# Ireland: Risks reduced as economy looks to recovery in 2021

Vaccine roll-out and Brexit deal reduce longterm risks going into new year

January 2021



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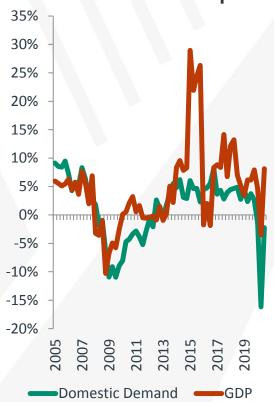
Page 64: Other Data



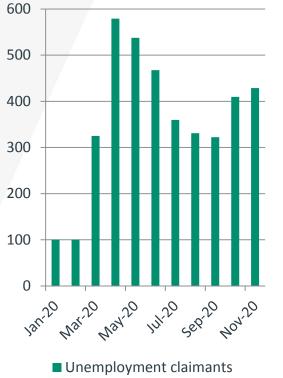


#### First steps to recovery along uneven road: Intermittent lockdowns expected before vaccine rollout is completed

#### GDP strong in 2020 while domestic sectors hampered

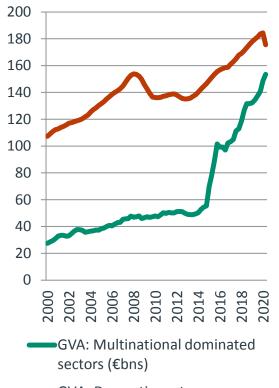


#### U rate uncertain\*\*; **Lockdown impact Oct/Nov**



(Index, Jan 20 = 100)

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



GVA: Domestic sectors

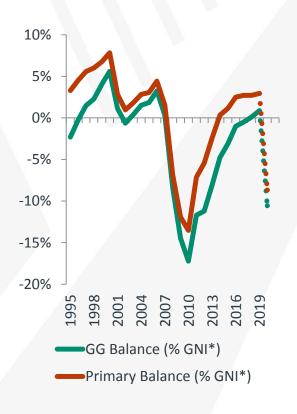


<sup>\*</sup> Domestic demand series accounts for multinational activity and known as modified final domestic demand (excludes inventories)

<sup>\*\*</sup> 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 now needed to fight Covid

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



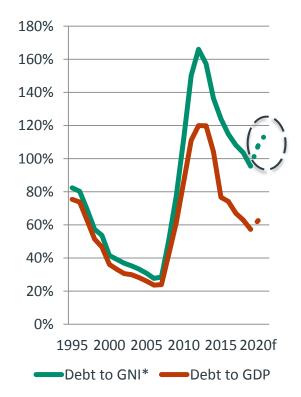
Debt-to-GNI\* (95% 2019, from 166% peak)

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 will rise from pre-Covid level of 95% of national income





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

### Recession

Ireland (ex. Multinationals) is in recession.

Economy has begun first steps to recovery along uneven road. Vaccine progress gives optimism for H2 2021 onwards.

### Exposure

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

The worst case scenarios for Brexit avoided by UK-EU FTA

### Policy

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

interest costs and allow necessary fiscal room

### NTMA has indicated a funding plan of €16-€20bn for 2021; €24bn funded in 2020 at record low rates

### 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, EU Sure, and private placements.

### 10 years

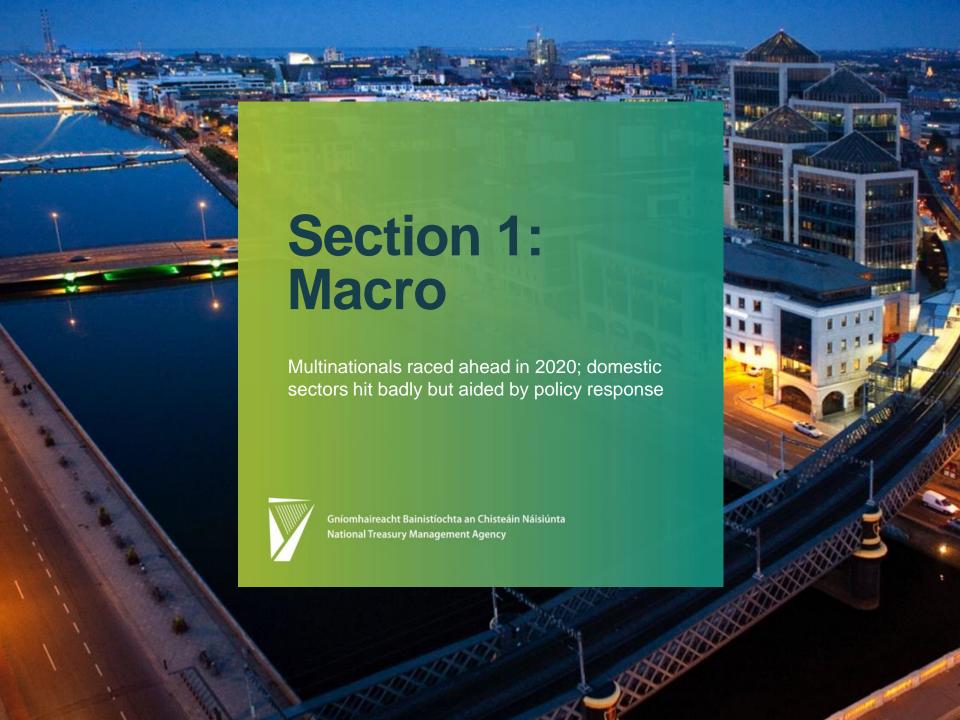
Weighted average maturity of debt one of longest in Europe

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-

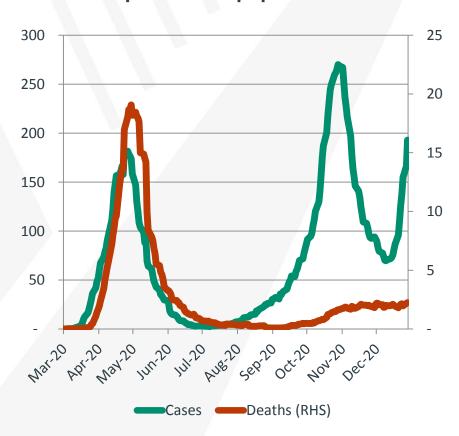
Ireland has been affirmed in AA category by S&P

On relative basis, hit to Ireland less than for other countries. Reasons include multinationals, smaller tourism sector and smaller domestic economy

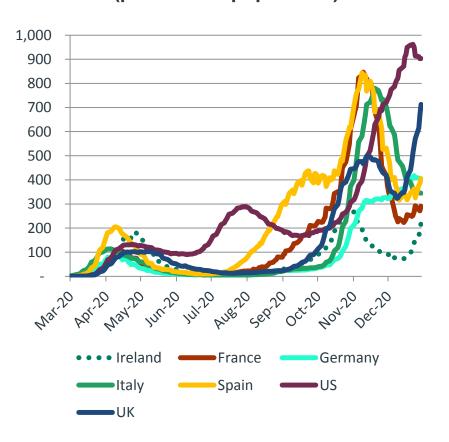


## Second wave subdued by Q4 lockdown; Case numbers spiked in December forcing another lockdown for January

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

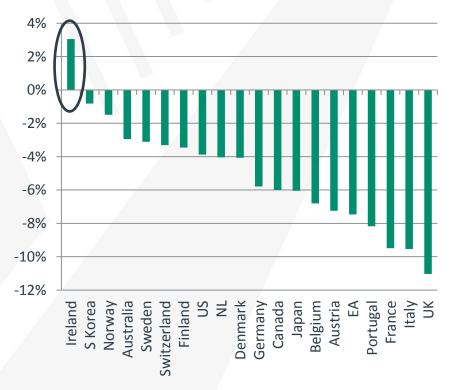


#### Ireland case numbers versus other countries (per 100k of population)



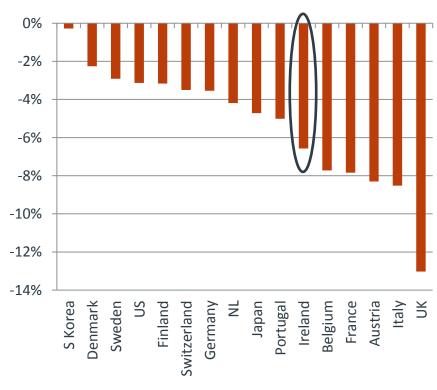
## On a relative basis Ireland performed better economically than most EU peers in 2020 – thanks to tech/pharma firms

#### Real GDP up 3.0% Y-o-Y in 2020 for Ireland: GDP <u>overstates</u> impact of multinationals



■ Y-o-Y impact to GDP (Q1-Q3, 2020 constant prices)

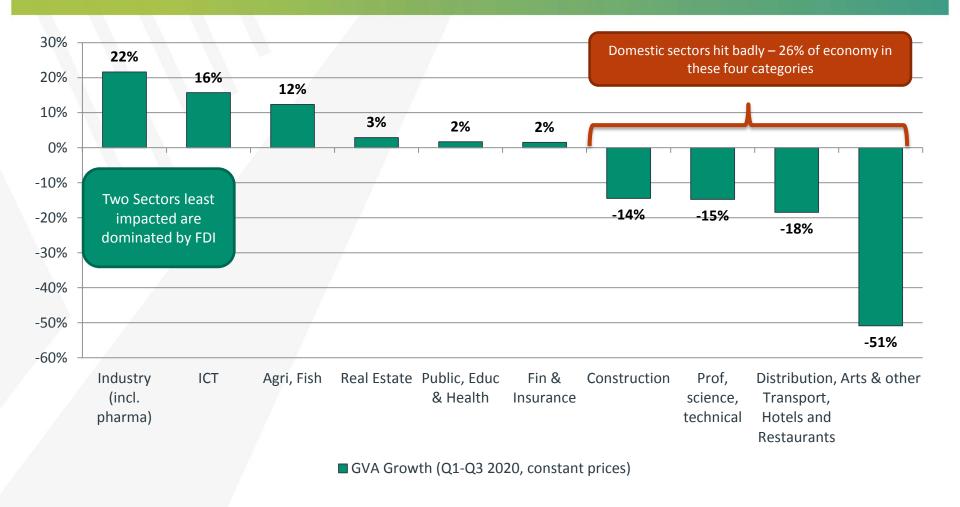
#### Real MFDD down 6.6% Y-o-Y in 2020: MFDD understates impact of multinationals



■ Y-o-Y MFDD impact (Q1-Q3 2020, constant prices)



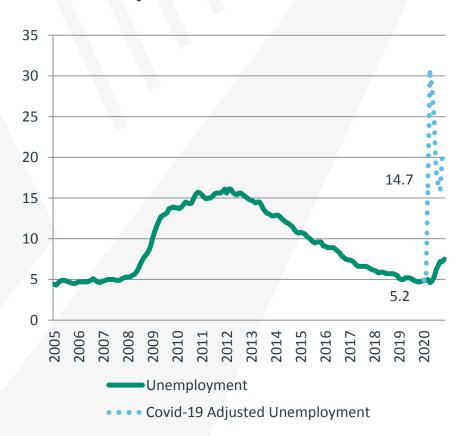
## Sector breakdown for 2020 Q1-Q3 – Multinationals racing ahead, domestic side hit hard



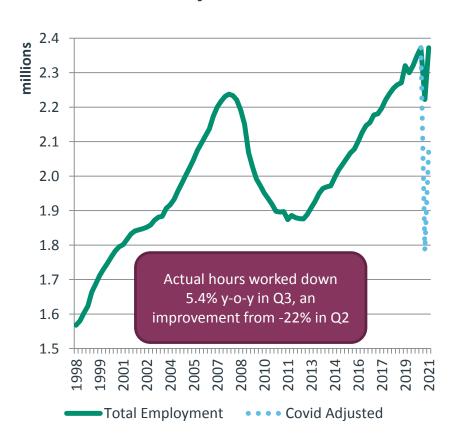


## Labour market data shows stark Covid-19 impact; Second lockdown has seen a reversal in unemployment rate

#### True unemployment rate is uncertain: Covid-19 adjusted rate 21%\* in November



### At end-Q3, adjusted employment was estimated just below 2.1m

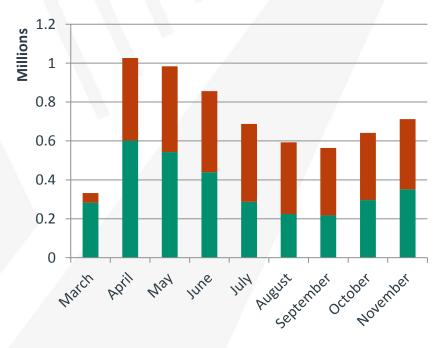




<sup>\*</sup> The CSO have estimated the upper bound of the unemployment rate at 21% in November. The CSO have urged caution around labour market data given the likelihood of revisions and the unique nature of employment status for some people in the pandemic.

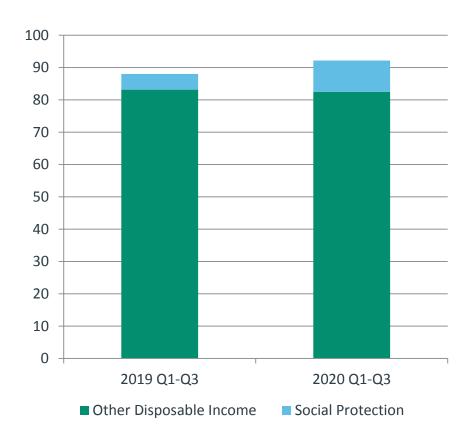
### Government income supports extended into 2021; have helped maintain aggregate household income

#### Oct/Nov numbers increased by lockdown; numbers will fluctuate in H1 2021



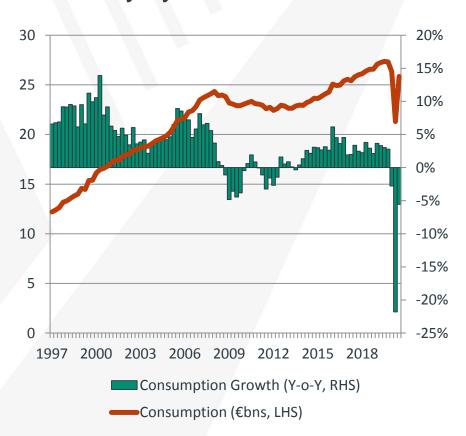
- Temporary WageSubsidy Scheme/Employment Wage Subsidy Scheme
- Pandemic Unemployment Payment

#### Supports have meant aggregate household income has been more than maintained

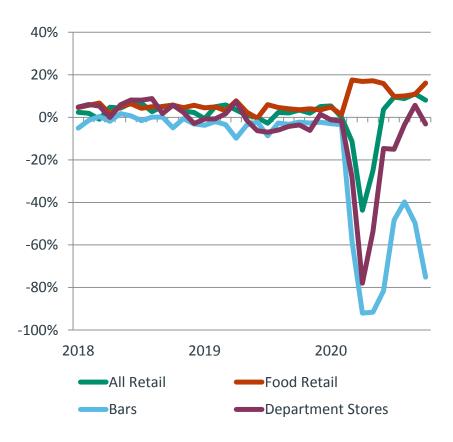


## Consumption fell sharply in Q2 despite incomes being maintained; the result is record savings rates

#### Consumption sharply hit in Q2 – down 22% y-o-y: Q3 saw rebound

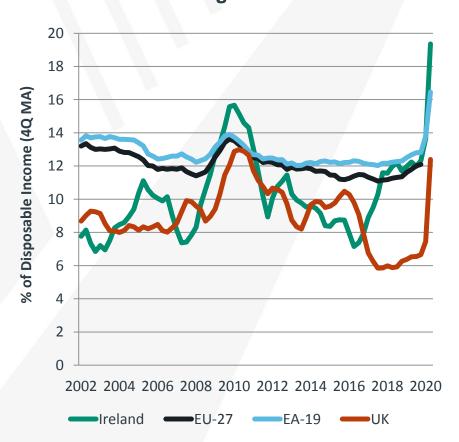


#### Retail sales rebounded in Q3; Q4 lockdown saw reversal for some sectors

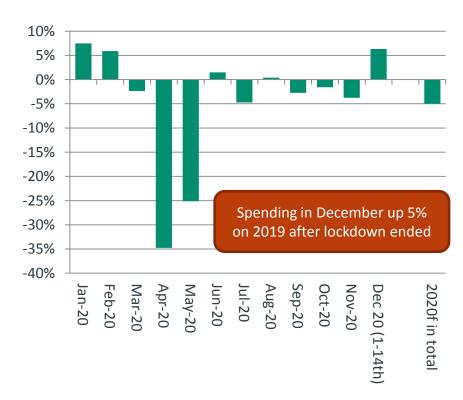


## Savings rate increased sharply in Q2 due to forced savings; H2 saw spending return close to 2019 levels

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



### Card data shows Q3 consumption rebound; lockdown impacted Q4 so far but not like Q2

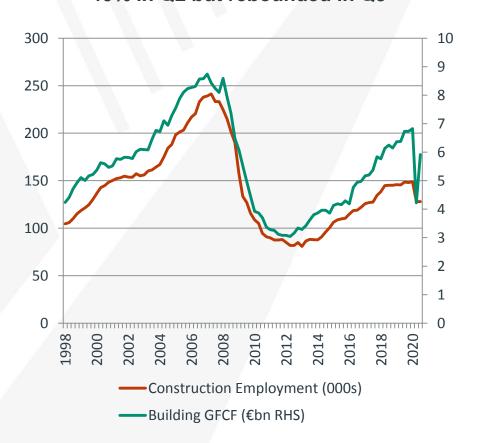


■ Spending on debit and credit cards (y-o-y change)

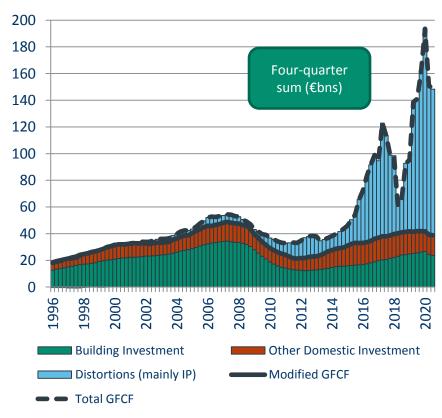


## Investment hit as construction sector was shuttered in Q2; Construction rebounded Q3, un-impacted by Q4 lockdown

#### Building and construction investment hit by 40% in Q2 but rebounded in Q3



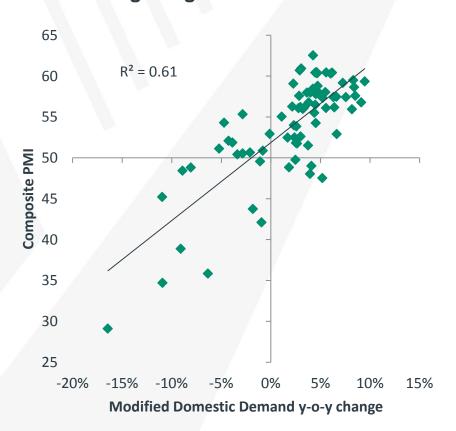
#### Another surge of IP into Ireland in 2019-2020helps ICT but distorts investment picture



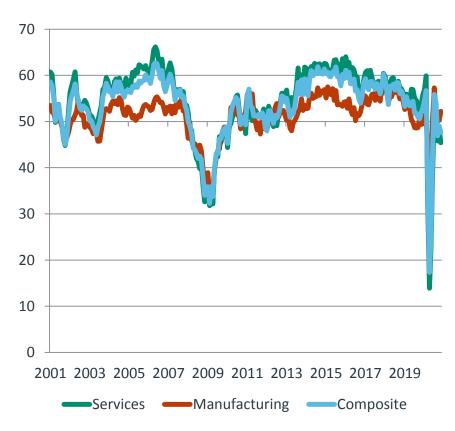


### PMI – Manufacturing holding up better than services; lockdown impact seen in Oct/Nov

#### Ireland's Composite PMI has tended to be a good guide for MDD



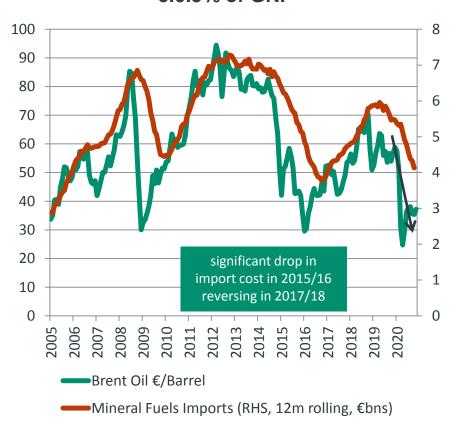
#### All three PMIs softened recently – Composite 47.7, Manu 52.2, Services 45.4



## External environment supportive for Ireland – 2021 should see the global economy rebound given large stimulus

	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	Unclear
UK growth	Covid-19 shock; Brexit unresolved	Brexit resolved; Rebound
Euro Growth	Covid-19 shock	Rebound
Euro currency	Strengthening vs. Dollar	Unclear

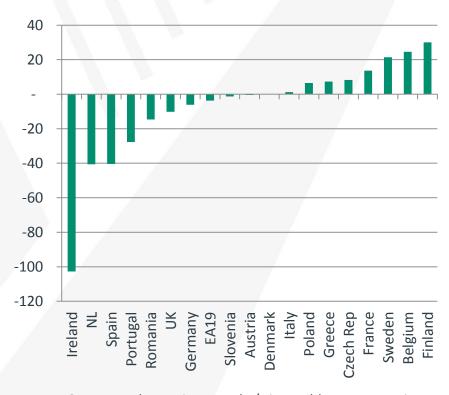
#### Oil price drop might boost the economy by c.0.5% of GNI\*





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

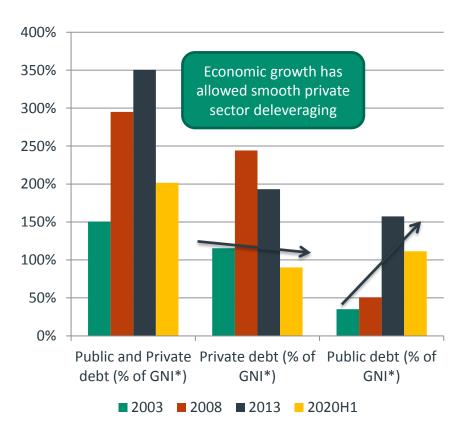
#### Household debt ratio has decreased due to deleveraging and increasing incomes



■ 10 year pp change in HH Debt/Disposable Income ratio

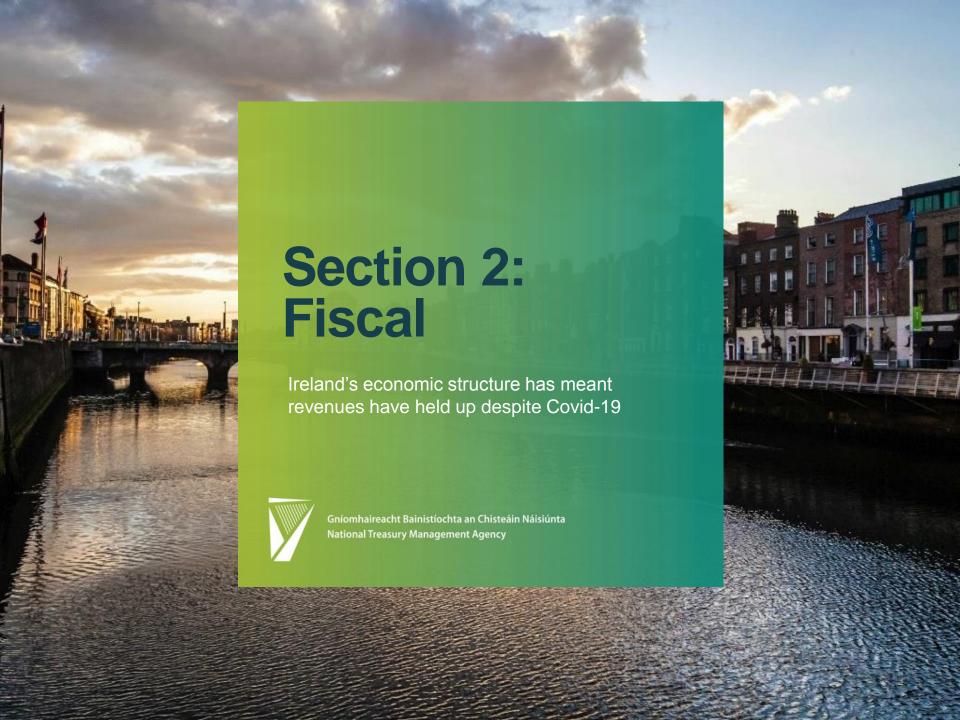
Source: Eurostat (2019 versus 2009)

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



Source: CBI data, CSO





### Fiscal Policy response was large and swift in 2020; Budget 2021 set on conservative no vaccine/no Brexit deal basis

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

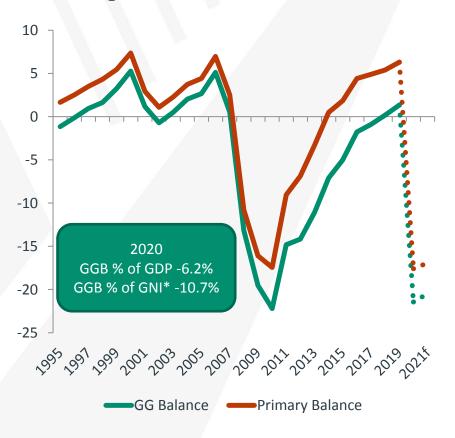
## Total fiscal response of €38bn over 2020 & 2021 (19% of GNI\*) is large; contingency may not be needed given Brexit

	€bn	2020	2021	% GNI*	Description
Taxation Measures	4.1	3.4	0.7	2.1	
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
Expenditure Measures	28.7	16.8	11.9	14.1	
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, <u>Covid/Brexit contingency response</u>
<b>Total Direct Supports</b>	32.8	20.2	12.6	16.2	
Indirect supports	5.0	5.0	0.0	2.5	Credit Guarantee Scheme, Pandemic Stabilisation and Recovery Fund, other schemes
Total Supports	37.8	25.2	12.6	18.7	

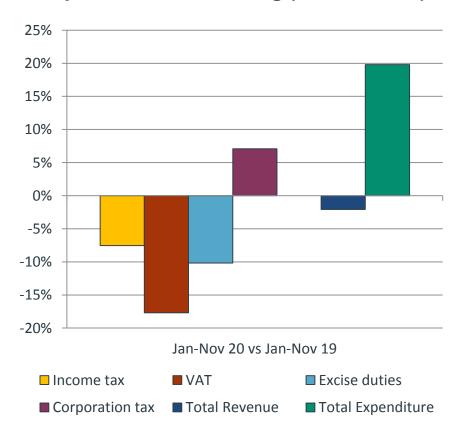


## Fiscal discipline in evidence in last decade – after Covid-19 stimulus ends Ireland plans to narrow its deficit again

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

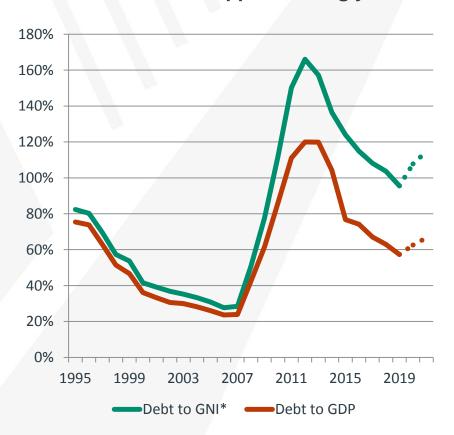


#### Revenues holding up despite pandemic; expenditure is increasing (Central Govt.)



## 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

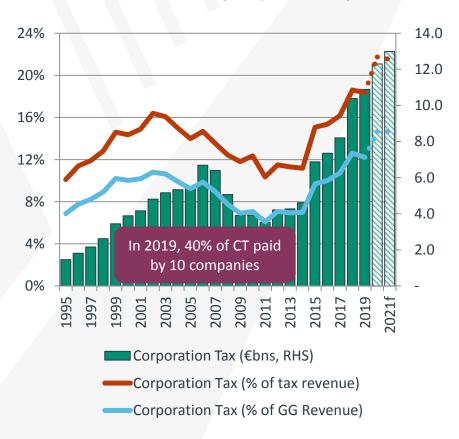


#### No country will be running primary surplus necessary to keep debt ratio in check

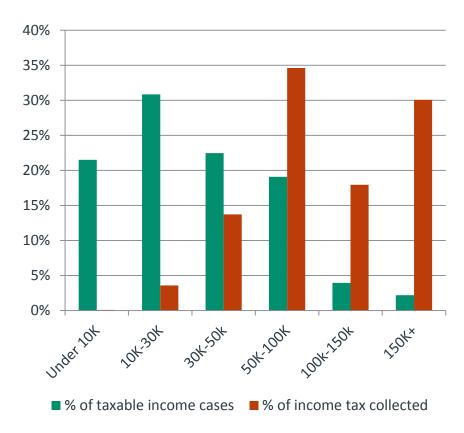


#### CT revenue cushioned by 2019 payments and defensive nature of Pharma and ICT; income tax protected also

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



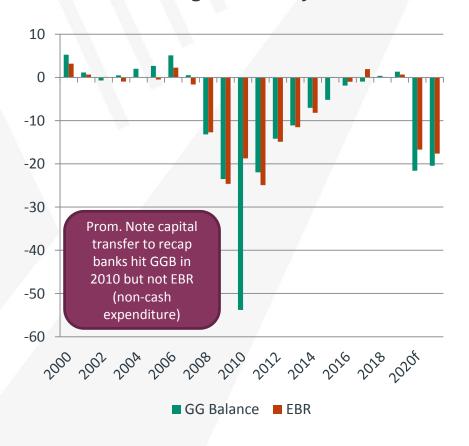
#### Progressiveness of income tax system and sector mix limits hit to overall receipts





## 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		

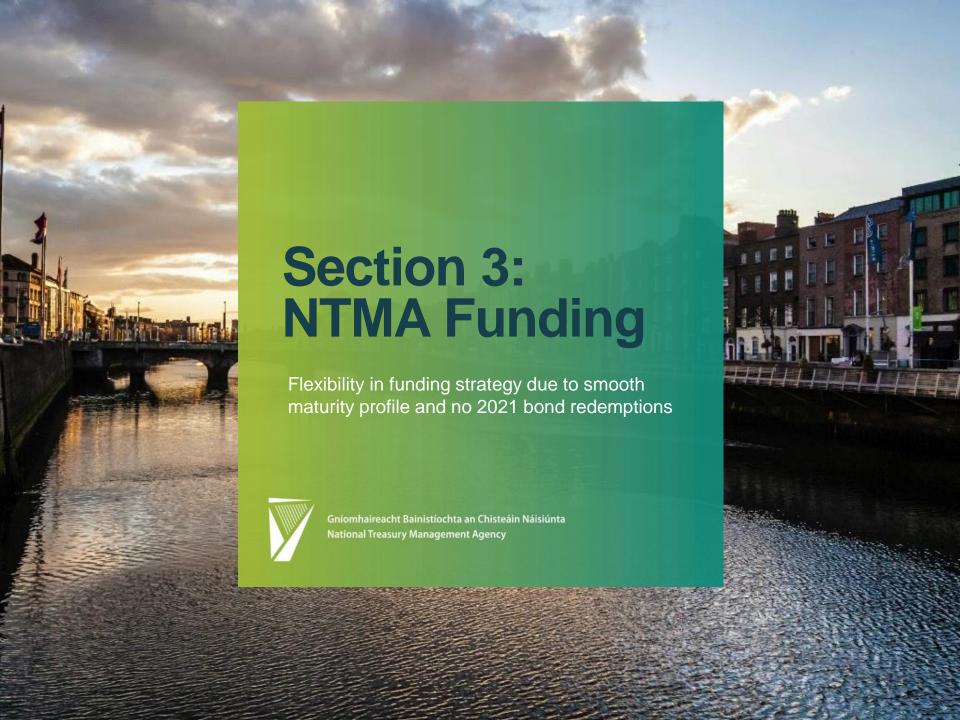
	2020	2021	Comments	
EBR	-16.7	-17.6	This is the deficit in cash terms that the NTMA must finance each year	
Adjust for Accruals	3.1	0.4	Accruals can relate to interest, taxes, other expenditures	
Exclude Equity & Loan Transactions	-4.6	-1.5	Transactions between the Exchequer and NAMA, CBI and other govt. entities: <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	
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%





### NTMA has indicated a funding plan of €16-€20bn for 2021; €24bn funded in 2020 at record low rates

### 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, EU Sure, and private placements.

### 10 years

Weighted average maturity of debt one of longest in Europe

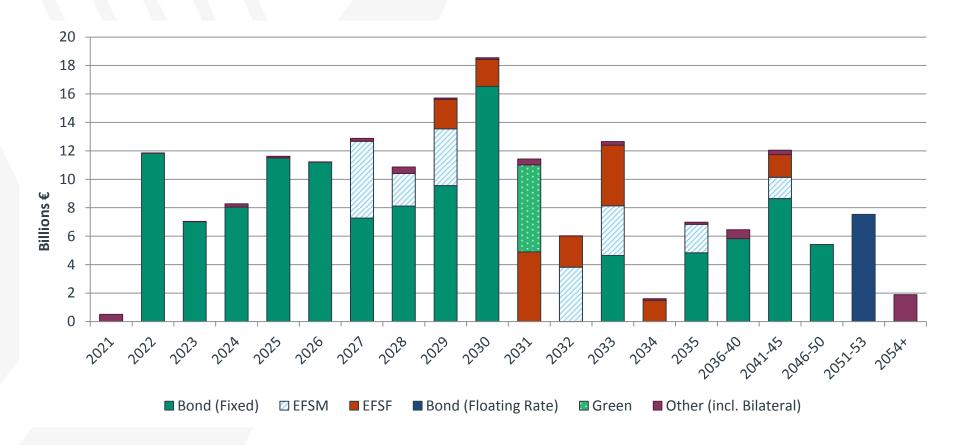
The ECB's QE enabled NTMA to extend debt maturities, reduce interest cost and repay the IMF. Now ECB is buying aggressively again with few limitations

#### AA-

Ireland has been affirmed in AA space by S&P

On relative basis, hit to Ireland less than for other countries. Reasons include multinationals, smaller tourism sector and smaller domestic economy

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



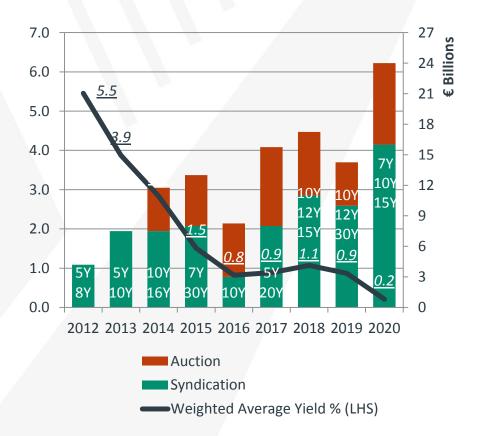


Source: NTMA

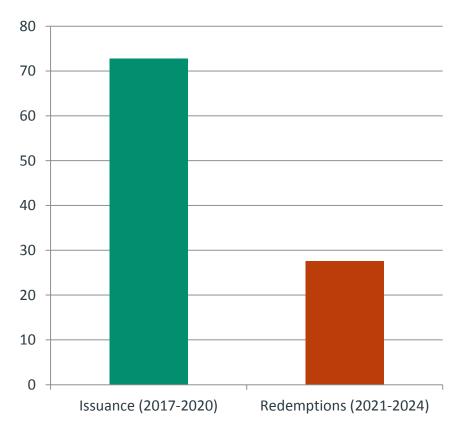
Note: EFSM loans are subject to a 7-year extensions. It is not expected that Ireland will refinance any of its EFSM loans before 2027. As such we have placed the pre-2027 EFSM loan maturity dates in the 2027-33 range although these may be subject to change.

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

NTMA issued €92.5bn MLT debt since 2015; 13.2 yr. weighted maturity; avg. rate 0.83%



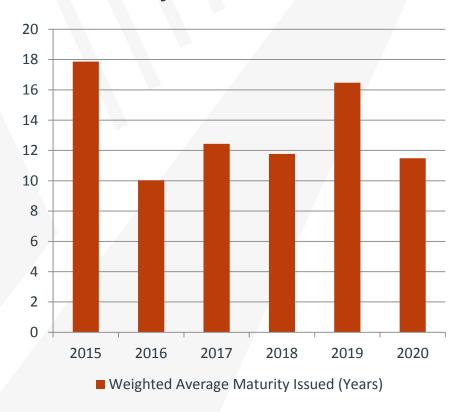
Even with extra Covid-19 borrowings, NTMA might not match supply in 2017-2020 period



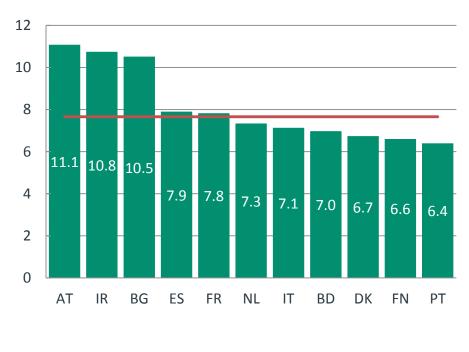
#### The NTMA took advantage of QE to extend debt profile

Source: NTMA: ECB

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



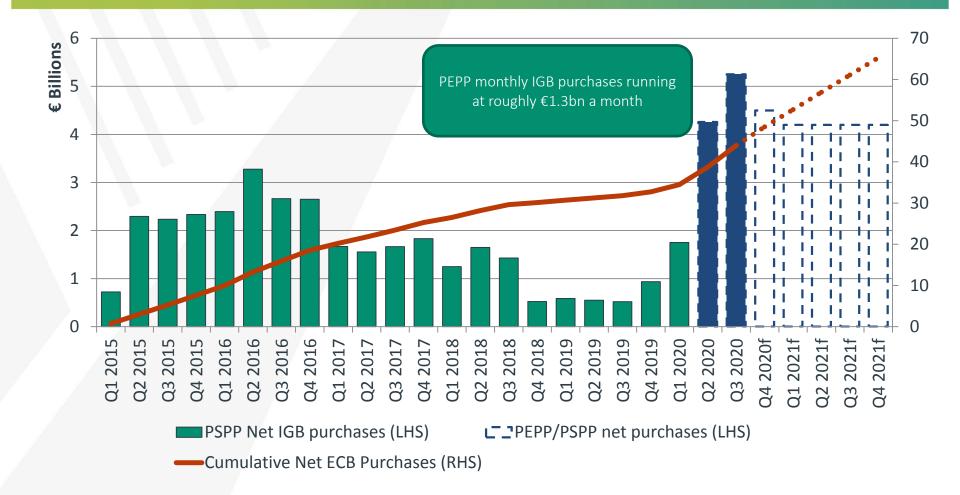
#### ...Ireland (in years) now compares favourably to other EU countries



Govt Debt Securities - Weighted Maturity

EA Govt Debt Securities - Avg. Weighted Maturity

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





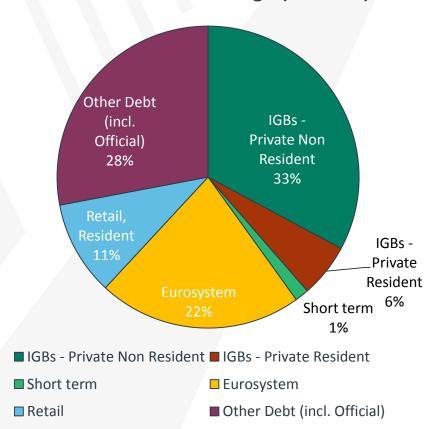
Source: ECB, NTMA Calculations

Notes:

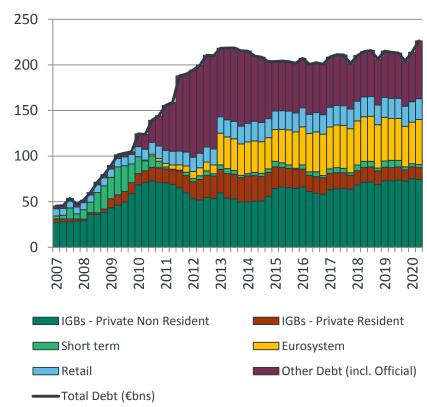
Forecasts sees Ireland's capital key of 1.69% and assumes 90% of new purchases will be for public sector assets with 7% of public sectors assets being supranational issuers.

## 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 (Q2 2020)



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

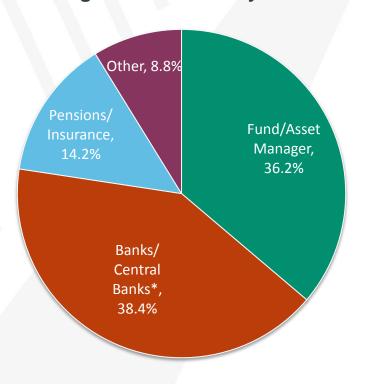




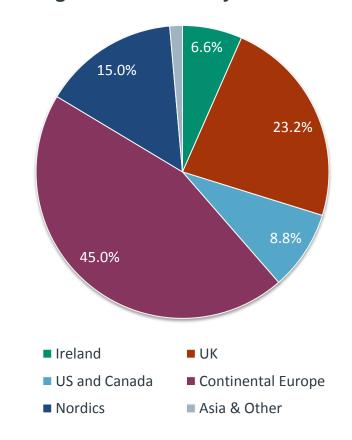
Source: CSO, Eurostat, CBI, ECB, NTMA Analysis
IGBs excludes those held by Eurosystem. Eurosystem holdings include SMP, PSPP and CBI holdings of
FRNs. Figures do not include ANFA. Other debt Includes IMF, EFSF, EFSM, Bilateral as well as IBRCrelated liabilities. Retail includes State Savings and other 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 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	А	a-1	Stable	Jan. 2017



## 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

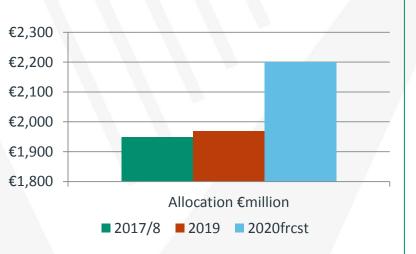


Irish Rail train at Avoca on the Dublin to Rosslare route. Heavy rail was allocated some €400m from ISGBs in 2019

#### **January 2021 Update**

- €6.1bn nominal outstanding
- €3.9bn allocated to eligible green projects
   since inception
- €2.2bn 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 focussed on Water/Waste management and transportation

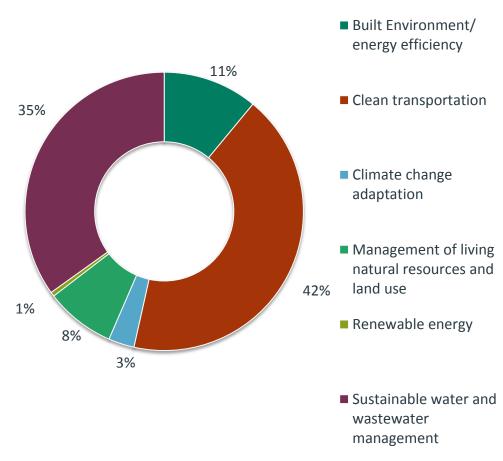




Construction of the new water treatment plant at Vartry (March 2020)



#### 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

<sup>\*</sup>For a more detailed break-down please see the ISGB 2017/ 2018 Impact Report <u>here</u>

## 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















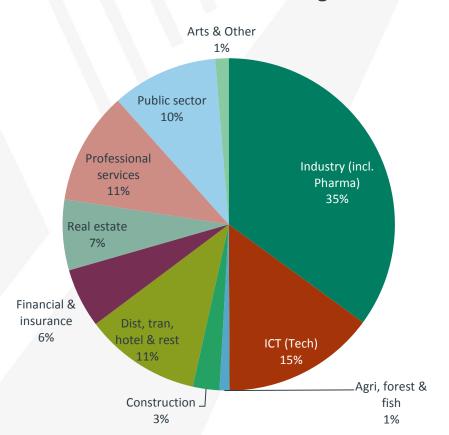
Irish peatlands





# 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

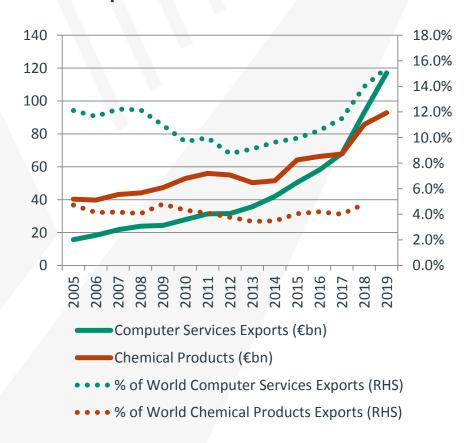
	Share of Employment	Share of Wage Bill (2019)	Share of GVA (2019)	Gross Weekly Earnings € (Q4 2019)
Agriculture	4.5%	1%	1%	N/A
Industry (incl. Pharma.)	12.2%	14%	35%	916
Construction	6.2%	4%	3%	821
Dist., Tran, Hotel & Rest	25.4%	20%	11%	571
ICT (Tech)	5.4%	8%	15%	1,241
Financial	4.5%	8%	6%	1,235
Real 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



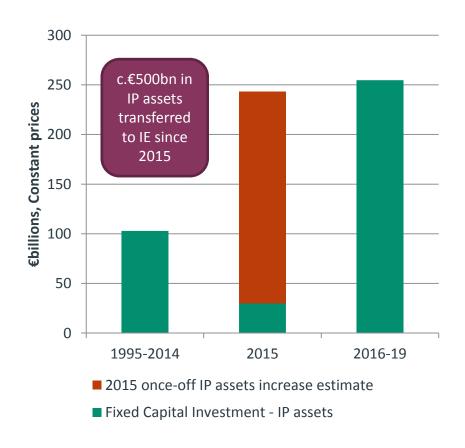
Source: CSO

# 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



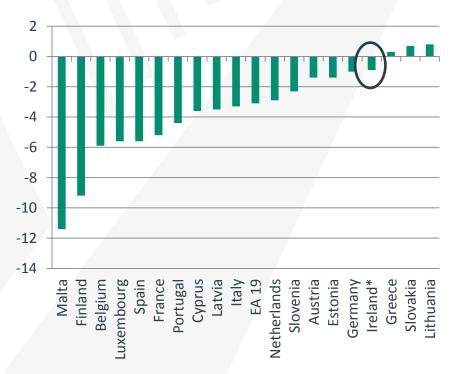
### Enormous inflows of IP assets into Ireland since 2015 on the back of BEPS reforms





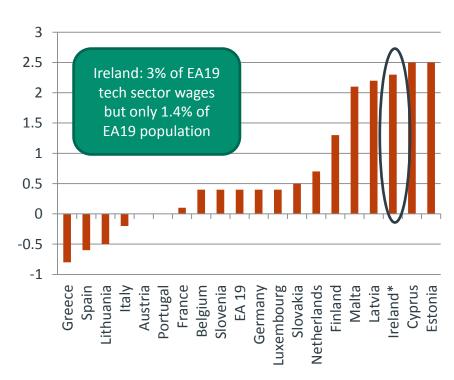
# Ireland has deftly navigated the changing global economy landscape in this century (adjusted GVA for Ireland)

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



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

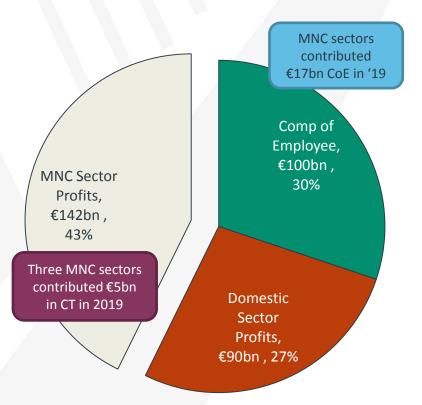


Source: Eurostat, NTMA calculations

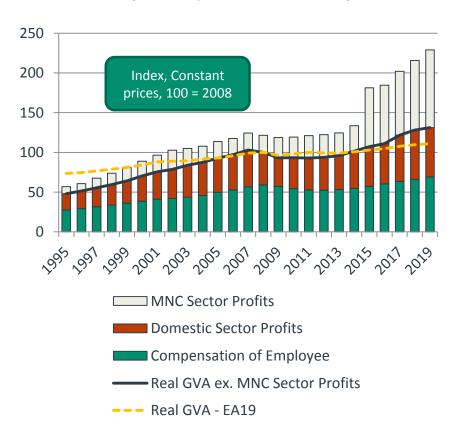
\* Ireland's GVA data has been adjusted to strip out the distortionary effects of some of the multinational activity that occurs in Ireland. Specifically a profit proxy is removed from the GVA data for the sectors in which MNCs dominate (parts of Manufacturing, ICT, and renting and leasing services).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



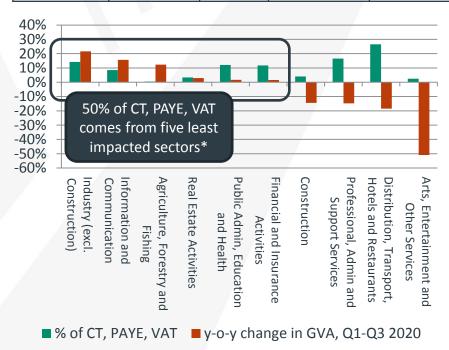


Source: CSO, NTMA calculations (Nominal 2019 data used in left chart)
Ireland's GVA data has been adjusted to strip out the distortionary effects of some of the
multinational activity that occurs in Ireland. Specifically a profit proxy is estimated for the sectors
in which MNCs dominate (MNC sectors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

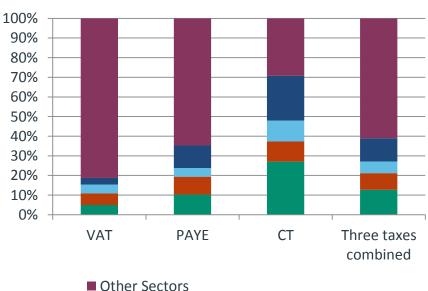
### The result of high value MNC activity in Ireland: Economy less impacted by Covid - in particular the tax base

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

		Income		Revenue
Elasticity	GG Revenue	Tax	Corporate Tax	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

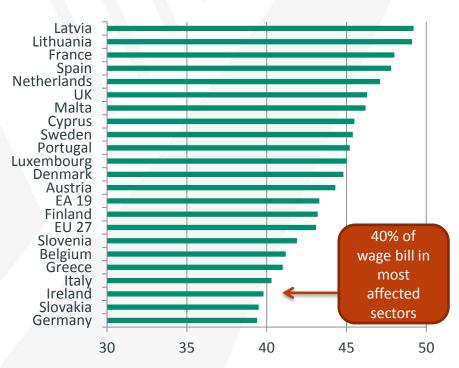


- Financial and Insurance
- Admin + support (incl. Aircraft Leasing)
- ICT (tech sector)
- Manufacturing (incl. Pharma)



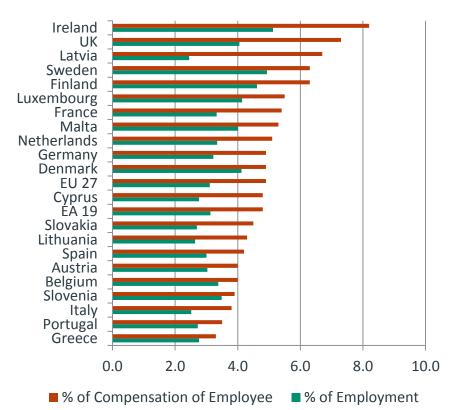
# On a relative basis Ireland could perform better than most EU peers during Covid - thanks to ICT and pharma firms

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



■ Compensation of Employee in most affected sectors (% of total)

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





## 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

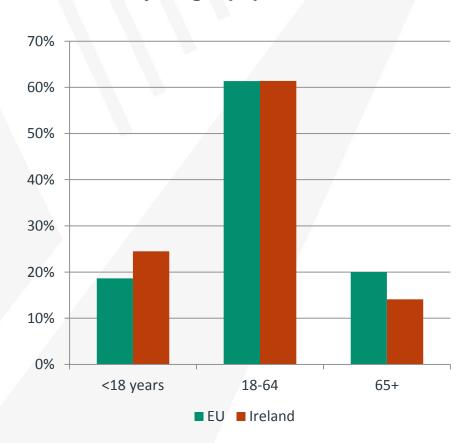
- The OECD has proposed further corporate tax reform a <u>BEPS 2.0</u>.
- BEPS 2.0 looks at two pillars. The first pillar focuses on proposals that would re-allocate taxing rights between jurisdictions where assets are held and the markets where user/consumers are based. Non-routine profits could - to 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

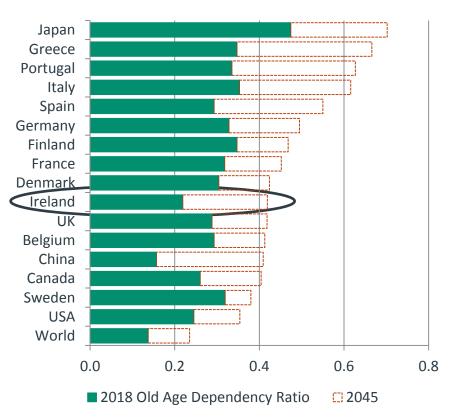
- Pillar Two the basic idea is to introduce a minimum tax rate with the aim of reducing incentives to shift profits.
- Where income is not taxed to the minimum level, there would an "income inclusion rule" which operates as a 'top-up' to achieve the minimum rate of tax.
- The obvious questions arise:
  - 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

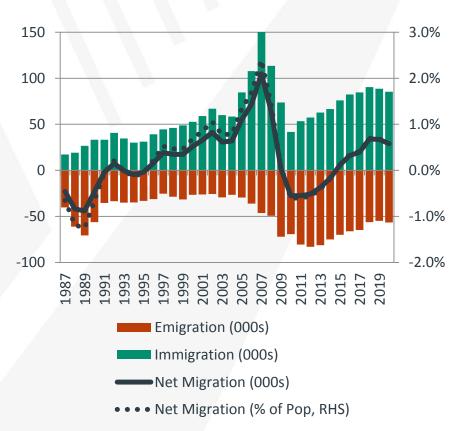


### Ireland's population will remain younger than most of its EA counterparts

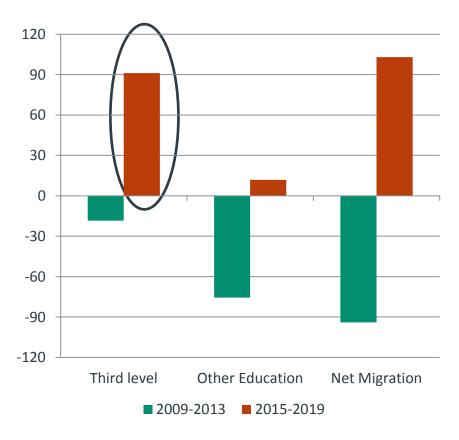


### Migration has improved Ireland's human capital; post-Covid migration to be closer to zero given travel bans

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

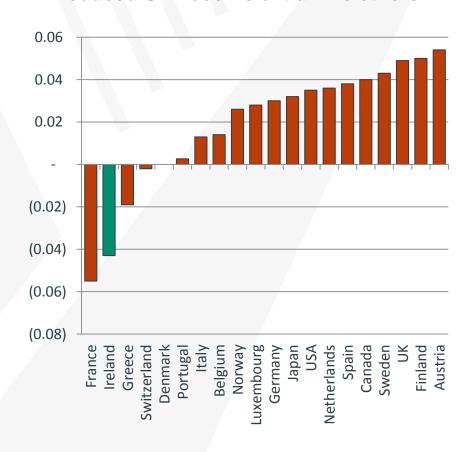


### Migration inflow particularly strong in highly educated cohort – work in MNCs attractive



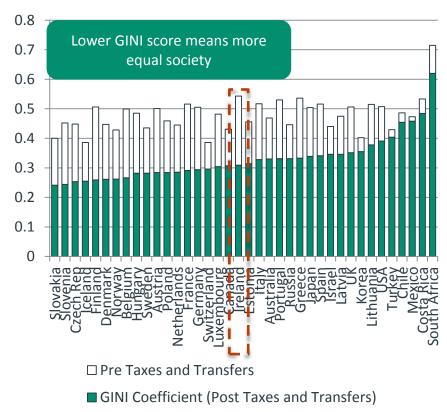
# Income equality has improved: Ireland's progressive system the main driver and cushioned the economy in 2020

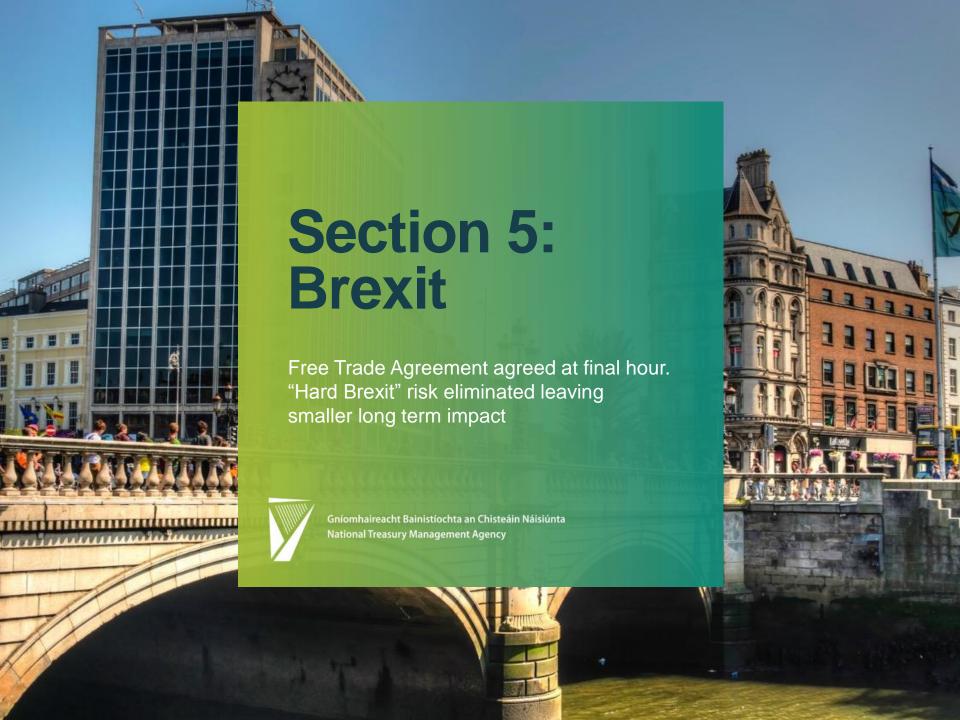
### Lower inequality (1985-2015): economic rise reduced GINI coefficient unlike others



Source: IMF, OECD

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





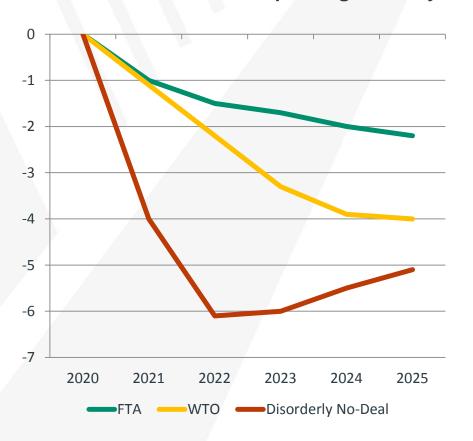
## Following intense negotiations, a Free Trade Agreement was agreed in December 2020 allowing for tariff free trade

#### 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 in conjunction with the Withdrawal Agreement signed in 2019 significantly reduces the risks concerning a physical border on the island. For more detail see pg. 55.
- 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		ioods 2019)		rvices 019)		otal 019)
	Exp.	Imp.	Exp.	Imp.	Exp.	Imp.
US	30.8	15.5	15.8	18.6	21.9	17.9
<u>UK</u> (ex NI)	<u>8.9</u>	20.6	<u>15.8</u>	<u>6.9</u>	13.5	10.6
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

# 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.

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







J.P.Morgan











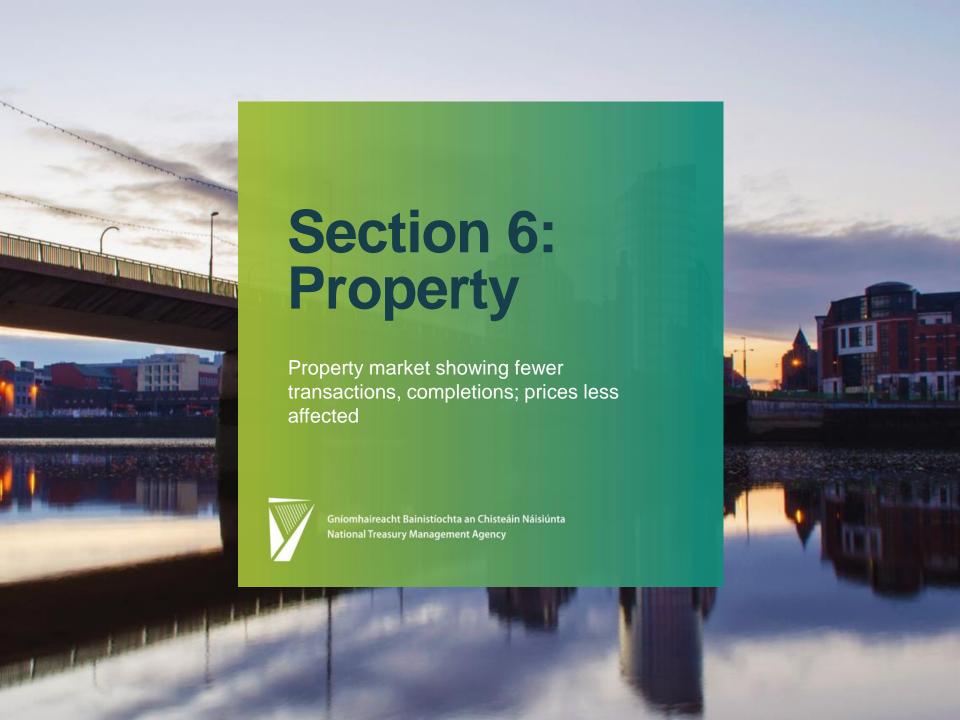




## Withdrawal Agreement in 2019 solves Northern Ireland border issues

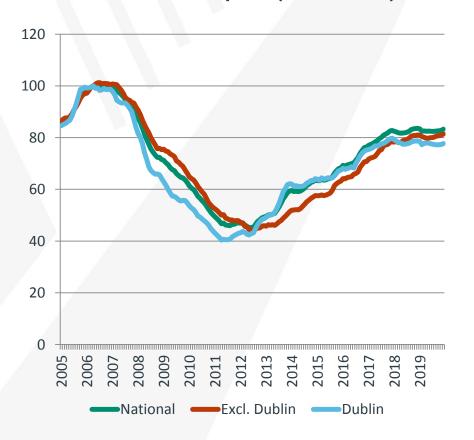
#### **Main points of Withdrawal Agreement**

- 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.



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

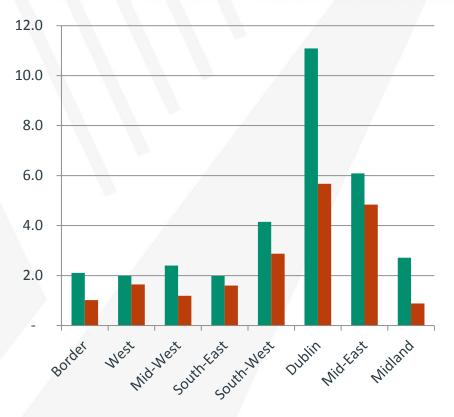
### House prices have stabilised 20% below their peak (100 in 2007)



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

Level (y-o-y % change)	Jun	Jul	Aug	Sep	Oct
# of transactions	2,988	3,327	2,927	4,227	5,463
	(-31.1%)	(-39.7%)	(-42.1%)	(-17.2%)	(-1.8%)
# of mortgage approvals	2,263	3,397	3,875	4,621	5,207
	(-49.5%)	(-33.8%)	(-11.0%)	(20.8%)	(15.4%)
Commencements	1,187	1,621	1,571		
	(-36.7%)	(-25.3%)	(-45.5%)		
Residential Property Price Index	134.2	134.4	134.5	134.7	135.5
	(0.0%)	(-0.7%)	(-0.9%)	(-0.9%)	(-0.4%)
Private Rent Index	113.8	114.0	114.2	114.6	114.0
	(-1.2%)	(-1.4%)	(-1.8%)	(-2.6%)	(-3.2%)

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



- Average annual housing demand (2020-2030)
- New Dwelling Completions (last four quarters)

	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

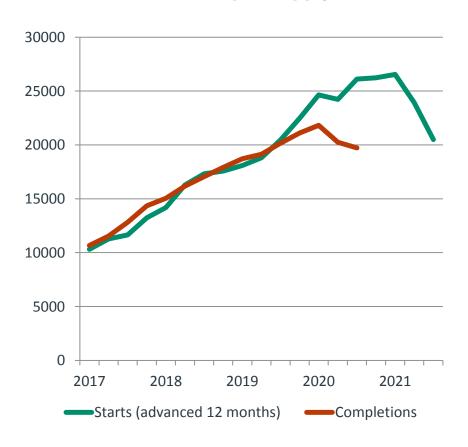
- Greater Dublin Area (Dublin + Mid East) requires the majority of needed dwellings.
- On average, 9,200 housing units are demanded a year in the regions that are not currently funded by markets.

#### Covid-19 has impacted supply for 2020 and 2021

#### Housing Completions\* above 25,000 in 2019

#### 30000 25000 20000 15000 10000 5000 2015 2016 2017 2018 2019 2020\*\* New dwelling completion — Unfinished Reconnection Non-Domestic All connections

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



Source: DoHPCLG, CSO, NTMA Calculations

Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta

**National Treasury Management Agency** 

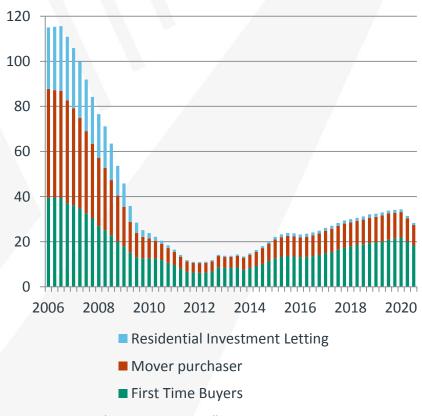


\* Housing completions derived from electrical grid connection data for a property. Reconnections of old houses or connections from "ghost estates" overstate the annual run rate of new building.

<sup>\*\*2020</sup> completions forecasted down 20% on 2019

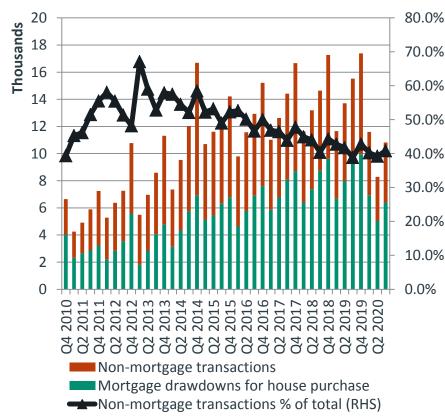
# Demand will fall off given lower migration and rising unemployment – demand may drop below 30,000 in ST

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



Source: BPFI (4 quarter sum used)

### Non-mortgage transactions still important; transaction volume hit in Q2/Q3

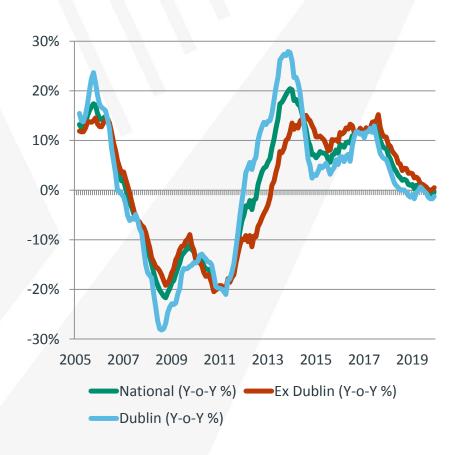


Source: BPFI; Residential Property Price Register

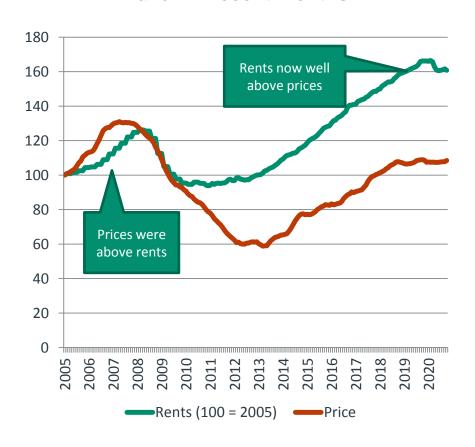


# Covid-19 impact on prices unclear as both supply and demand impacted, but rents should come off highs

#### **Dublin house prices unmoved in 2020**

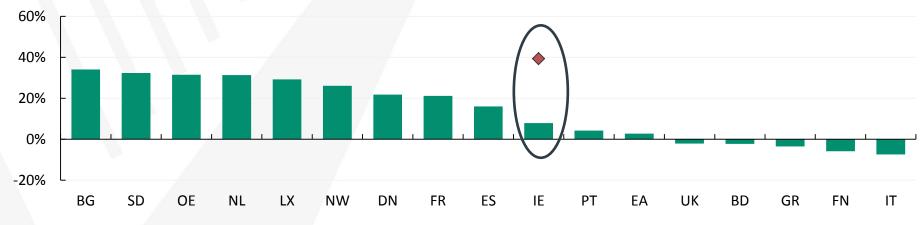


### Rents are well above previous peak but have fallen in recent months

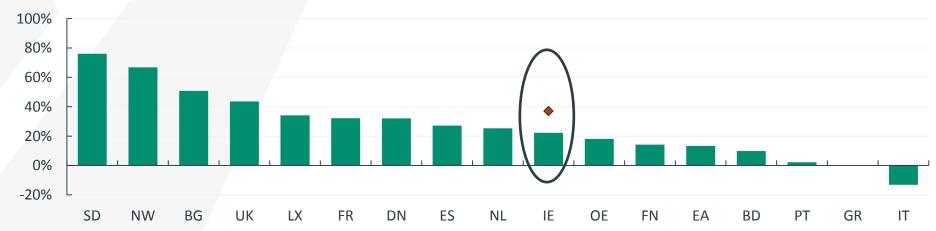


## Irish house price valuation metrics remained well below 2008 levels throughout last cycle





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





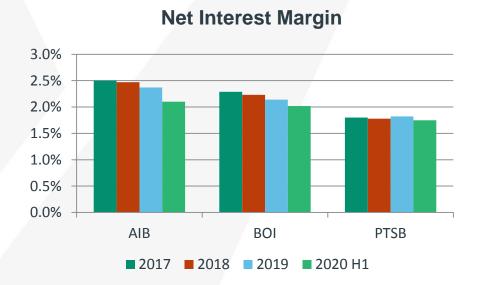
Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta National Treasury Management Agency

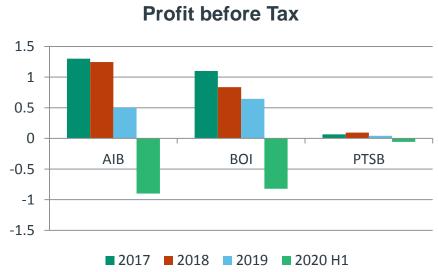


## Ireland's pillar banks in relative good shape to weather Covid-19 storm

- 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.

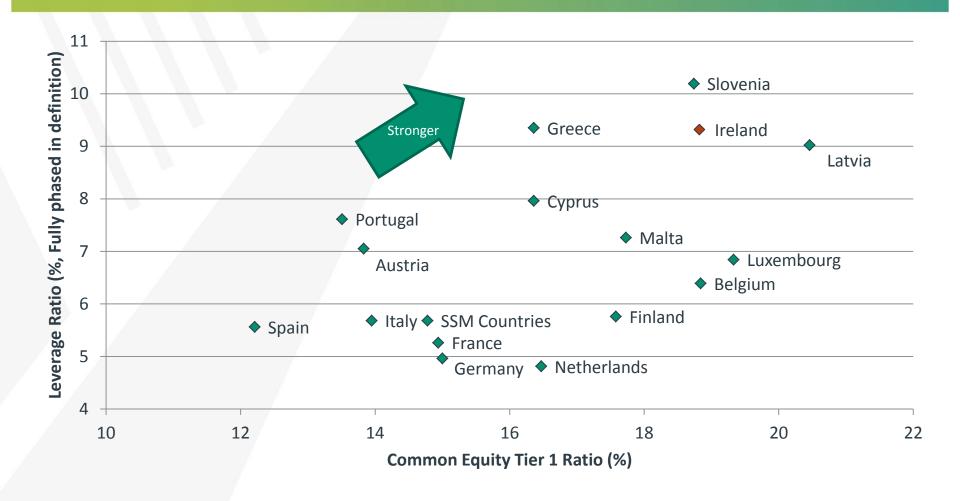
#### All three pillar banks were profitable in recent years, Covid impact in H1







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

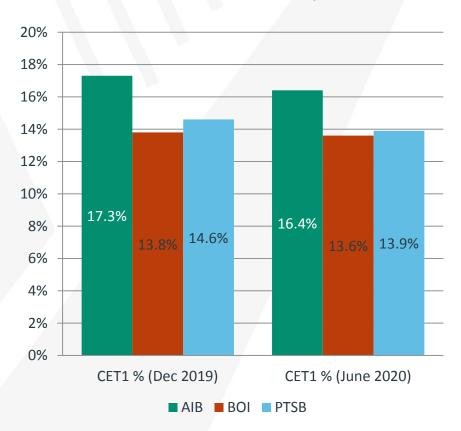




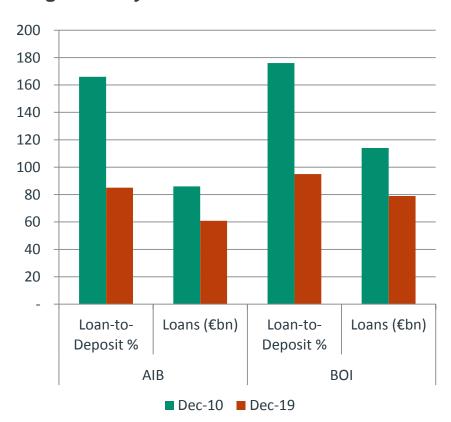
Source: ECB consolidated banking data (Q4 2019)

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

CET 1 capital ratios allow for amble forbearance in Q2



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



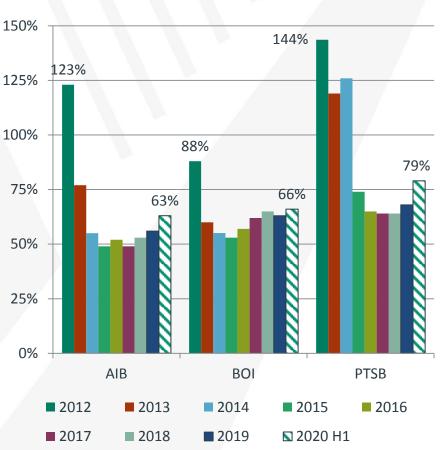
Source: Published bank accounts

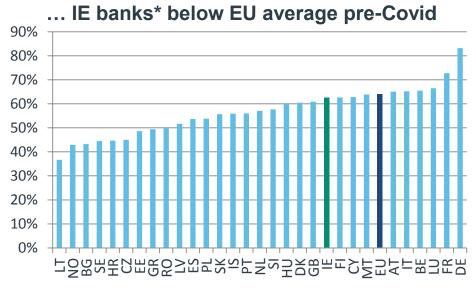
Source: Published bank accounts



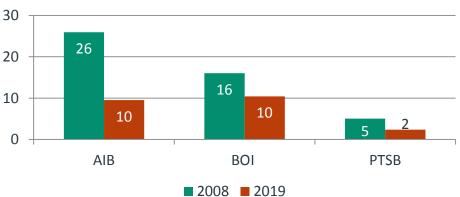
#### Domestic bank cost base has risen due to Covid

#### Cost income ratios increased ...



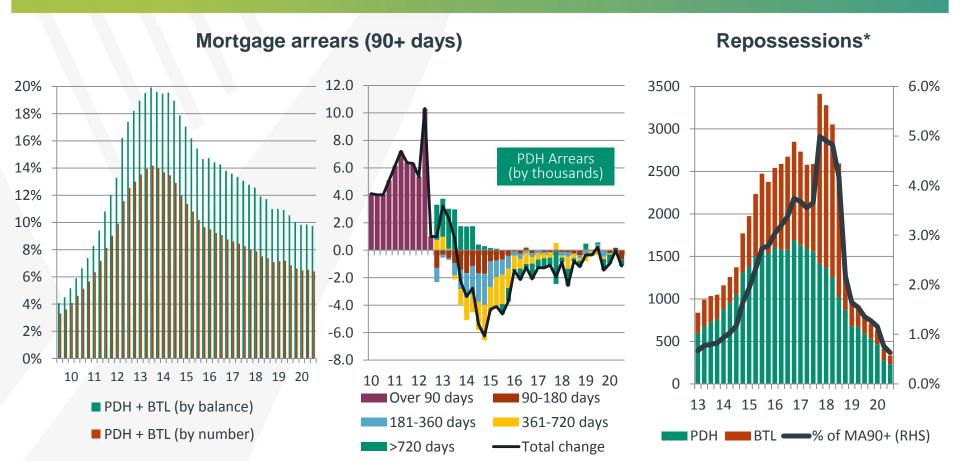


#### Staffing (000s) halved post crisis





## Irish residential mortgage arrears may reverse course in 2020



Source: CBI



<sup>\*</sup> 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 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.

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