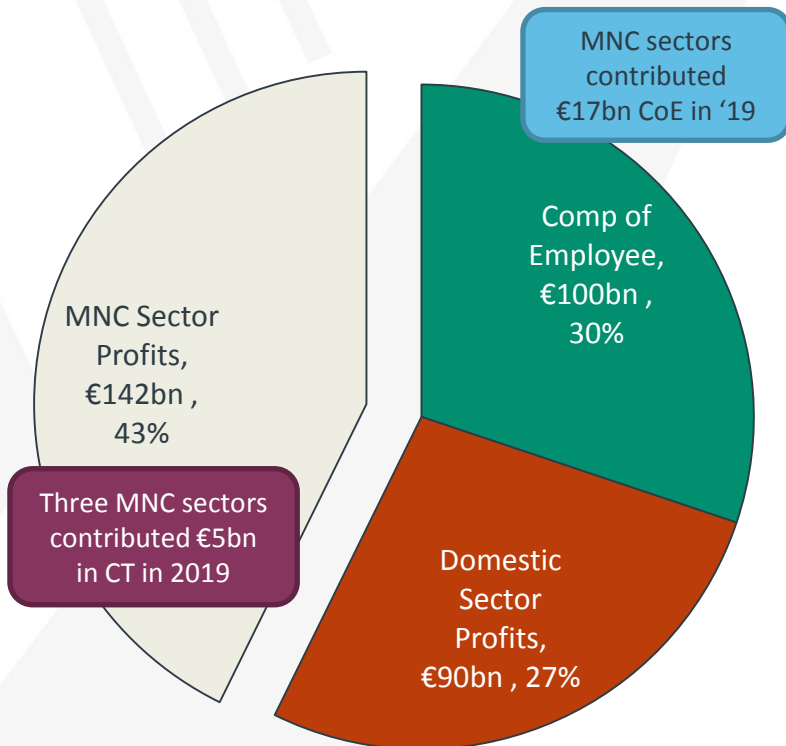
\* Ireland's GVA data has been adjusted to strip out the distortionary effects of some of the multinational activity that occurs in Ireland. Specifically a profit proxy is removed from the GVA data for the sectors in which MNCs dominate (parts of Manufacturing, ICT, and renting and leasing services). Unadjusted Ireland's figures are +7.1pp (manufacturing) and +6.5pp (tech sector).



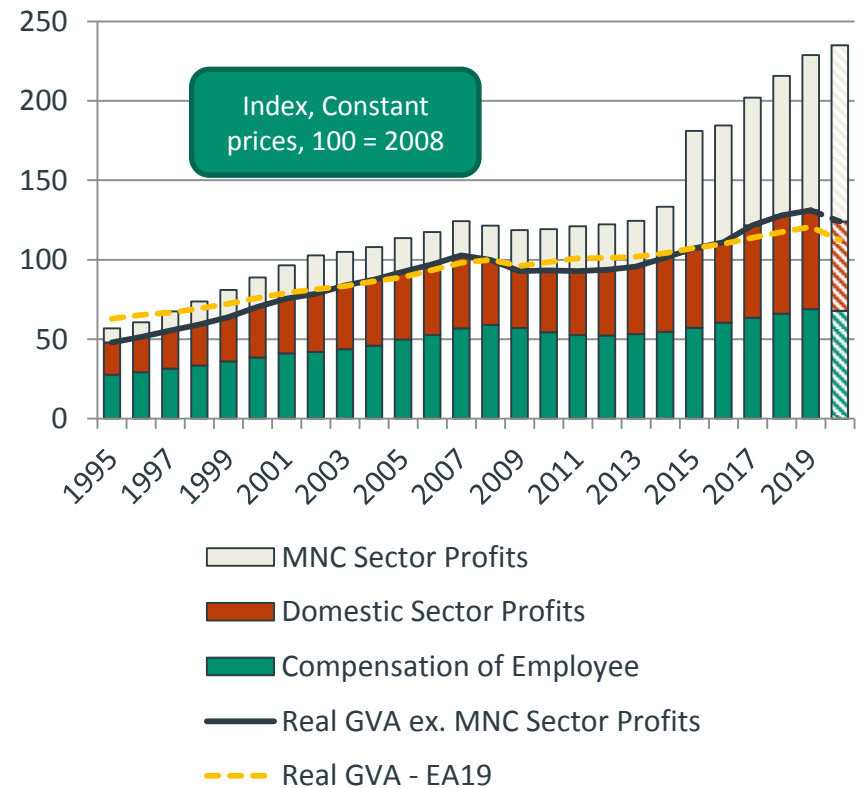
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# Adjusting for MNC profits, underlying economy was robust pre-Covid: MNCs add real substance to IE economy

Ireland's income = wages (all sectors) + domestic sectors profits + tax on MNC profits



Pre-Covid, Ireland had a robust underlying economy; compared favourably to EA



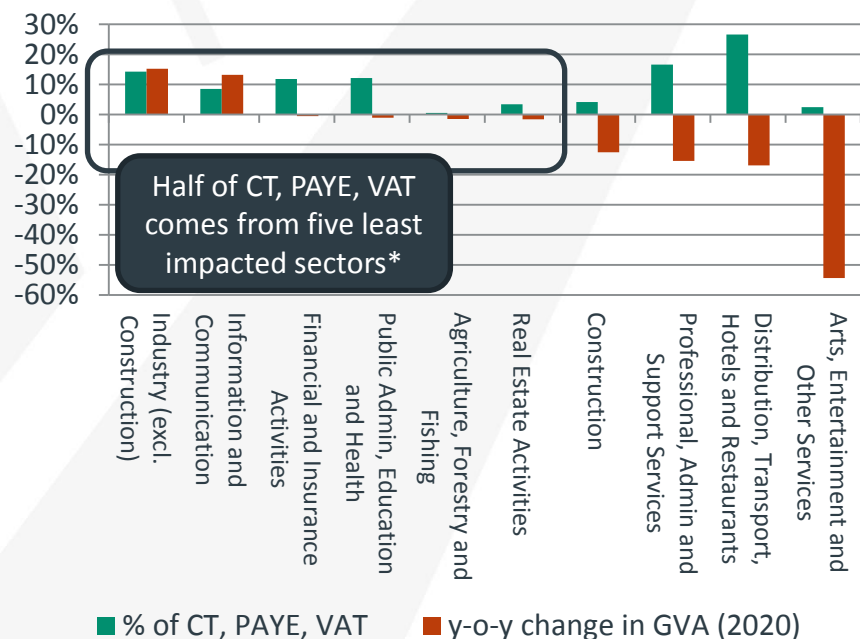
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National Treasury Management Agency

Source: CSO, NTMA calculations (Nominal 2019 data used in left chart)  
Ireland's GVA data has been adjusted to strip out the distortionary effects of some of the multinational activity that occurs in Ireland. Specifically a profit proxy is estimated for the sectors in which MNCs dominate (MNC sectors = part of Manufacturing, ICT, and renting and leasing services).

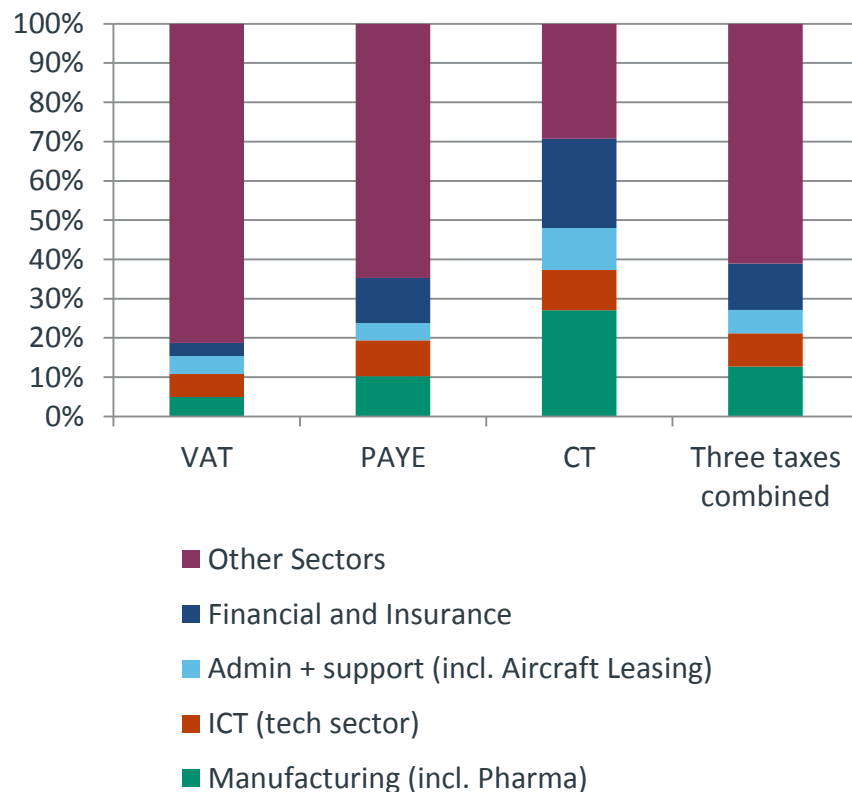
# The result of such high value MNC activity in Ireland: Ireland less impacted by Covid - in particular the tax base

GDP overstates Ireland's progress but is still a good barometer for Revenue, in particular CT and IT

Elasticity	GG Revenue	Income Tax	Corporate Tax	Revenue Ex. CT
MDD	0.96	0.93	2.26	0.86
GDP	1.08	1.03	1.33	1.05



Multinational sectors critical for Income tax and Corporation tax: proven true in 2020



# OECD's BEPS 2.0 process could impact the business tax landscape globally – agreement may come in mid-2021

## Pillar One : proposal to re-allocate taxing rights on non-routine profits

- The OECD has proposed further corporate tax reform - a [BEPS 2.0](#).
- BEPS 2.0 looks at two pillars. The first pillar focuses on proposals that would re-allocate taxing rights between jurisdictions where assets are held and the markets where user/consumers are based. Non-routine profits could - to some - degree be taxed where customers reside.
- Under such a proposal, a proportion of profits would be re- allocated from small countries to large countries. Such a proposal would probably reduce Ireland's corporation tax base. Some estimates place the hit at 5-15% per annum.
- Nothing has been decided yet. There are disagreements across countries. Some optimism for reform after recent moves by US.

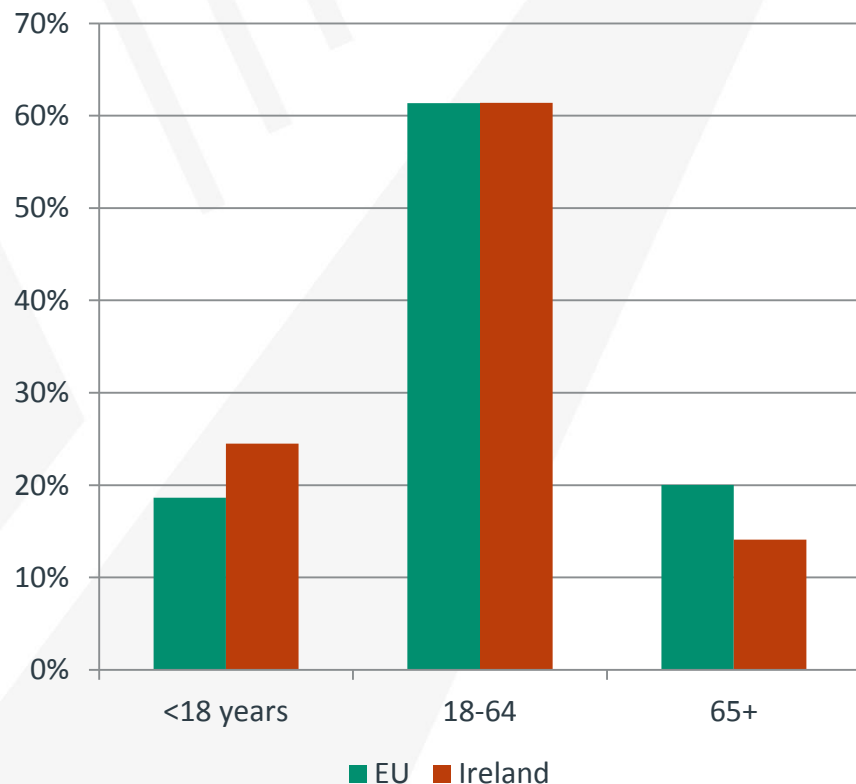
## Pillar Two: proposal for minimum global tax

- Pillar Two - the basic idea is to introduce a minimum effective tax rate with the aim of reducing incentives to shift profits.
- Where income is not taxed to the minimum level, there would an "income inclusion rule" which operates as a 'top-up' to achieve the minimum rate of tax.
- The obvious questions arise:
  - what is the appropriate minimum tax rate?
  - who will get the 'top-up' payment?
  - Is the minimum rate taxed at a global (firm) level or on a country-by-country basis?
- These questions are as yet unanswered. If the minimum rate agreed is greater than the 12.5% rate that Ireland levies, it might erode this country's comparative advantage.

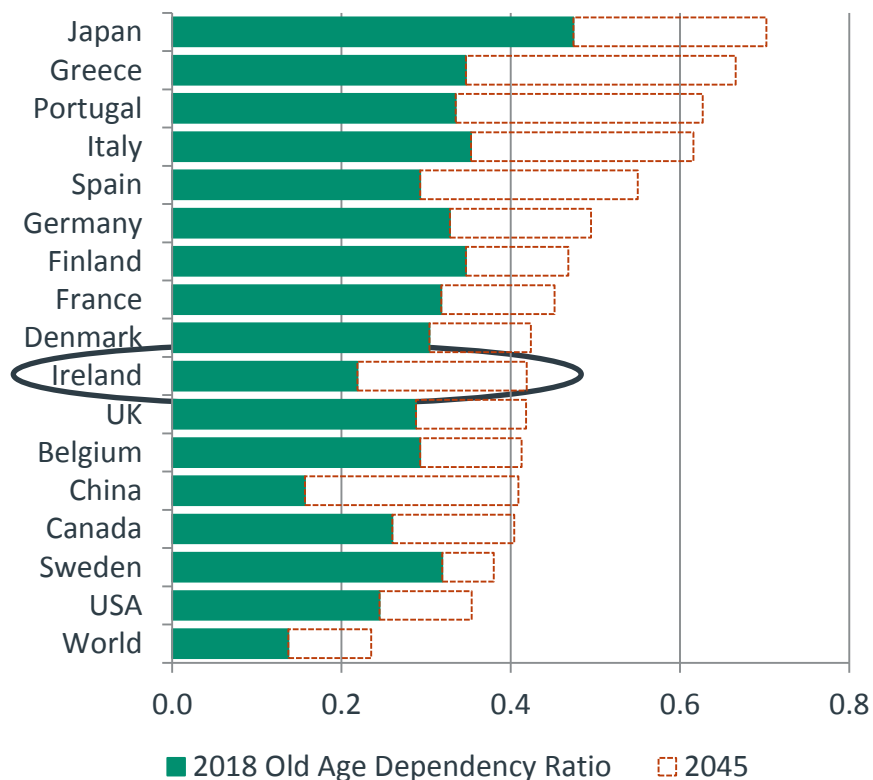


# Outside of sector makeup, Ireland's population helps growth potential: Age profile younger than the EU average

Ireland's population estimated at 4.98m in 2020: younger population than EU



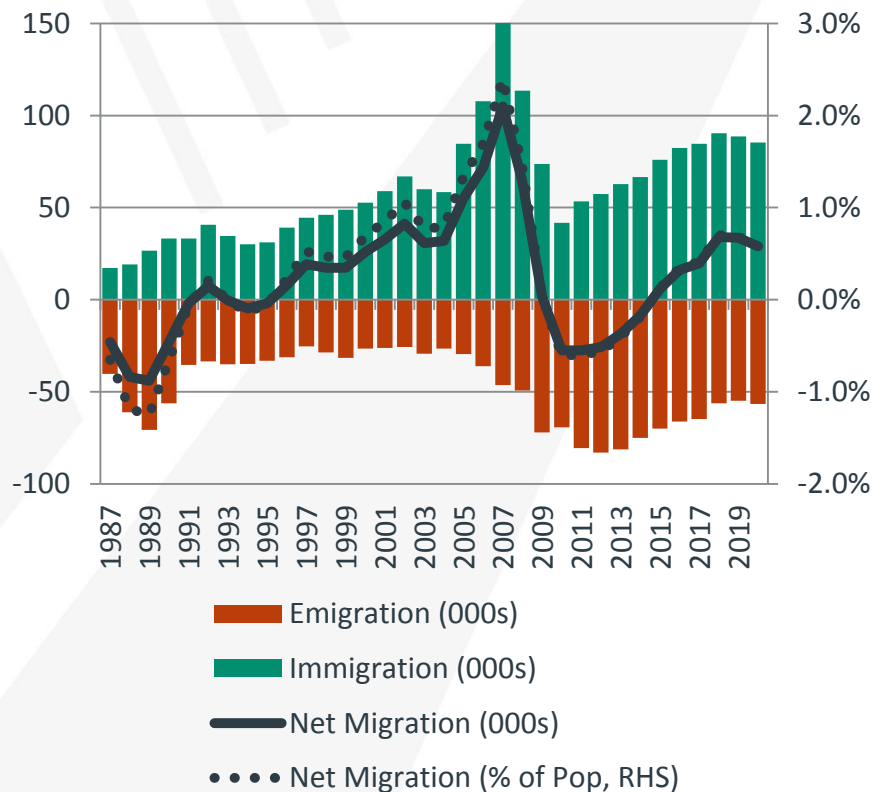
Ireland's population will remain younger than most of its EA counterparts



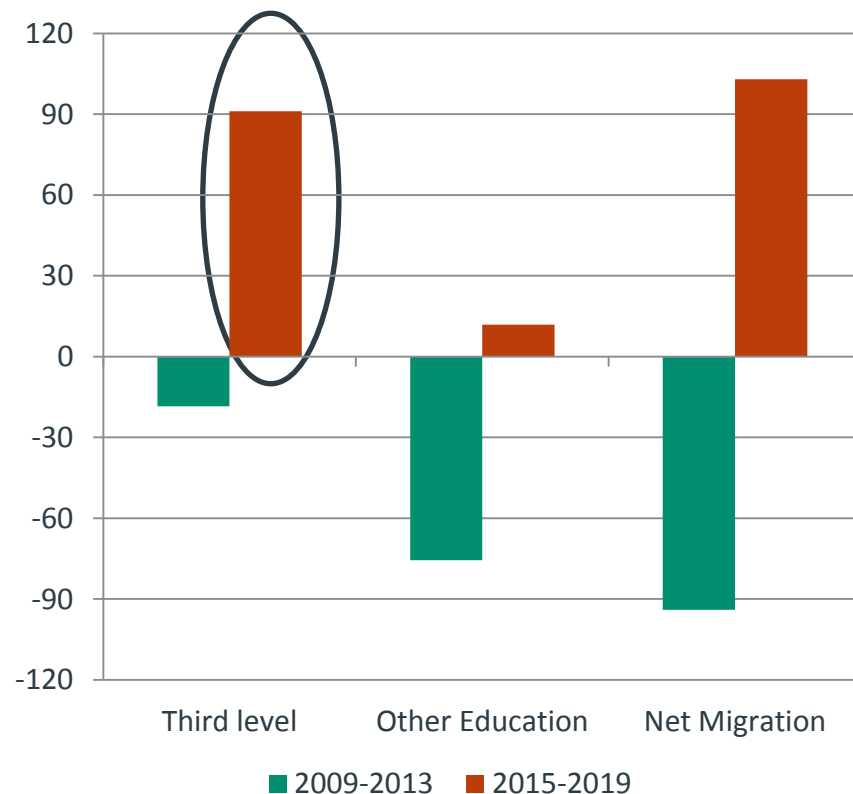


# Migration has improved Ireland's human capital; post-Covid migration to be closer to zero given travel bans

Latest Census data show net migration positive since 2015 – mirroring economy

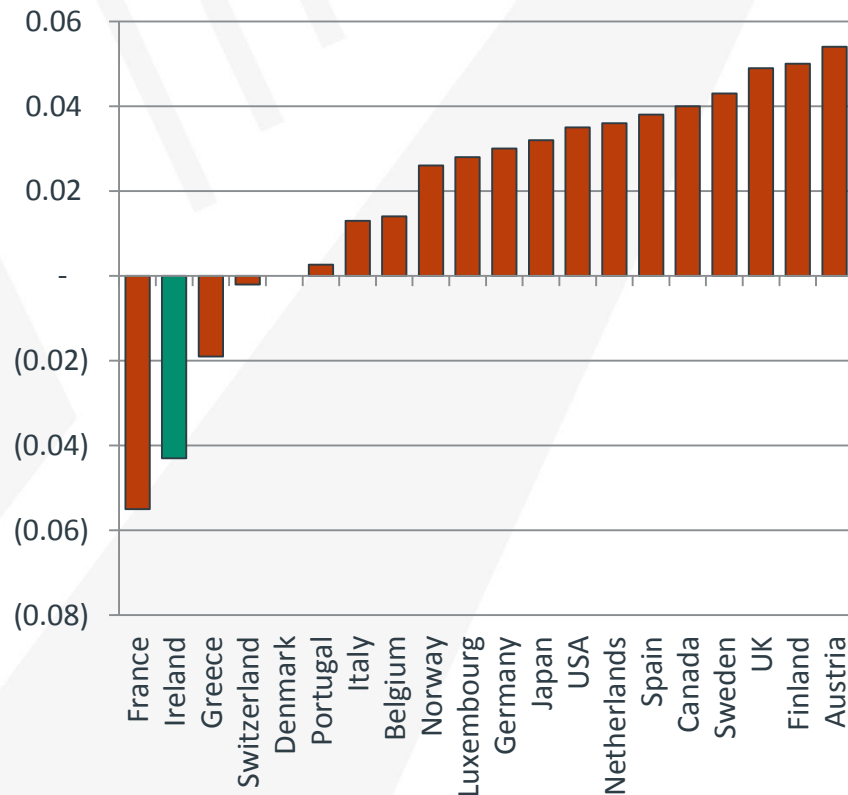


Migration inflow particularly strong in highly educated cohort – work in MNCs attractive

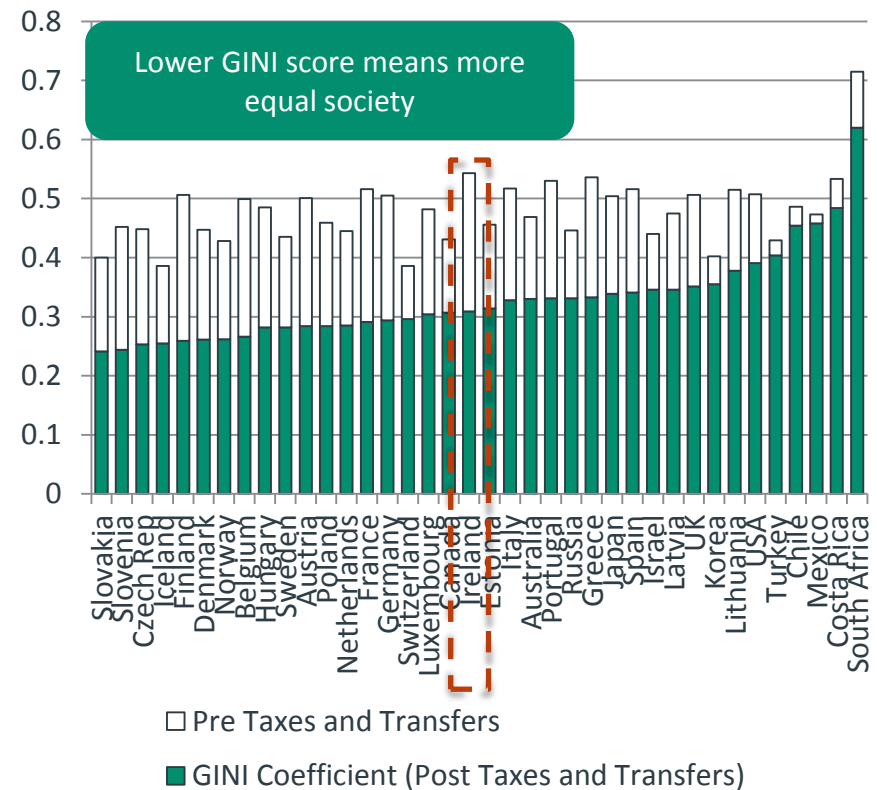


# Income equality has improved: Ireland's progressive system the main driver and cushioned the economy in 2020

**Lower inequality (1985-2015): economic rise reduced GINI coefficient unlike others**



**Progressive system means Ireland is around the OECD average for GINI after tax**



The background image shows a scenic view of Dublin, Ireland. In the foreground, a stone bridge with ornate balustrades spans a river. Behind the bridge, a tall, modern glass-fronted building stands prominently on the left, while older, multi-story brick buildings with traditional architecture are on the right. A flagpole with the Irish tricolor flag is visible on the far right. The sky is clear and blue.

# Section 5: Brexit

“Hard Brexit” risk eliminated by free trade agreement leaving smaller long term impact



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National Treasury Management Agency

# Following intense negotiations, a Free Trade Agreement was agreed in December 2020 allowing for tariff free trade

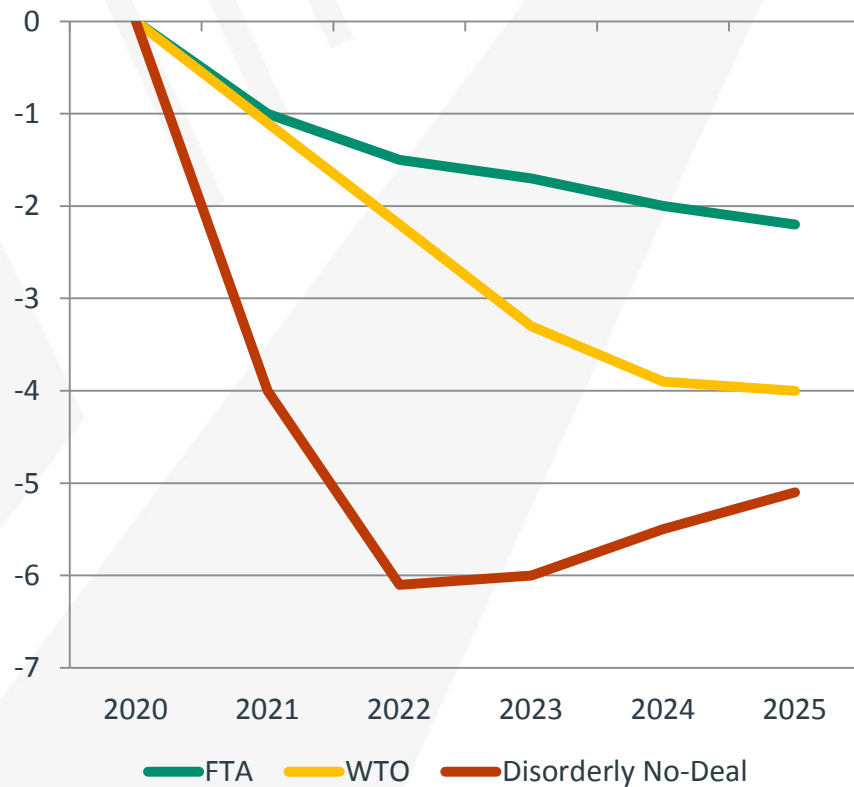
## Main points of FTA

- From January 1, the UK becomes a “third country” outside the EU’s single market and customs union. As such without a free trade agreement, trade would be subject to tariffs and quotas.
- Under the deal, goods trade between the two blocs will remain free of tariffs.
  - However, goods moving between the UK and the EU will be subject to customs and other controls, and extra paperwork is expected to cause disruptions.
  - Due to these non-tariff barriers, Brexit will likely result in less trade.
- Under the deal, services trade between the two blocs will continue but again could be hampered.
  - The Agreement provides for a significant level of openness for trade in services and investment.
  - But providing services could be hampered. For example, UK service suppliers no longer have a “passporting” right, something crucial for financial services. They may need to establish themselves in the EU to continue operating.
- The deal means less cooperation in certain areas compared to before Brexit. Financial and business services are only included to a small extent. Cooperation on foreign policy, security and defence will be lower also.
- Brexit is likely to result in less trade in the long run between the EU and the UK but the deal does avoid the worst case scenarios: Hard Brexit has been averted and the economic impact to Ireland will be modest.



# Impact of Brexit on Ireland will be net negative but deal means the shock is smaller and spread over long horizon

Modelled impact on output versus No Brexit baseline: FTA reduces impact significantly



IE trading partners: UK important for good imports (land bridge) & services exports

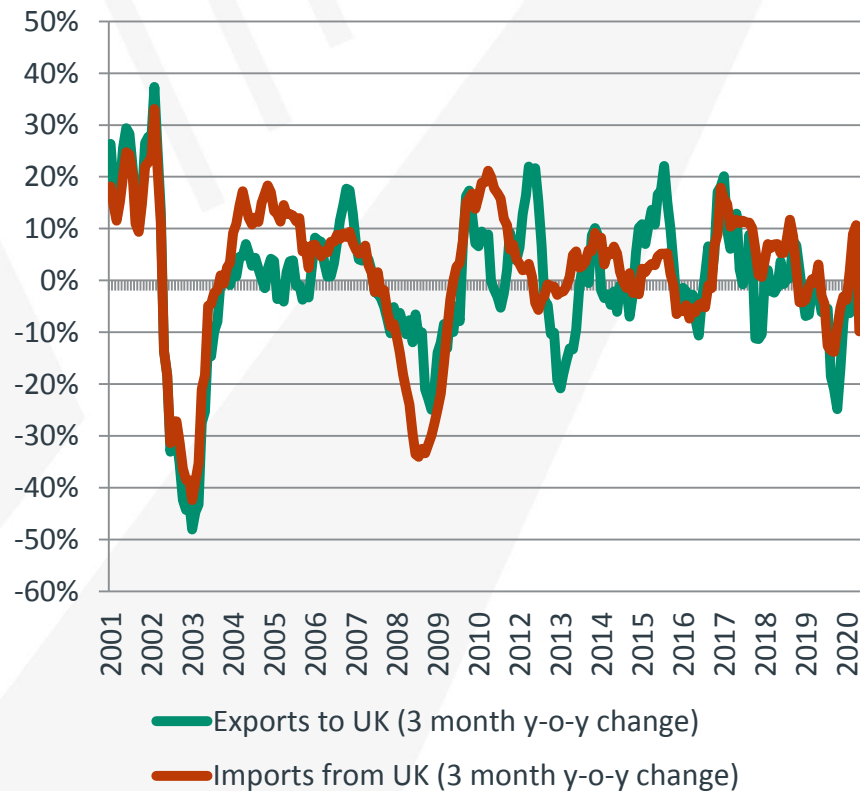
% of total	Goods (2019)		Services (2019)		Total (2019)	
	Exp.	Imp.	Exp.	Imp.	Exp.	Imp.
US	30.8	15.5	15.8	18.6	21.9	17.9
<u>UK (ex NI)</u>	<u>8.9</u>	<u>20.6</u>	<u>15.8</u>	<u>6.9</u>	<u>13.5</u>	<u>10.6</u>
NI	1.4	1.9	n/a	n/a	n/a	n/a
EU-27	37.1	36.7	29.8	19.8	32.8	23.8
China	5.9	5.8	2.8	1.3	4.0	2.3
Other	15.9	19.4	35.9	53.4	27.8	45.5



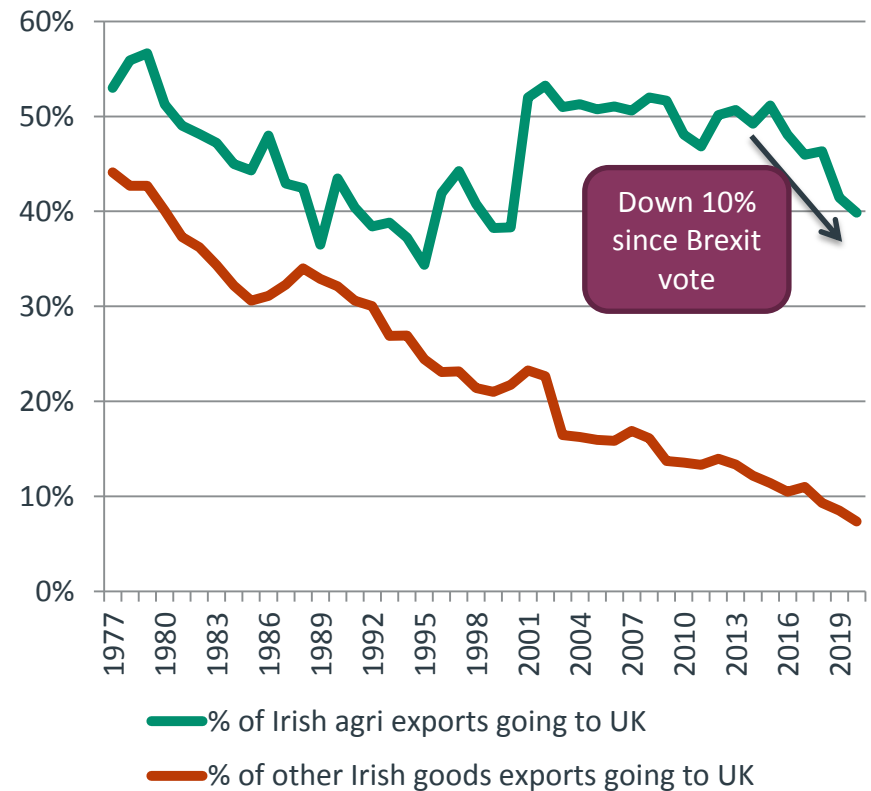


# Imports more affected than exports in January by new trading arrangements

In Jan. imports from UK fell 65% - over last three months only 10% - suggests stockpiling



UK exit from single market will continue trend of lower goods trade between IE & UK



# One possible offset to Brexit impact is FDI inflows into IE; service suppliers in UK may need to re-establish in EU

## FDI: Ireland benefitting already

- Ireland could be a beneficiary from displaced FDI. The chief areas of interest are
  - ◆ Financial services
  - ◆ Business services
  - ◆ IT/ new media.
- Dublin is primarily competing with Frankfurt, Paris, Luxembourg and Amsterdam for financial services.
- The UK (City of London) has lost significant degree of access to EU market so there may be more opportunities in time.
- 2019 figures from the [IDA](#) have shown that at least 70 investments into Ireland have been approved since the announcement of Brexit.

## Companies that have indicated jobs have or will be moved to Ireland



J.P.Morgan



Bank of America  
Merrill Lynch

LEGG MASON  
GLOBAL ASSET MANAGEMENT

S&P Global  
Ratings

BARINGS



# Withdrawal Agreement in 2019 solves Northern Ireland border issues

## Main points of Withdrawal Agreement

- The withdrawal agreement is a legally binding international treaty which works in tandem with the free trade agreement.
- Northern Ireland will remain within the UK Customs Union but will abide by EU Customs Union rules – dual membership for NI.
- No hard border on the island of Ireland: the customs border will be in the Irish sea. Goods crossing from Republic of Ireland to Northern Ireland will not require checks, but goods that are continuing on to the UK mainland will.
- Complex arrangements will be necessary to differentiate between goods going to NI and those travelling through NI to UK or vice versa. Customs checks at ports, VAT and tariff rebates and alignment of regulations will be needed.
- All of this is backed by a layered consent mechanism, which allows Stormont to opt-out under simple majority at certain times.



The background of the slide is a photograph of a city scene at sunset. A bridge with a metal railing is visible on the left, spanning a body of water. In the distance, there are several buildings, including a prominent one with a clock tower. The sky is filled with soft, colorful clouds, and the water reflects the lights from the bridge and buildings.

# Section 6: Property

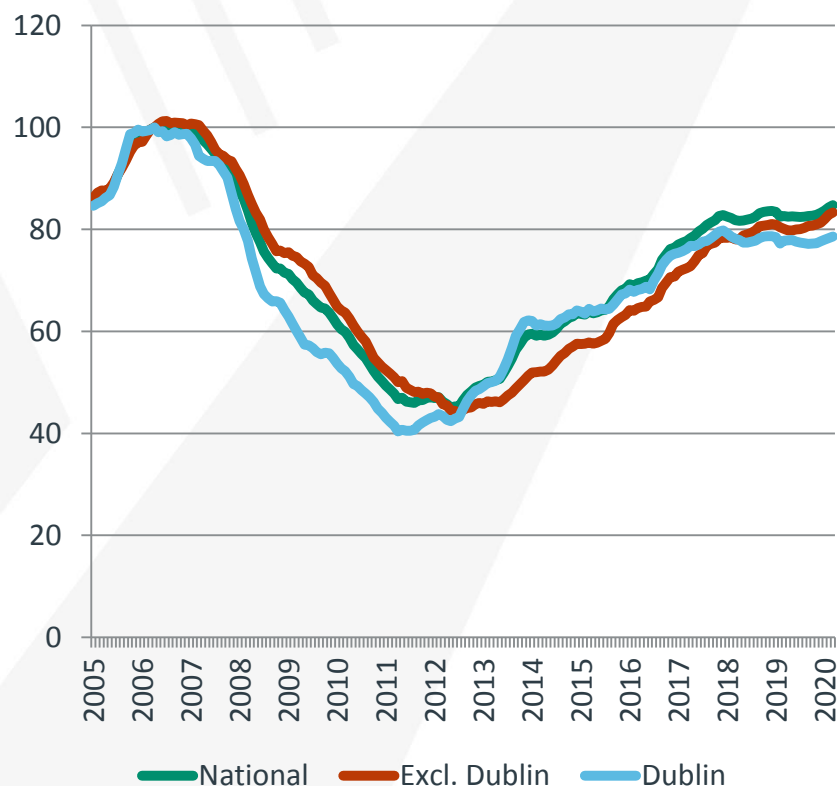
Property market in 2020 showed fewer transactions, completions; prices less affected



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# House prices had plateaued before the virus arrived; Covid price impact minimal but Dec/Jan saw increase

House prices stabilized 20% below their peak (100 in 2007)



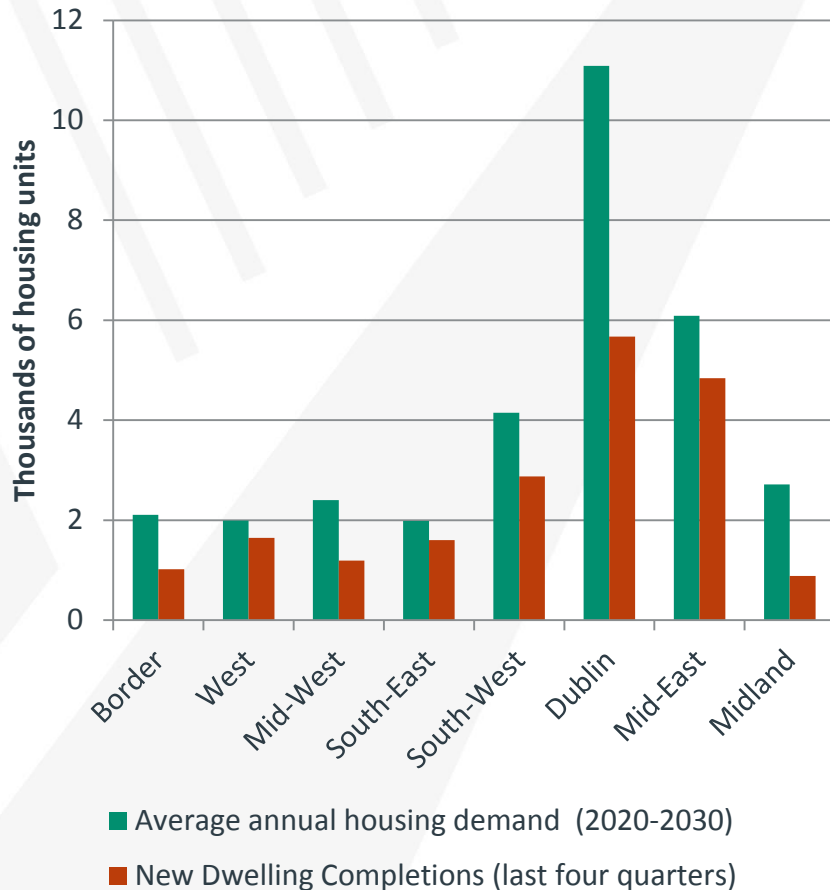
Mortgage approvals increasing but transactions still down

Level (y-o-y % change)	Sep	Oct	Nov	Dec	Jan
# of transactions	4,227 (-17.2%)	5,463 (-1.8%)	4,007 (-38%)	7,361 (+9%)	3,091 (-13%)
# of mortgage approvals	4,621 (20.8%)	5,207 (15.4%)	4,336 (29%)	3,247 (36%)	3,355 (2.8%)
Residential Property Price Index	134.7 (-0.9%)	135.5 (-0.4%)	136.0 (1%)	137.2 (2.2%)	137.9 (2.6%)
Private Rent Index	114.6 (-2.6%)	114.0 (-3.2%)	114.0 (-3%)	114.4 (-2.9%)	114.8 (-2.5%)





# Medium-term driver - Housing supply still below demand; supply was catching up before Covid-19

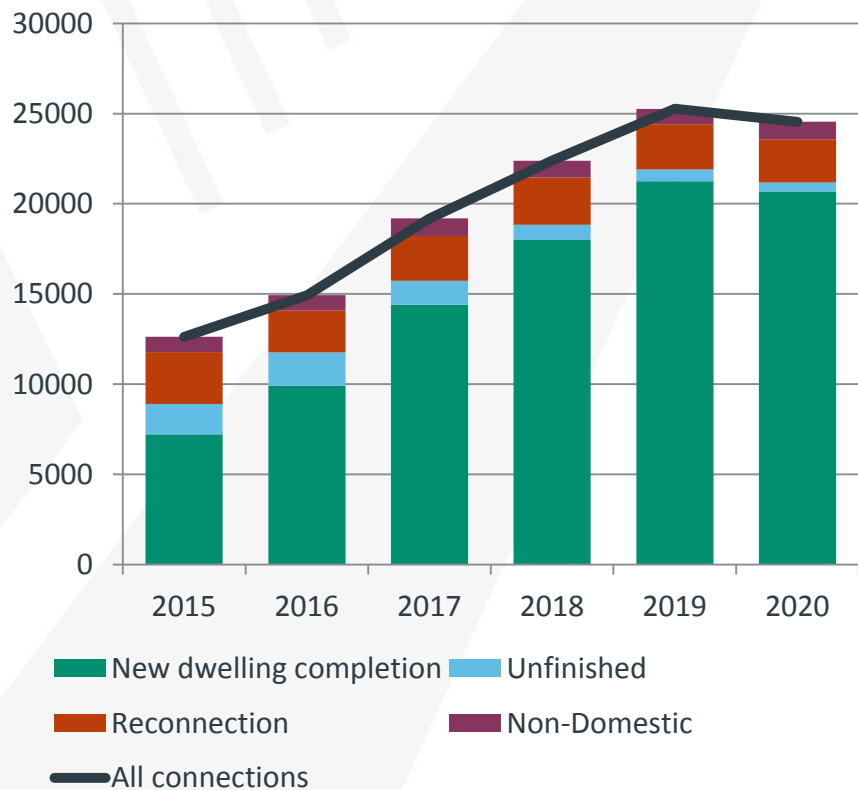


	Average annual housing demand (2020-2030)	New Dwelling Completions (last four quarters)
State	33.6	19.7
GDA	17.2	10.5
Ex-GDA	16.5	9.2

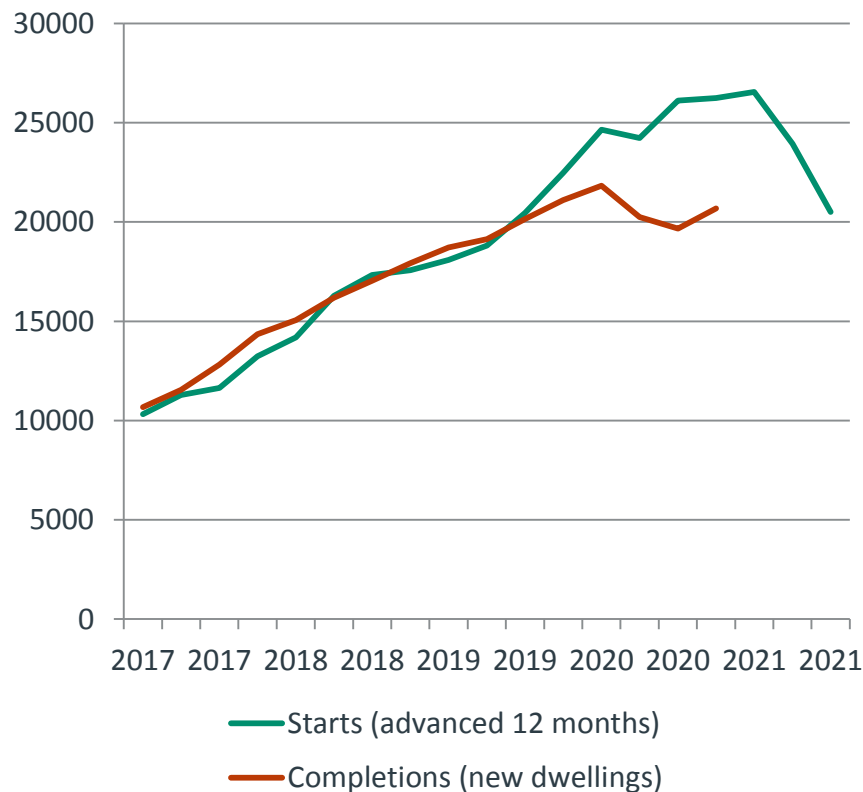
- Greater Dublin Area (Dublin + Mid East) requires the majority of needed dwellings.
- On average, 9,200 housing units are demanded a year in the regions that are not currently funded by markets.

# Covid-19 has impacted supply for 2020 and 2021

**Housing Completions\* close to 25,000 in 2020; 20,000+ in new dwelling completions**



**Housing supply picked up pre-Covid: coronavirus to hamper supply for 2020/21**



Source: DoHPCLG, CSO, NTMA Calculations



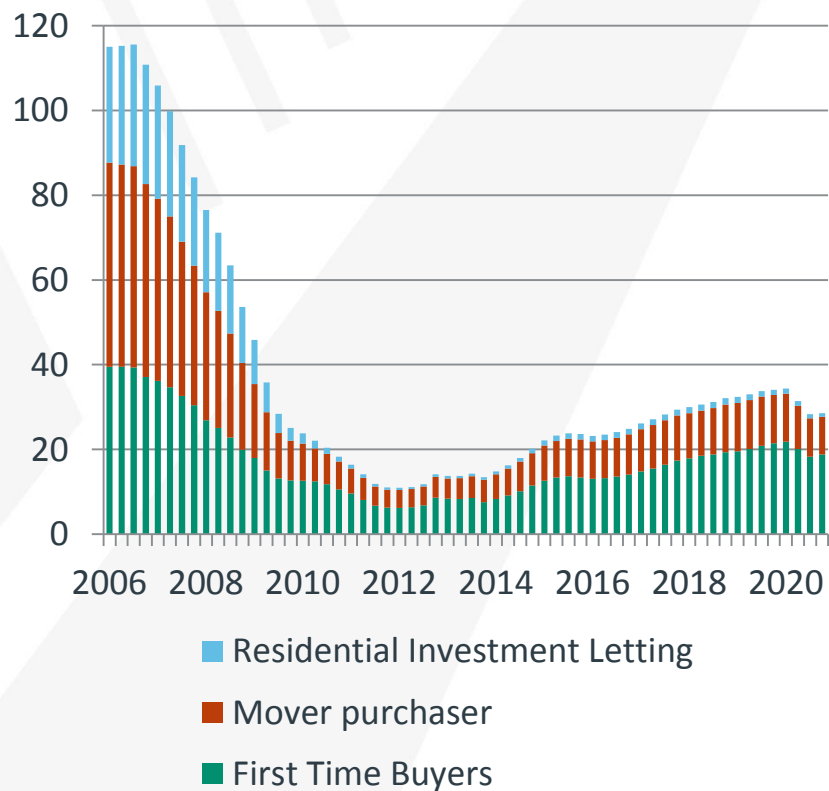
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\* Housing completions derived from electrical grid connection data for a property. Reconnections of old houses or connections from “ghost estates” overstate the annual run rate of new building.

\*\*2020 completions forecasted down 20% on 2019

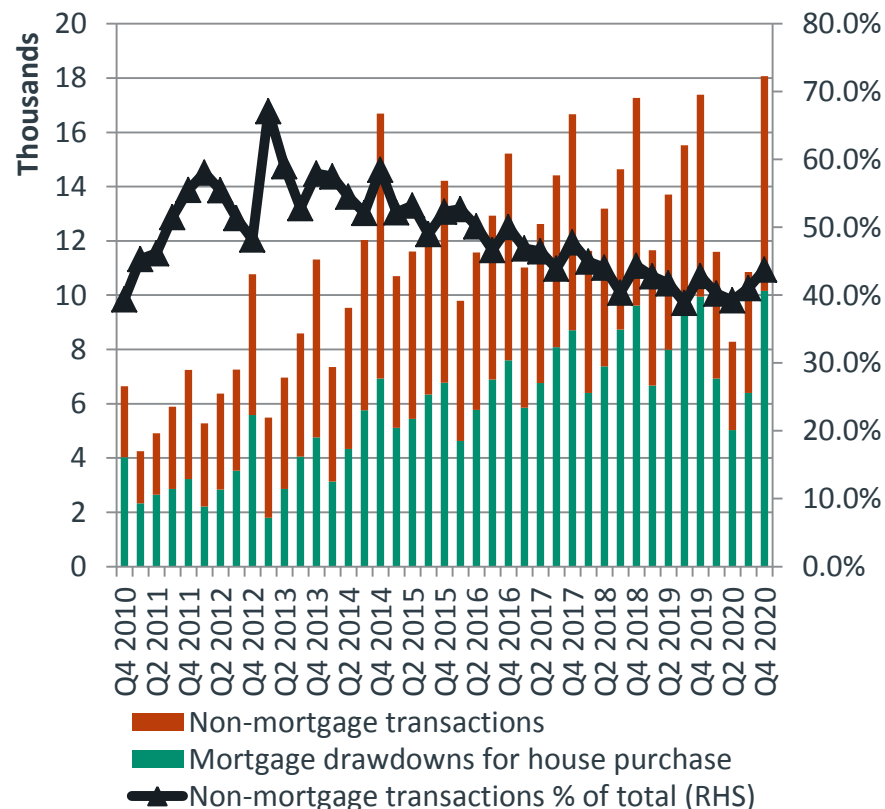
# Transactions falling off given Covid restrictions – but prices may still rise with limited supply

**Mortgage drawdowns (000s) rose from deep trough before Covid-19 impact**



Source: BPFI (4 quarter sum used)

**Non-mortgage transactions still important; transactions hit in Q2/Q3 but rebound in Q4**

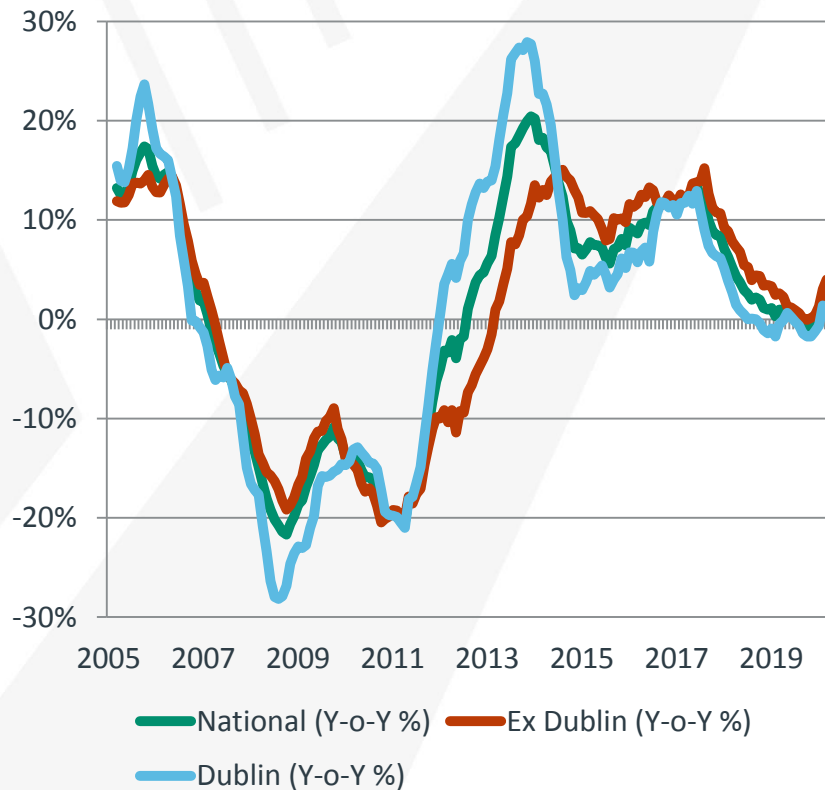


Source: BPFI; Residential Property Price Register

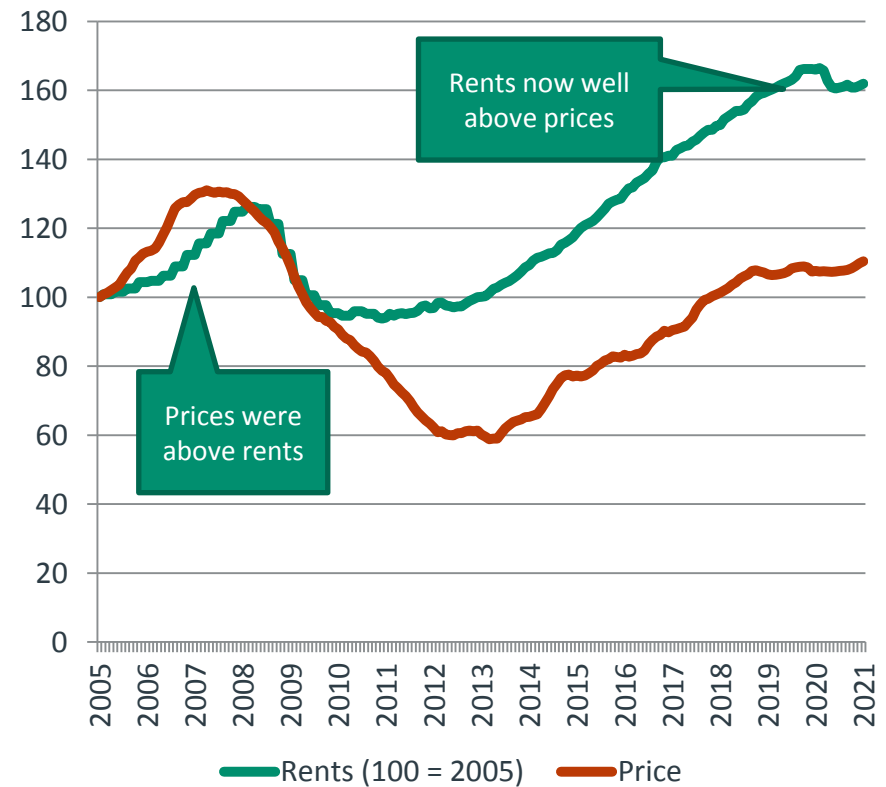


# Covid-19 impact on prices muted as both supply and demand impacted, but rents have come off highs

House prices up compared to January 2020 suggesting demand un-impacted by Covid

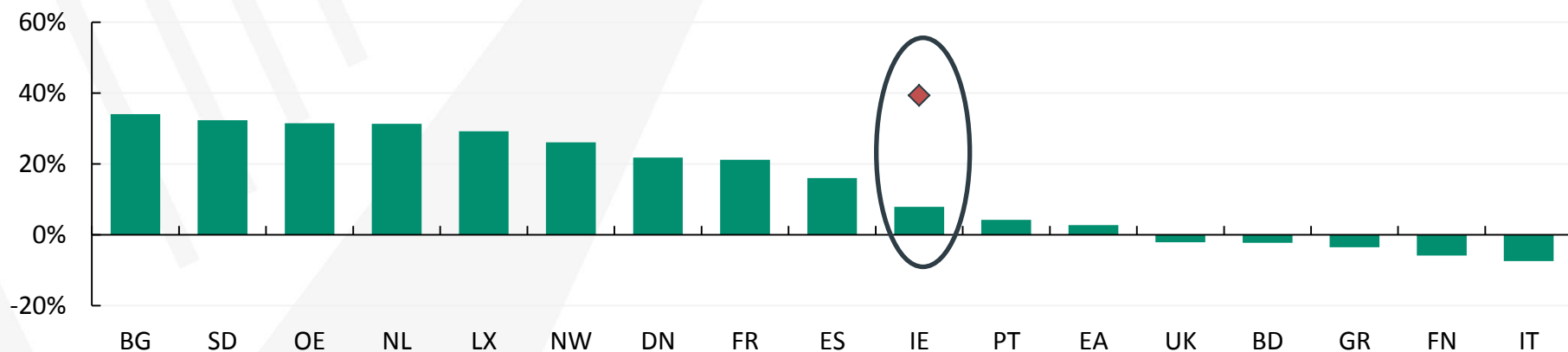


Rents are well above previous peak but have fallen in recent months

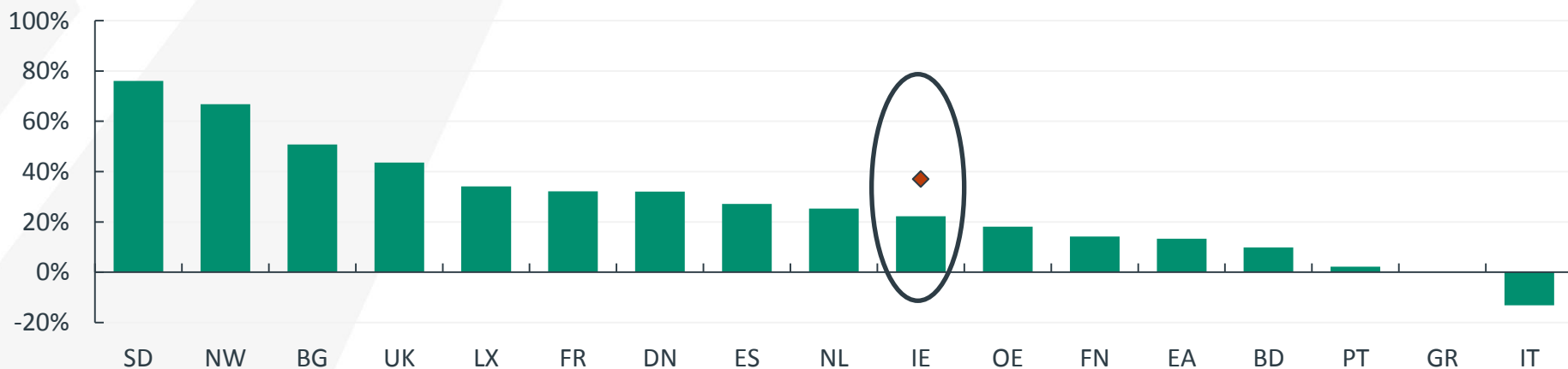


# Irish house price valuation metrics remained well below 2008 levels throughout last cycle

Deviation from average price-to-income ratio (Q2 2020, red dot represent Q1 2008)



Deviation from average price-to-rent ratio (Q2 2020, red dot represent Q1 2008)





# Section 7: Banks & other

Ireland's banks among best capitalised in Europe – complete reverse of late 2000s

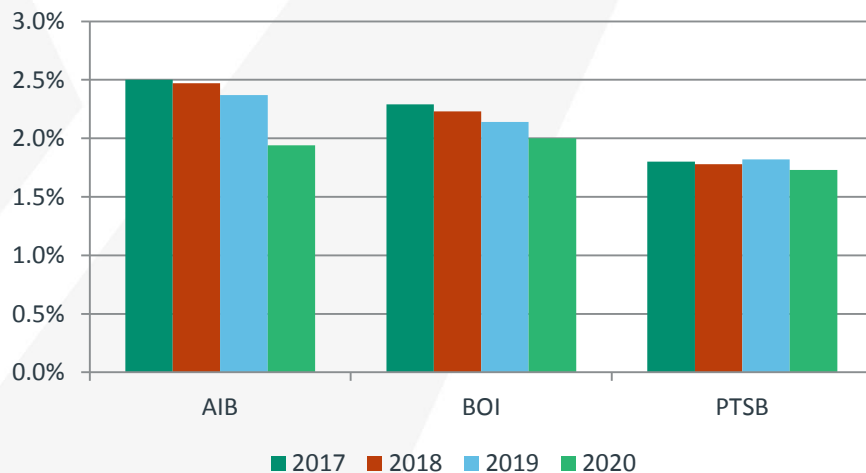


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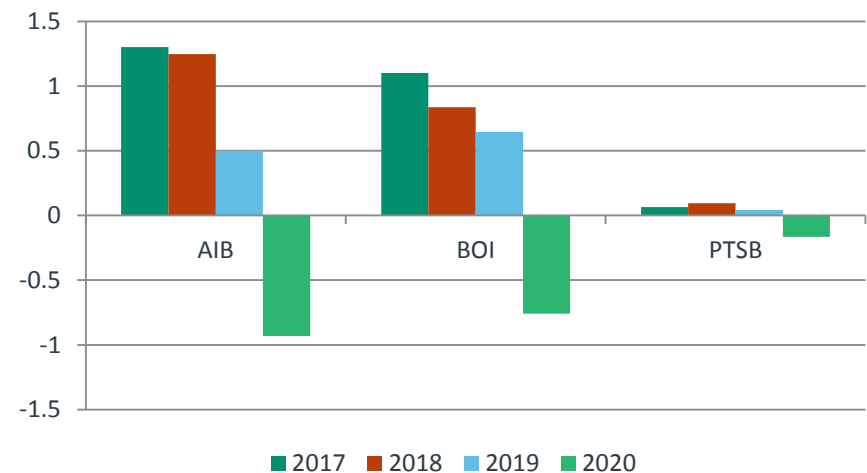
# Ireland's pillar banks in relative good shape to weather Covid-19 storm

- Banks profitable before Covid-19: income, cost and balance sheet metrics much improved.
- Interest rates on mortgages and to SMEs are still high compared to EU thanks to legacy issues and the slow judicial process in accessing collateral.
- An IPO of AIB stock (28.8%) occurred in June 2017. This returned c. €3.4bn to the Irish Exchequer: used for debt reduction. Further disposal of banking assets unlikely in the short term given low valuations
- Ulster Bank (no govt. ownership) has decided to leave Irish banking market. Reduced competition is main impact. Ulster Bank's loans and deposits may be taken on by other institutions in market.

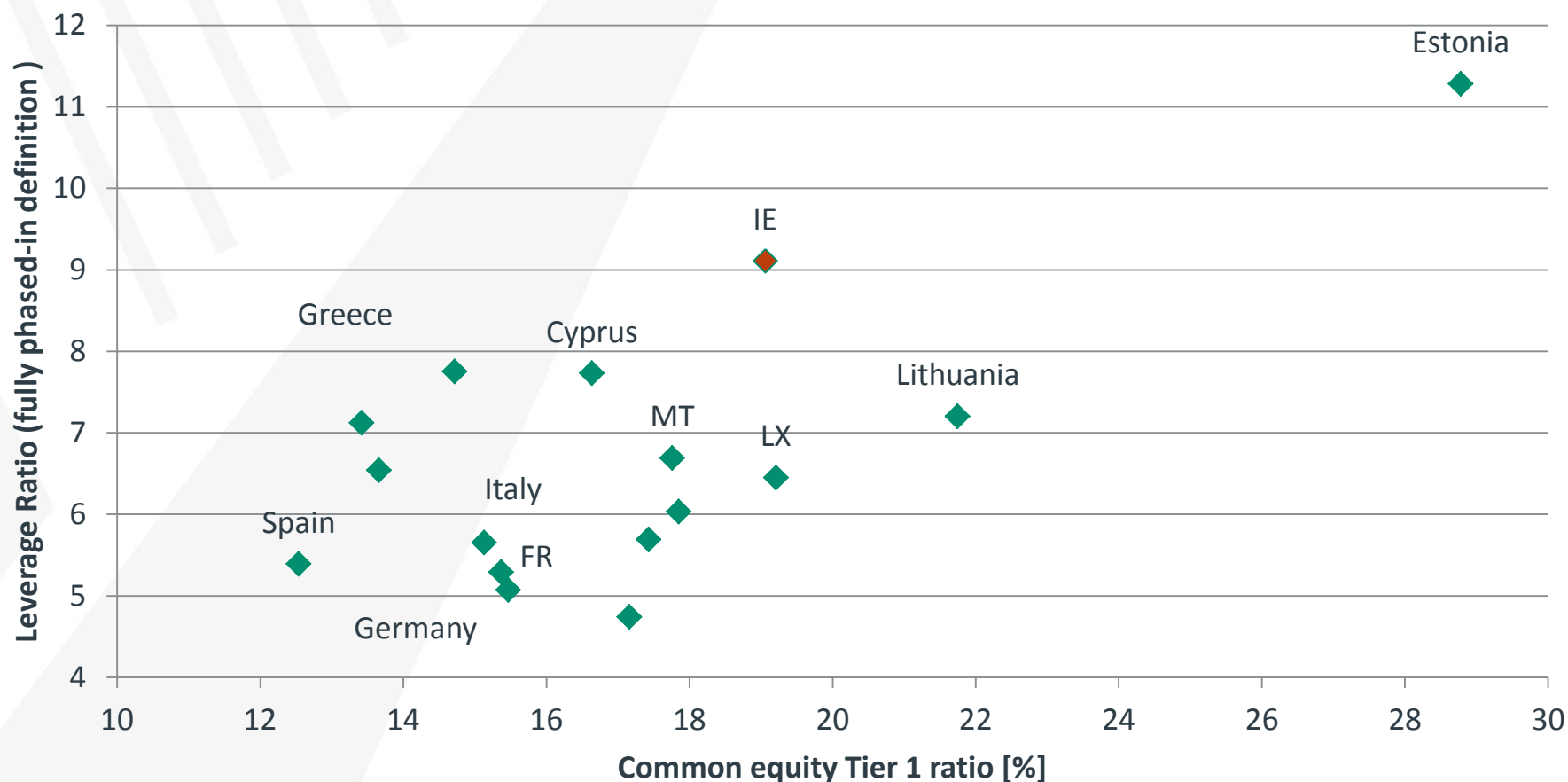
## Net Interest Margin



## Profit before Tax



# Ireland's banks are among the best capitalised in Europe



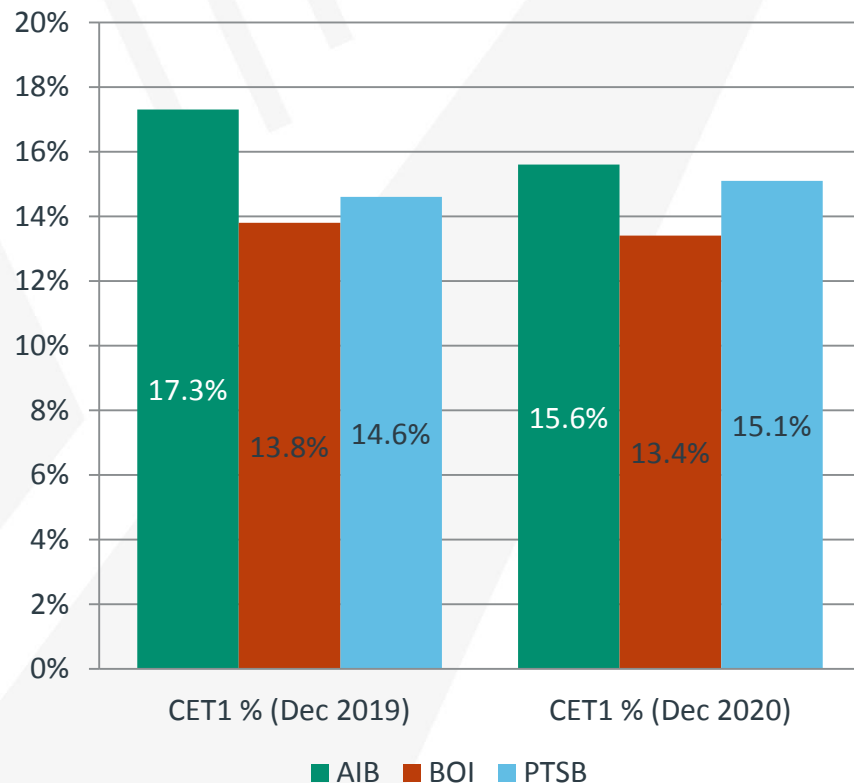
Source: ECB consolidated banking data (Q3 2020)

Note: Leverage Ratio = Tier 1 capital/Total leverage exposure; CET1 = Common tier 1 capital/total risk exposures. "Fully loaded" refers to the actual Basel III basis for CET1 ratios.

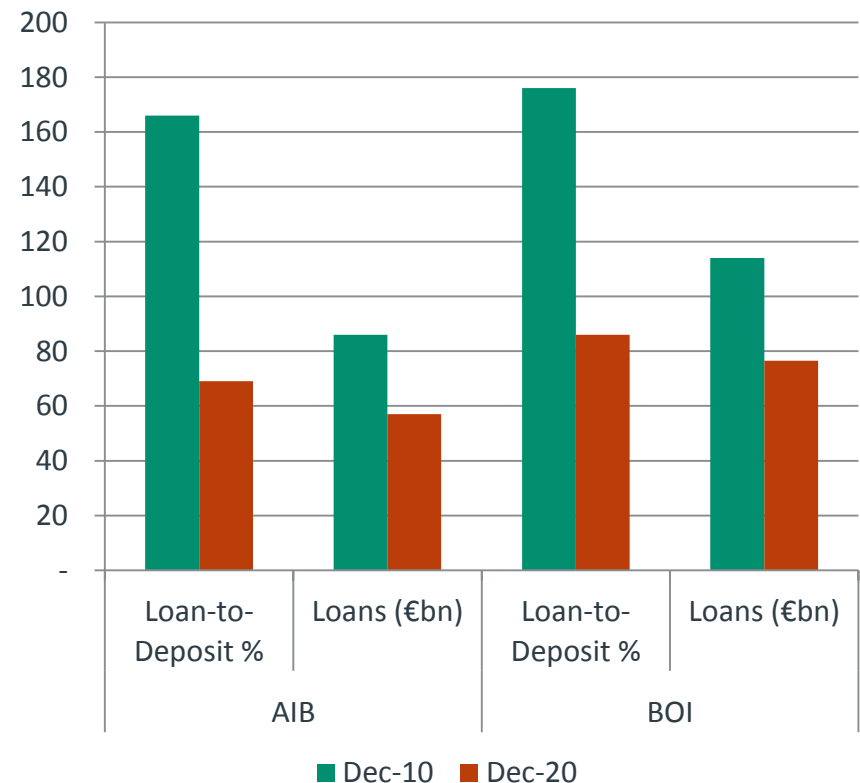


# Capital ratios strengthened as banks shrunk and consolidated in last ten years

## CET 1 capital ratios allow for ample forbearance in 2020



## Loan-to-deposit ratios have fallen significantly as loan books were slashed



Source: Published bank accounts

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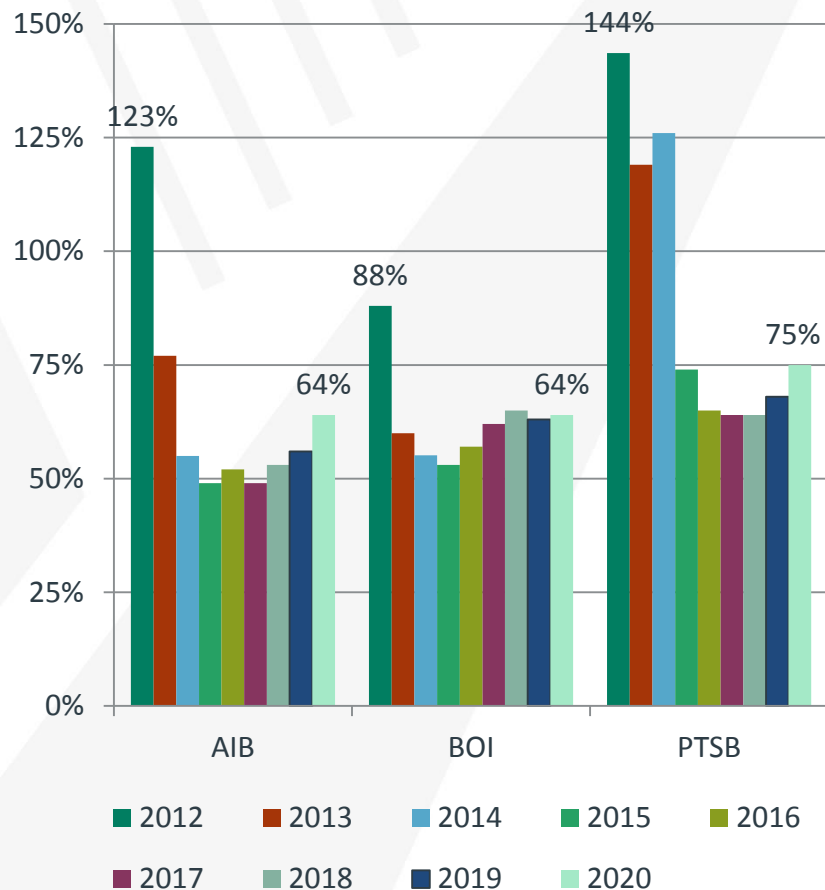


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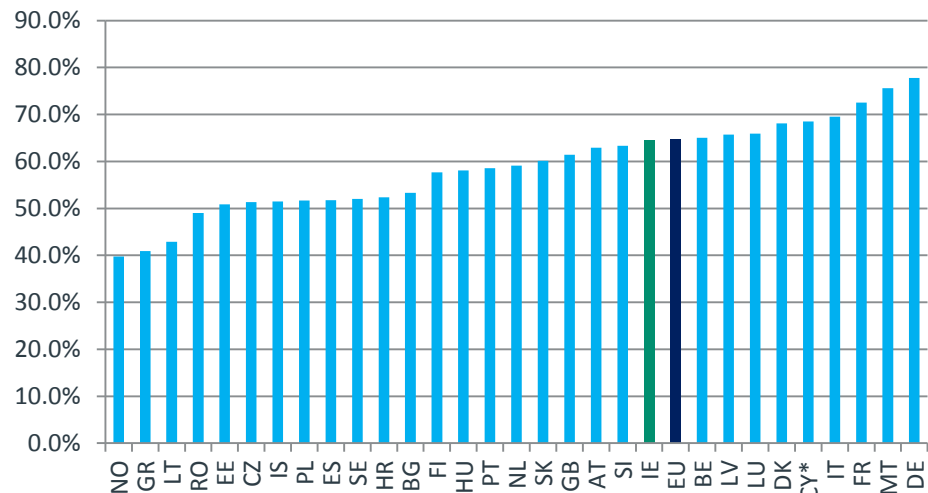
Note:  
“Fully loaded” CET1 ratios used. Refers to the actual Basel III basis for CET1 ratios.

# Domestic bank cost base has risen due to Covid

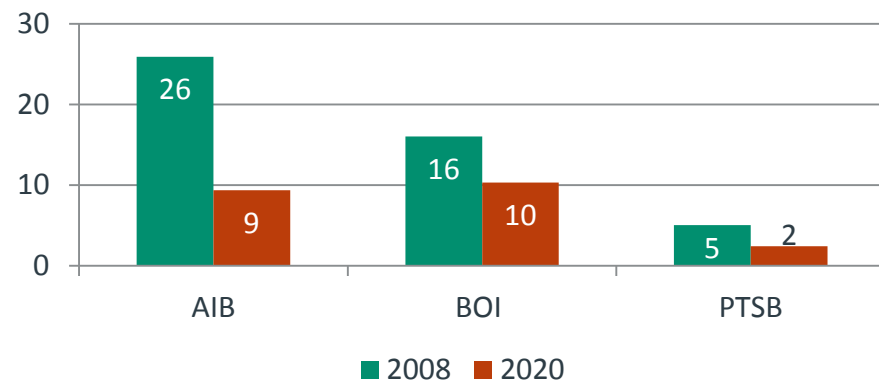
Cost income ratios increased ...



IE banks just below EU average in cost/income



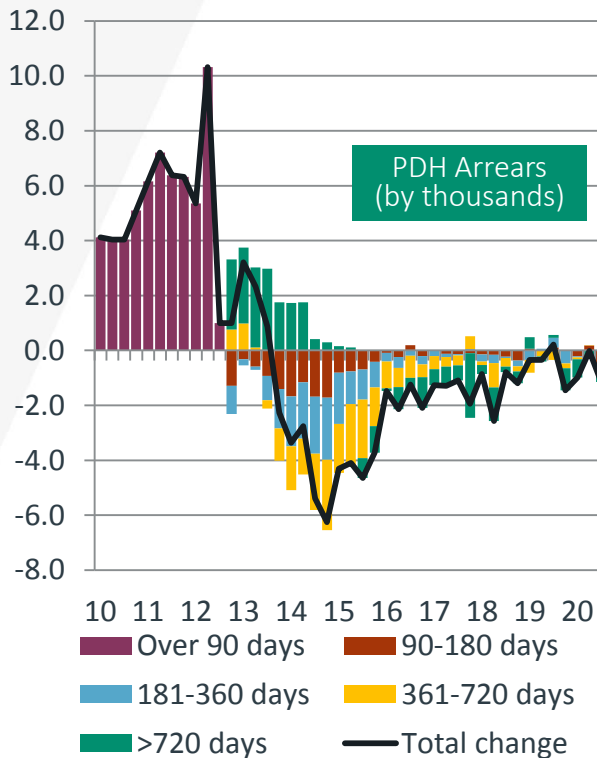
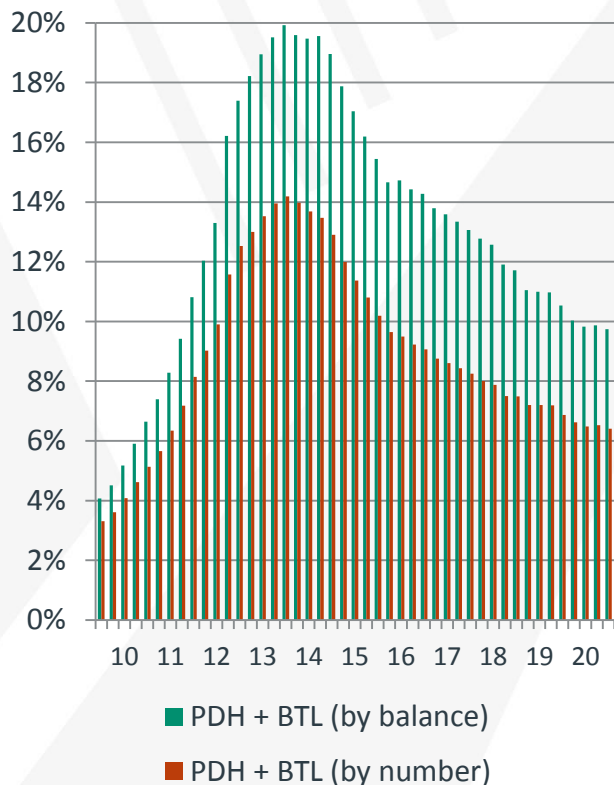
Staffing (000s) halved post crisis



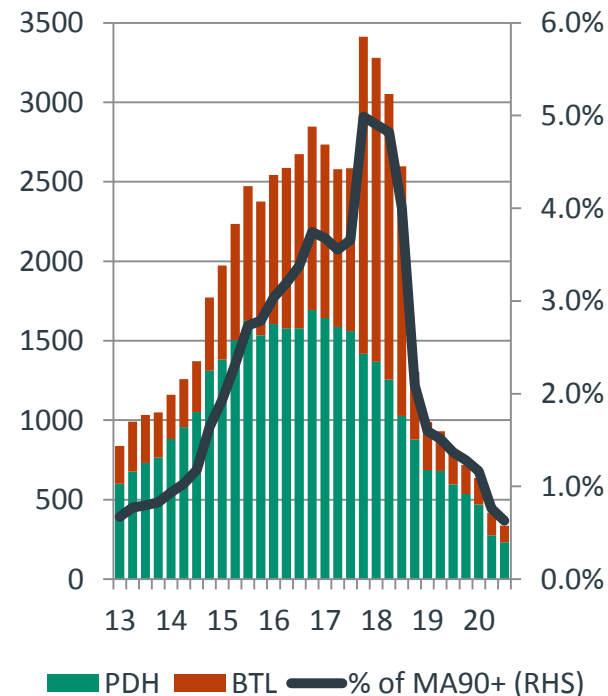


# Mortgage arrears have not reversed course yet but we will know more on asset quality when economy re-opens

## Mortgage arrears (90+ days)



## Repossession\*



Source: CBI



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\* Four quarter sum of repossessions. Includes voluntary/abandoned dwellings as well as court ordered repossessions

# The European Commission's ruling on Apple annulled in court; further appeal by EC means case continues

- Back in 2016, the EC had ruled that Ireland illegally provided State aid of up to €13bn, plus interest to Apple. This figure is based on the tax foregone as a result of a historic provision in Ireland's tax code. The Irish Government closed this provision on December 31<sup>st</sup> 2014.
- Apple appealed the ruling, as did the Irish Government. The General Court granted the appeal in July, annulling the EC's ruling.
- This case had nothing to do with Ireland's corporate tax rate. It related to whether Ireland gave unfair advantage to Apple with its tax dealings. The General Court has judged no such advantage occurred.
- The Commission has decided to appeal to a higher court: the European Court of Justice. This process could still be lengthy. Pending the outcome of the second appeal, the €13bn plus EU interest will remain in an escrow fund.
- The NTMA has made no allowance for these funds in any of its planning throughout the whole process. There is no need to adjust funding plans given the decision by the General Court in July or by the Commission's decision to appeal.

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