

Ireland: Multinational firms supportive amid Covid shock

Economic structure and ECB have allowed for large fiscal policy response

November 2020



Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta
National Treasury Management Agency

Index

[Page 3: Summary](#)

[Page 8: Macro](#)

[Page 23: Fiscal & NTMA funding](#)

[Page 40: Structure of Irish Economy](#)

[Page 49: Brexit](#)

[Page 58: Property](#)

[Page 65: Other Data](#)



Summary

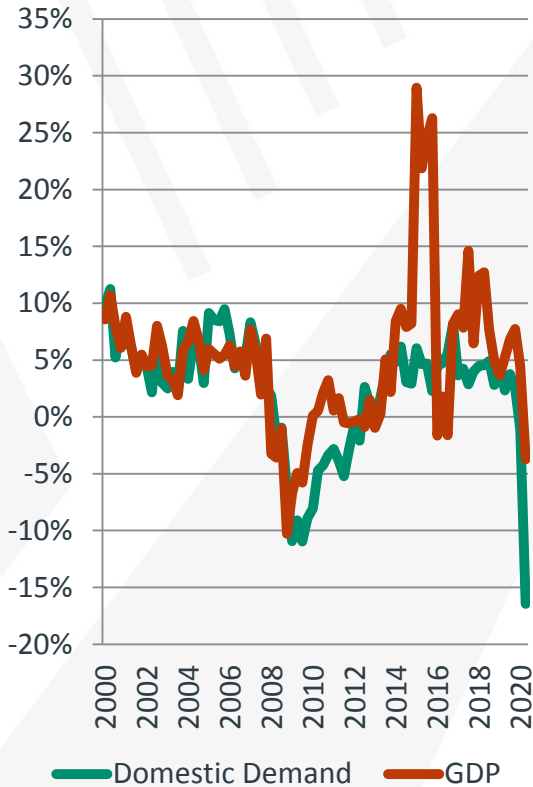
Economy's structural advantages come to the fore



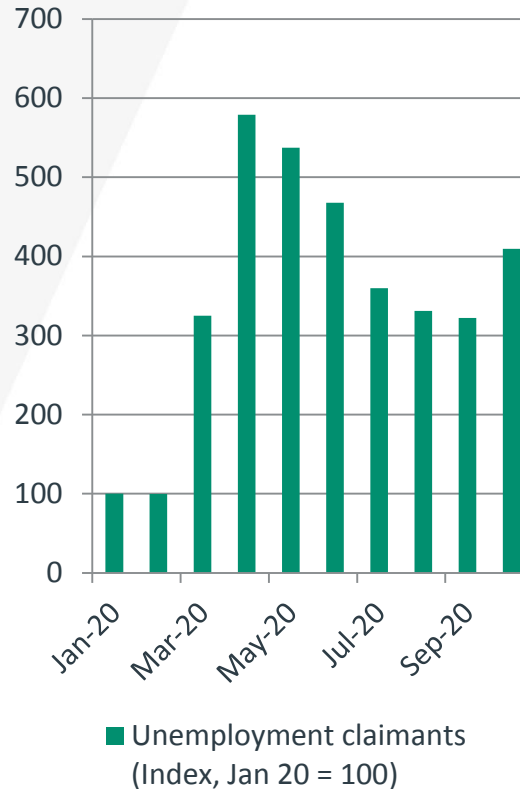
Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta
National Treasury Management Agency

Recovery in Q3 as workers and spending returned but second lockdown impacts in Q4

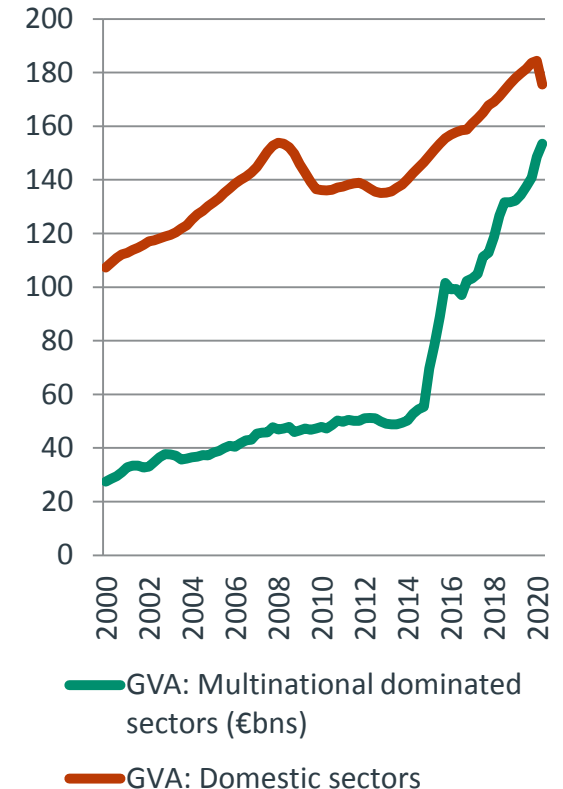
GDP holds up while domestic sectors struggle



U rate uncertain**; Lockdown impacted Oct



Value added from ICT & pharma has given Ireland resilience



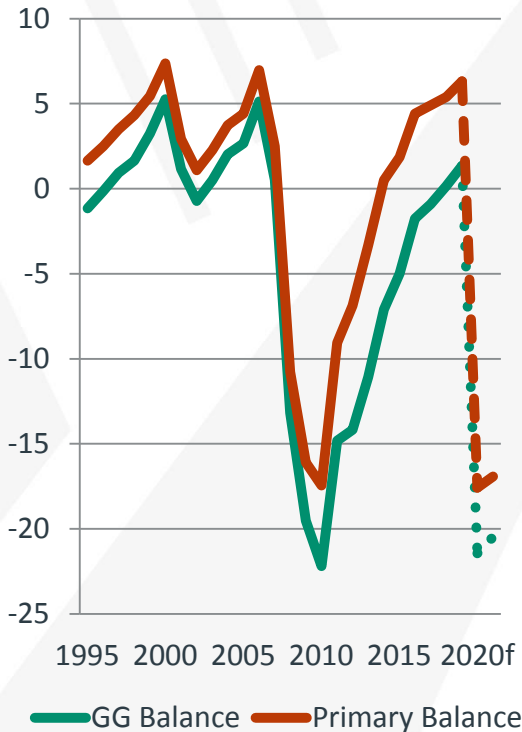
Source: CSO

* 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.

Ireland used 2014-19 growth to improve debt sustainability; added fiscal room that will now be needed to fight Covid

Primary surpluses to end; Improved debt position created
GG deficit forecast €21.6bn room for fiscal response



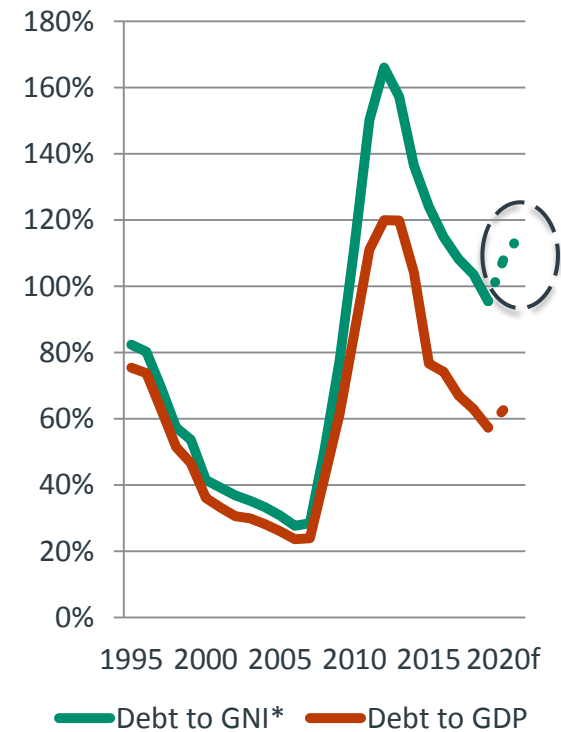
Debt-to-GNI*
(95% 2019, from 166% peak)

Debt-to-GG Revenue
(230% 2019, from 353%)

Average interest rate
(2.1% 2019, from 5.1%)

Debt-to-GDP^
(57% 2019, from 120%)

Debt fell to 95% of national
income, but will rise again



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

Recession

Ireland is in recession. Key question is for how long?

So far the most extreme outcomes have been avoided. Economy has begun first steps to recovery along uneven road.

Exposure

Ireland's domestic economy hit hard like others but internationally-traded sectors (Pharma and ICT) have been less impacted

Brexit risk in background

Policy

Significant stimulus announced equivalent to 21% of GNI* over 2020 and 2021

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



NTMA has funded €22.75bn of revised funding plan of €20-€24bn; NTMA expects to hit upper end of range

Flexibility

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

Funding will come from several sources. Bonds, short-term paper and private placements.

10 years

Weighted average maturity of debt one of longest in Europe

The ECB's QE enabled NTMA to extend debt maturities, reduce interest cost and repay the IMF. Now ECB is buying aggressively again with few limitations

AA-

Ireland has been affirmed in AA space by S&P

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



An aerial night view of a city, likely Dublin, Ireland, featuring a river, a bridge, and illuminated buildings. The scene is captured from a high angle, showing the city's layout and the lights reflecting on the water.

Section 1: Macro

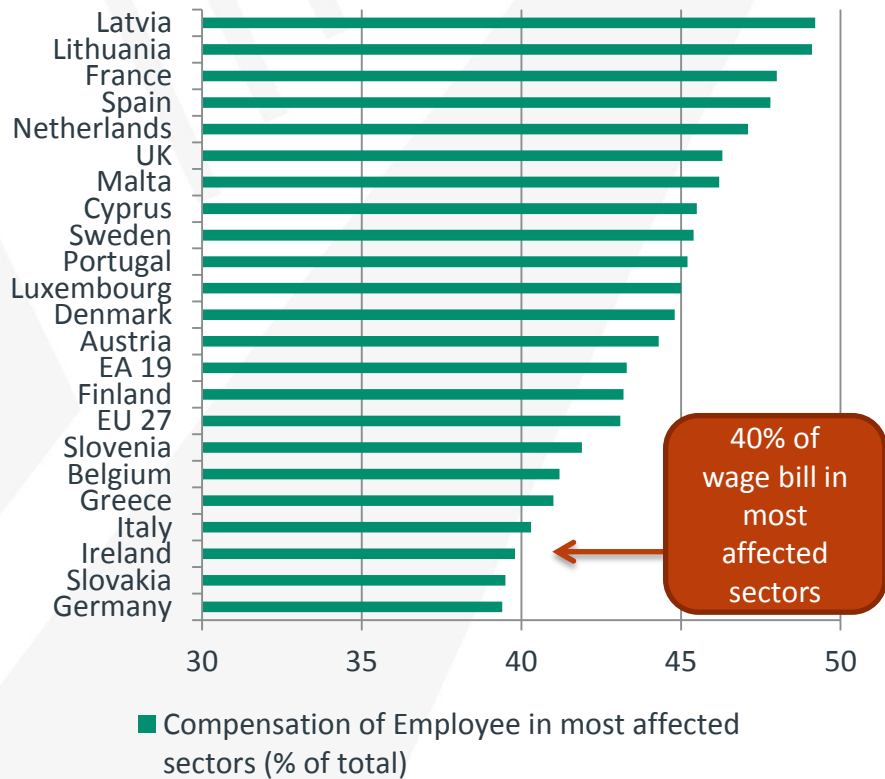
Covid-19's contrasting impact evident in Ireland's national accounts; Q3 rebound in jobs and spending



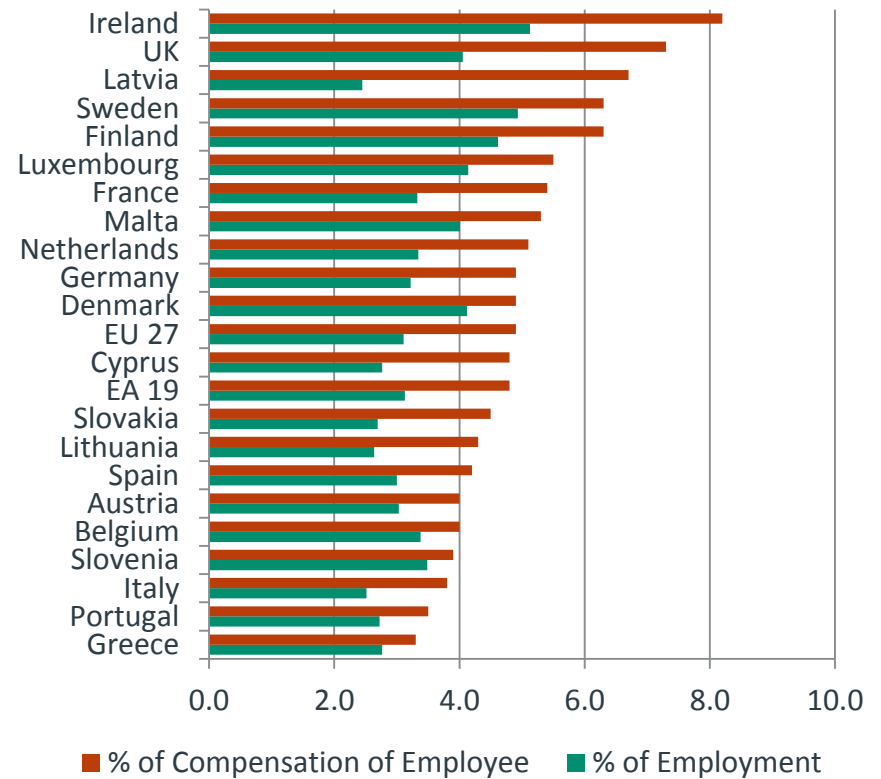
Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta
National Treasury Management Agency

On a relative basis Ireland could perform better than most EU peers – thanks to big technology and pharma firms

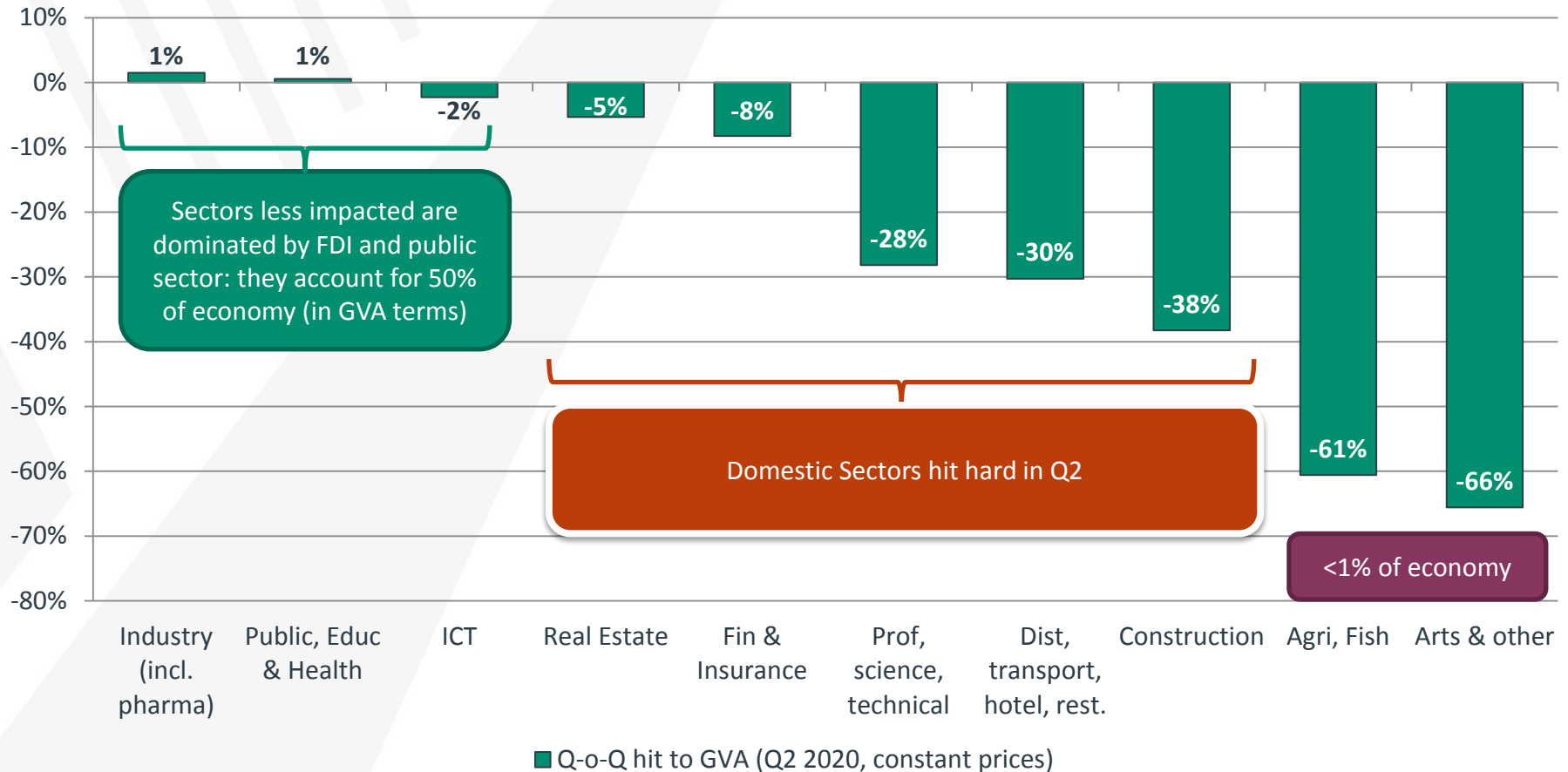
The Irish wage bill is not going to be as impacted as other countries



ICT sector has acted as a bulwark in protecting incomes in Ireland

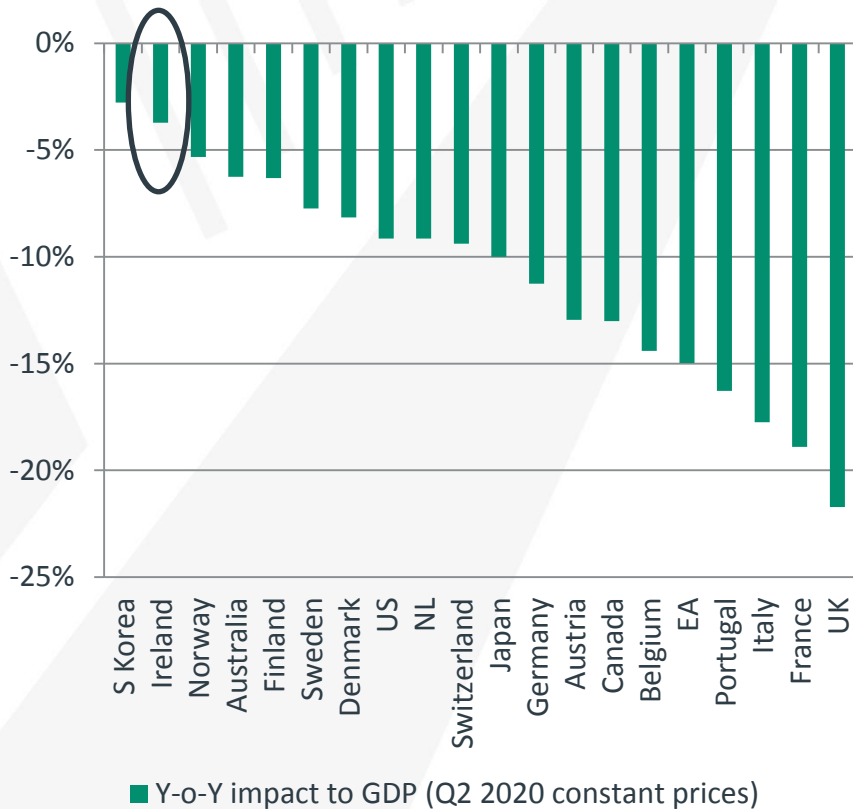


Sector breakdown in Q2 – Multinationals holding up well, domestic side hit hard

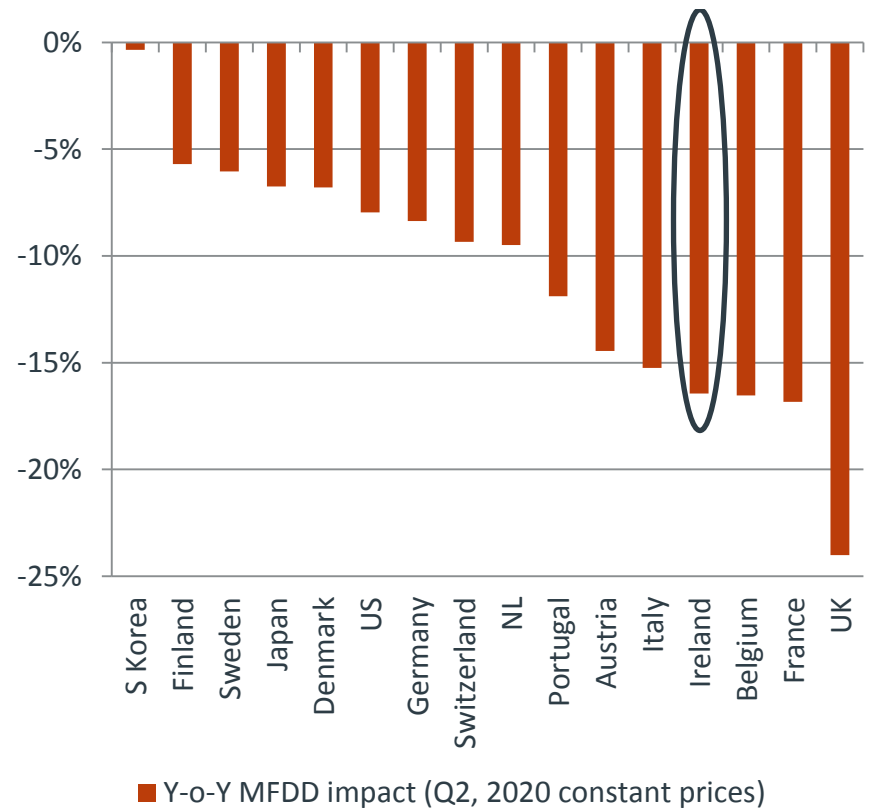


True Irish economy picture perhaps halfway between change in GDP and domestic demand because of FDI

Real GDP down 3.7% Y-o-Y in Q2 for Ireland: GDP overstates impact of multinationals

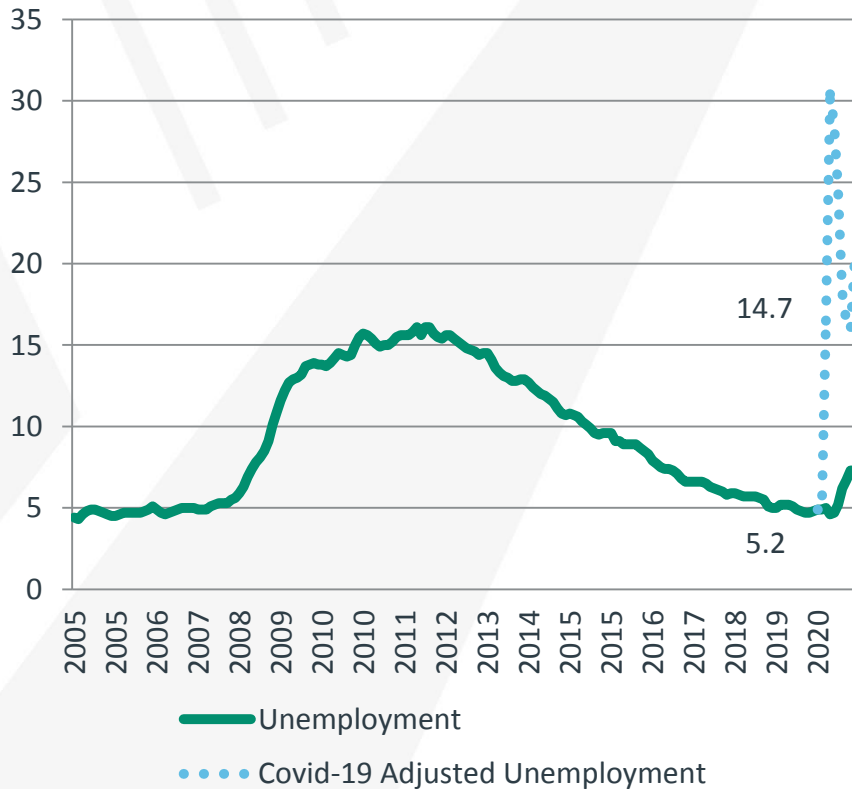


Real MFDD down 16.4% Y-o-Y in Q2: MFDD understates impact of multinationals

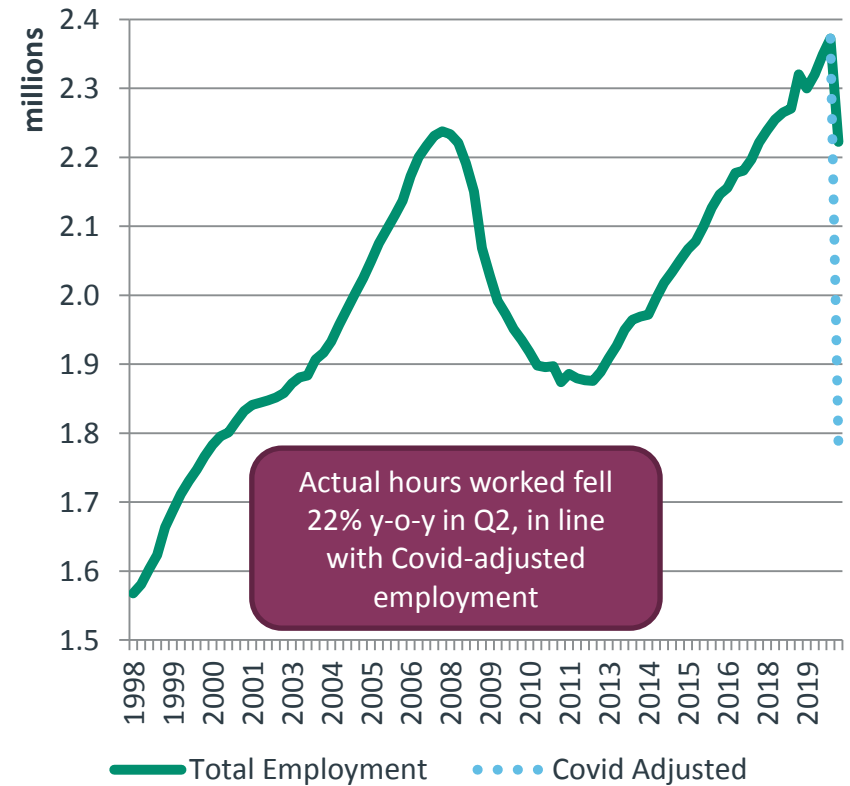


Labour market data shows stark Covid-19 impact; October lockdown has seen a reversal in unemployment rate

True unemployment rate is uncertain:
Covid-19 adjusted rate 20.2%* in October



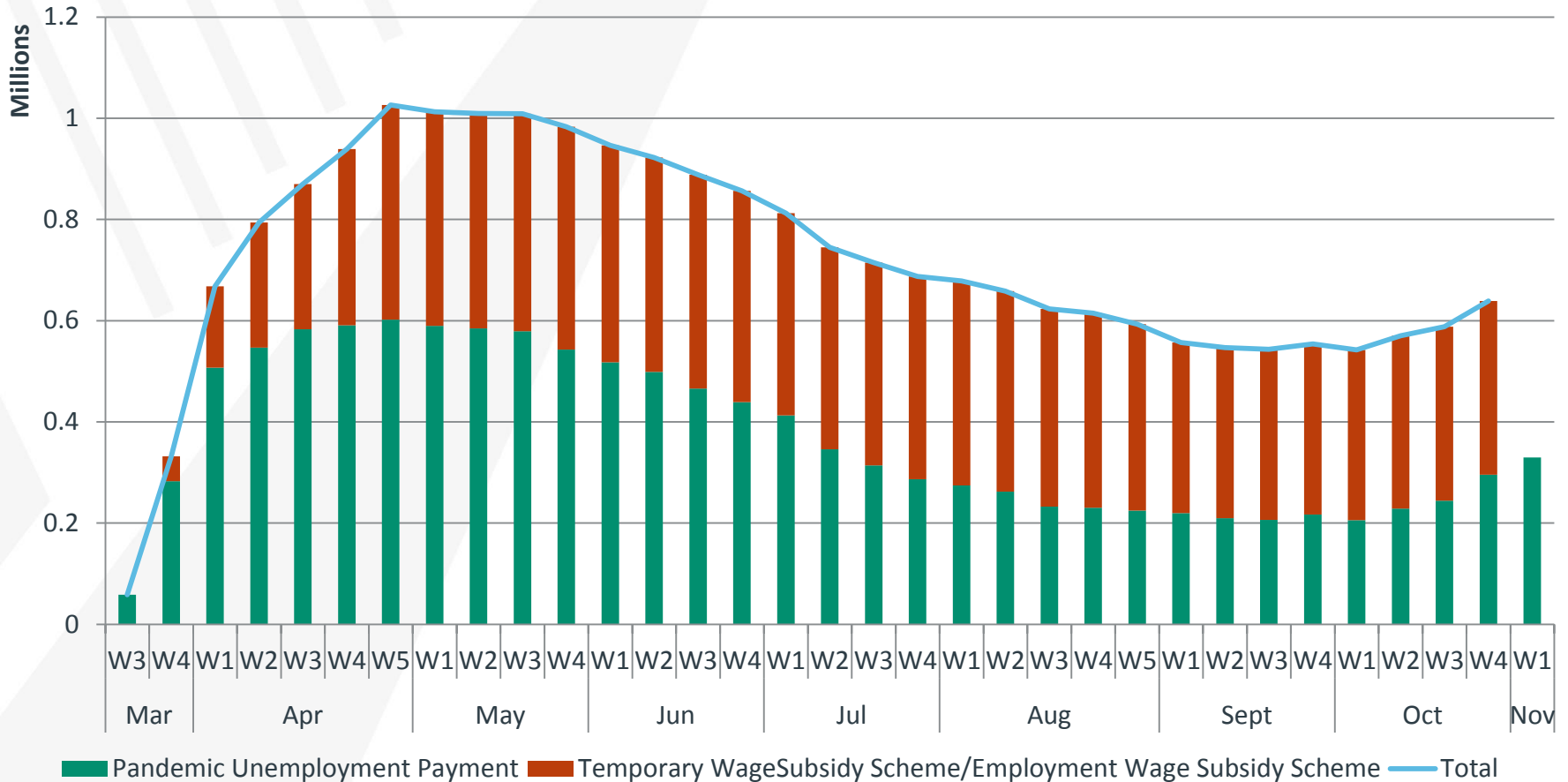
At end-Q2, adjusted employment was estimated at 1.8m



Source: CSO

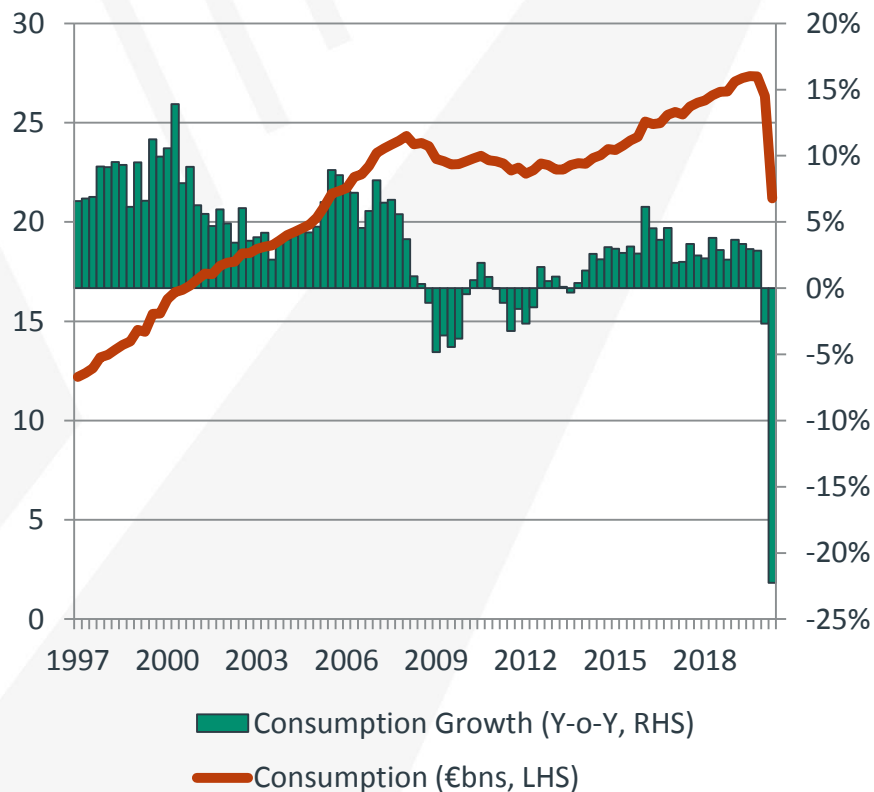
* The CSO have estimated the upper bound of the unemployment rate at 20.2% in October. The CSO have urged caution around labour market data given the likelihood of revisions and the unique nature of employment status for some people in the pandemic.

Government income supports are extended into 2021; October numbers increasing as lockdown re-instated

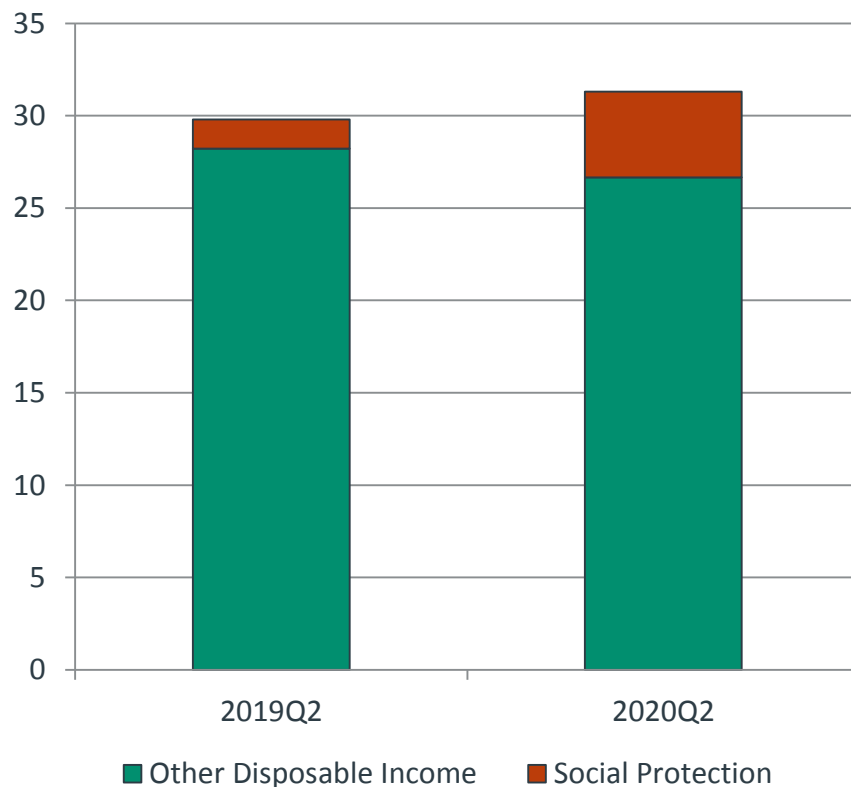


Consumption fell sharply in Q2 despite incomes being maintained; the result is record savings rates

Consumption sharply hit in Q2 – down 20% q-o-q

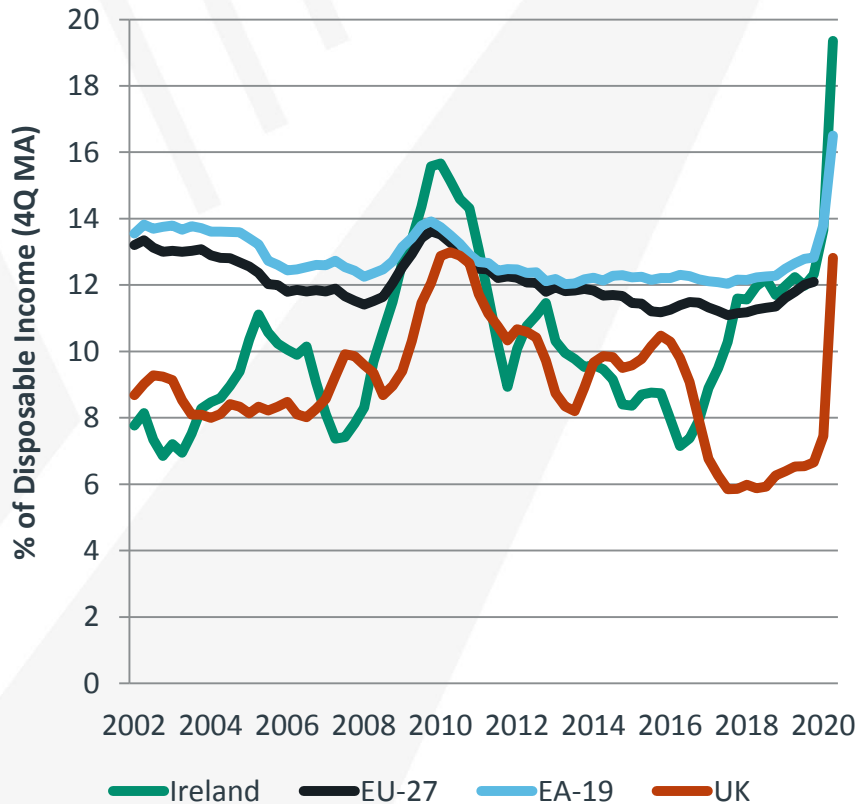


But income supports have meant aggregate income was maintained

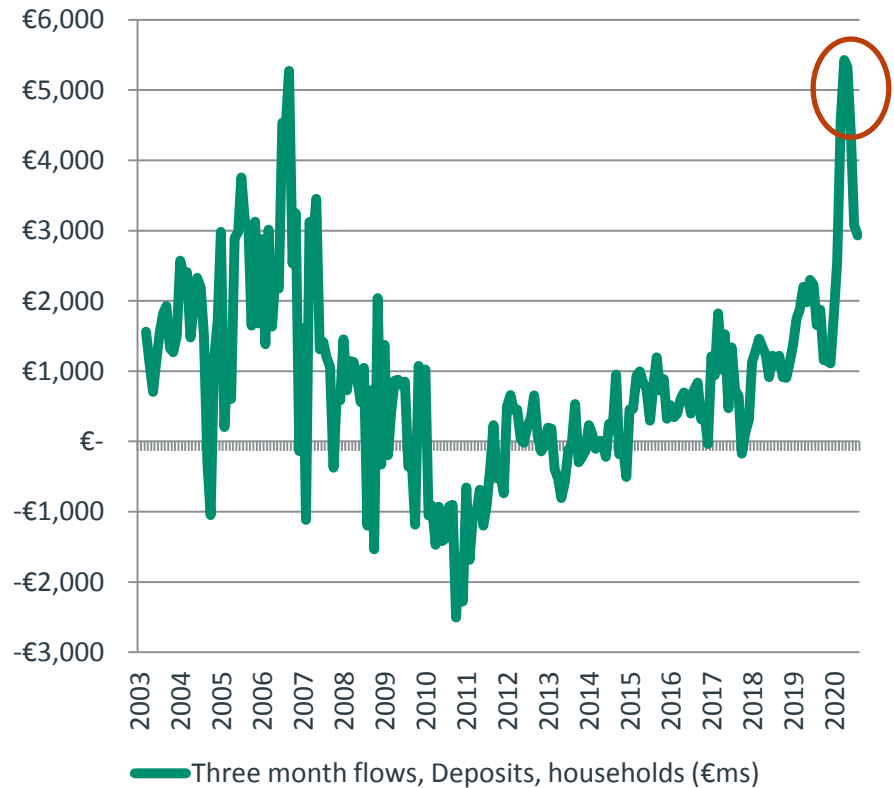


Savings rate increased sharply in Q2 due to forced savings

Gross household saving rates jump in Q2 – Ireland larger than most

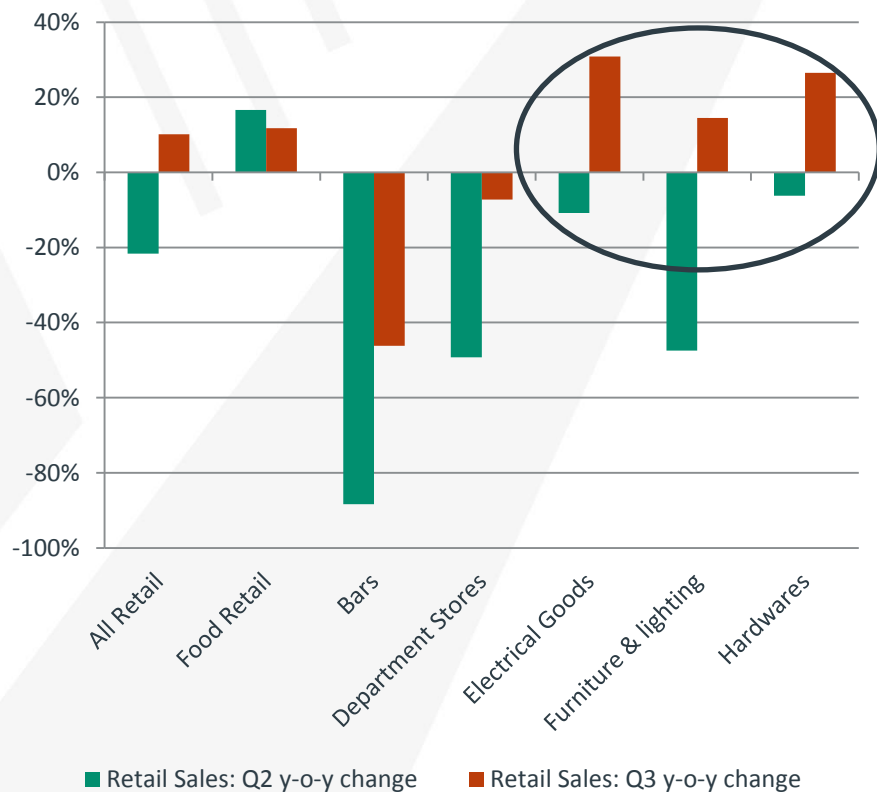


Bank deposits shows increased saving as h'holds couldn't consume in recent months

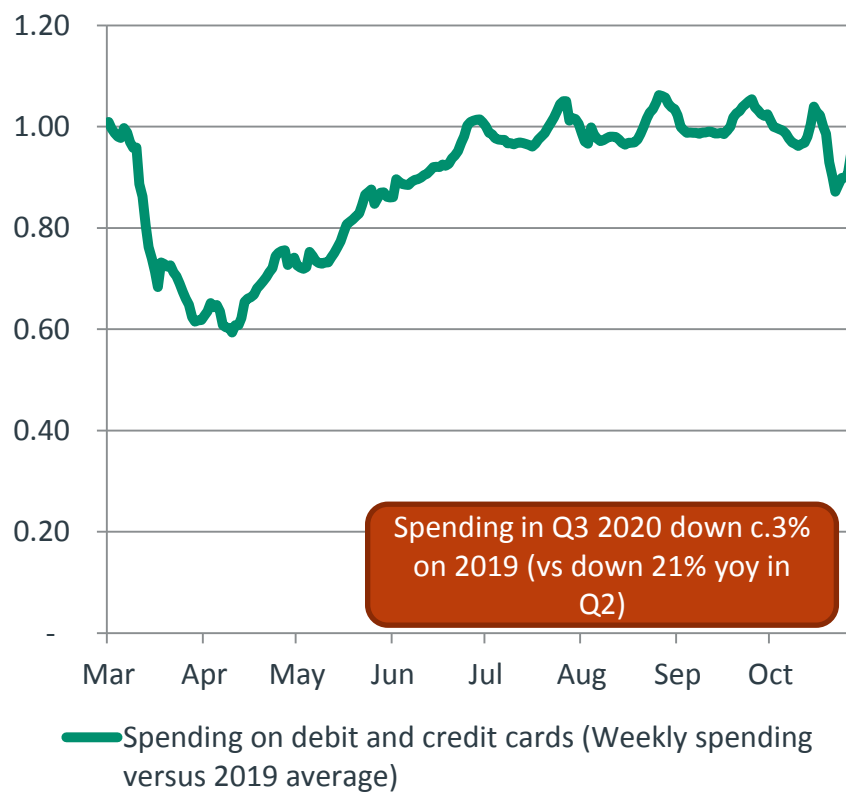


High frequency indicators suggest consumption rebounded in Q3

Retail sales rebounded on back of housing improvements; some sectors struggling

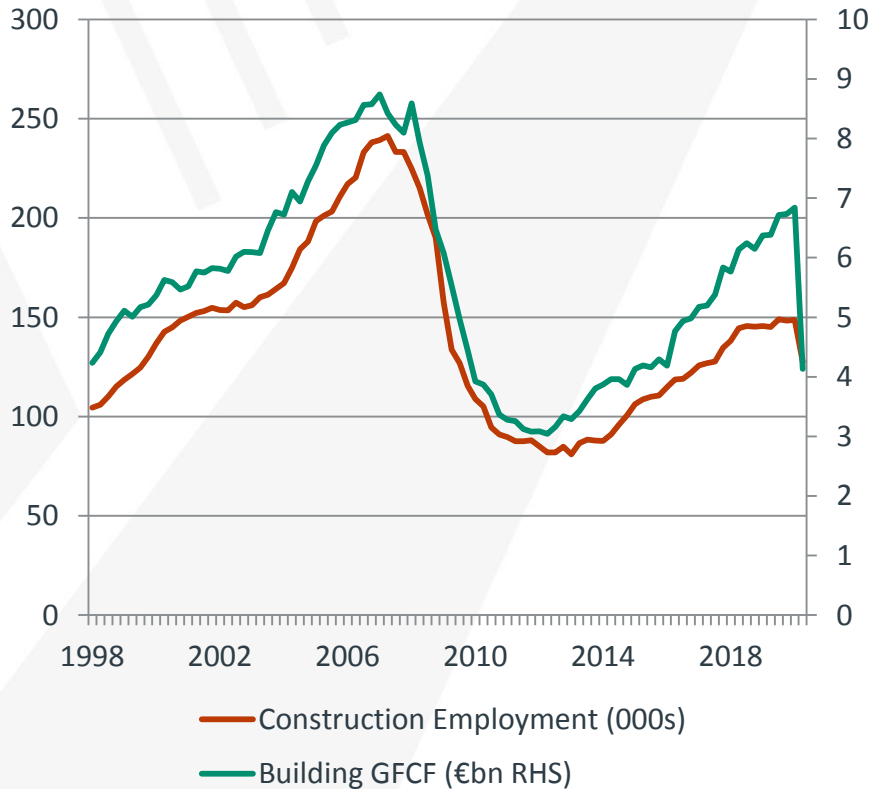


Card data shows Q3 consumption rebound; lockdown impacted October but not like Q2

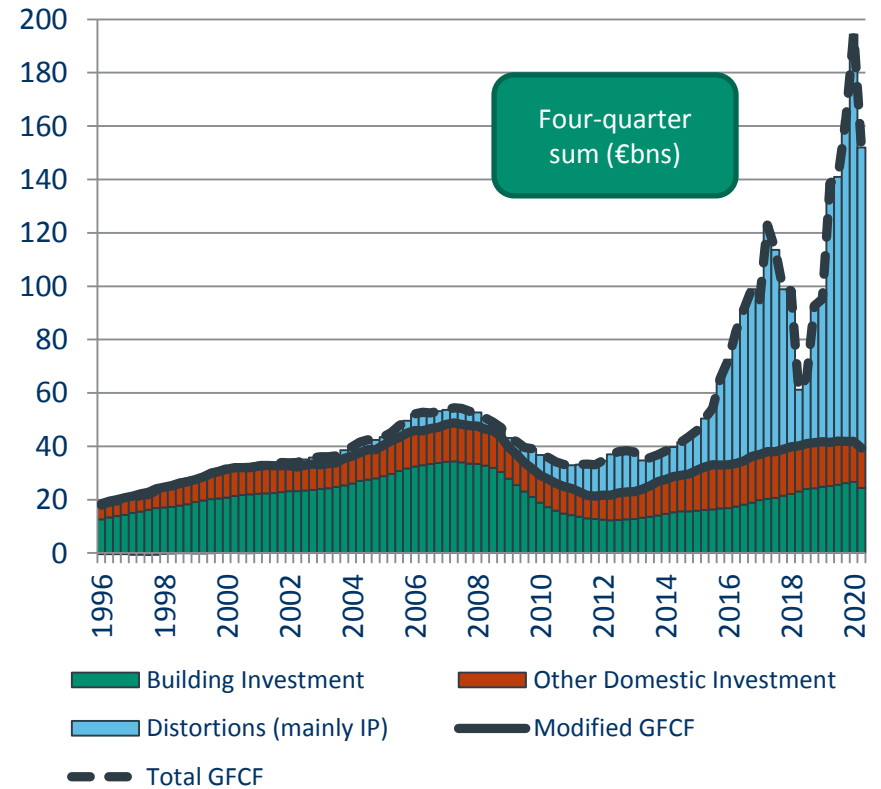


Investment falls 28% as construction sector was shuttered for six weeks before restart in mid-May

Building and construction investment by 40% hit in Q2 but can rebound quickly

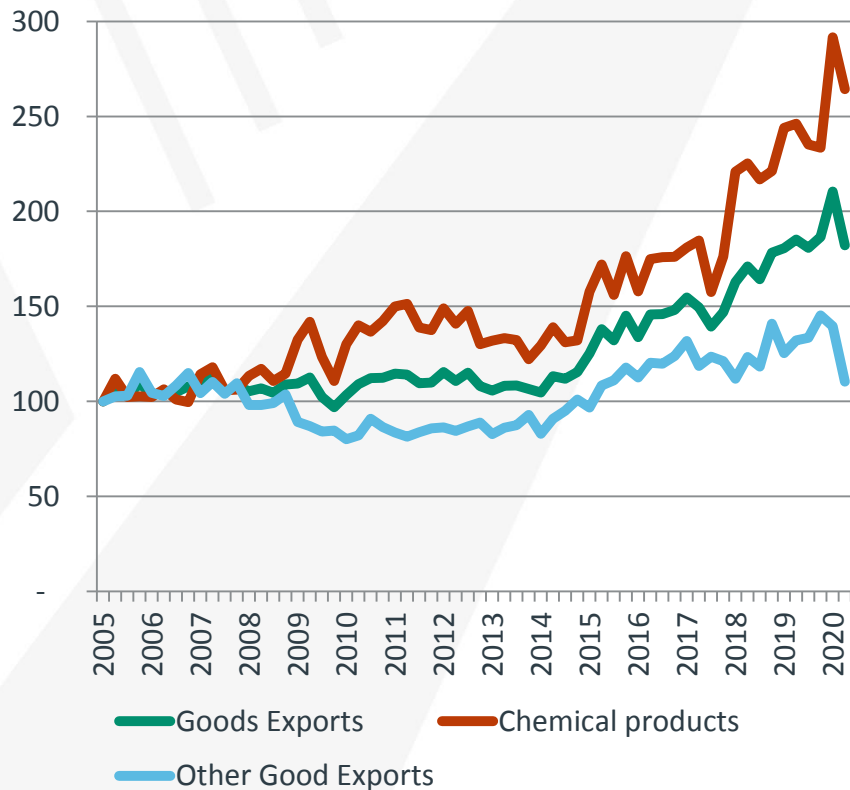


Another surge of IP into Ireland in 2019-2020 – helps ICT but distorts investment picture

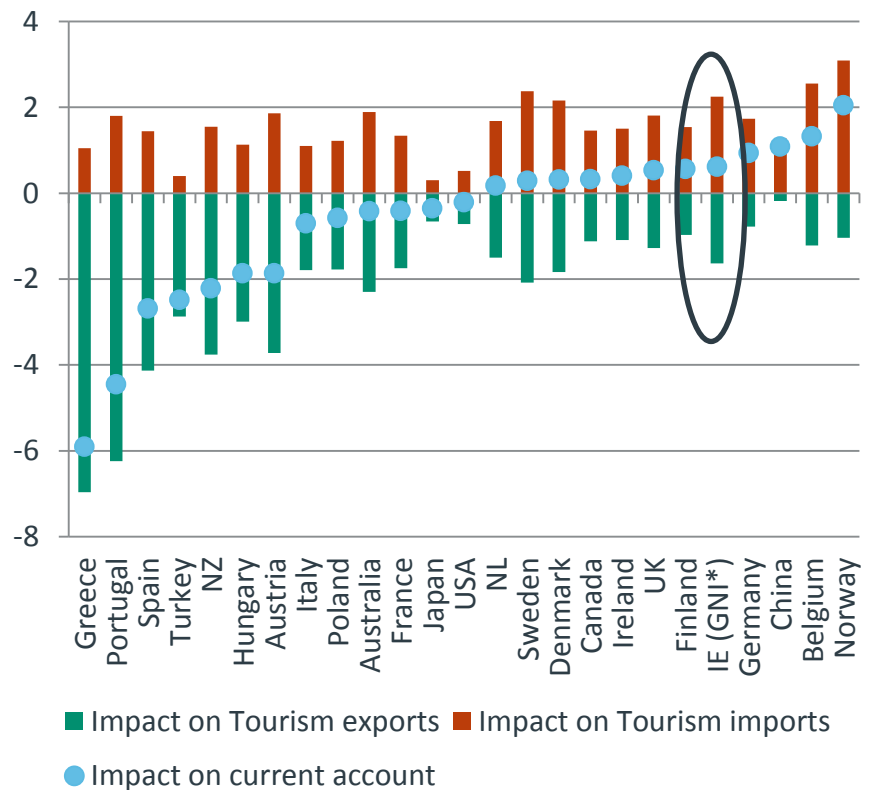


Exports have held up due to multinationals and tourism being a smaller sector for Irish economy

Goods exports were flat y-o-y in Q2 - chemical exports offset other products

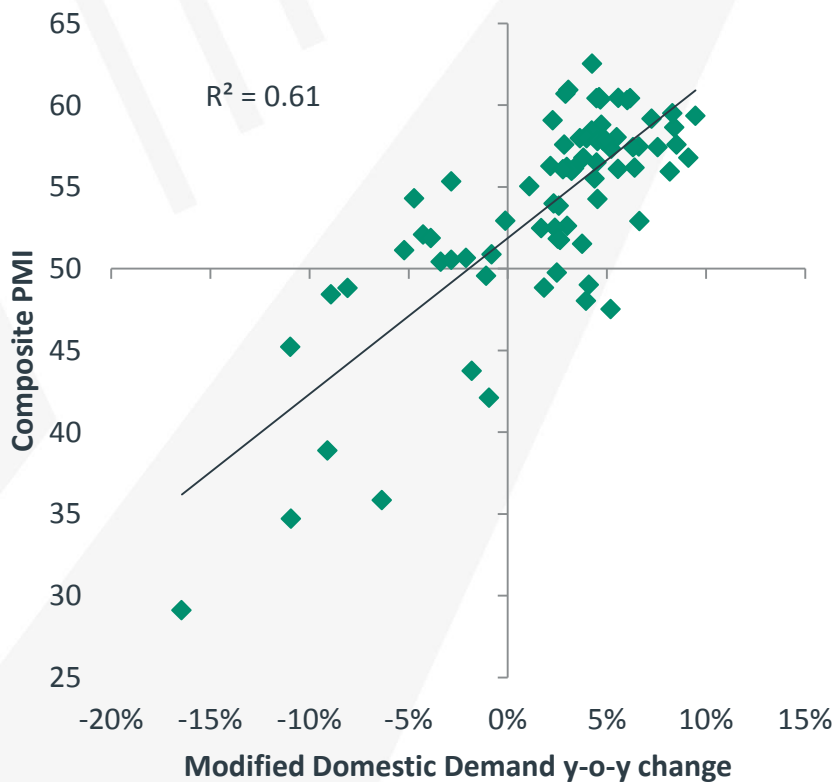


Covid-19 tourism impact on CA (% of GDP) estimated as plus for Ireland unlike others

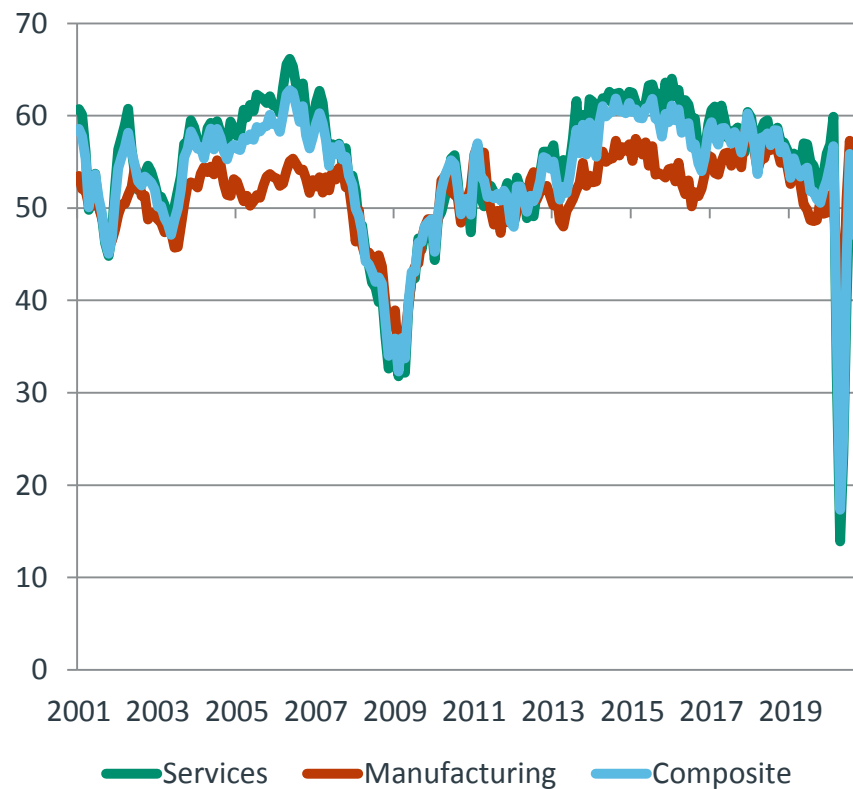


PMI - All indicators rebounded over summer but have softened recently

Ireland's Composite PMI averaged 52.3 in Q3; projects rebound in MDD in Q3



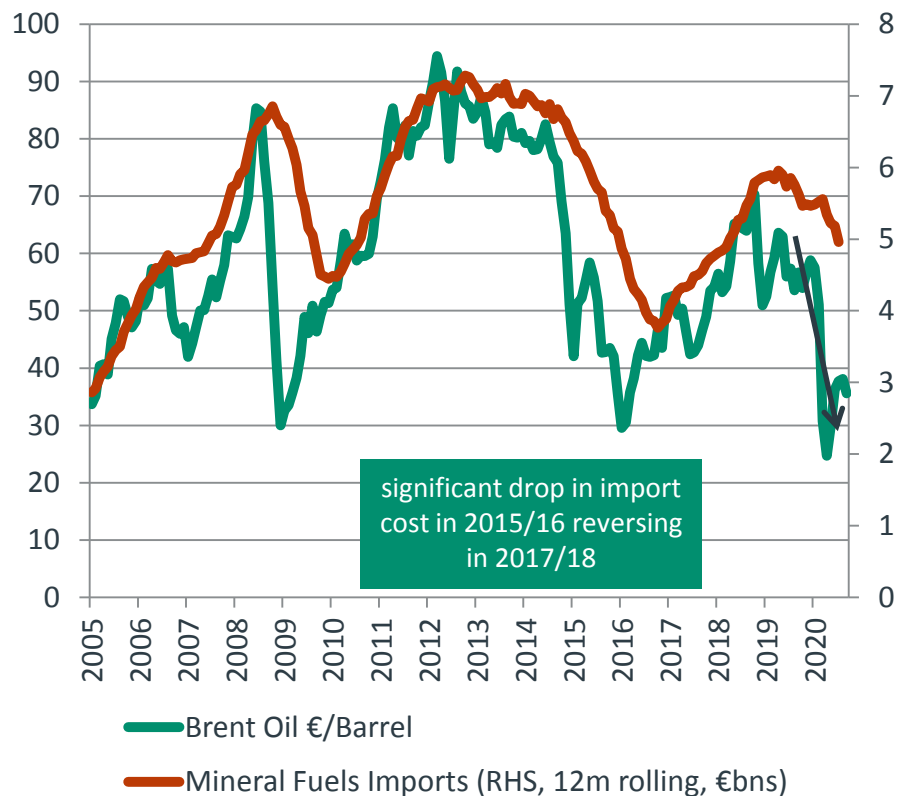
All three PMIs dipped in September – Composite 49.0, Manu 50.3, Services 48.3



External environment – monetary policy and oil positives will partially offset exogenous shock that Ireland faced

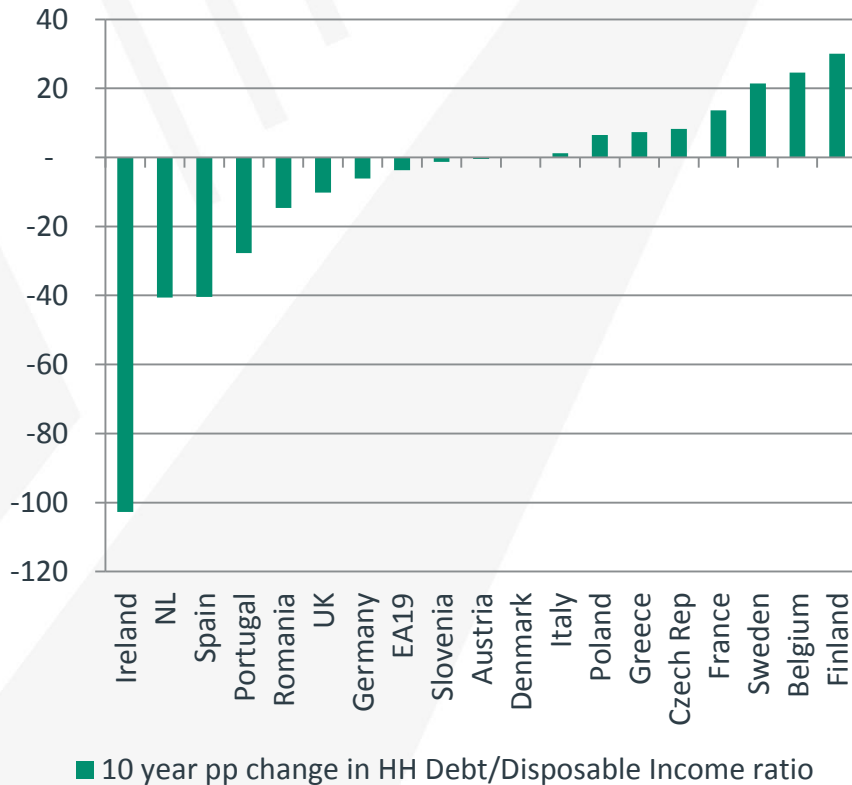
	2019	2020
EA Monetary Policy	Accommodative in Q4	Maximum accommodative
EU Fiscal Policy	Minimal	Expansionary
US Monetary Policy	Easing	Maximum accommodative
US growth	YC inversion, but still growing	Covid-19 shock
Oil price	Flat y-o-y	Significantly down despite rebound
UK growth	Brexit uncertainty headwind	Covid-19 shock; Brexit unresolved
Euro Growth	Sluggish	Covid-19 shock
Euro currency	No change y-o-y v. £; weaker v \$	Strengthening vs. Dollar

Oil price drop might boost the economy by 0.5-1% of GNI*



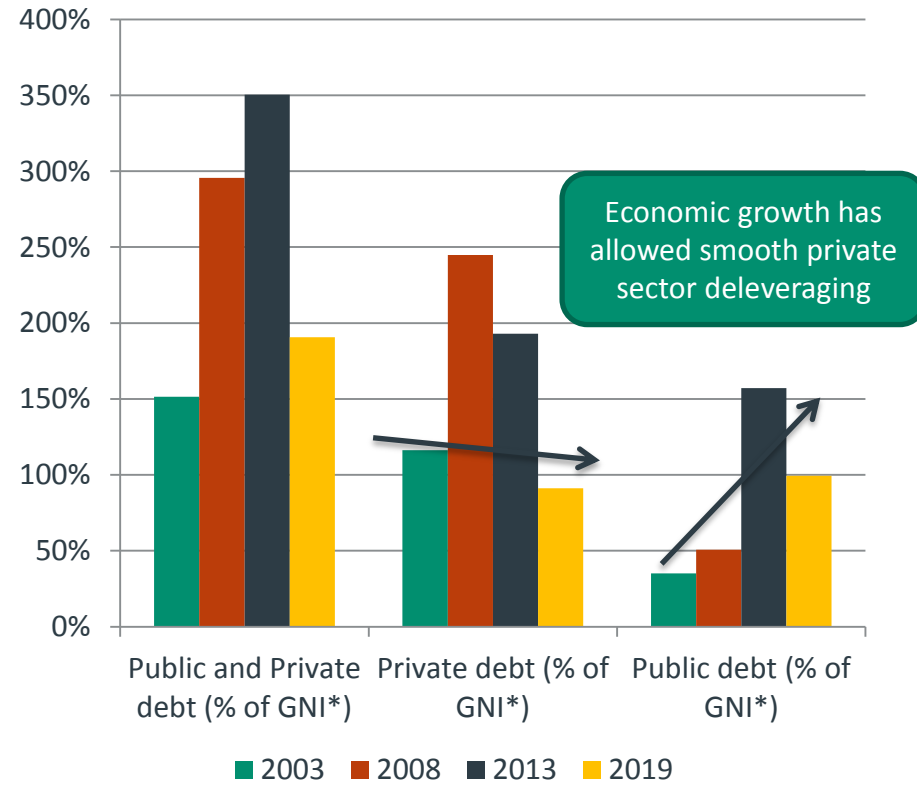
Ireland has used recovery period to repair private sector balance sheets – especially households

Household debt ratio has decreased due to deleveraging and increasing incomes



Source: Eurostat (2019 versus 2009)

Legacy of crisis is on the Government balance sheet not the private sector's

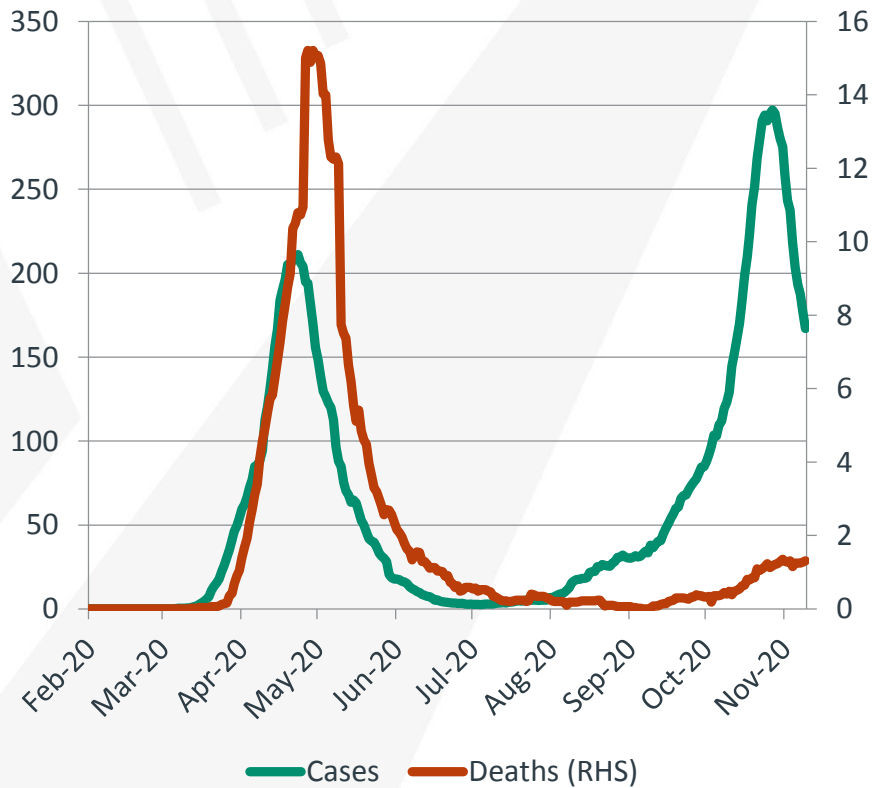


Source: CBI data, CSO

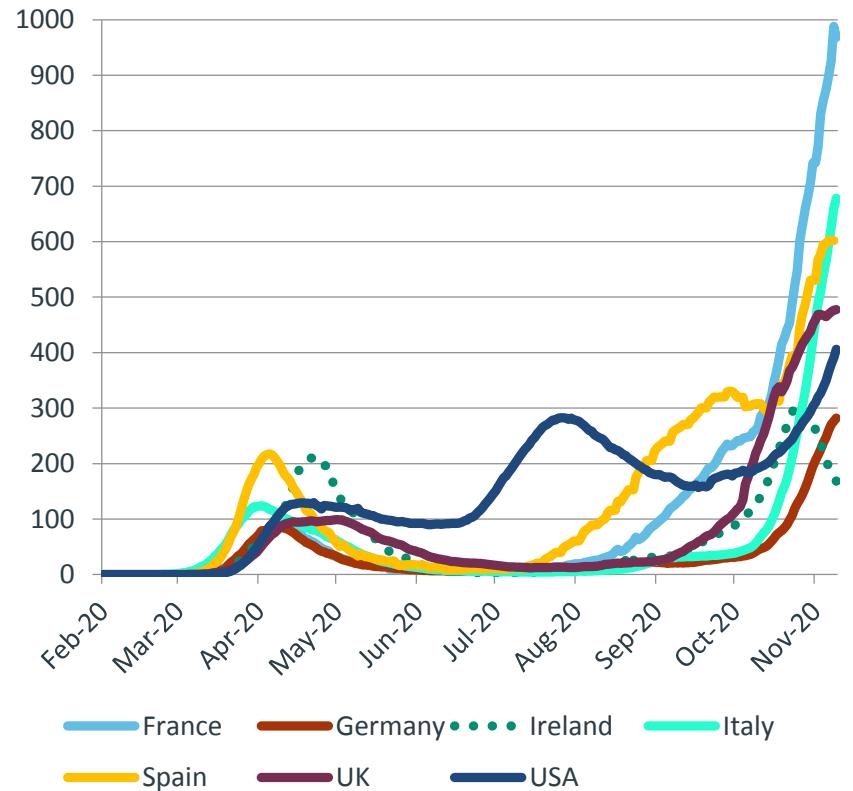


Thankfully, second wave of cases in Ireland has not led to same uptick in deaths; Cases in Ireland have fallen

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



Ireland have turned case trajectory in recent data (per 100k of population)



Section 2: Fiscal & NTMA funding

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



Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta
National Treasury Management Agency

NTMA has funded €22.75bn of revised funding plan of €20-€24bn; NTMA expects to hit upper end of range

Flexibility

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

Funding will come from several sources. Bonds, Short Term paper and the Rainy Day Fund

10 years

One of the longest weighted average maturities in Europe

The ECB's QE enabled NTMA to extend debt maturities, reduce interest cost and repay the IMF. Now ECB is buying aggressively again with few limitations

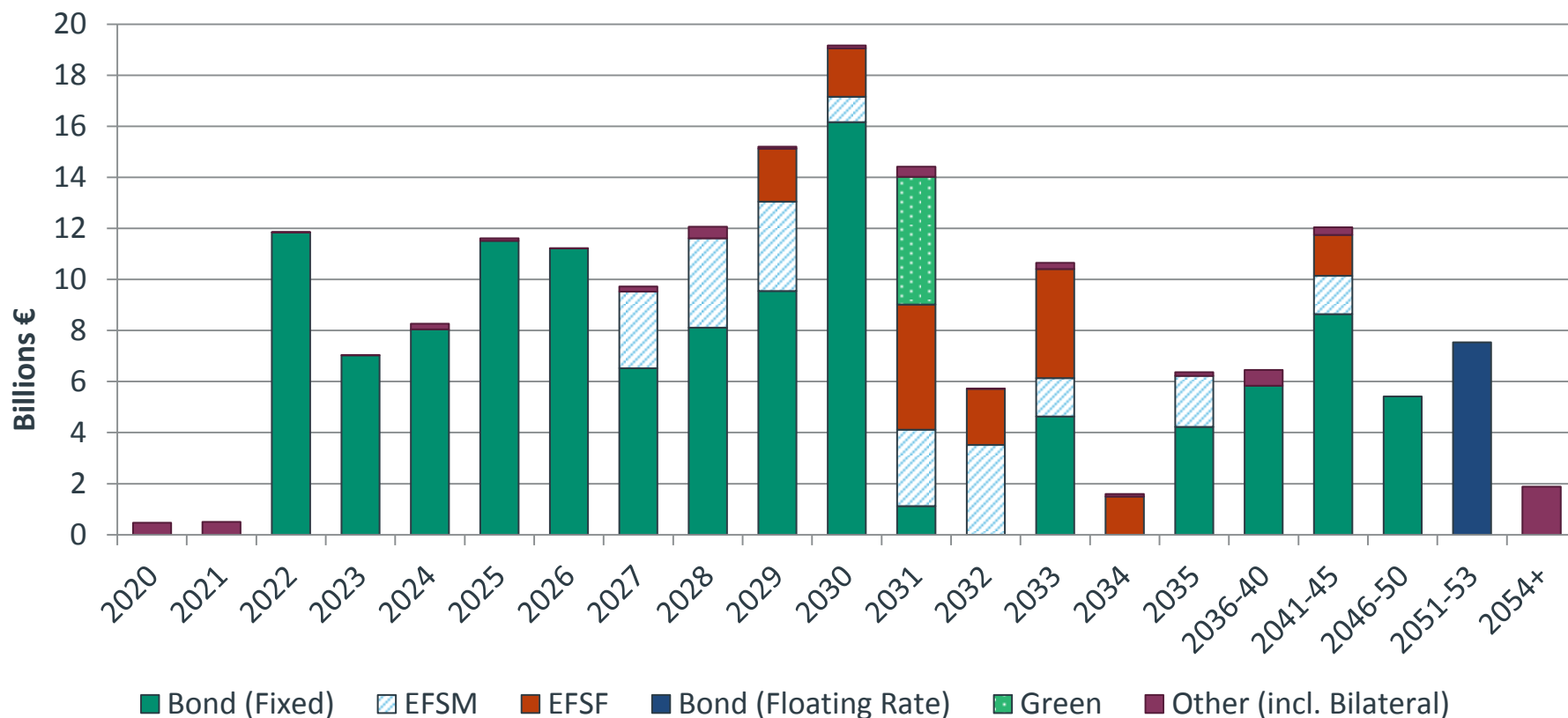
AA-

Ireland has been affirmed in AA space by S&P

On relative basis, hit to Ireland may be less than 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](#)

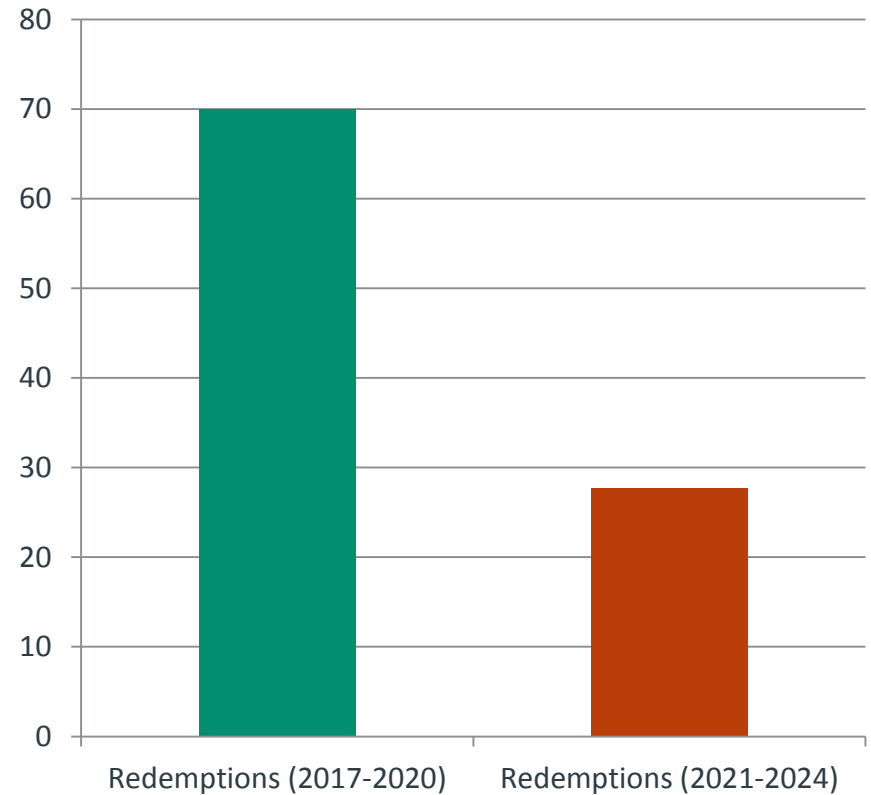
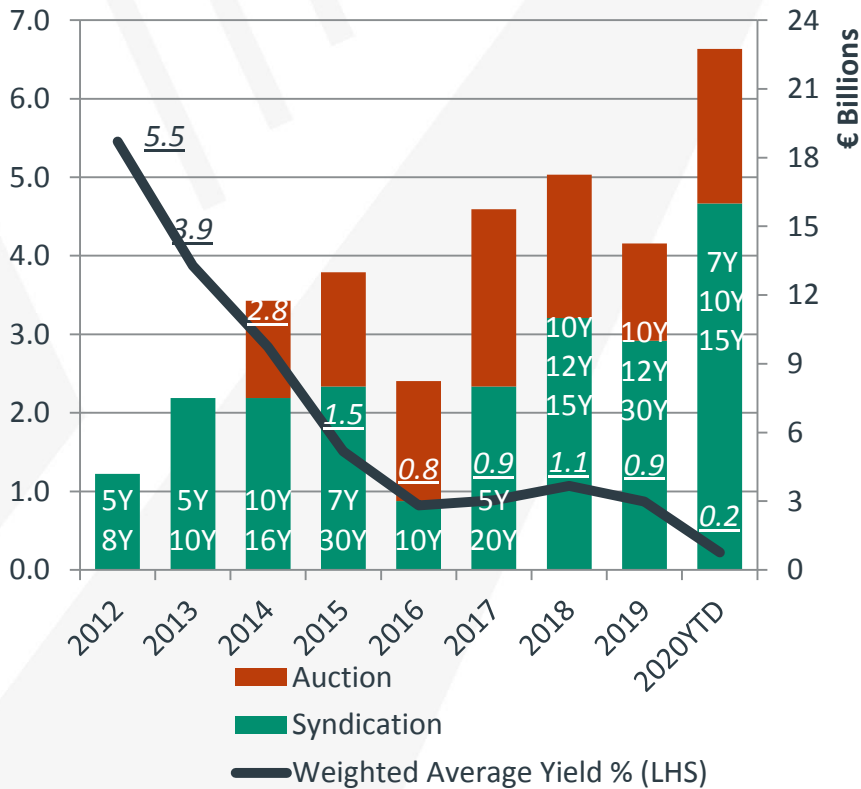
Note: EFSM loans are subject to a 7-year extensions. It is not expected that Ireland will refinance any of its EFSM loans before 2027. As such we have placed the pre-2027 EFSM loan maturity dates in the 2027-32 range although these may be subject to change.



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

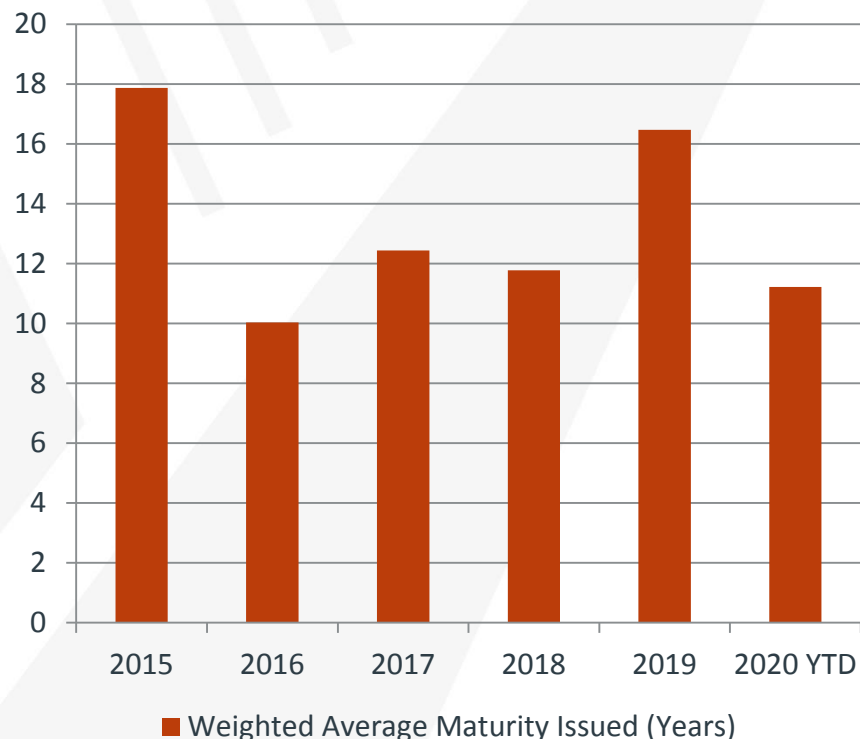
NTMA issued €91.25bn MLT debt since 2015; 13.2 yr. weighted maturity; avg. rate 0.84%

Even with extra Covid-19 borrowings, NTMA might not match supply in 2015-19 period

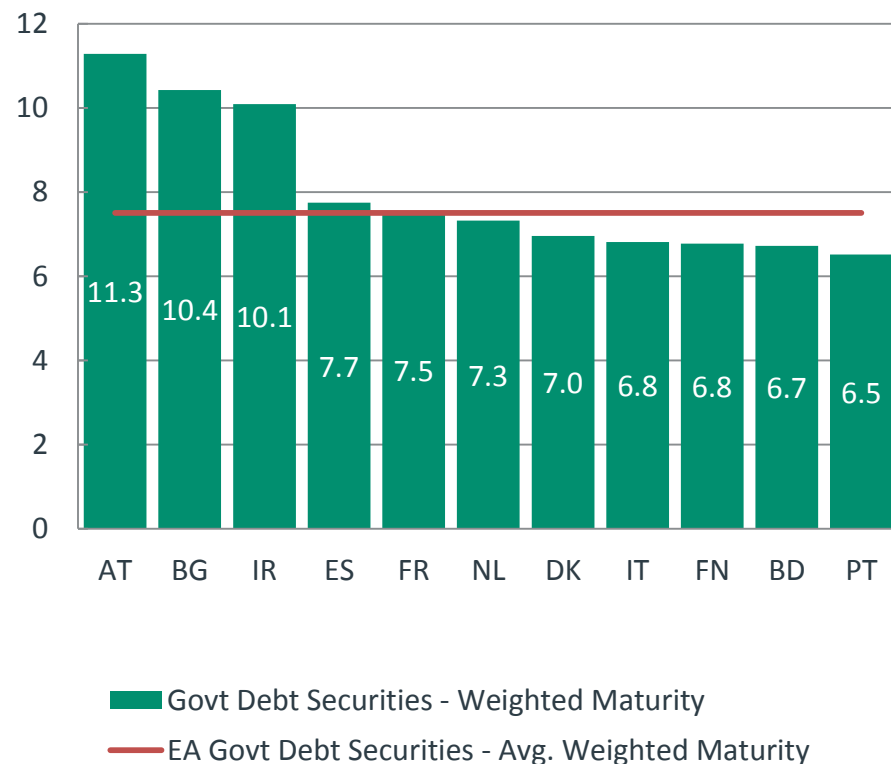


The NTMA took advantage of QE to extend debt profile

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

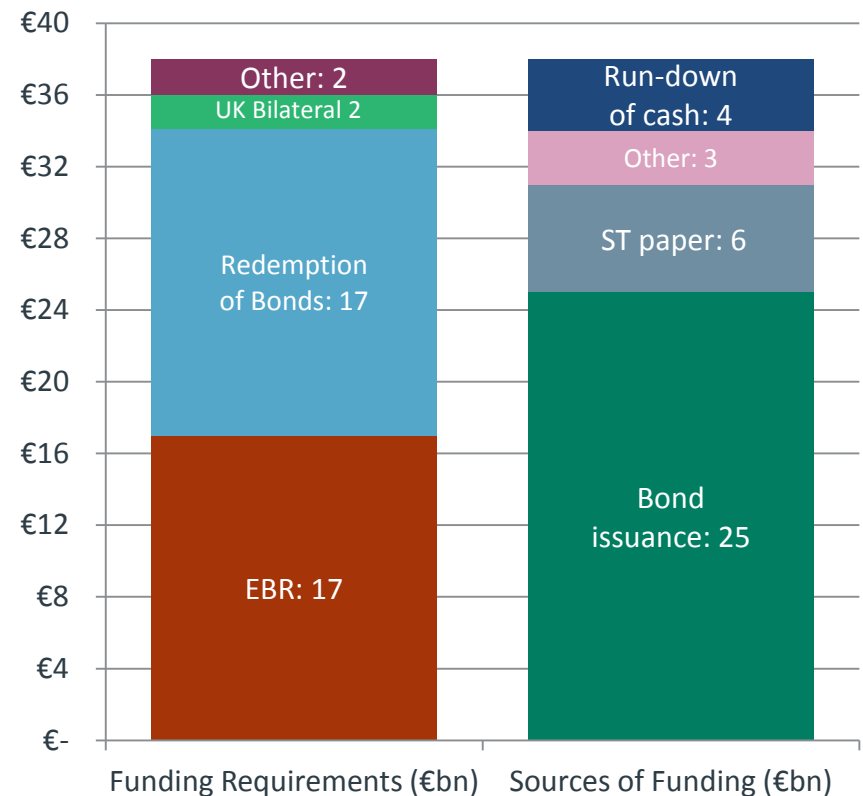


...Ireland (in years) now compares favourably to other EU countries



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

- Two bonds matured in 2020: the first matured in April and the second matured in mid-October.
- Four of the remaining five tranches of the UK bilateral loan mature in 2020.
- The Exchequer Borrowing Requirement (EBR) has been revised to €16.7bn.
- Cash balances will be run down to meet part of the 2020 funding requirement.
- Short term paper will also be an important funding source – one Ireland has not tapped much in recent years.



Source: [NTMA](#)

Notes:

Other funding requirement: Includes FRN purchases

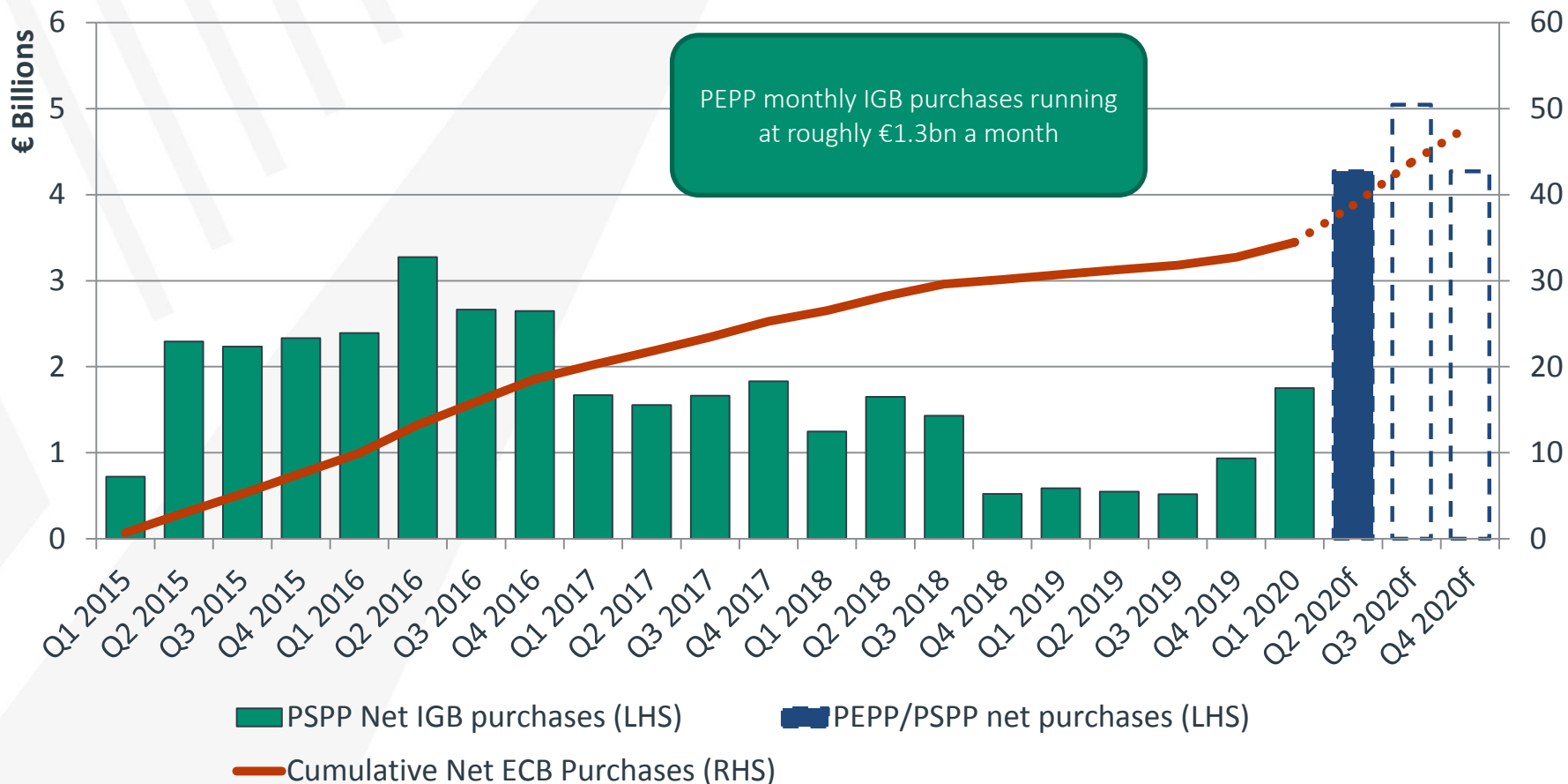
Bond issuance: In July the NTMA advised that it would issue to the top end of the revised €20-€24bn funding range announced in April. The figure in this chart - while consistent with that volume of nominal issuance - shows the cash proceeds of syndications & auctions, including non-competitive auctions. It also reflects one further auction, in November.

ST paper: Forecast net growth in short-term paper.

Other funding sources: Includes retail (State Savings), private placements and EIB loan drawdowns.

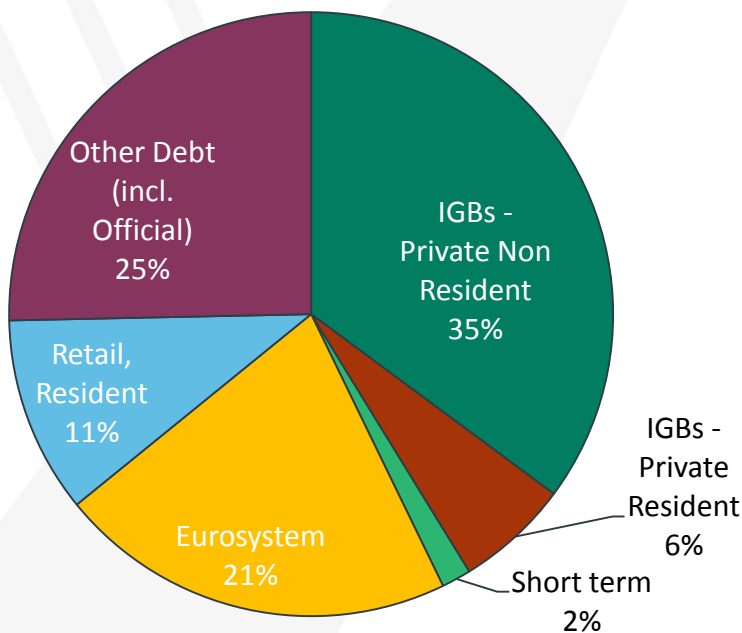


In addition to PSPP, ECB's PEPP with its flexibility (no limits) & size (€1.35trn) will underpin Irish bond market

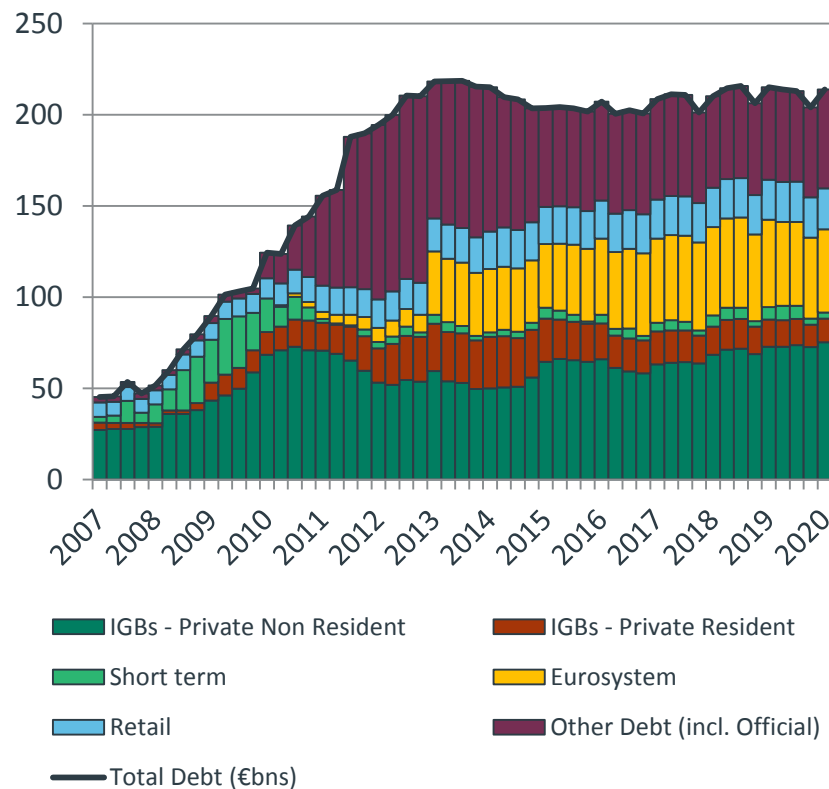


Diverse holders of Irish debt – sticky sources account for over 50%; will increase further with Eurosystem’s PEPP

Ireland roughly split 80/20 on non-resident versus resident holdings (Q1 2020)



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



- IGBs - Private Non Resident
- IGBs - Private Resident
- Short term
- Eurosystem
- Retail
- Other Debt (incl. Official)

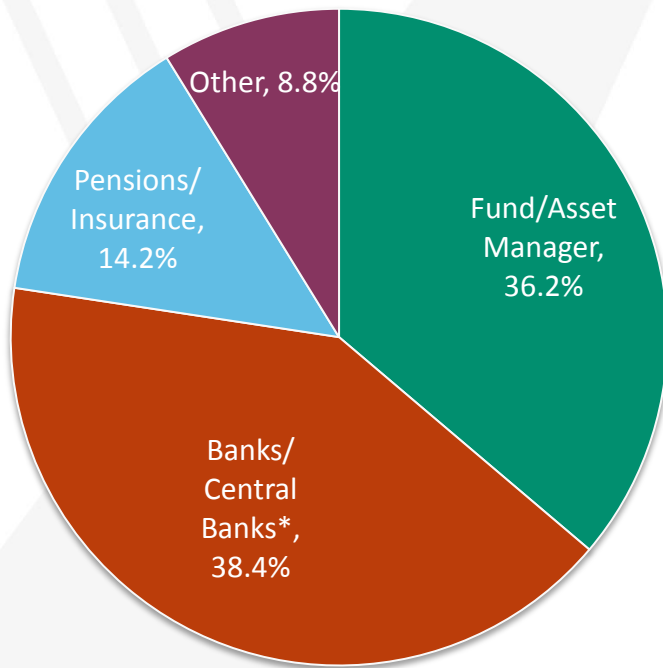
Source: CSO, Eurostat, CBI, ECB, NTMA Analysis

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.

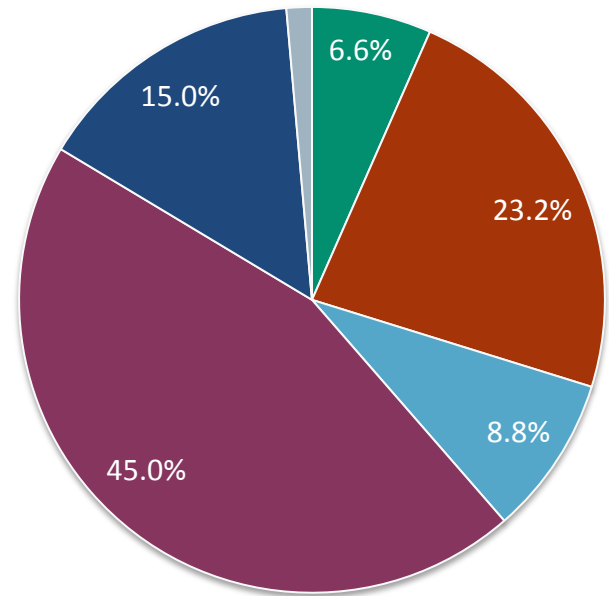


Investor base for Government bonds is wide and varied

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



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



- Ireland
- UK
- US and Canada
- Continental Europe
- Nordics
- Asia & Other



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. 2017



Fiscal Policy response has been swift in 2020

Response

Total fiscal response of €42bn over 2020 and 2021 (21% of GNI*) is large and needed

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*. Ireland will give back some hard won gains in the short term



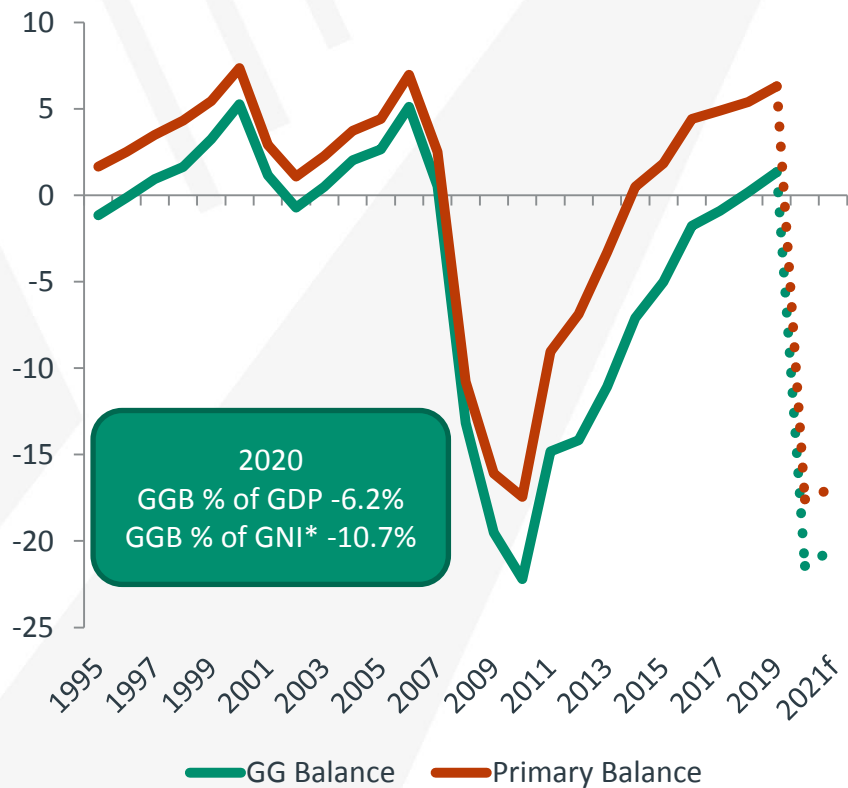
Total fiscal response of €42bn over 2020 and 2021 (20% of GNI*) is large and needed

	€bn	2020	2021	% GNI*	Description
Taxation Measures	3.2	2.9	0.3	1.6	
• Warehousing/Deferrals	2.0	2.0	0.0	1.0	Corporate Tax, VAT, Stamp duty tax deferrals
• Other	1.2	0.9	0.3	0.6	Temporary VAT decrease; hospitality VAT decrease
Expenditure Measures	35.0	17.6	17.4	17.3	
• Social Protection (income supports)	15.4	11.4	4.0	7.6	PUP/TWSS extended into 2021; TWSS transforming into EWSS
• Health	5.8	2.0	3.8	2.9	Covid-19 capacity expenditure
• Other Covid Supports	2.9	1.6	1.3	1.4	Business supports, Commercial Rates waivers, Grants, Education, Arts, Tourism and Transport
• Capital Expenditure	2.1	0.5	1.6	1.0	Capital works accelerated; social housing
• Other	8.9	2.2	6.7	4.4	Help-to-Buy, other grants and aids, Recovery Fund, Covid/Brexit contingency response
Total Direct Supports	38.2	20.5	17.7	19.8	
Indirect supports	4.0	4.0	0.0	2.0	Credit Guarantee Scheme, Pandemic Stabilisation and Recovery Fund
Total Supports	42.3	24.5	17.7	20.8	

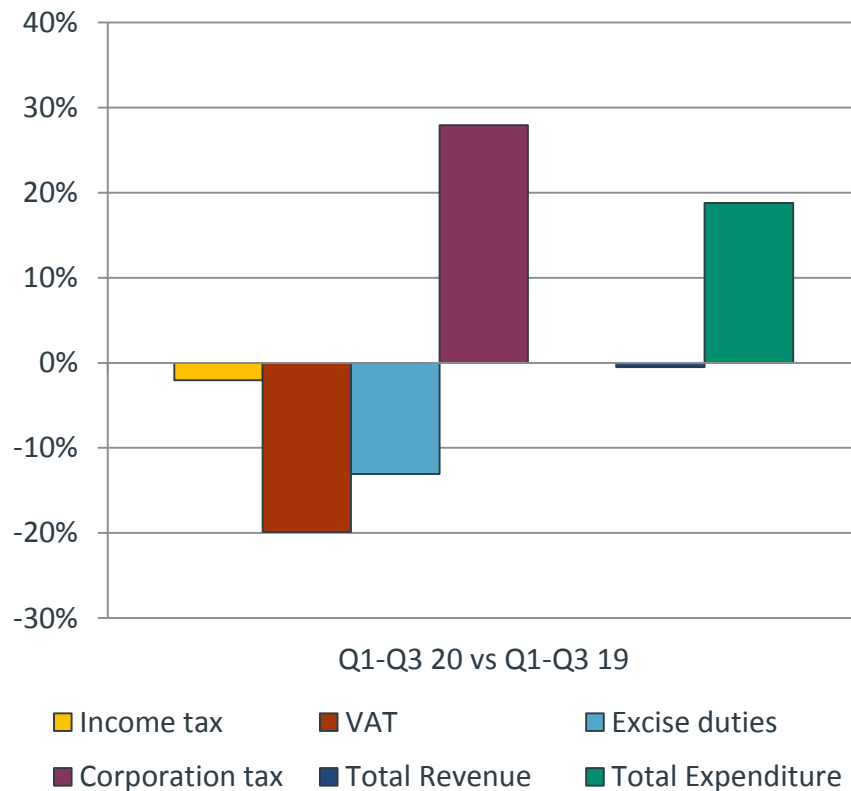


Fiscal discipline in evidence in last decade – after Covid-19 stimulus ends Ireland plans to narrow its deficit again

Gen. Govt. Balance (€bn) will be in significant deficit in 2020/21

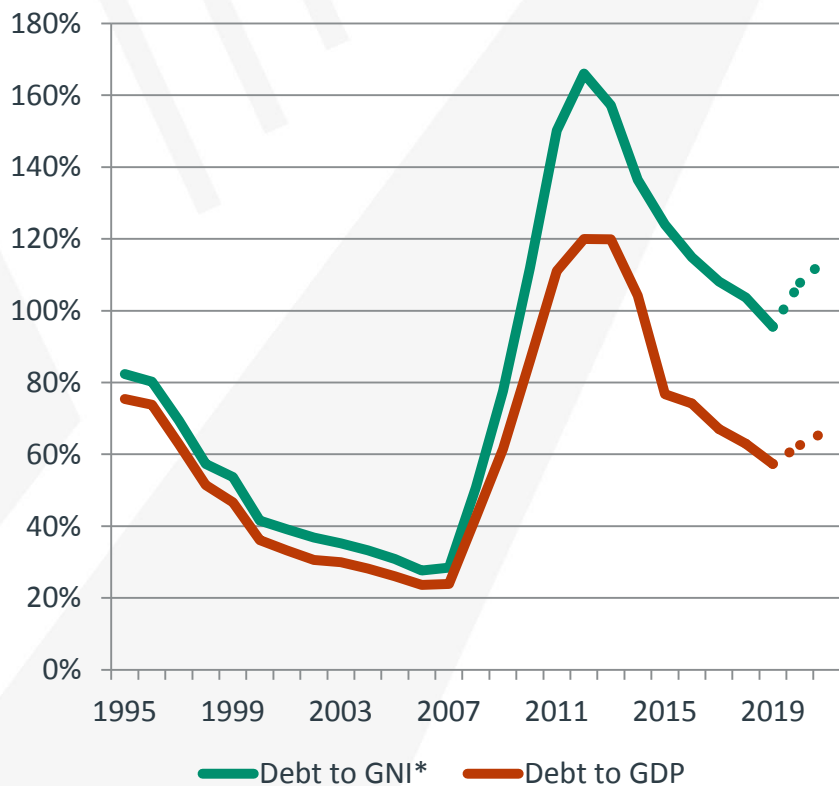


Revenues holding up despite pandemic; expenditure is increasing (Central Govt.)

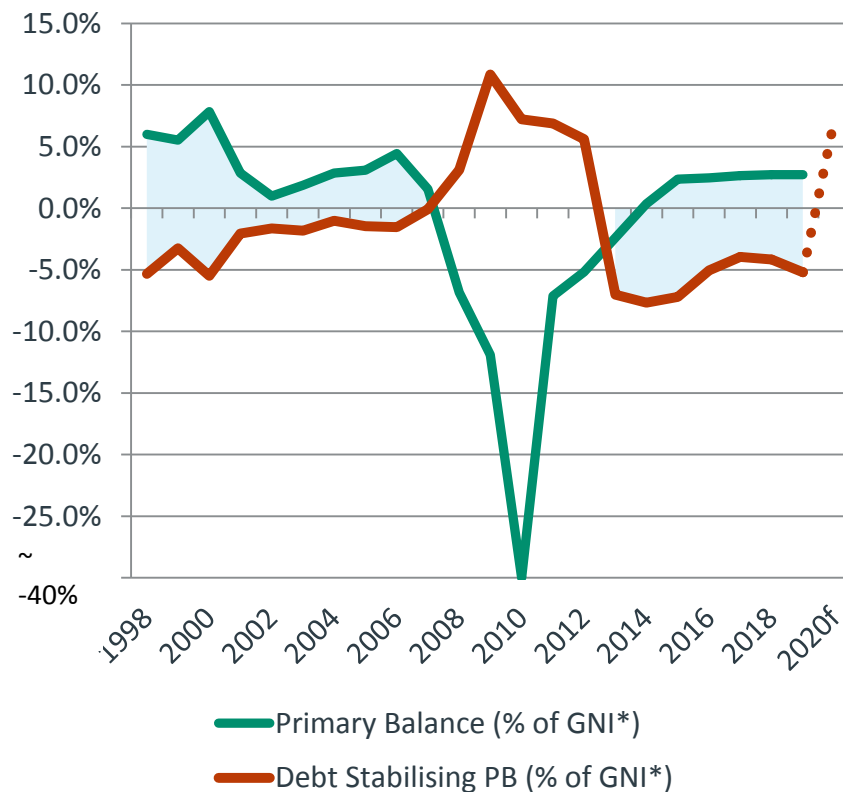


Gross Government debt 57% of GDP at end-2019 but close to 95% of GNI*; will give back some gains in the short term

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

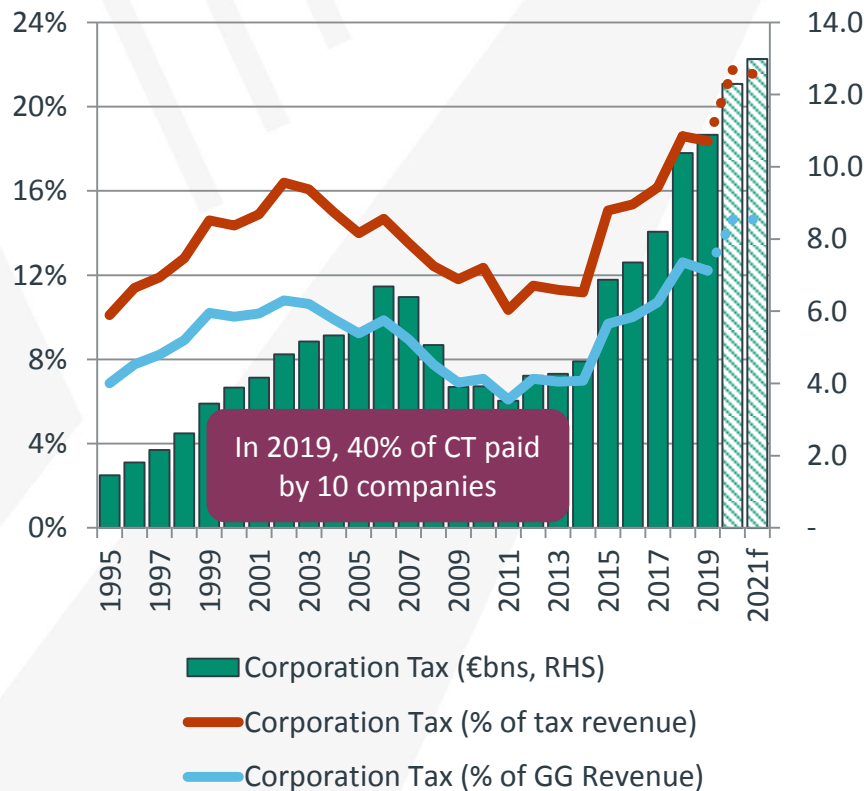


No country will be running primary surplus necessary to keep debt ratio in check

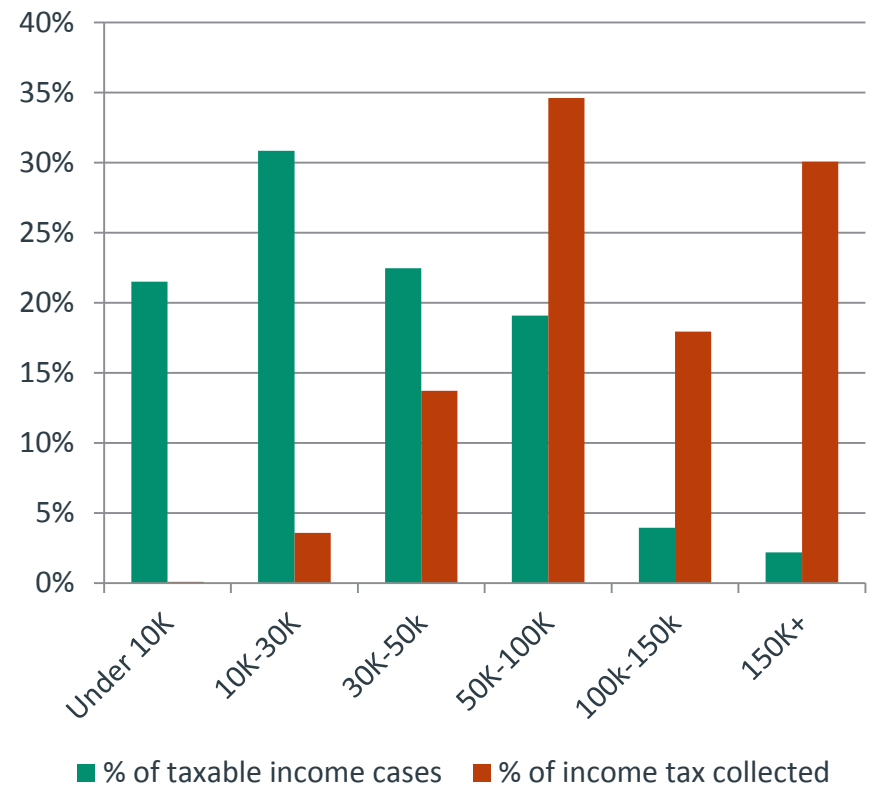


CT revenue cushioned by 2019 payments and defensive nature of Pharma and ICT; income tax protected also

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

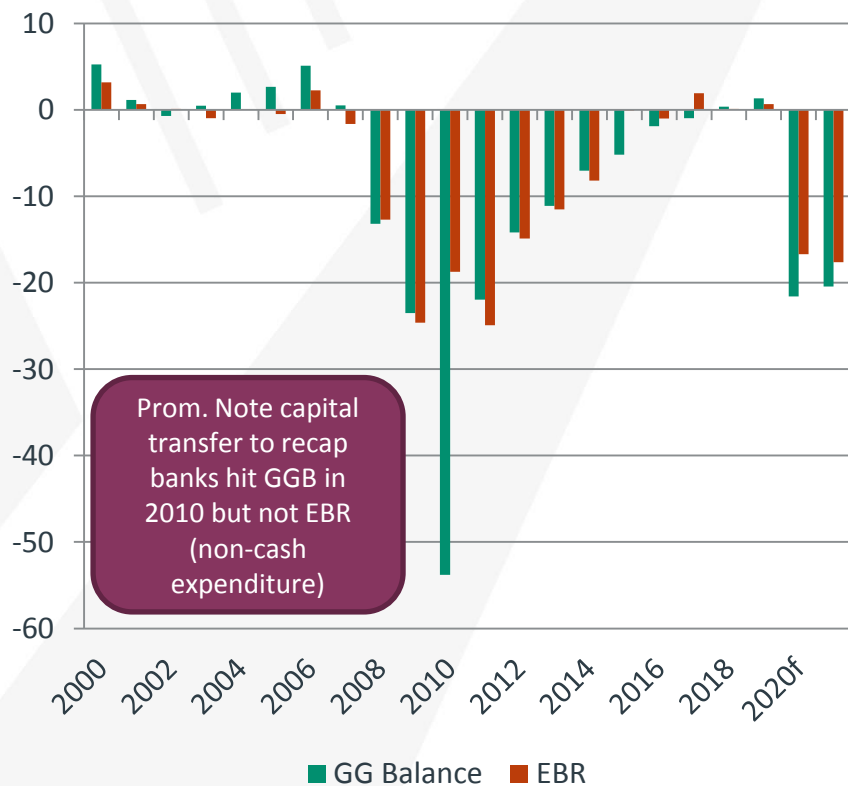


Progressiveness of income tax system and sector mix limits hit to overall receipts



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	-16.7	-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: this benefits funding req.
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
GGB	-21.6	-20.5	Most complete metric for fiscal position. Use this for deficit comparison with other nations



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

	GG debt to GG revenue %	GG interest to GG rev %	GG debt to GDP %
Greece	370.0%	6.2%	176.6%
Italy	286.4%	7.2%	134.8%
Portugal	274.7%	7.0%	117.7%
Spain	244.2%	5.8%	95.5%
Cyprus	231.6%	6.1%	95.5%
<u>Ireland</u>	<u>229.1%</u>	<u>5.0%</u>	<u>58.8%</u>
UK	227.3%	5.6%	85.4%
Belgium	196.1%	3.9%	98.6%
France	186.7%	2.7%	98.1%
EA19	181.0%	3.5%	84.1%
EU28	176.1%	3.7%	79.3%
Austria	143.7%	2.9%	70.4%
Germany	127.6%	1.7%	59.8%
Finland	113.2%	1.6%	59.4%
Netherlands	111.2%	1.8%	48.6%



Section 3: Structure of Irish economy

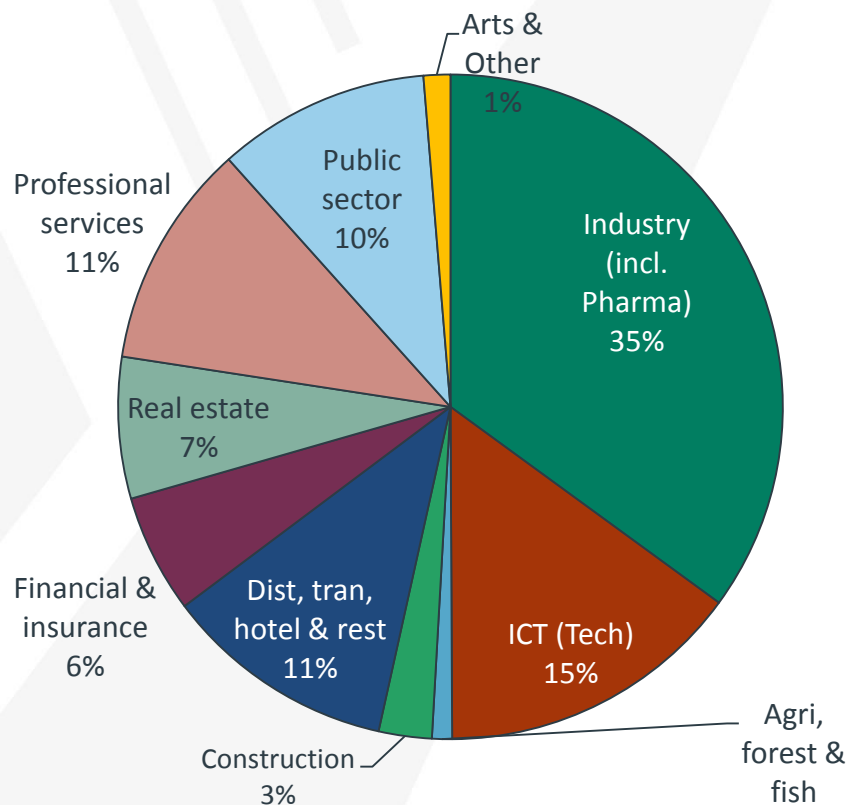
Multinationals distort Irish economy picture
but have added resilience during Covid-19



Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta
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



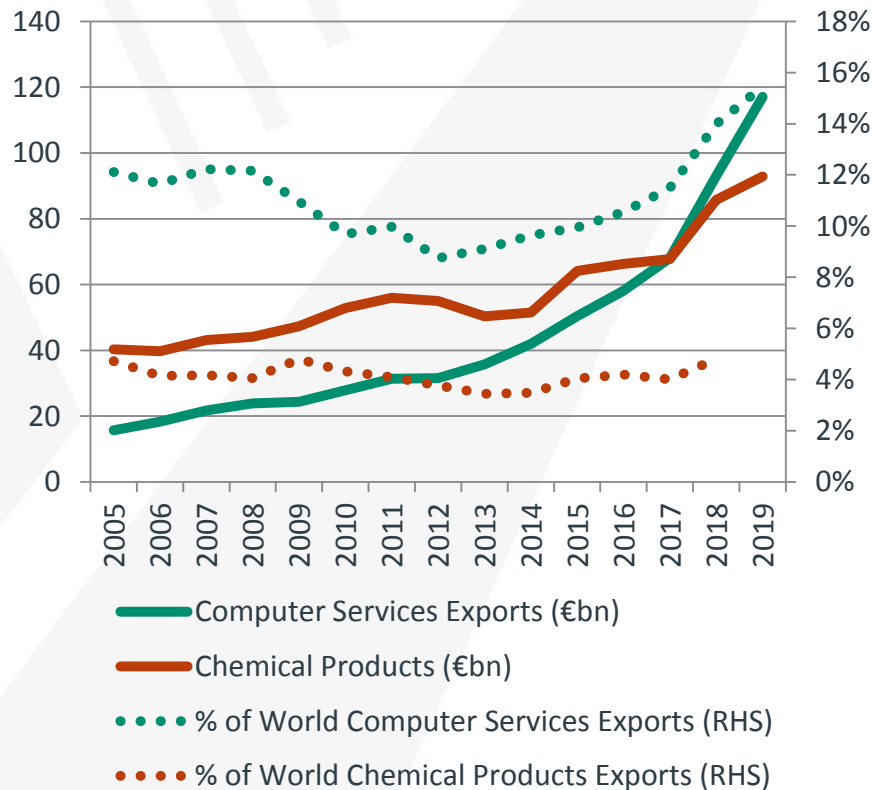
Domestic side of economy adds jobs; MNCs add GVA/high wages

	Share of Employment	Share of Wage Bill (2019)	Share of GVA (2019)	Gross Weekly Earnings € (Q4 2019)
Agriculture	4.5%	1%	1%	N/A
Industry (incl. Pharma.)	12.2%	14%	35%	916
Construction	6.2%	4%	3%	821
Dist., Tran, Hotel & Rest	25.4%	20%	11%	571
ICT (Tech)	5.4%	8%	15%	1,241
Financial	4.5%	8%	6%	1,235
Real Estate	0.4%	1%	7%	730
Professional	10.8%	13%	11%	810
Public Sector	25.6%	28%	10%	836
Arts & Other	5%	2%	1%	514

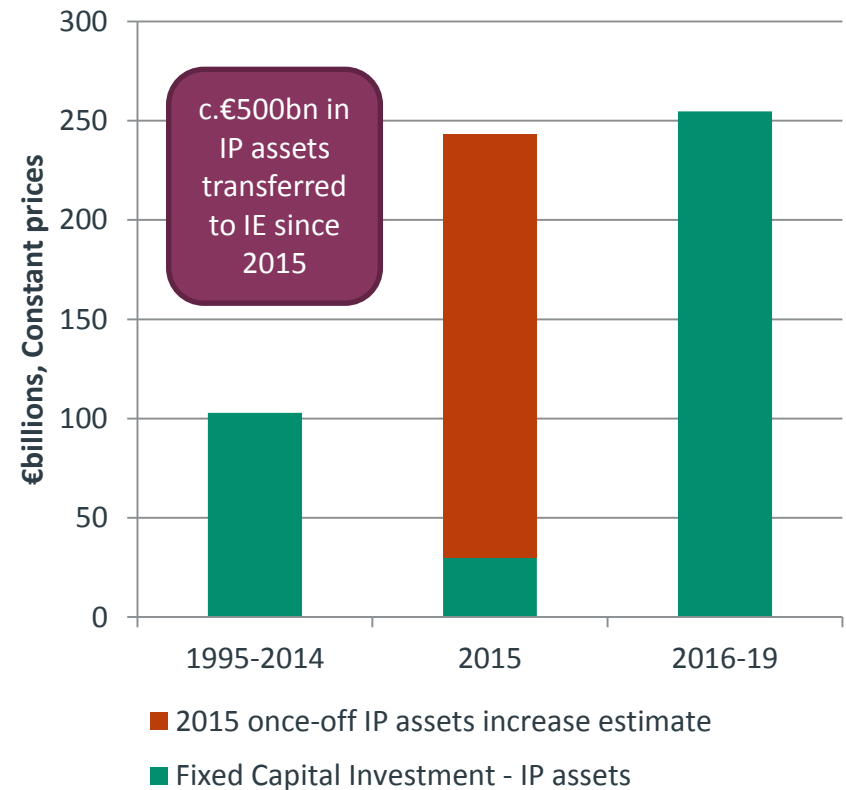


Sizeable inflows of intellectual property into Ireland by tech. & pharma. in recent years: exports & jobs created

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

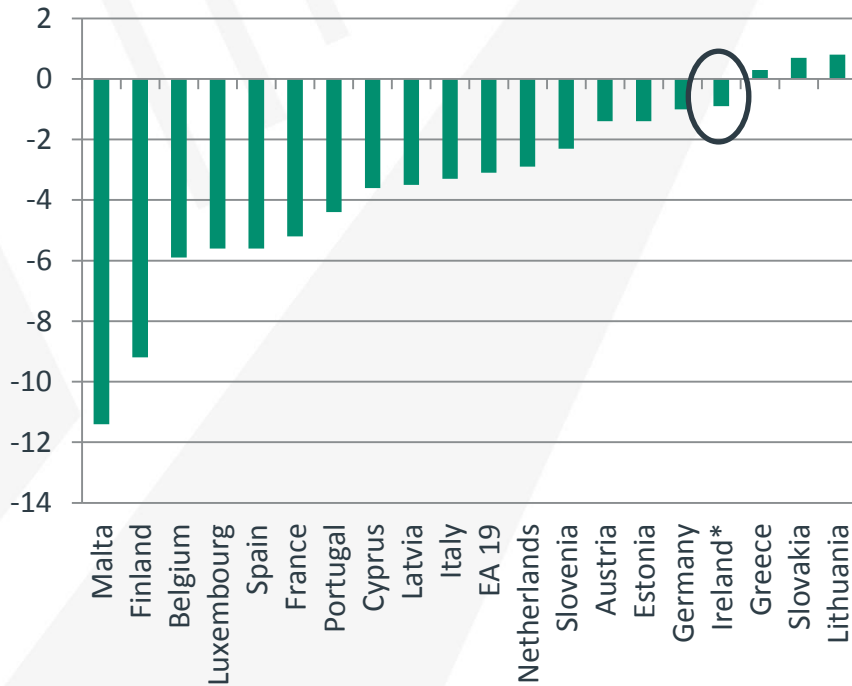


Enormous inflows of IP assets into Ireland since 2015 on the back of BEPS reforms

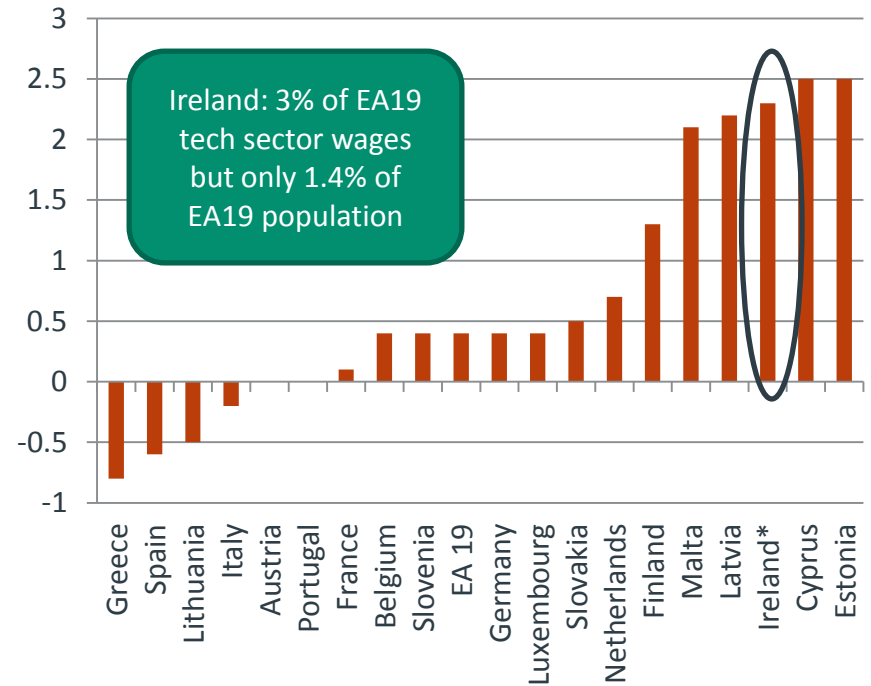


Ireland has deftly navigated the changing global economy landscape in this century (adjusted GVA for Ireland)

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



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



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

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

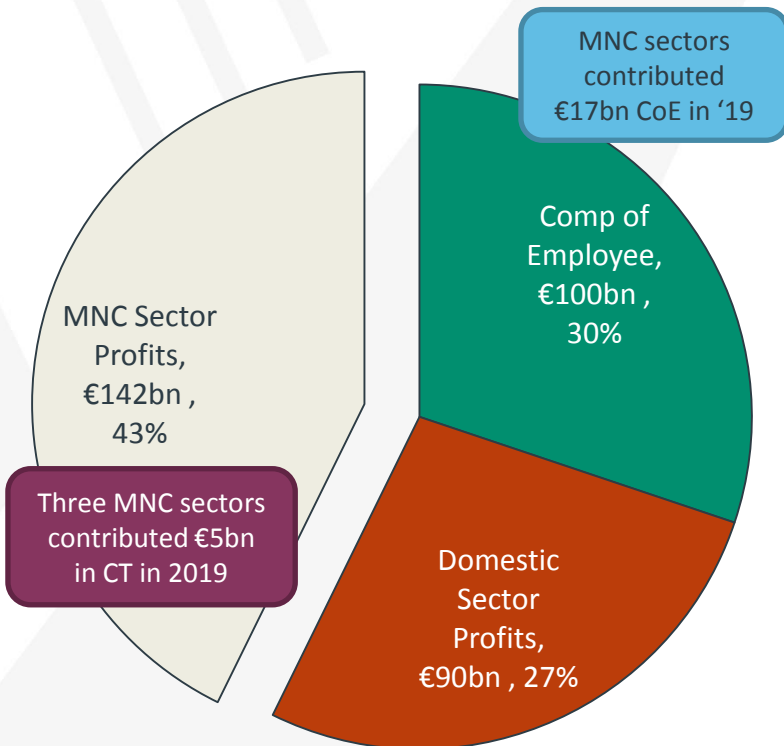


Source: Eurostat, NTMA calculations

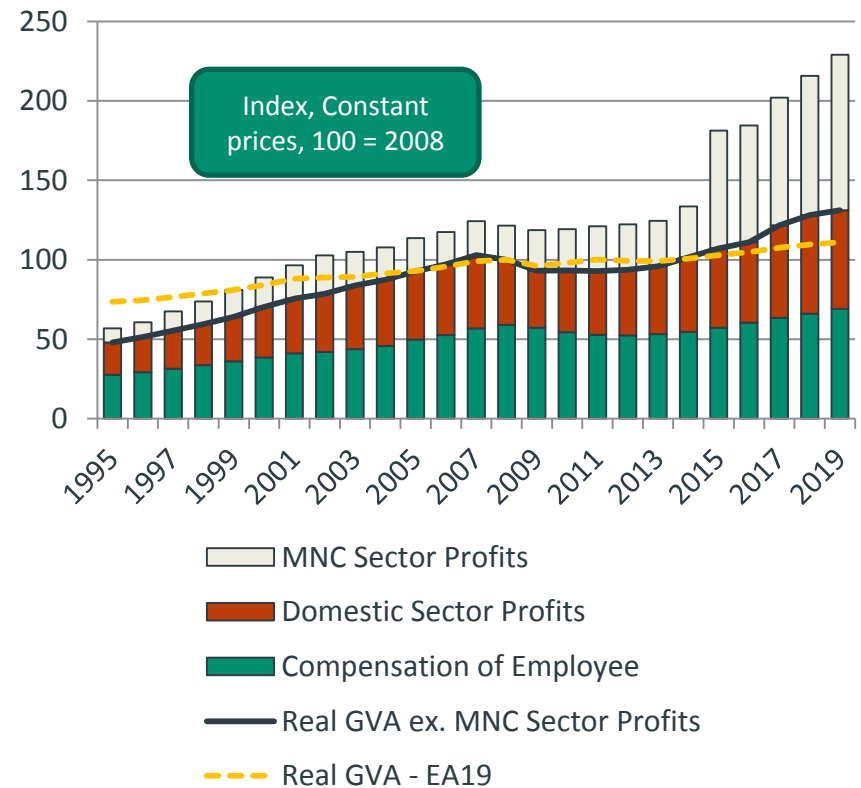
* Ireland's GVA data has been adjusted to strip out the distortionary effects of some of the multinational activity that occurs in Ireland. Specifically a profit proxy is removed from the GVA data for the sectors in which MNCs dominate (parts of Manufacturing, ICT, and renting and leasing services).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

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



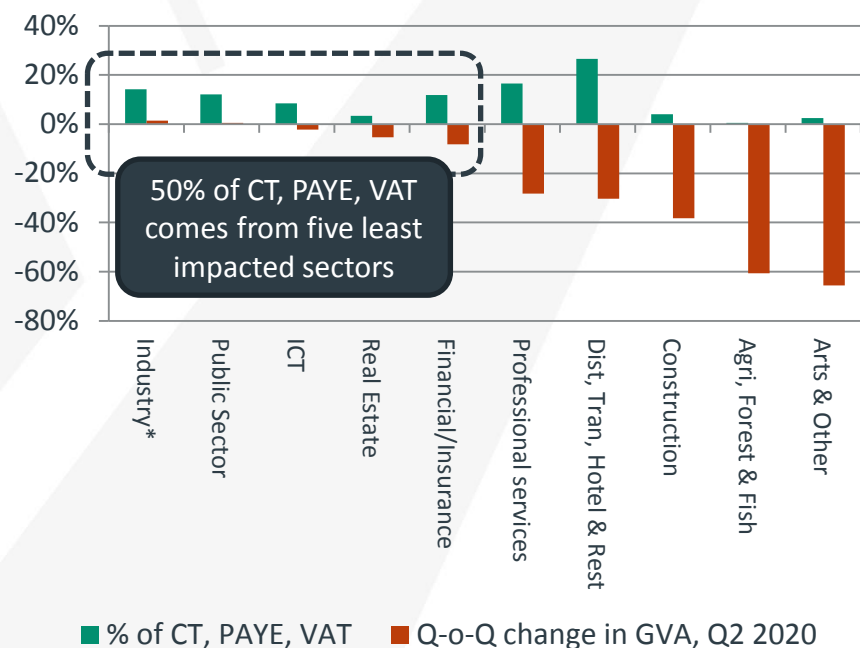
Pre-Covid, Ireland had a robust underlying economy; compared favourably to EA



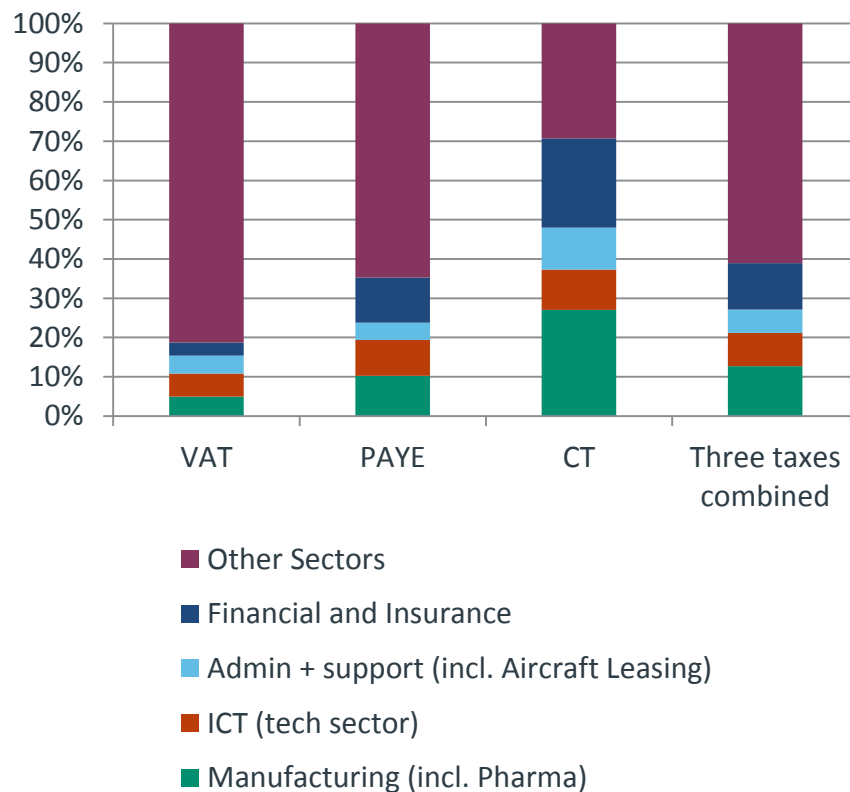
The result of such high value MNC activity in Ireland: Ireland less impacted by Covid - in particular the tax base

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 delayed to at least 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 but it is impossible to predict the size of the impact.
- Nothing has been decided yet. There are disagreements across countries. OECD has revised the deadline to mid-2021.

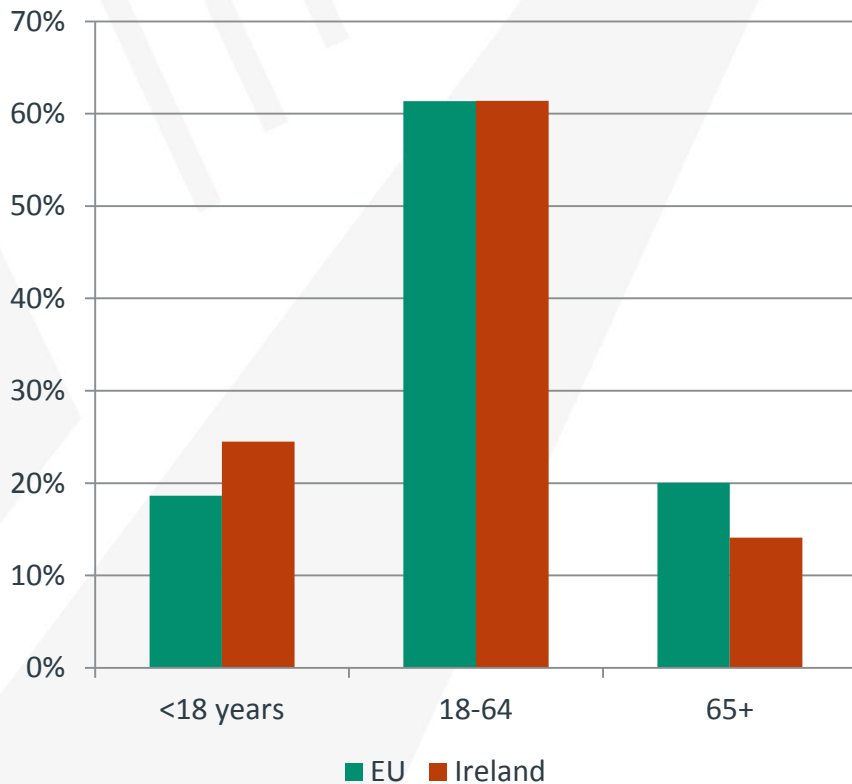
Pillar Two: proposal for minimum global tax

- Pillar Two - the basic idea is to introduce a minimum 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.

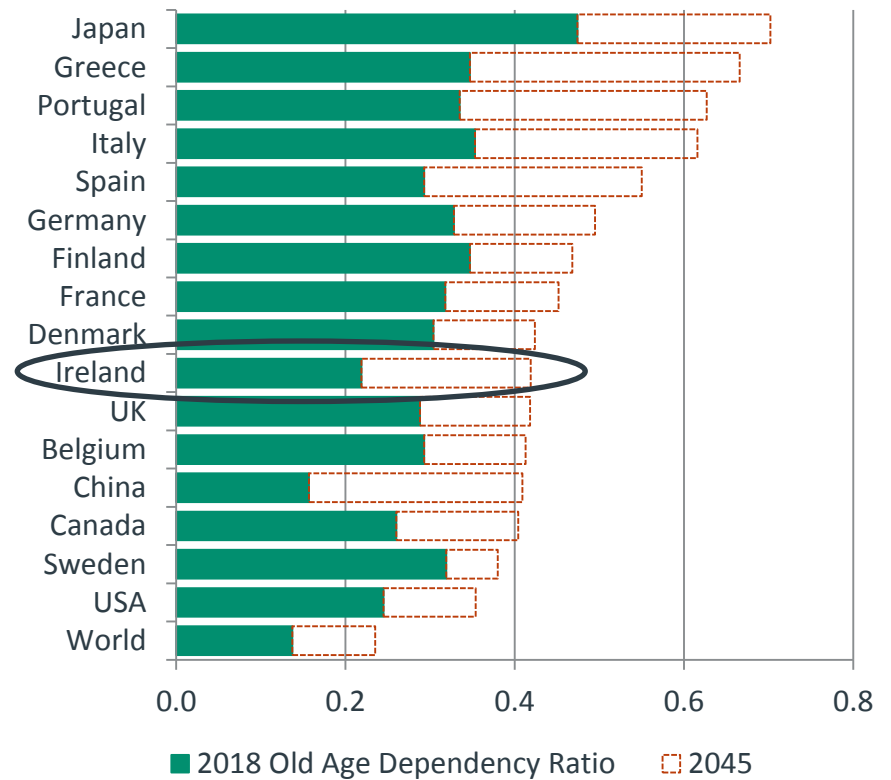


Outside of sector makeup, Ireland's population helps growth potential: Age profile younger than the EU average

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

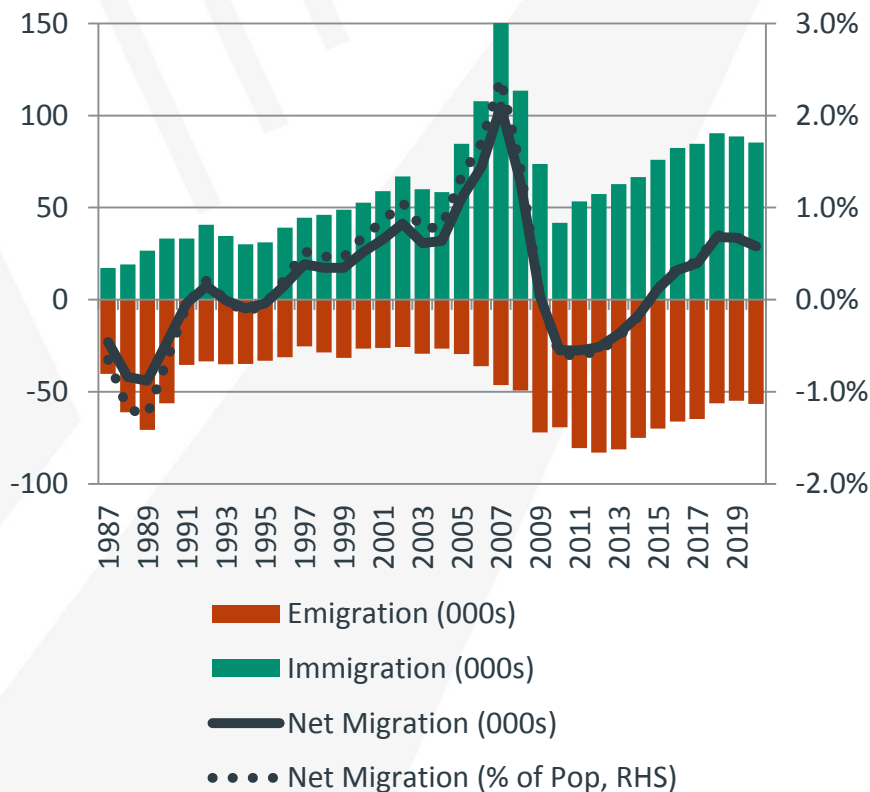


Ireland's population will remain younger than most of its EA counterparts

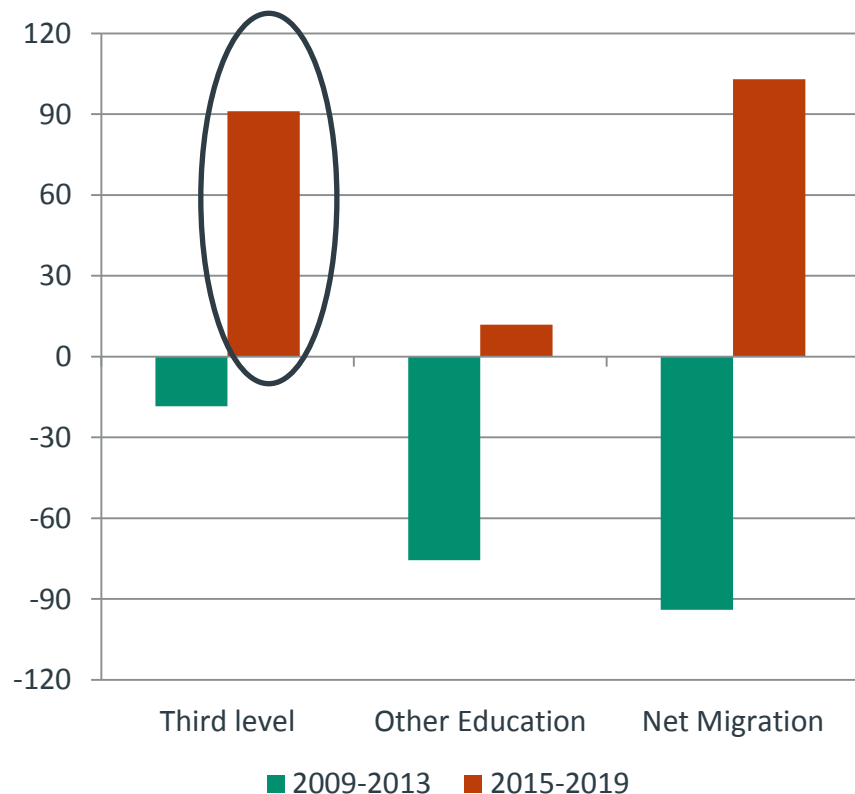


Migration has improved Ireland's human capital; post-Covid migration to be closer to zero given travel bans

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



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



Section 4: Brexit

“Hard Brexit” risk is obvious: cliff edge at end 2020 a possibility



Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta
National Treasury Management Agency

State of play: negotiations about trade agreement continue but progress at late stage is slow

UK-EU Future trading relationship unresolved

- The withdrawal agreement of 2019 meant that the transition period started in 2020. It will finish at the end of the year.
- The UK government has stated its intention to seek a free-trade arrangement for the long term. This is a more distant relationship than previously argued for by the UK side.
- The upshot is that the trading relationship will diverge to a greater extent, making negotiations difficult.
- Points of contention include:
 1. Level playing field (state aid)
 2. Fisheries
 3. Dispute resolution and the ECJ role in the new relationship
- There are less than three months to negotiate a partial trade deal. Extending the transition period has been formally rejected by the UK government. Risk of hard Brexit has increased given transition period was not extended.
- Hard Brexit estimates suggest the economic hit to Ireland would be between 2-6% over the short term.
- The Department of Finance assumes that a Brexit deal will *not* be agreed in its Budget 2021 planning.



Withdrawal Agreement in 2019 would solve Northern Ireland border issues; economic issues remain

Main points of Withdrawal Agreement

- The withdrawal agreement is a legally binding international treaty.
- 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 withdrawal agreement could be undermined by the UK's own Internal Markets Bill. The European Union recently launched legal action against the UK's Bill on the grounds that it undercuts London's earlier legal commitments.



Hard Brexit impact intertwined with Covid-19 in short run – No deal would be negative for Ireland in long run

GDP Forecast	2020	2021	2-year Brexit impact (in isolation)	Long term (10-15 years)
Department of Finance (ESRI)	-2.4	1.7	-3pp	-5.0%
Central Bank of Ireland	-0.4	3.4	-2.3pp	-6.0%
Copenhagen Economics	n/a	n/a	n/a	-7.0% (of which -4.9pp is due to regulatory divergence)
Bank of England “disruptive” (implied)	n/a	n/a	n/a	-6.2%
Bank of England “disorderly” (implied)	n/a	n/a	n/a	-8.2%



Negatives of hard Brexit outweigh positives in short-term, although opportunities may appear longer term

Cons

Short term

- Major trade disruption from tariffs, customs checks and documentation (red tape)
- Regions suffer severe recession in agriculture and UK-focused manufacturing; tourism might dip
- Confidence shock to business and households
- Liquidity may dry up in property market
- Fiscal impacts are likely given need to support regions

Long term

- Lower consumer spending thanks to higher inflation when tariffs dominate the FX benefit
- Political economy cost (loss of ally in the EU)

Pros

Short term

- Cheaper domestic food prices

Long term

- Fiscal help from Europe is likely; selective temporary waiving of State Aid rules?
- FDI influx from UK, as multinationals avoid turmoil; UK's reputation might be tarnished
 - Financial services (passporting lost by UK)
 - Other multinationals - especially IT and business services
- Commercial property occupancy could rise; there may also be an influx of well paid workers
- Gradual partial trade recovery
 - Irish companies focused on Britain may steal EU market share from British competitors
 - Import substitution (especially in food)



Whichever type of Brexit materialises, trade is likely to be negatively impacted

% of total	Goods (2019)		Services (2018)		Total (2018)	
	Exp.	Imp.	Exp.	Imp.	Exp.	Imp.
US	30.8	15.5	11.6	25.4	18.0	23.1
<u>UK*</u>	<u>10.3</u>	<u>22.5</u>	<u>15.7</u>	<u>9.6</u>	<u>13.8</u>	<u>13.6</u>
NI	1.4	1.9	n/a	n/a	n/a	n/a
EU-27	37.1	36.7	29.4	26.8	33.5	30.3
China	5.9	5.8	2.6	1.5	3.1	3.0
Other	15.9	19.4	43.3	38.3	30.7	31.1

Irish/UK trade linkages will suffer following Brexit

- The UK is the second largest single-country export destination for Ireland's goods and the largest for its services
- At the same time, Ireland imports c. 20% of its goods from the UK.

Ireland's trade with the UK is labour intensive

- The UK might only account for 10% of Ireland's total exports, but Ireland is more dependent than that because those UK-reliant sectors are labour intensive

SMEs account for approx. half of Irish exports to the UK. They are likely to be more adversely affected than larger companies by the introduction of tariffs and barriers to trade



If no deal by year-end, UK's Global Tariff Schedule would come into effect for Ireland's exporters to UK (mainland)

Under the UK's WTO Tariff Schedule, it would impose tariffs on only 40% of the UK's imports from MFN countries: For Ireland, agri-food exports particularly hit by tariffs

UK-EU Relationship	% of Tariff Free Products
EU Membership	100%
Free Trade Agreement	60-100%
Partial FTA	60-100%
WTO UK GT schedule	60%
WTO EU MFN schedule (Assumed in modelling)	52%

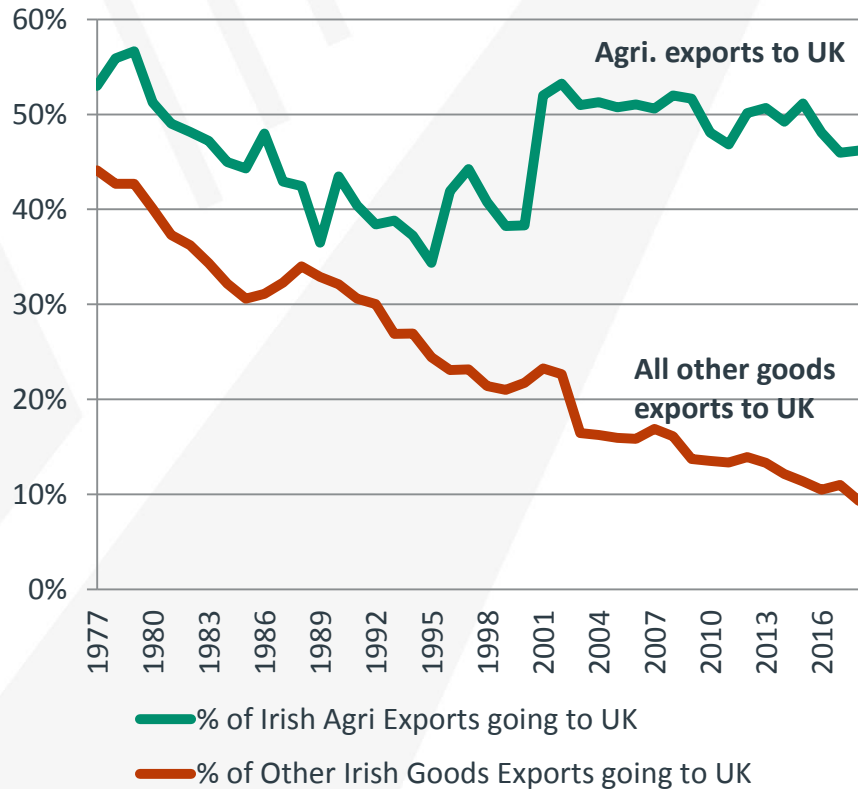
Economic modelling of WTO scenario often assumes a worse tariff regime than UKGT

Product	% of IE-UK goods exports	Comment on tariff imposed under UK schedule
Pharmaceutical products	16.9%	Almost all pharma products are tariff free
Machinery and mechanical appliances	8.1%	A lot of this category remains duty free.
Meat and edible offal	7.7%	High customs duties are imposed on Meat (6-16% + £34-£2313 per 100kg)
Dairy produce, birds eggs, natural honey, edible products	5.6%	High customs duties are imposed on Dairy (6-16%+£14-185 per 100kg)
Electrical machinery and equipment	4.8%	A lot of this category remains duty free.
Organic chemicals	4.3%	Tariffs on Active Pharmaceutical Ingredients (6%)
Plastics and articles thereof	3.8%	Tariff rates increase but are lower than the current EU MFN rates.
Cereals, flour, starch or milk, pastry cooks products	3.7%	Bread and bakery face a small tariff (8%)
Meat & fish	3.5%	High tariff (6-25%+£34-2313 per 100kg)
Optical, medical or surgical instruments	2.9%	Most medical devices remain tariff free

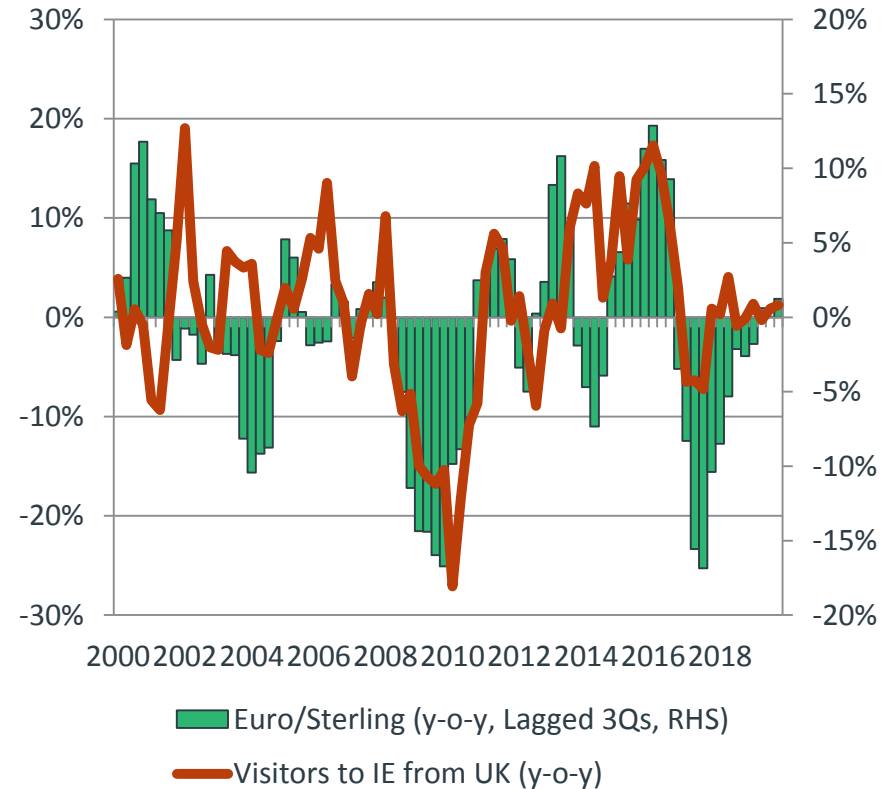


Agri-food and tourism most at risk from trade barriers

Agriculture has not diversified from the UK



Tourism numbers linked to FX moves but Covid impact will overshadow Brexit hit



Many financial institutions have announced that they will expand or set up in Dublin

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.
- Ireland's FDI opportunity will depend on the outcome of post-exit trade negotiations. The UK (City of London) is almost certain to lose its EU passporting rights on exit, so there may be more opportunities in time.

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



Section 5: Property

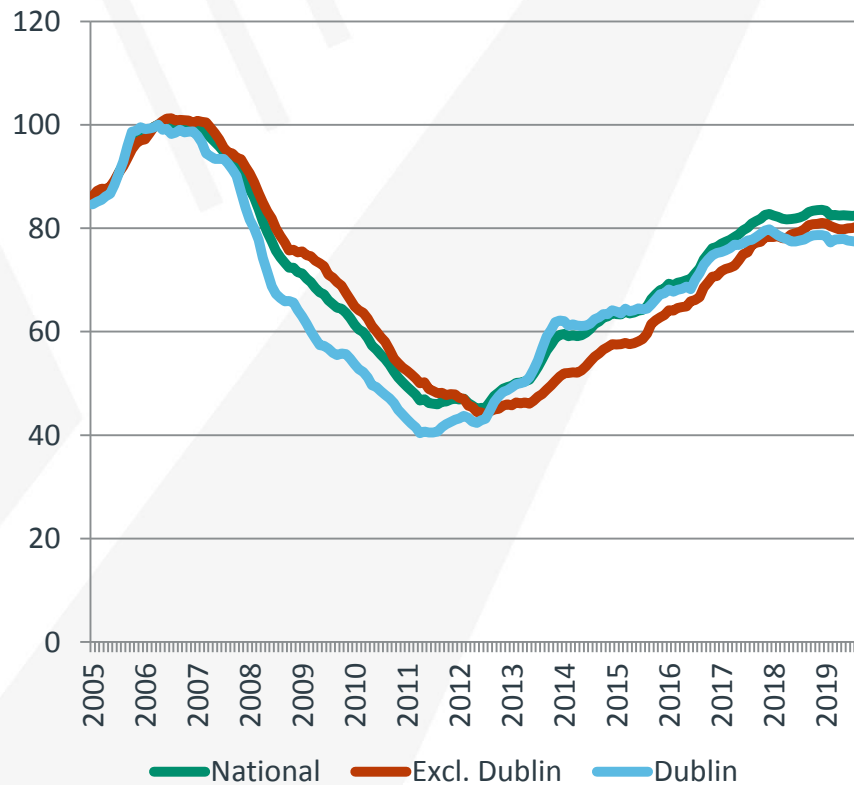
Property market showing fewer transactions, completions; prices less affected



Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta
National Treasury Management Agency

House prices had plateaued before the virus arrived; Covid price impact minimal so far

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



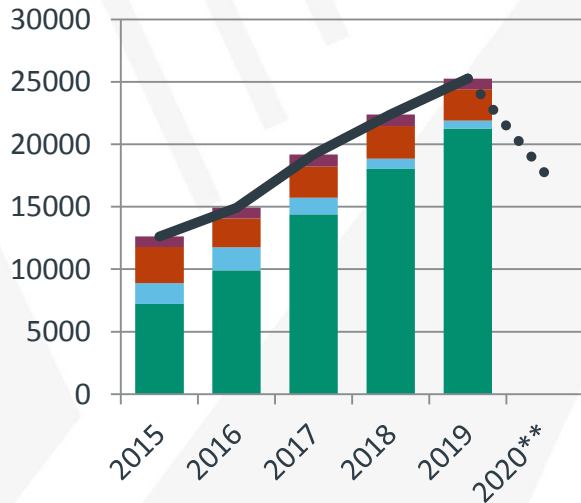
Covid-19 impact: transactions, approvals down sharply; prices stable

Level (y-o-y % change)	Mar	Apr	May	Jun	Jul
# of transactions	4,386 (1.6%)	2,621 (-42.6%)	2,553 (-48.0%)	2,988 (-31.1%)	3,327 (-39.7%)
# of mortgage approvals	3,733 (-9.9%)	2,200 (-46.5%)	1,879 (-61.9%)	2,263 (-49.5%)	3,397 (-33.8%)
Commencements	2,383 (-3.8%)	1,039 (-47.4%)	873 (-53.1%)	1,187 (-36.7%)	1,621 (-25.3%)
Residential Property Price Index	134.3 (1.0%)	134.2 (0.7%)	134.1 (0.4%)	134.2 (0.1%)	134.6 (-0.5%)
Private Rent Index	117.5 (3.1%)	115.4 (0.8%)	114.1 (-0.7%)	113.8 (-1.2%)	114.0 (-1.4%)



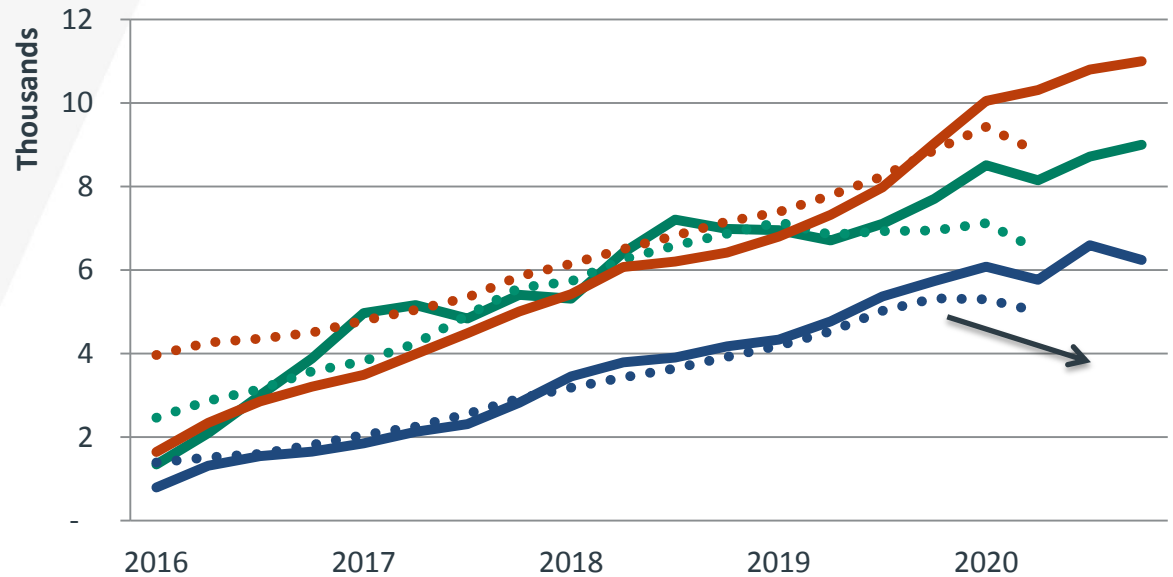
Housing supply still below demand; supply was catching up before Covid-19 slowed market

Housing Completions* above 25,000 in 2019



- Non-Domestic
- Reconnection
- Unfinished
- New dwelling completion
- All connections

Housing supply picked up pre-Covid: coronavirus to hamper supply H2 2020



- Dublin Starts (advanced 12 months)
- Dublin Completions
- Commuter Belt Starts (advanced 12 months)
- Commuter Belt Completions
- ex-GDA Starts (advanced 12 months)
- ex-GDA Completions

Source: DoHPCLG, CSO, NTMA Calculations



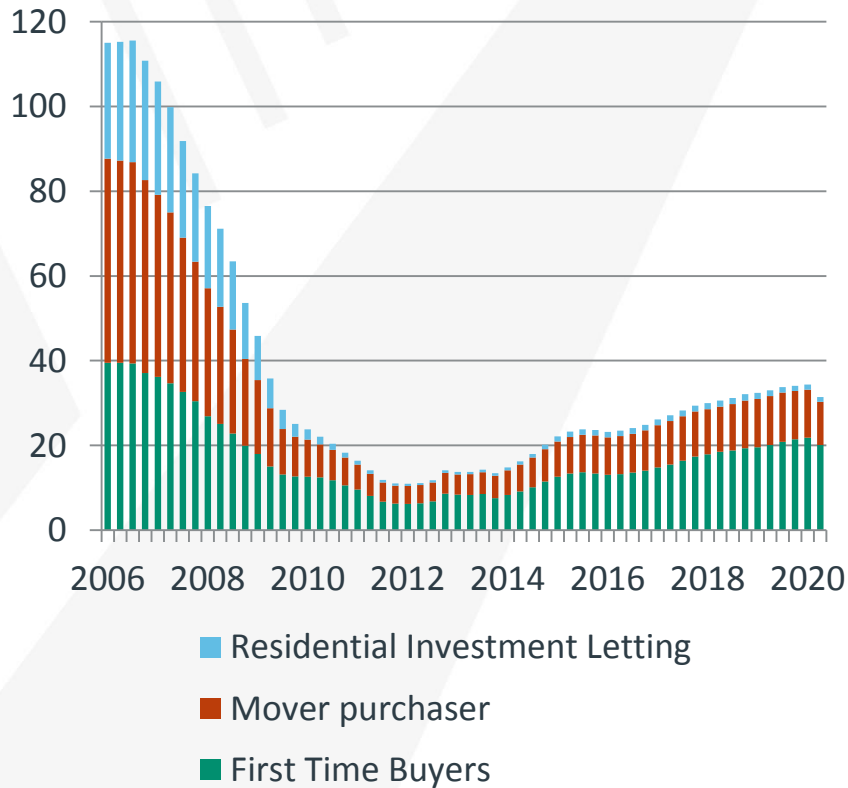
Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta
National Treasury Management Agency

* 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 30% on 2019 (market forecasts)

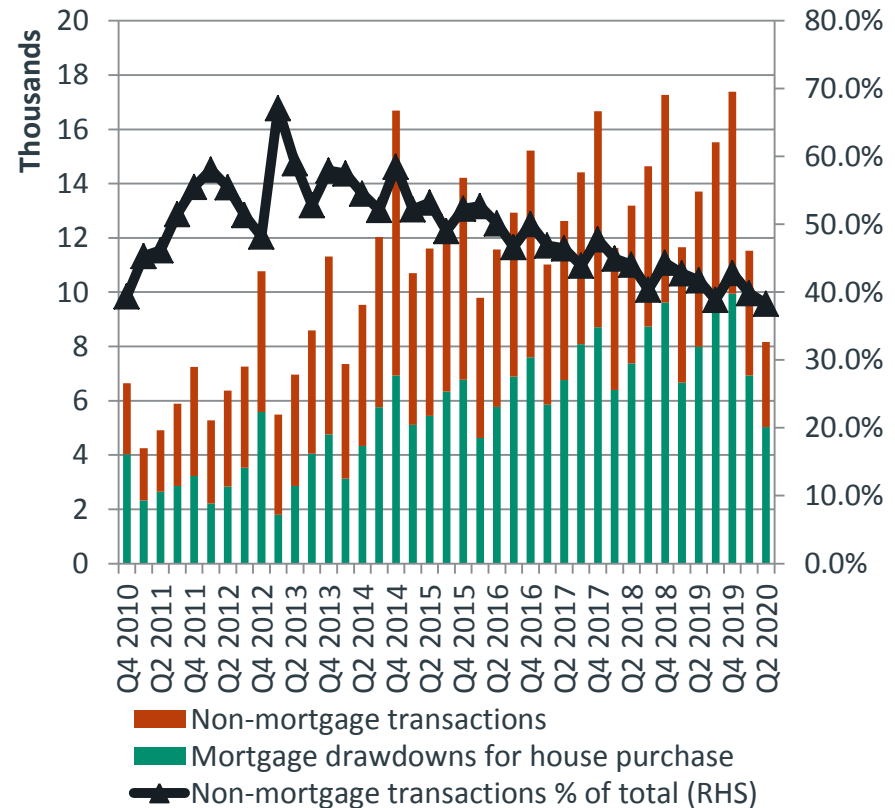
Demand will fall off given lower migration and rising unemployment – demand may drop below 30,000 in ST

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



Source: BPF (4 quarter sum used)

Non-mortgage transactions still important; transaction volume hit in Q2

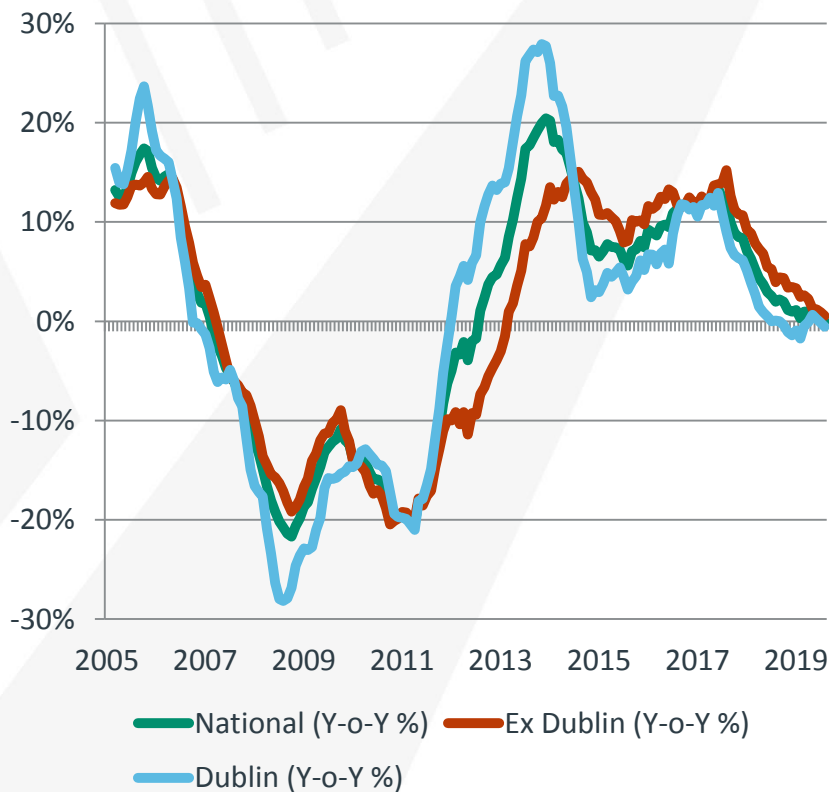


Source: BPF; Residential Property Price Register

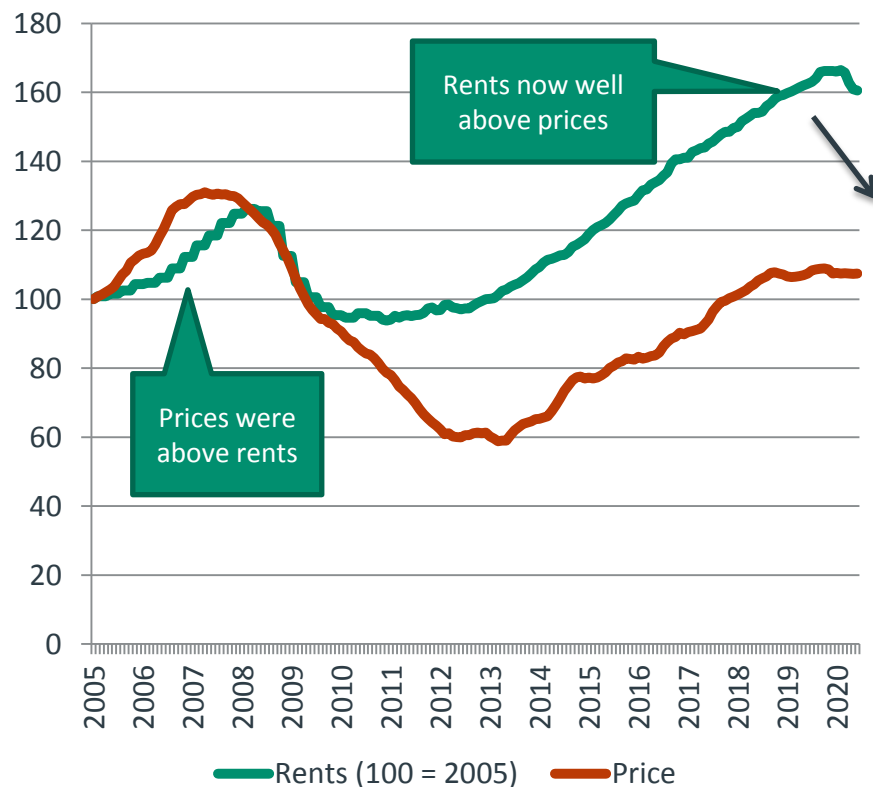


Covid-19 impact on prices unclear as both supply and demand impacted, but rents should come off highs

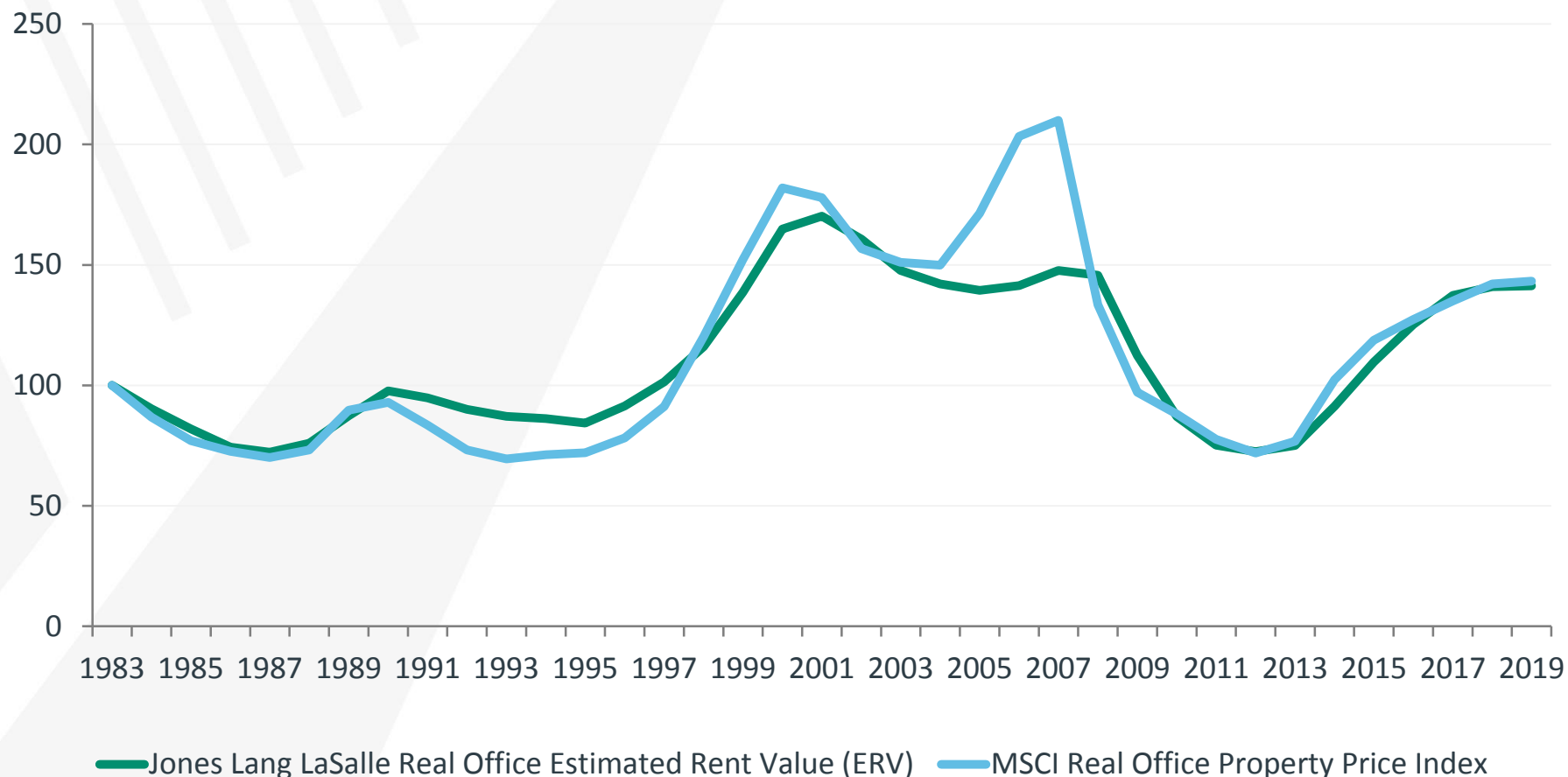
Dublin house prices fell in 2019; higher end of the market slightly softer than the rest



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

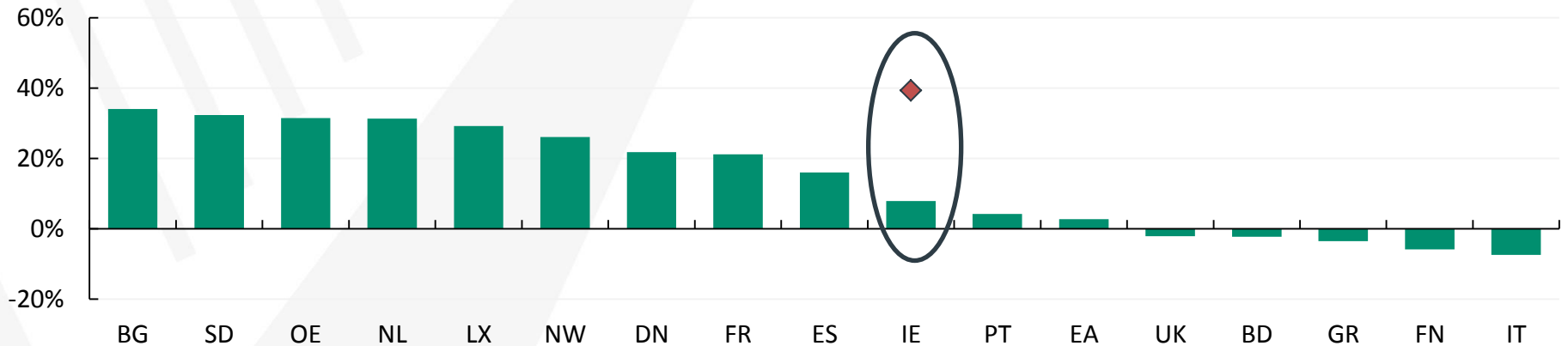


Commercial property rents and prices were in sync pre-Covid – both plateaued in 2018/19 and now threatened

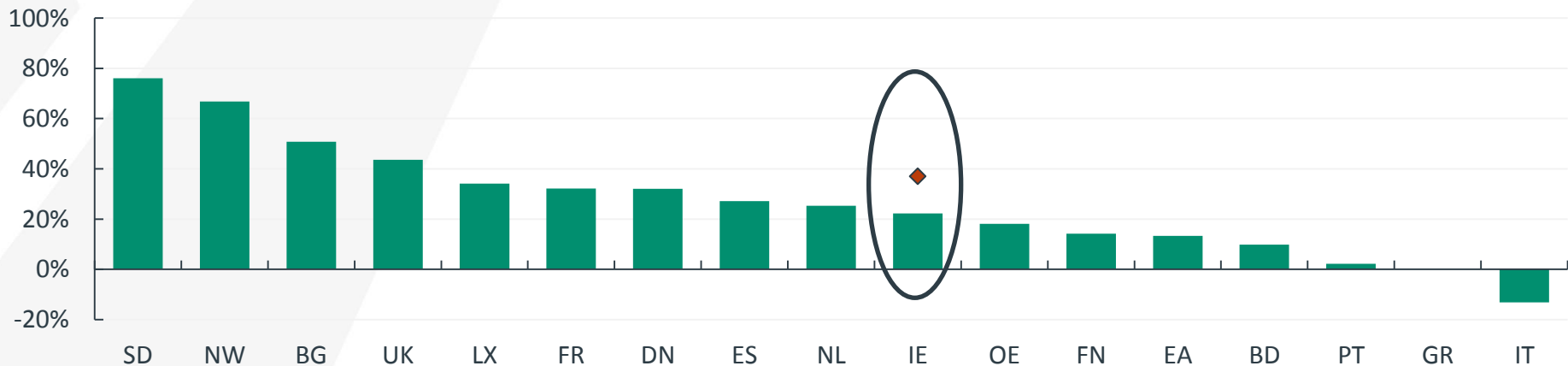


Irish house price valuation metrics remained well below 2008 levels throughout last cycle

Deviation from average price-to-income ratio (Q4 2019, red dot represent Q1 2008)



Deviation from average price-to-rent ratio (Q4 2019, red dot represent Q1 2008)



Section 6: Banks & other

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



Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta
National Treasury Management Agency

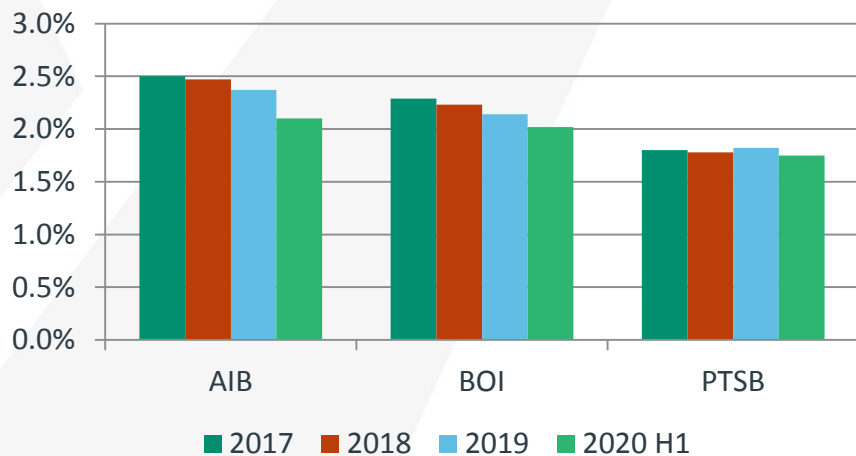


Ireland's pillar banks in relative good shape to weather Covid-19 storm

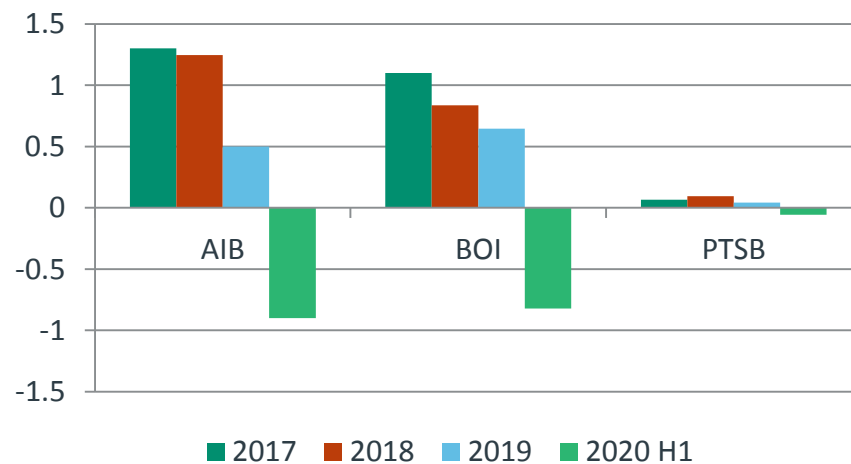
- Banks profitable before Covid-19: income, cost and balance sheet metrics much improved.
- Interest rates on mortgages and to SMEs are still high compared to EU thanks to legacy issues and the slow judicial process in accessing collateral.
- An IPO of AIB stock (28.8%) occurred in June 2017. This returned c. €3.4bn to the Irish Exchequer: used for debt reduction. Further disposal of banking assets unlikely in the short term given low valuations
- Irish banks had paid dividends in recent years.

All three pillar banks were profitable in recent years, Covid impact in H1

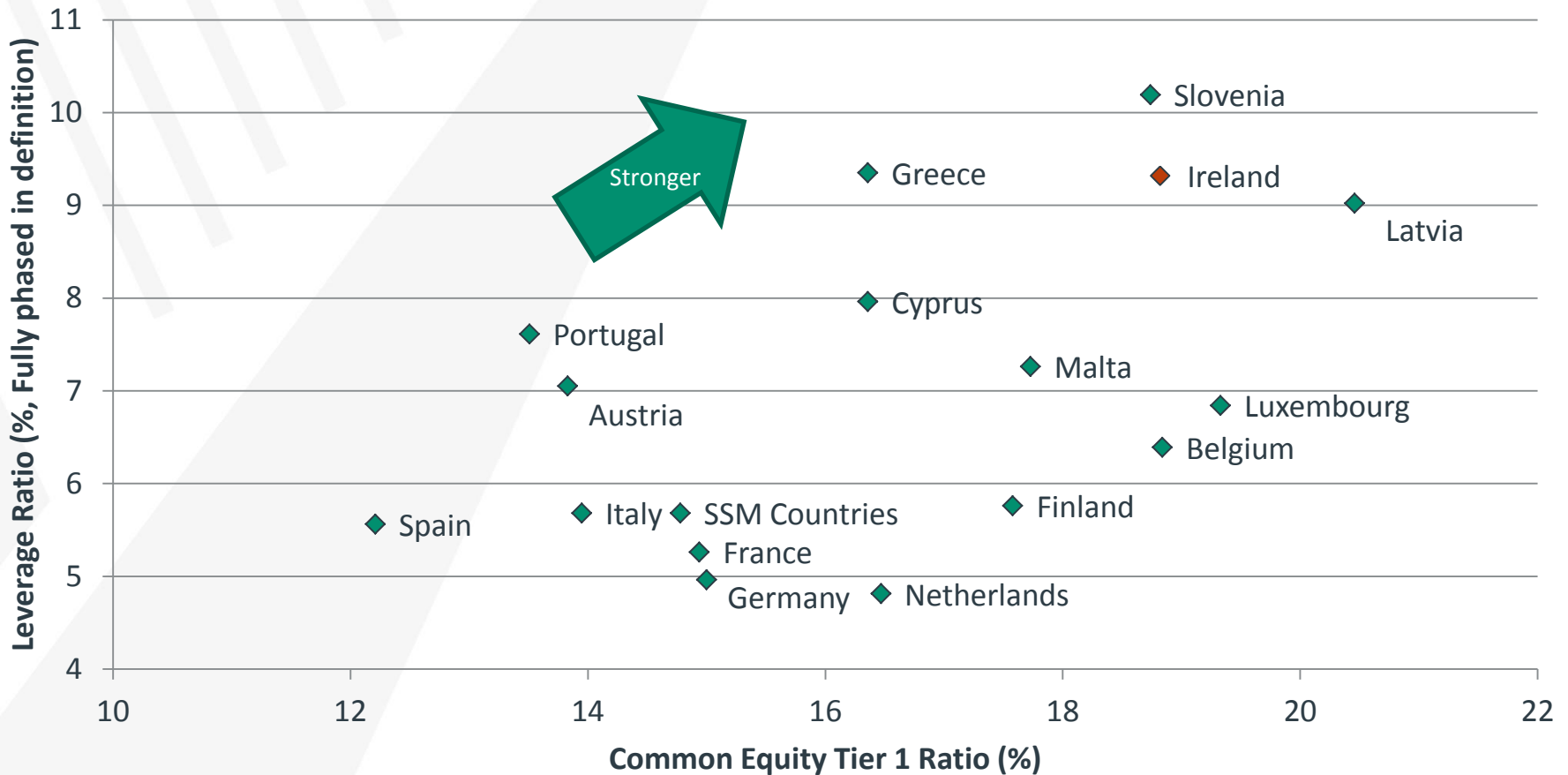
Net Interest Margin



Profit before Tax



Ireland's banks are among the best capitalised in Europe



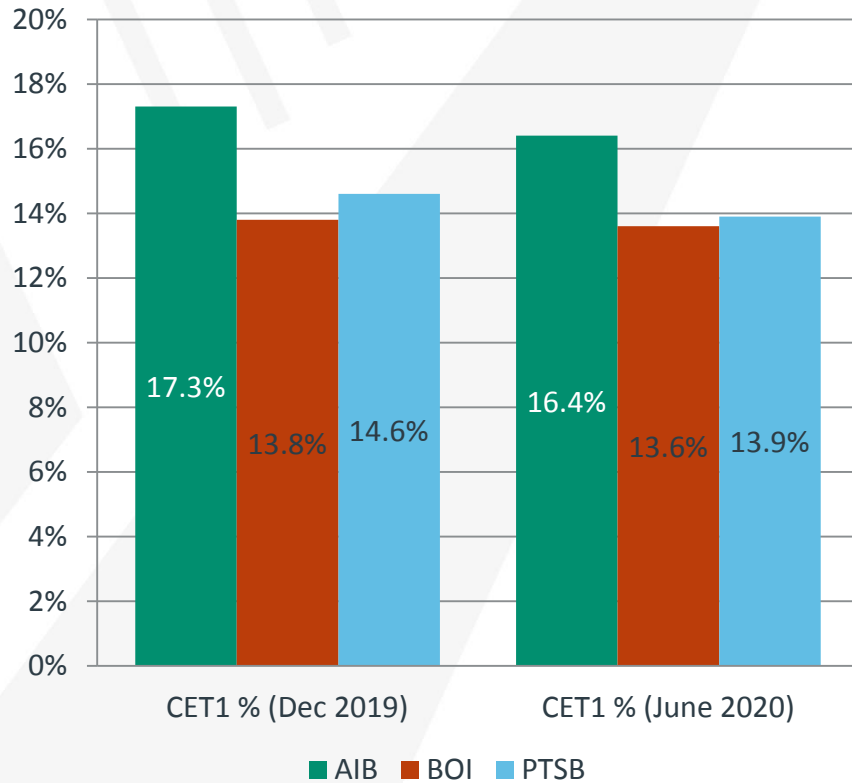
Source: ECB consolidated banking data (Q4 2019)

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.

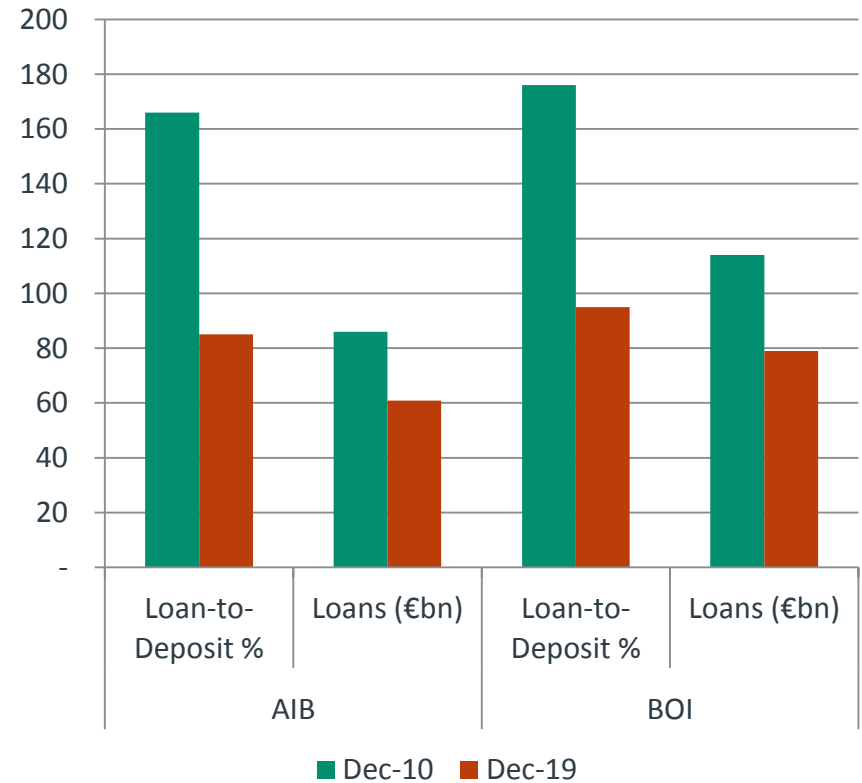


Capital ratios strengthened as banks shrunk and consolidated in last ten years

CET 1 capital ratios allow for ample forbearance in Q2



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



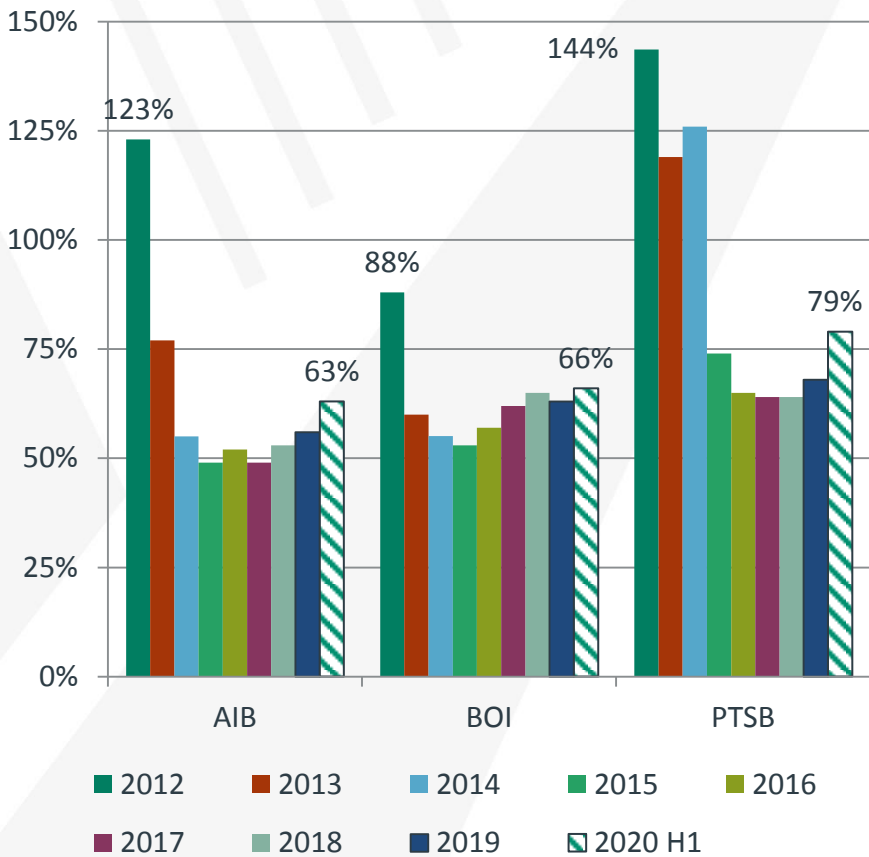
Source: Published bank accounts

Source: Published bank accounts

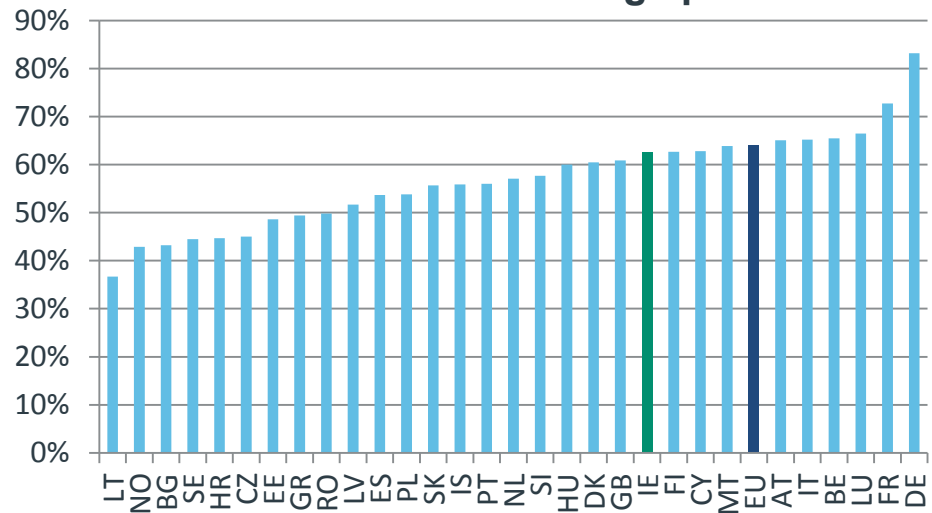


Domestic bank cost base has risen due to Covid

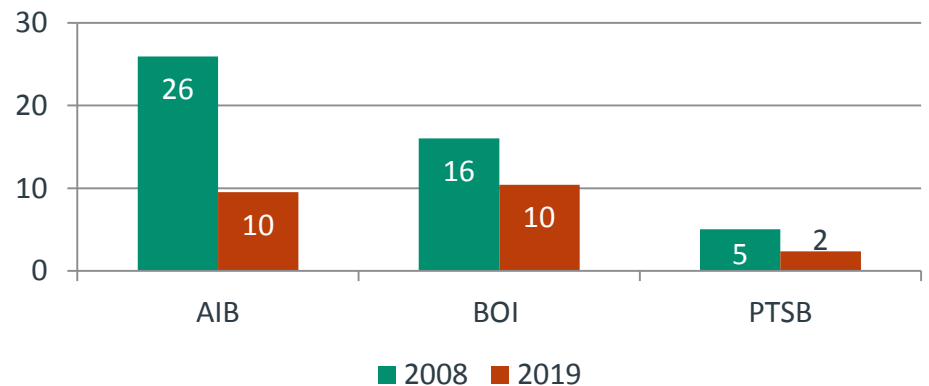
Cost income ratios increased ...



... IE banks* below EU average pre-Covid

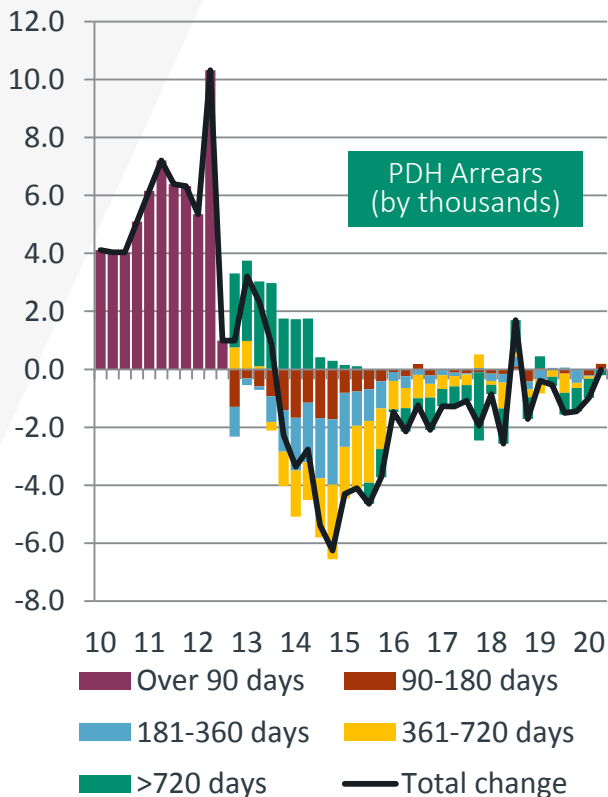
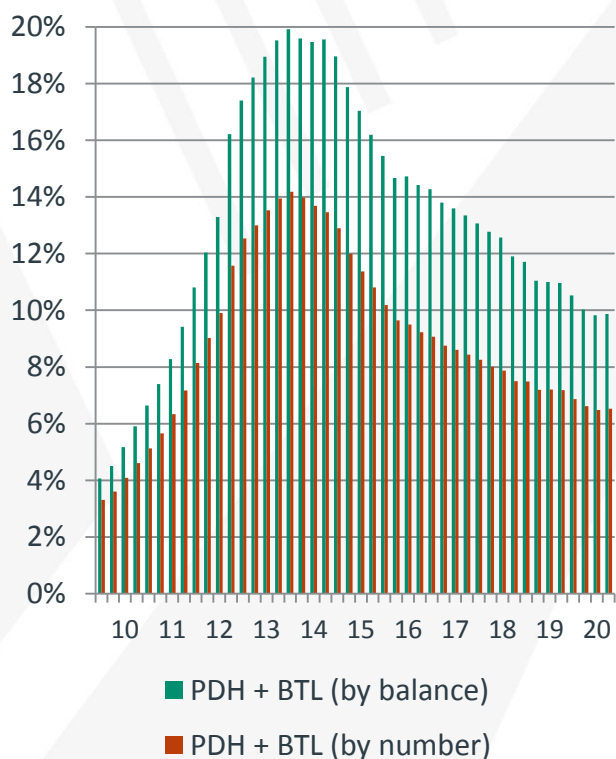


Staffing (000s) halved post crisis

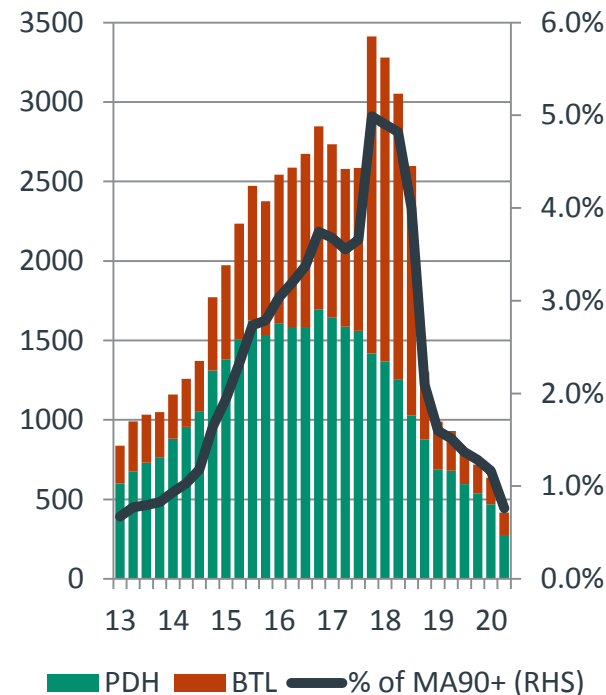


Irish residential mortgage arrears may reverse course in 2020

Mortgage arrears (90+ days)



Repossessions*



Source: CBI



Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta
National Treasury Management Agency

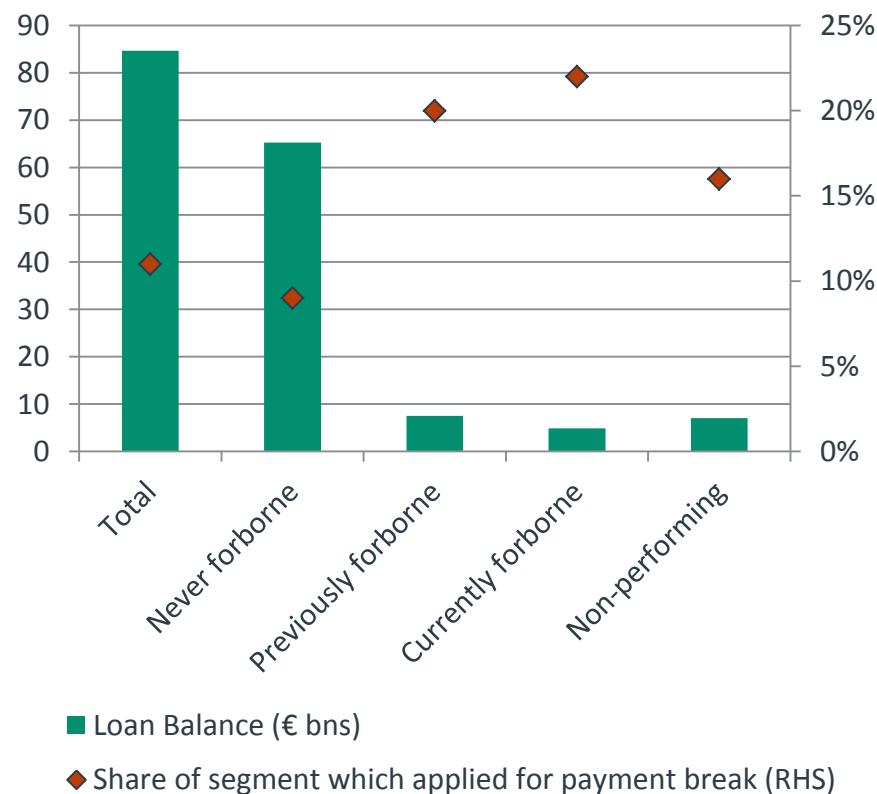
* Four quarter sum of repossessions. Includes voluntary/abandoned dwellings as well as court ordered repossessions

One in nine owner-occupier mortgages was on a payment break during H1 2020

Some 11% of accounts applied for a payment break in early 2020

End- May	Balance (€ m)	Share
Total	94,940	100%
No request	84,019	88.50%
Payment break: active	10,042	10.60%
Payment break: approved and pending	176	0.20%
Payment break: expired	246	0.30%
Request under consideration	207	0.20%
Request cancelled	213	0.20%
Request rejected	36	0%

A history of forbearance or non-performance associated with payment breaks



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 31st 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.



Government's NDP outlines green projects; proposed law will commit Ireland to net-zero emissions by 2050

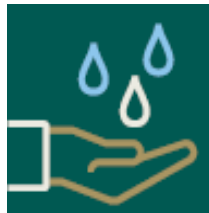
1 in 5 euros in the National Development Plan (NDP) to be spent on green projects

Sustainable
Mobility
€8.6 billion

Sustainable
Management
of Water and
Environmental
Resources
€6.8 billion

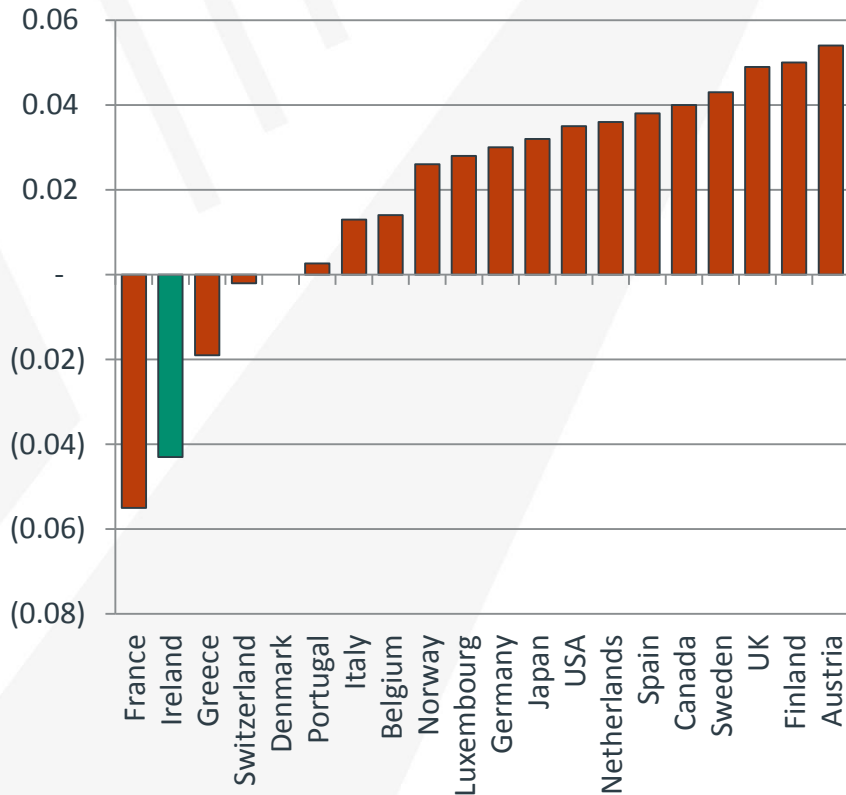
Transition to a
Low carbon
and Climate
Resilient
Society
€7.6 billion

Total: €23
billion (13%
of GNI*)

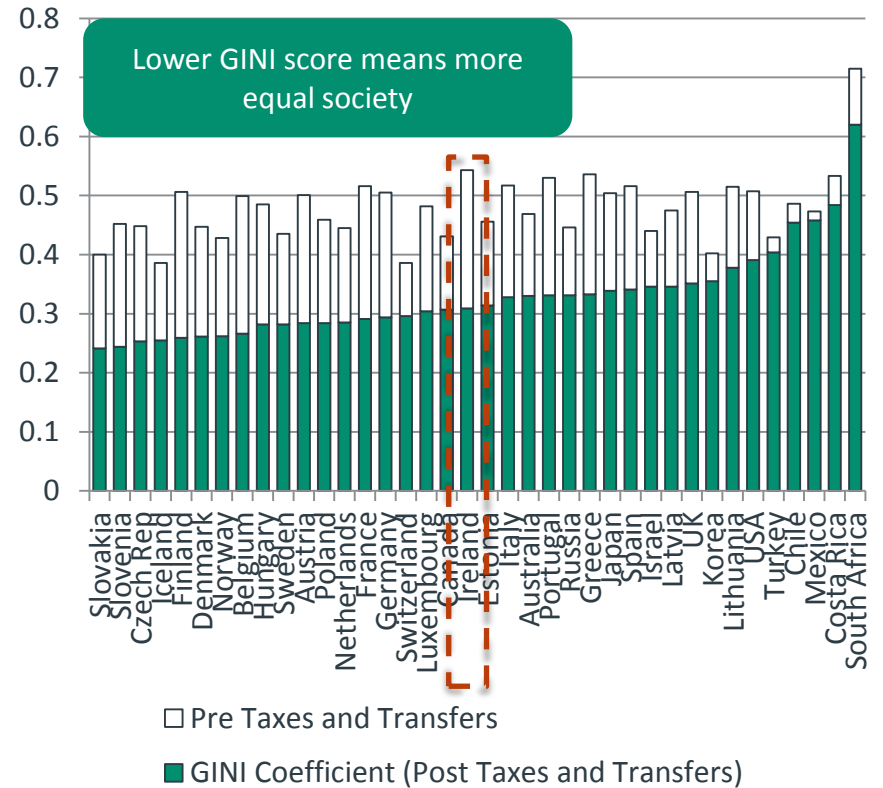


Income equality has improved: Ireland's progressive system the main driver and cushioned the economy in 2020

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



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

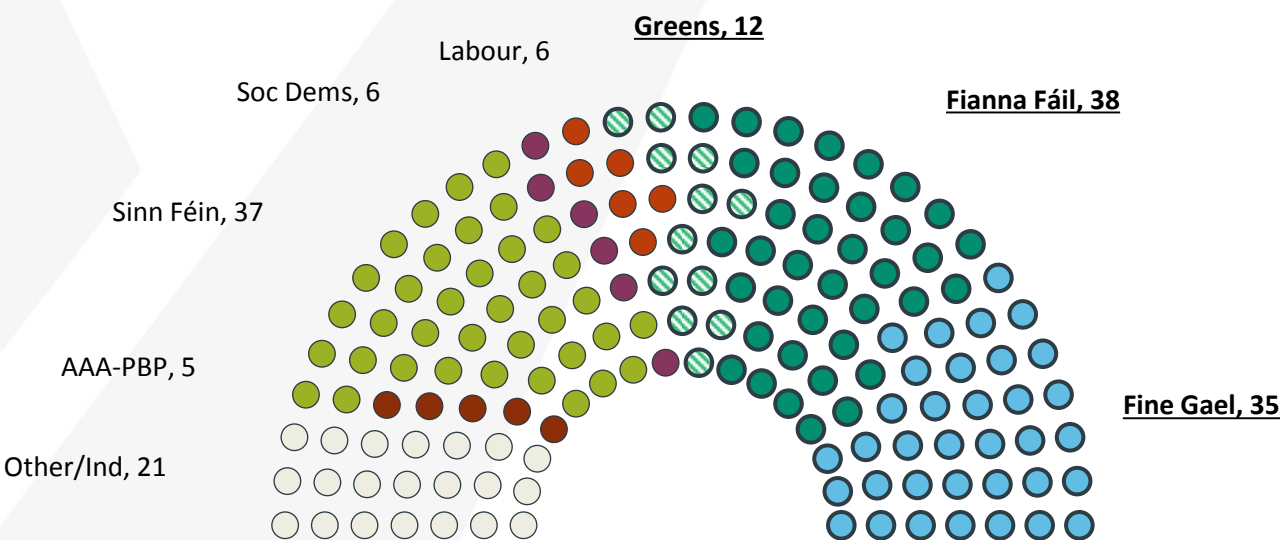


Irish coalition government formed in mid-2020; made up of Fianna Fáil, Fine Gael and the Greens

Programme for government focuses on economic recovery, Brexit, public investment and climate action

Rotating Taoiseach – will revert to FG in 2022

Breakdown of seats in Dáil Éireann following 2020 General Election (160 Seats total)



Name	Party	Position/Ministry
Micheál Martin	FF (leader)	Taoiseach (PM, until end 2022)
Leo Varadkar	FG (leader)	Tánaiste (deputy PM), Business
Simon Coveney	FG	Foreign Affairs (Brexit)
Paschal Donohoe	FG	Finance
Eamon Ryan	Greens (leader)	Climate, Transport



Disclaimer

The information in this presentation is issued by the National Treasury Management Agency (NTMA) for informational purposes. The contents of the presentation do not constitute investment advice and should not be read as such. The presentation does not constitute and is not an invitation or offer to buy or sell securities.

The NTMA makes no warranty, express or implied, nor assumes any liability or responsibility for the accuracy, correctness, completeness, availability, fitness for purpose or use of any information that is available in this presentation nor represents that its use would not infringe other proprietary rights. The information contained in this presentation speaks only as of the particular date or dates included in the accompanying slides. The NTMA undertakes no obligation to, and disclaims any duty to, update any of the information provided. Nothing contained in this presentation is, or may be relied on as a promise or representation (past or future) of the Irish State or the NTMA.

The contents of this presentation should not be construed as legal, business or tax advice.

