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# Summary

Irish economic resilience recognised in credit rating upgrades

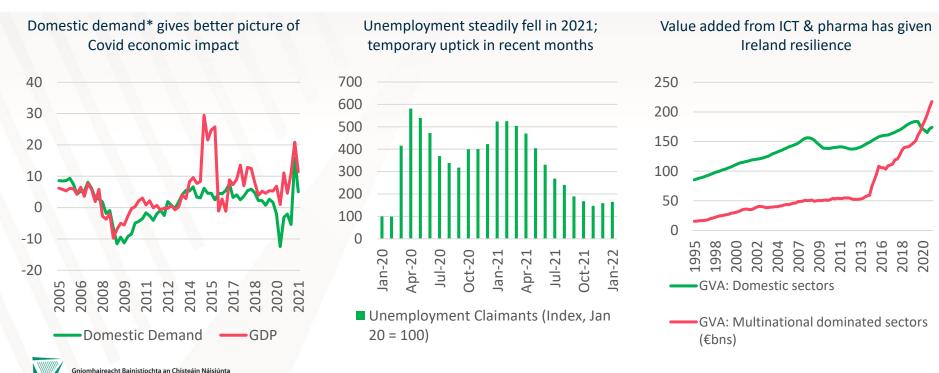






#### **Economic recovery strengthening**

Vaccine rollout including boosters underpinning spending led recovery



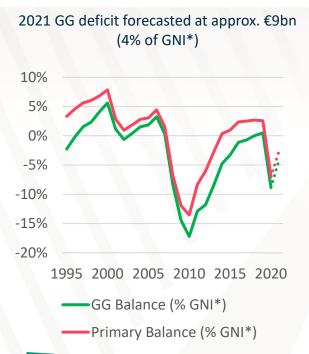
Source: CSO, NTMA Analysis

National Treasury Management Agency

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

### Debt to GNI\* likely rose modestly in 2021

Large fiscal response to Covid but Government aims for primary surplus by 2023



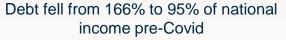
Debt position reversed by Covid response

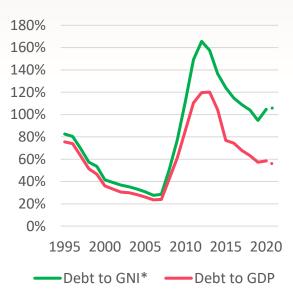
Debt-to-GNI\* (106% 2021f; 95% in 2019)

Debt-to-GG Revenue (254% 2021f; 232% in 2019)

Average interest rate (1.4% 2021f, from 2.2% in 2019)

Debt-to-GDP<sup>^</sup> (55% 2021f, from 57% in 2019)







#### Medium term economic challenges

Covid recovery, deficit reduction and inflation

## Recovery

Most Covid restrictions have now been removed. Vaccine uptake helpful in weathering Omicron surge

National accounts and spending data confirm recovery continued into H2 2021

## **Fiscal**

Significant stimulus of c.23% of GNI\* announced since 2020 but not likely to be all used

Public support to economy expected to be scaled back from 2022

## **Inflation**

High inflation in Ireland in recent data similar to other developed economies

Inflation rates likely to fall back in 2022 but prices more of a consideration for policymakers now than pre-Covid



#### 2022 funding range is €10-14bn

NTMA funded €3.5bn so far this year

## Cash

Improving fiscal position alongside NTMA's strategy of prefunding means Ireland has a strong cash position in 2022

This affords the NTMA a large degree of flexibility

# >10 years

Weighted average maturity of debt one of longest in Europe

NTMA issuance since 2015
has a weighted average
maturity of 15 years
(including bonds and private
placements)

#### AA-

Ireland rated in the AA category with nearly all major rating agencies

Despite Covid impact, Fitch and DBRS upgraded their rating for Ireland to AA space. Moody's at A+ but with positive outlook



# Macro

Rebound in spending and labour market highlights recovery

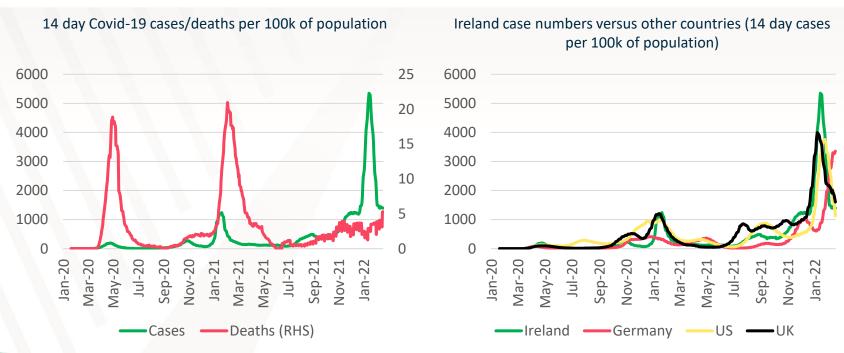






### Omicron-driven case numbers have peaked

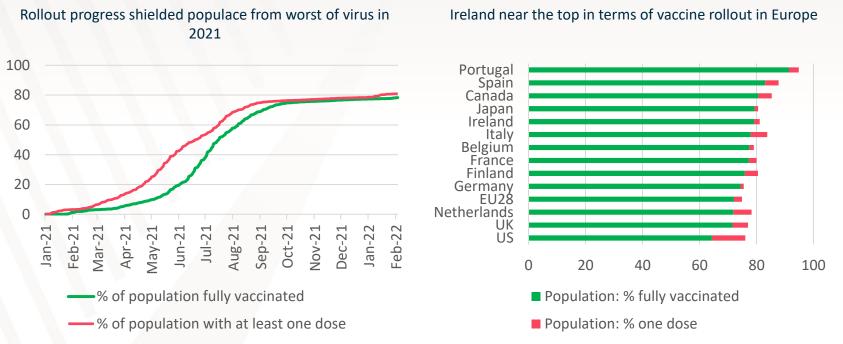
Most restrictions removed in mid-January as severity of wave set to be lower





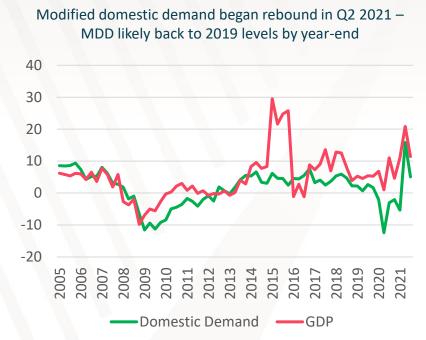
### Vaccine rollout allowed economy to recover

c. 79% of total population fully vaccinated with c. 56% having received a booster



### Ireland performed relatively well in 2021

GDP growth does not tell the appropriate story, domestic demand gives the best guide



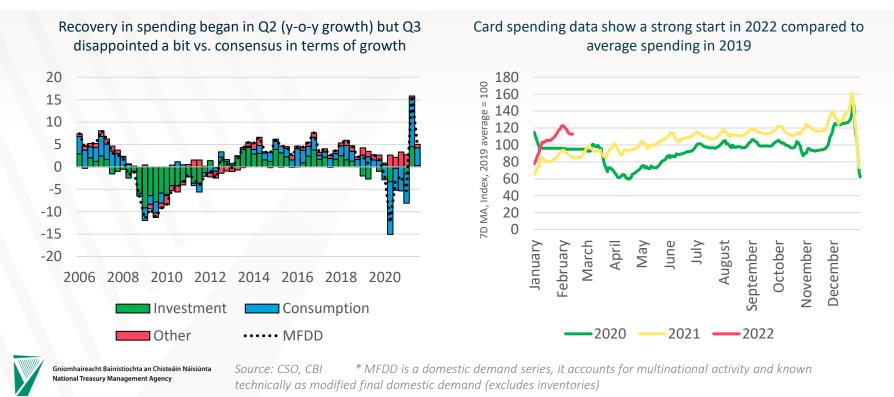
Covid impact (-4.9%) smaller for Ireland than EA and UK – recovery in 2021/22 forecasted to be stronger than others





#### Consumption-led recovery to continue

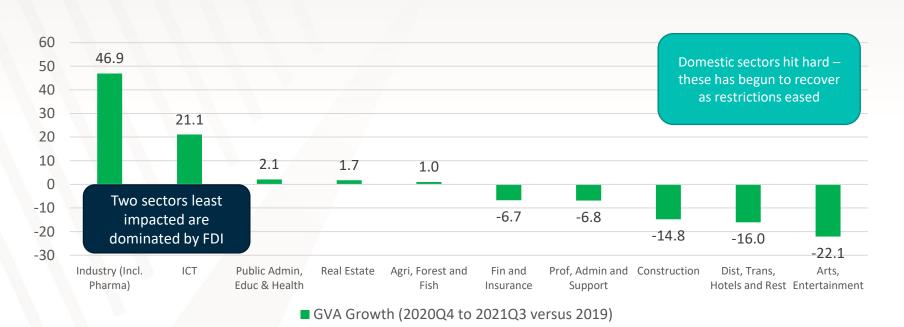
Strong recovery in spending data in 2021; 2022 saw most restrictions on business removed



\*\* CBI spending data is nominal data and not seasonality adjusted

## Sector performance during Covid period

Multinationals outsized performance, domestic side hit hard

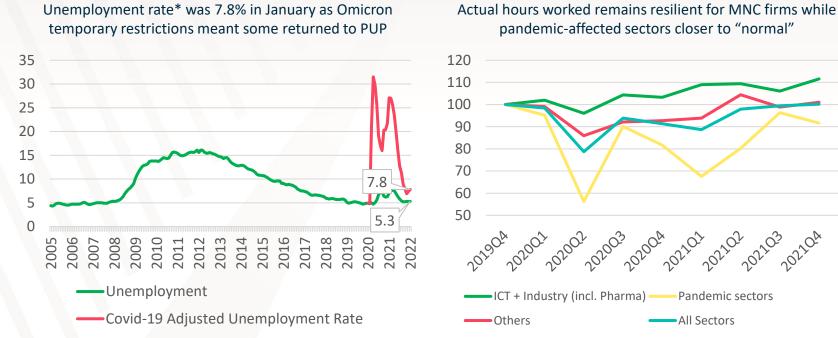




Source: CSO

### Labour market improved in 2021

Unemployment rate slowly decreasing with omicron only a temporary impediment





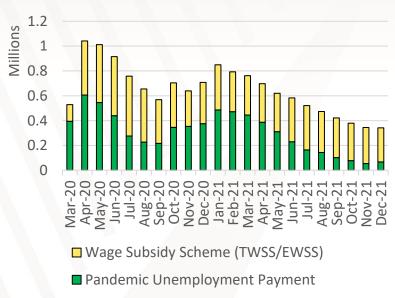
Source: CSO

<sup>\*</sup> The CSO have estimated this as the upper bound of the unemployment rate. There should be caution around this data given the likelihood of revisions.

### 57% fall in those on income supports

Approx. 340k on income support in December; down from above 800k in Q1 2021

Those on the EWSS estimated at 274k in December while those on the PUP at 66k (PUP c. 75k in January)



Supports helped disposable income grow more akin to US than EU over course of the pandemic

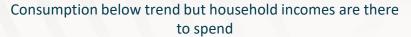


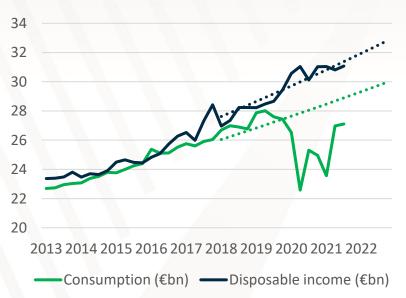
■ Gross Disposable Household Income (YT Q321 vs YT Q319)



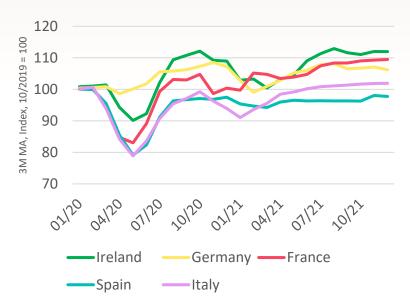
### Disposable income on pre-Covid trend

Consumption not fully recovered, but retail sales show continued improvement





#### Irish retail sales shows resiliency during pandemic compared to other Euro area economies





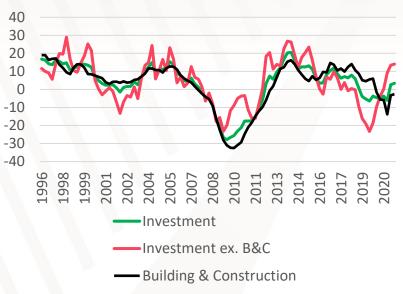
Source: CSO. Eurostat

Note: RHS charts retail sales excluding motor trade

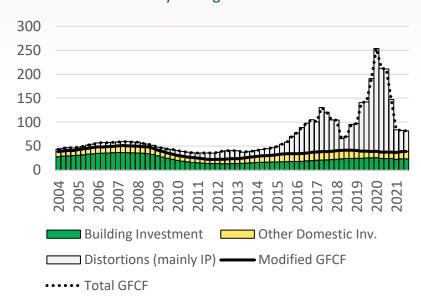
### Investment is rebounding

Modified investment is close to pre-pandemic levels





#### IP distortions less than in previous quarters – surge in 2020 likely tax regime related

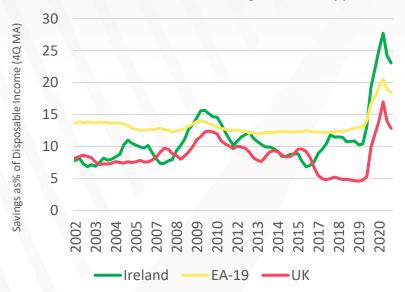




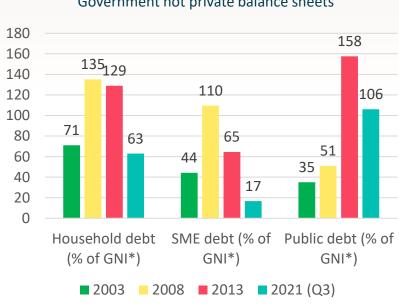
### Household balance sheets improving

Debt levels much lower coming into pandemic + new Covid savings

Gross HH saving rates have jumped in Ireland more than in most countries due to forced savings/income supports





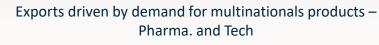


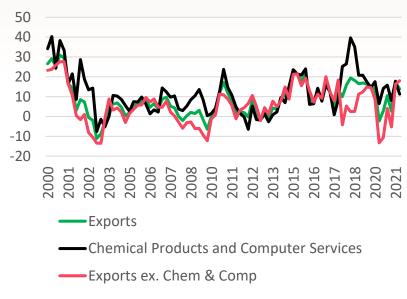


### External environment beginning to turn

Central banks set to remove extraordinary stimulus in 2022

	2021	2022	
EA Monetary Policy	Max accommodative	Tapering beginning Rate increase?	
EU Fiscal Policy	Expansionary	Expansionary	
US Monetary Policy	Max accommodative*	Tapering and rate increases expected	
US growth	Rebound	Continued growth	
Oil price	Rising	Remains Elevated	
UK growth	Rebound	Continued growth	
Euro Growth	Rebound	Continued growth	
EA Inflation	Rising	Strong pressure in H1	





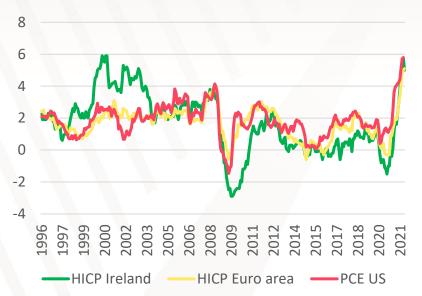


Source: NTMA analysis, CSO

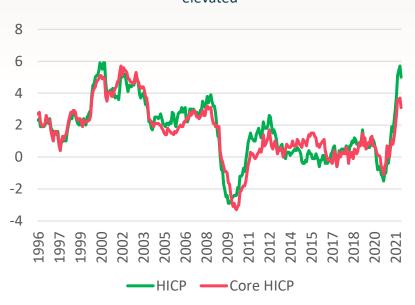
#### Inflation at 5.0% in Ireland

There are transitory and pandemic elements but core inflation also elevated

Inflation has jumped after subdued decade, but January shows first deceleration in six months



Energy prices driving a proportion but core inflation also elevated

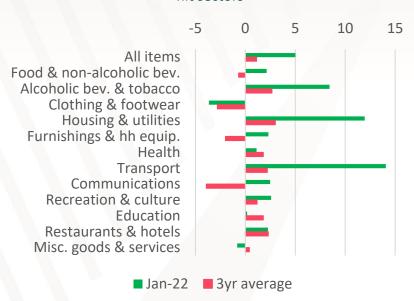




### Elements of re-opening and energy evident

Detailed inflation data suggest inflation is unlikely to remain elevated (above 4%)

Biggest pick-up in inflation concentrated in energy and Covidhit sectors



"Transitory" areas seeing double-digit inflation, but there may be continued pressure on rents

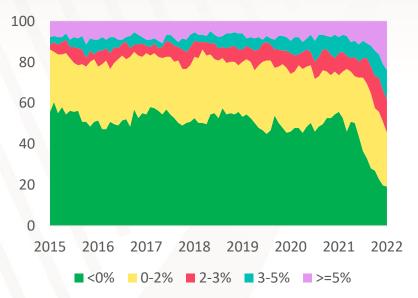
Selected sub-indices inflation readings, Jan 2022 (y-o-y %)		
Liquid fuels (home heating oil)	50.1	
Diesel	32.0	
Petrol	29.5	
Passenger transport by air	26.7	
Passenger transport by sea and inland waterway	16.3	
Accommodation services	12.8	
Purchase of vehicles	10.7	
Alcoholic beverages - off licences	8.7	
Private rents	8.4	



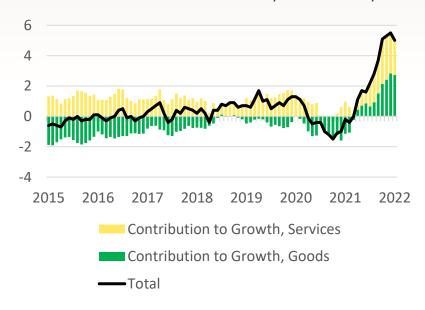
### Inflationary pressure is becoming broader

Seeing inflationary pressure across many categories in CPI index

Only c. 20% products in CPI basket are seeing no price inflation down from c. 50% pre pandemic



Goods inflation impacted by energy prices – should taper off in 2022 but services inflation may be more sticky

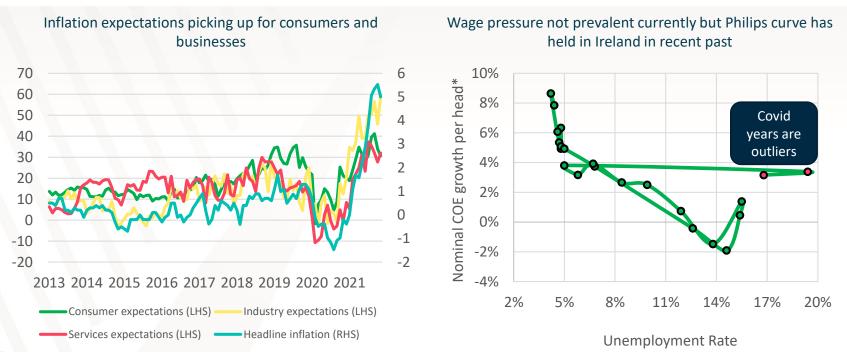




Source: CSO, NTMA Analysis

### Sustained inflation a possible risk

Phillips curve historically has held in Ireland





#### OECD's BEPS process may impact FDI offering

Ireland signs up to agreement after initial reservations

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

- Over 130 countries have signed on for the BEPS 2.0 twopillar set of reforms.
- ▶ The first pillar focuses on proposals that would re-allocate some taxing rights between jurisdictions where companies reside and the markets where user/consumers are based.
- Under such a proposal, a proportion of profits would be reallocated from small countries to large countries.
- Pillar 1 will reduce Ireland's corporation tax base. Some estimates place the hit at up to €2bn per annum by the middle of the decade.
- Ireland has always been fully supportive of Pillar One despite the implied cost to the Exchequer.

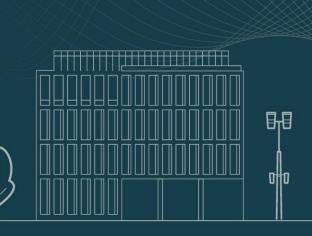
Pillar Two: 15% minimum effective global tax rate

- ▶ Countries will introduce a minimum effective tax rate with the aim of reducing incentives to shift profits.
- Where income is not taxed to the minimum level, there will be a 'top-up' to achieve the minimum rate of tax.
- ▶ Ireland had reservations on the minimum tax rate proposal but signed up after further clarity was given.
- ▶ The minimum rate is greater than the 12.5% rate that Ireland levies and thus some of Ireland's comparative advantage in attracting FDI will be lost.
- Ireland can lean on other positives; educated and young workforce, English speaking, EU access, and ease of doing business
- ▶ At 15% corporate tax rate, Ireland's rate remains one of the lowest in the EU.



# **Fiscal**

Revenues rebounded in 2021 helping narrow deficit







#### Fiscal response to Covid has worked

Deficit to be lower than expected in 2021 but large in historical context

## Response

Total fiscal response of €48bn since 2020 (c. 23% of GNI\*) is large but may not be fully used

Ireland responded to Covid with large counter-cyclical fiscal policy not seen before in its 100 year history

## Revenues

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

Strength of both Corporate and Income tax revenues from multinational sectors has helped grow government finances

### Debt

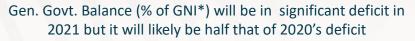
Debt ratios have reversed due to Covid with modest increased expected in 2021 for debt to GNI\*

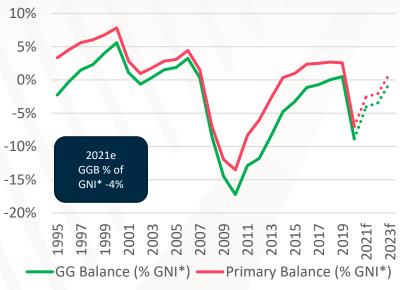
Ratios forecasted at 106% for end-2021 after 105% in 2020



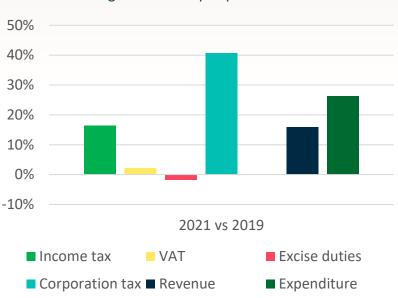
### Deficit in 2021 smaller than expected

Ireland plans for primary surplus in 2023 and GG balance in 2025





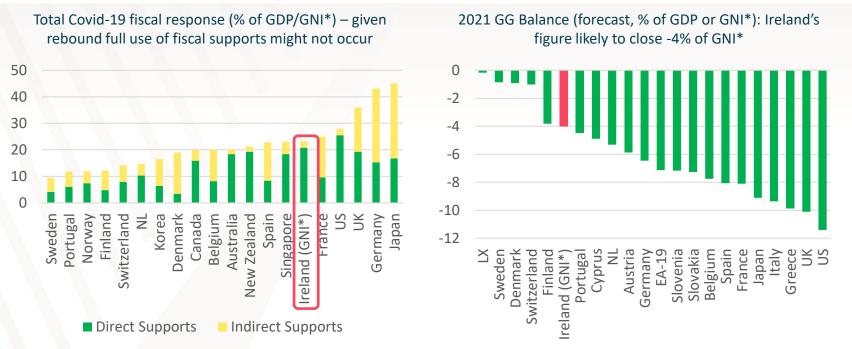
#### Revenues strong in 2021; income tax and corporate tax are strong even versus pre-pandemic levels





#### Ireland's Covid fiscal aid c. 23% of GNI\*

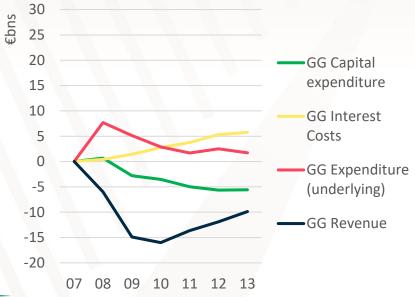
Highly skewed to direct supports unlike others in EU



### Fiscal response to Covid is opposite of GFC

Interest bill won't balloon and investment set to increase

After global financial crisis, Ireland cut capital spending, paid more interest as taxes fell...



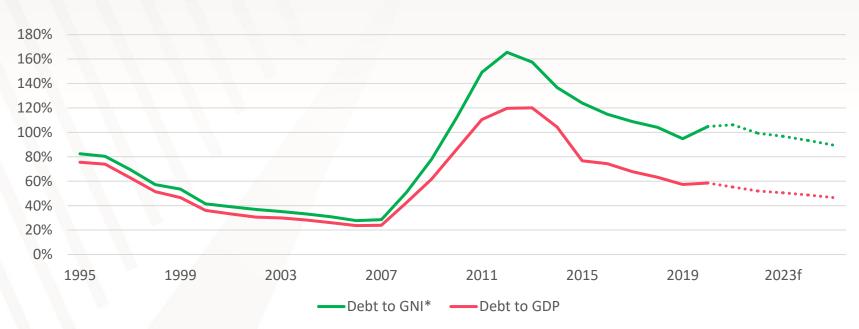
...now revenues are more resilient, spending (incl. inv.) increases, interest bill unchanged





### **GG** debt to GNI\* increasing on Covid response

Debt close to 106% of GNI\* in 2021but jump much smaller than GFC impact

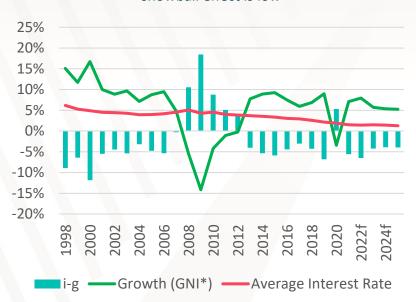




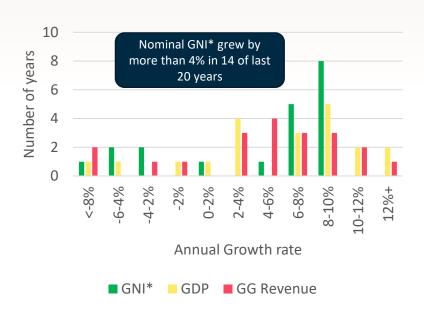
#### The "i-g" snowball effect in Ireland's favour

Low interest rates coupled with reversion to growth underpins debt dynamics

With low rates locked in, Ireland's "hurdle rate" for a positive snowball effect is low



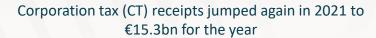
Histogram of Ireland's recent growth history (2001-2020)

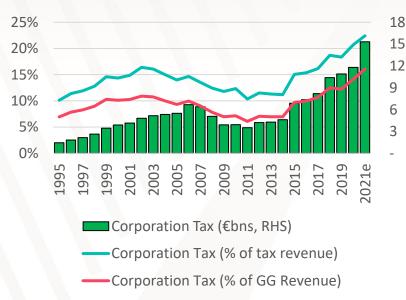




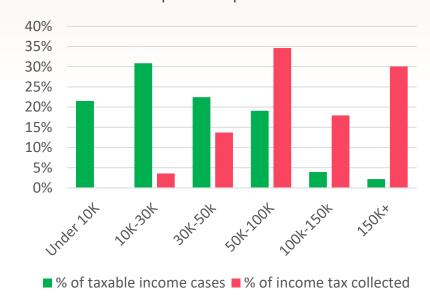
### Revenues increasing strongly despite Covid

CT revenue growing due to multinationals; income tax base helped by progressive system





Progressiveness of income tax system and sector mix limited hit to overall receipts and helped with revenue rebound





#### **Alternative Debt Metrics**

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

2021f	GG debt to GG revenue %	GG interest to GG rev %	GG debt to GDP %
Greece	423%	5.4%	203%
Italy	330%	7.3%	154%
Portugal	288%	5.8%	128%
Spain	282%	5.2%	121%
UK	279%	5.7%	103%
Cyprus	260%	4.8%	104%
<u>Ireland</u>	<u>254%</u>	<u>3.5%</u>	56% (106% GNI*)
Belgium	230%	3.5%	113%
France	221%	2.2%	115%
EA19	217%	3.0%	100%
Slovenia	178%	3.2%	78%
EU28	176%	3.3%	78%
Austria	169%	2.3%	83%
Germany	156%	1.2%	71%
Slovakia	153%	2.9%	62%
Netherlands	134%	1.1%	58%



# **NTMA Funding**

Flexibility in funding strategy due to cash balances, smooth maturity profile and long average life





#### 2022 funding range is €10-14bn

NTMA funded €3.5bn so far this year

## Cash

Improving fiscal position alongside NTMA's strategy of prefunding means Ireland has a strong cash position in 2022

This affords the NTMA a large degree of flexibility

# >10 years

Weighted average maturity of debt one of longest in Europe

NTMA issuance since 2015
has a weighted average
maturity of 15 years
(including bonds and private
placements)

#### AA-

Ireland rated in the AA category with all but one of major rating agencies

Despite Covid impact Fitch and DBRS have upgraded its rating for Ireland to AA space. Moody's at A+ but with positive outlook



#### High level of flexibility in NTMA issuance plans

Helped by smoother maturity profile

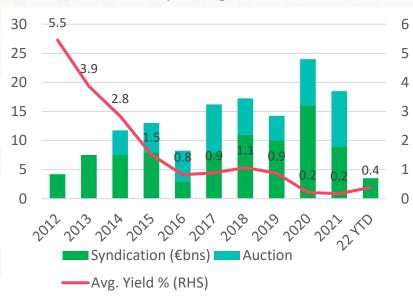




### Lower supply expected in coming years

Lower borrowing costs also provides NTMA with flexibility

NTMA issued €46bn MLT debt since 2020 at 12.6 yr. weighted maturity and avg. rate 0.21%



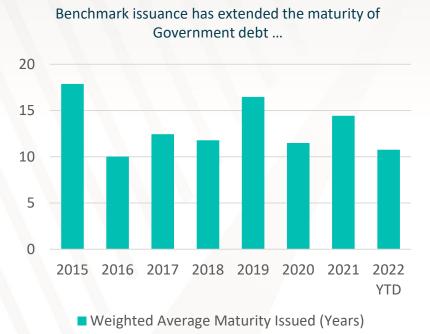
Current borrowing requirements suggest NTMA issuance won't match recent past in coming years (€bns)

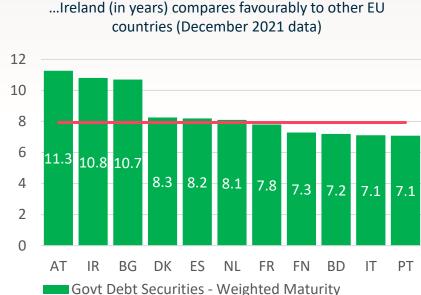




### NTMA has lengthened weighted maturity

Debt management strategy took advantage of QE to extend debt profile since 2015





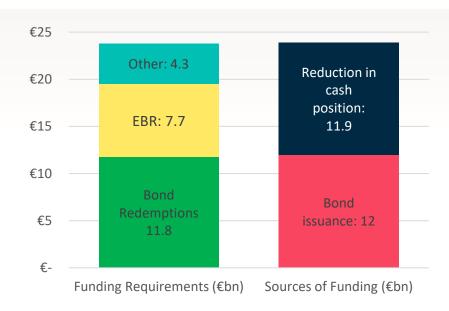
EA Govt Debt Securities - Avg. Weighted Maturity



### **Funding needs and sources**

Borrowing requirement lower in 2021 means extra cash into 2022

- There are two bond redemptions in 2022. They total €11.8bn.
- The Exchequer Borrowing Requirement (EBR) for 2021 was €7.4bn. This was lower than expected in October's Budget (forecasted EBR of €12.1bn). Thus, the NTMA entered 2022 with a large cash balance of €27.5bn.
- In addition to the announced funding range, the NTMA plans to reduce its cash position to meet funding needs this year.



Source: NTMA

#### Notes:

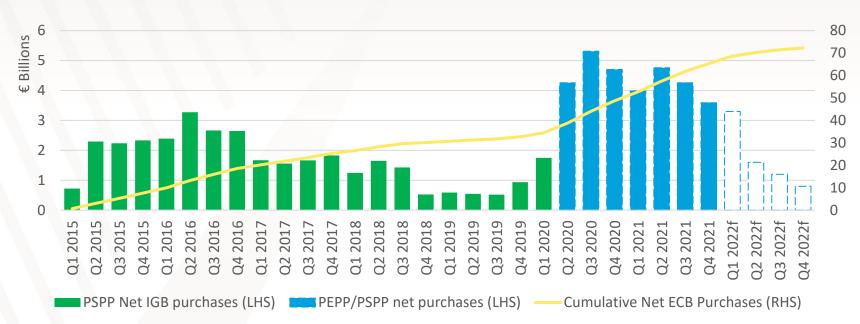
Rounding may affect totals

- 1. The NTMA bond funding range for 2022 is €10-€14bn. A midpoint of €12bn is used in the chart above.
- C. Other funding needs includes provision for the potential bond/FRN purchases and general contingencies.
- . EBR is the Department of Finance's Budget 2022 (Oct 2021) estimate of the Exchequer Borrowing Requirement



### ECB's purchases have offered strong support

PEPP to end in 2022 but support from ECB will continue in form of APP/re-investments





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 c. 60%; will increase further with Eurosystem's PEPP

Ireland roughly split 85/15 on non-resident versus resident "Sticky" sources - official loans, Eurosystem, retail - make up c. 60% of Irish debt holdings (Q3 2021) 250 200 Other Debt (incl. Official) 150 22% 100 Retail, 50 Resident 11% 2007 2008 2009 2010 2011 2013 2013 2015 2015 2016 2017 2018 2017 2018 IGBs - Private IGBs - Private Non Resident IGBs - Private Resident Eurosystem Resident Short term Eurosystem Short term 4% 28% Retail Other Debt (incl. Official) 4% Total Debt (€bns)

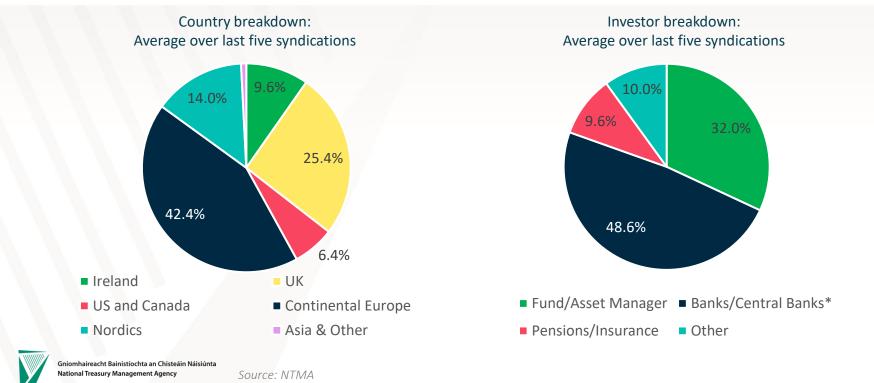


Source: CSO, Eurostat, CBI, ECB, NTMA Analysis

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

### **Investor base**

#### Demand for Government bonds is wide and varied



<sup>\*</sup> Does not include ECB. ECB does not participate on primary market under its various asset purchasing programmes

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### **Credit Ratings for Ireland**

Three upgrades in 2022 so far; Ireland rated in "AA" category by most agencies now

Rating Agency	Long-term	Short-term	Outlook/ Trend	Date of last change	Date of next review
Standard & Poor's	AA-	A-1+	Stable	Nov 2019	May 2022
Fitch Ratings	AA-	F1+	Stable	Jan 2022	H2 2022
Moody's	A2	P-1	Positive	Aug 2021	May 2022
DBRS Morningstar	AA(low)	R-1 (middle)	Stable	Jan 2022	H2 2022
R&I	AA-	a-1	Stable	Feb 2022	2023
KBRA	AA-	K1+	Stable	Jan. 2020	Jun 2022
Scope	AA-	S-1+	Stable	May 2021	Apr 2022



# **ESG** Sustainability

Issuance & government policy demonstrate Ireland's green commitment

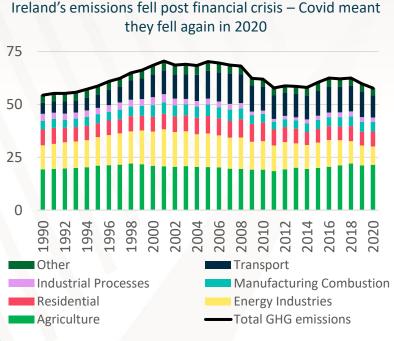




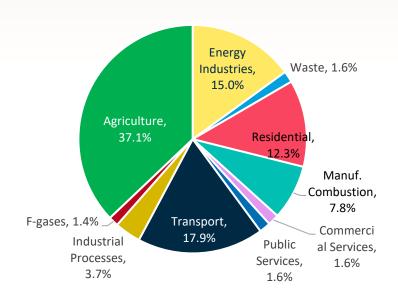


### Ireland's Greenhouse Gas emissions

State of Play – emission fell modestly in Covid year



Emissions from agriculture make up a more significant portion of total In Ireland (c. 10% in EU or US)





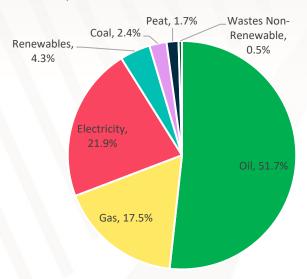
Source: Environment Protection Agency (Ireland)

Note: Metric used is million tonnes carbon dioxide equivalent (Mt CO2eq))

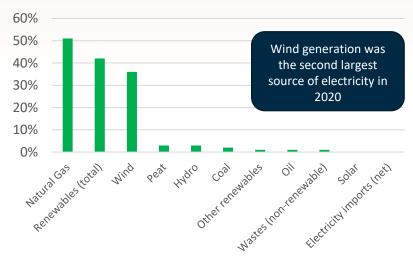
### Irelands Energy Breakdown

Irelands energy mix is reliant on fossil fuels but renewables share to increase by 2030

Oil accounts for the largest share of Irelands energy mix. Transport accounted for 63% of oil use in 2020



Electricity production more renewables based but still far from Climate Action Plan aims of 80% by 2030

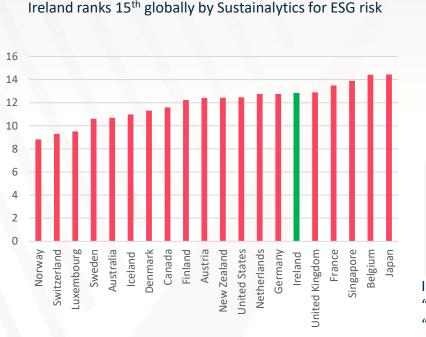


■ Share of electricity generated in 2020 by fuel type

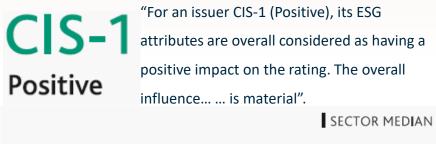


### Ireland in top 20 most sustainable countries

Ireland rated highly by Sustainalytics and rating agencies on ESG



Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta National Treasury Management Agency Moody's view on Ireland much like other agencies – strong governance a key risk mitigant



Ireland's ESG Credit Impact Score:

"low exposure to environmental risk"

"a positive influence of its social considerations"

"very strong governance profile"

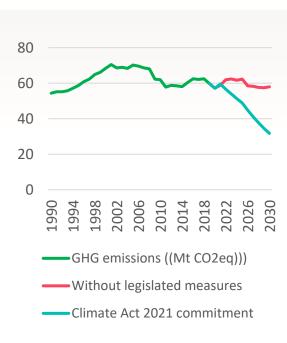


POSITIVE

### **Climate Action Legislation**

The Climate Action & Low Carbon Development Act 2021 supports transition to Net Zero by 2050

- <u>Carbon Budgeting:</u> The Act embeds the process of carbon budgeting into law. It requires
  Government to adopt a series of economy-wide-five-year carbon budgets.
- <u>51% reduction:</u> First carbon budgets will aim for a reduction of 51% of emissions by 2030.
- <u>Sectoral Action Plans:</u> Actions for each sector detailed in the Climate Action Plan, to be updated annually.
- Legally binding targets: Govt. Ministers responsible for achieving targets for their sector.
- <u>Climate Action Strategy:</u> A national plan will be prepared every five years.
- All of Government approach: Local Authorities is required to prepare a Climate Action Plan and public bodies obliged to conduct their functions in line with the national plan.
- <u>Gas Exploration:</u> Government approved draft amendments to end the issuance of new licenses for the exploration and extraction of gas.



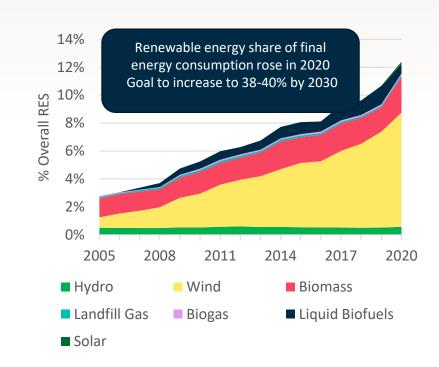


### Plans to significantly increase use of wind

Climate Action plan outlines significant increase to wind generated electricity

#### Climate Action Plan Goals:

- Reduce emissions from electricity by up to 81% from 2018 levels. Target of 5GW of offshore and up to 8GW of onshore wind energy by 2030.
- ▶ Enable 500,000 sustainable travel journeys per day. Increase biofuel use in transport. Increase proportion of kms driven by electric cars to 40-45%. All replacements for bus & rail vehicles to be low or zero carbon emissions and increased rollout of rural public transport.
- 29-41% reduction in emissions through increased uptake of carbon-neutral heating and decreasing embodied carbon in building materials.
- Commitment to retrofit 500,000 homes by 2030 and install 680,000 renewable energy heat sources in new and existing residential buildings.





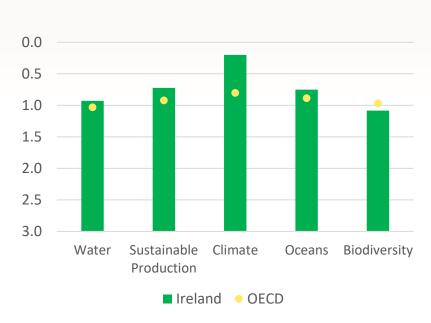
### Close to OECD average on progress

#### But behind some of the leaders in Europe

### Ireland similar to OECD but behind others when considering intensity metrics

	GHG emissions per unit of GDP	OECD Ranking (1st = High Intensity)	CO2 emissions per unit of GDP	OECD Ranking (1st = High Intensity)	% Renewable energy supply	OECD Ranking (1st is desirable)
Ireland	0.2	30	0.09	35	11.1	24
Ire (GNI*)	0.3	11	0.14	24		
OECD	0.3	n/a	0.14	n/a		
Australia	0.5	2	0.32	2	7.1	35
Belgium	0.2	19	0.17	14	7.8	32
Canada	0.5	4	0.34	1	16.4	18
France	0.2	33	0.10	34	10.7	26
Germany	0.2	23	0.16	17	14.6	21
Italy	0.2	28	0.13	27	18.2	16
NL	0.2	25	0.16	17	7.2	34
UK	0.2	32	0.12	30	12.5	23
Spain	0.2	27	0.13	27	14.7	20
US	0.4	6	0.24	6	7.9	31

#### Ireland compares well to the OECD average





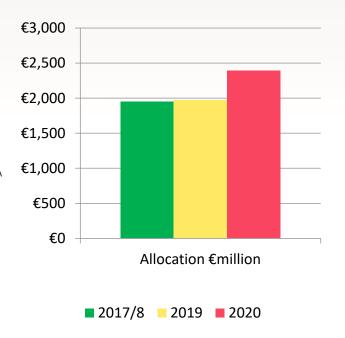
Source: OECD, EPA

RHS shows the average distance the country needs to travel to reach each SDG. 0 indicates that the level for 2030 has already been attained: and 3 is the distance most OECD countries have already travelled. Bars show the average country performance against all targets under the relevant Goal

### Irish Sovereign Green Bonds (ISGB)

Cumulative €6.31bn allocated to green projects following third year

- €6.85bn nominal outstanding (€7.35bn cash equivalent)
- Circa €1.0bn remains to be allocated to eligible expenditure in 2021
- Issuance through both syndicated sales and auctions
- Pipeline for eligible green expenditure remains strong
- Launched 2018 and 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
- Three annual allocation reports and two annual impact reports now published
- ISGB 2020 Allocation Report
- ISGB 2019 Impact Report





### Irish Sovereign Green Bonds (ISGB)

Irish Sovereign Green Bond Impact Report 2019: sample impacts

#### Some highlights from the report\*

#### Built Environment/ Energy Efficiency

- Energy saving (GigaWattHours): 621.06
- Number of homes renovated: 24,777
- EV home charger grants provided: 2,548

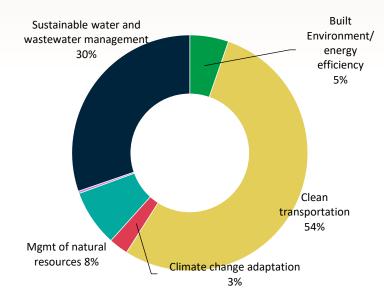
#### Clean Transportation

- Number of public transport passenger journeys: 294.6 million
- Greenway users: 1,196,428\*\*
- Take-up of Grant Schemes/ Tax foregone provided (number of vehicles): 24,122

#### Climate Change Adaptation

- 13 major Flood relief projects at planning, development or construction phase.
- 6,685 properties protected on completion

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



<sup>\*</sup>For a more detailed break-down please see the ISGB 2019 Impact Report



<sup>\*\*</sup> Raw count from 3 longest Greenways- Waterford, Old Rail Trail, Royal Canal Greenway

### Irish Sovereign Green Bonds (ISGB)

Irish Sovereign Green Bond Impact Report 2019: sample impacts cont.

#### Some highlights from Report\*

 Environmentally Sustainable Management of Living Natural Resources and Land Use

Number of hectares of forest planted: 3,550

Number of Landfill Remediation projects being funded: 76



Number of companies (including public sector organisations) benefitting from SEAI Research & Innovation programmes as lead, partner or active collaborators: 36

SEAI Research & Innovation awards: 46

Sustainable water and wastewater management

Water savings (litres of water per day): 160 million

New and upgraded water and wastewater treatment plants: 14

Length of water main laid (total): 393km



















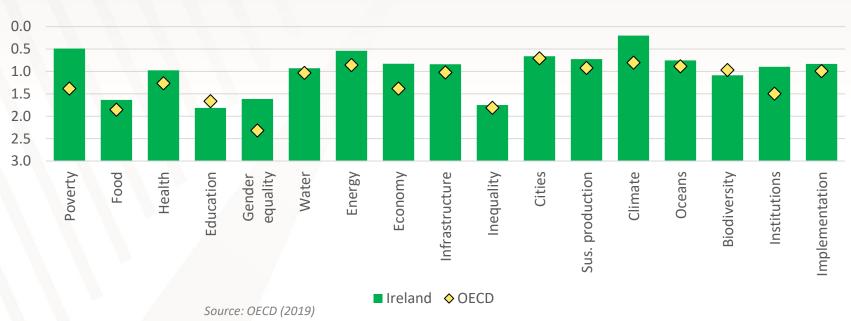




Irish peatlands; Clara Boardwalk

### Ireland compares well to OECD on "S&G"

Based on the 17 Sustainability and Development Goals of the UN





Each bar shows "distance" country needs to travel to reach each SDG. Distances are measured in standardised units with 0 indicating that the level for 2030 has already been attained: and 3 is the distance most OECD countries have already travelled. Bars show the average country performance against all targets under the relevant Goal for which data are available, and diamonds show the OECD average.

### **NTMA** best practice

#### NTMA aiming to be a domestic leader in ESG

#### **NTMA-wide**

- Objective of making the NTMA the most sustainable public service workplace in Ireland - Strategy goal of becoming an environmentally sustainable and net zero emissions organisation by 2030.
- Our office building has achieved an A3 BER rating and LEED Platinum certification.
- Working on collating agency wide data as we seek to baseline our current emissions ahead of delivering Net Zero commitment.
- Established a NTMA Sustainability Group which supports the delivery of climate initiatives across the NTMAs mandates and drives the NTMA's Climate Action Strategy.

#### **ISIF**

- Goal to reduce carbon intensity of the global portfolio by 50% by 2025.
- In the Irish portfolio the strategy is two-fold;
  - help Ireland meet its emissions targets by 2030 by investing in sustainable infrastructure.
  - achieve Net Zero by 2050 or earlier by investing in new technologies and business models that will underpin this transition.

#### <u>NDFA</u>

 Advising State Authorities on a number of climate related capital projects.

#### **New Era**

 Continues to progress a Climate Framework for the commercial semi-states.



# Structure of the Irish Economy

Multinationals distort the "true" economic picture but added resilience during Covid period





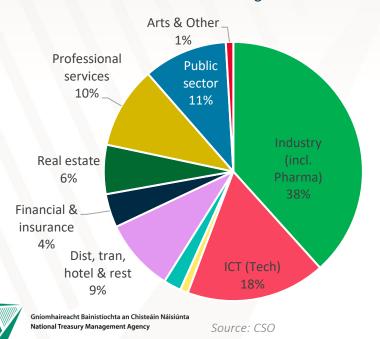


### Multinational activity distorts Ireland's data

Notwithstanding those issues, MNCs have real positive impact

2020 Nominal GVA used

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

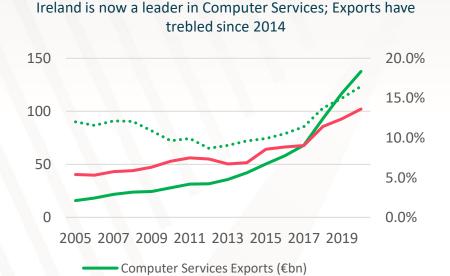


Domestic side of economy adds jobs; MNCs add GVA/high wages

	Share of Employment (2020)	Share of Wage Bill (2019)	Share of GVA (2020)	Gross Weekly Earnings € (Q4 2019)
Agriculture	4.5%	1%	1%	N/A
Industry (incl. Pharma.)	12.2%	15%	38%	916
Construction	6.2%	4%	2%	821
Dist., Tran, Hotel & Rest	25.4%	17%	9%	571
ICT (Tech)	5.4%	9%	17%	1,241
Financial	4.5%	8%	4%	1,235
Real Estate	0.4%	1%	6%	730
Professional	10.8%	13%	10%	810
Public Sector	25.6%	30%	11%	836
Arts & Other	5%	2%	1%	514

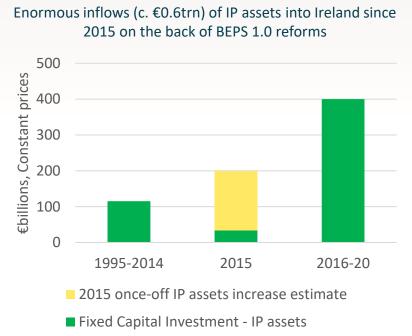
### €0.6trn of intellectual property into Ireland

Assets brought here by tech. & pharma. in recent years



••••• % of World Computer Services Exports (RHS)

Chemical Products (€bn)

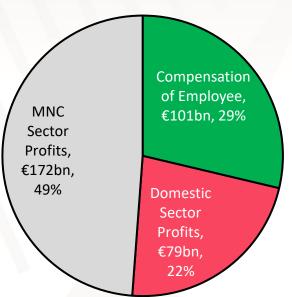




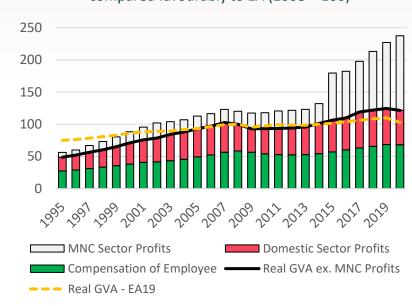
### Underlying economy was robust pre-Covid

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 (2008 = 100)



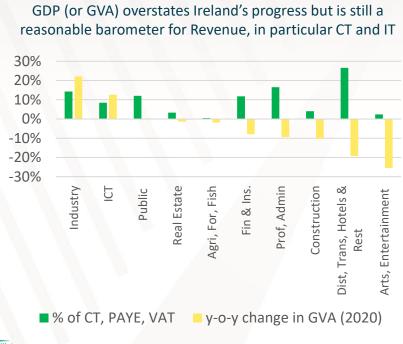


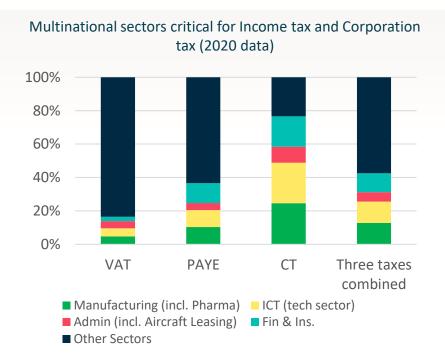
Source: CSO, NTMA calculations (Nominal 2020 data used in left chart)

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.

### High value MNC activity adds to tax base

Ireland revenue less impacted by Covid

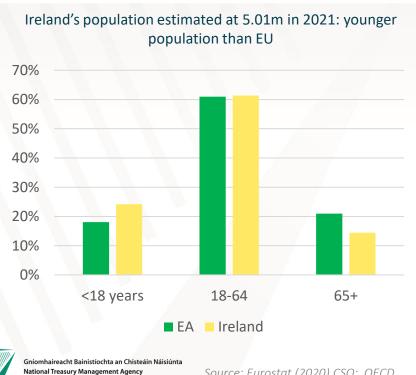




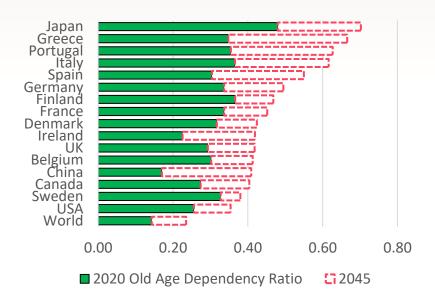


### Ireland's population helps growth potential

Age profile younger than the EU average



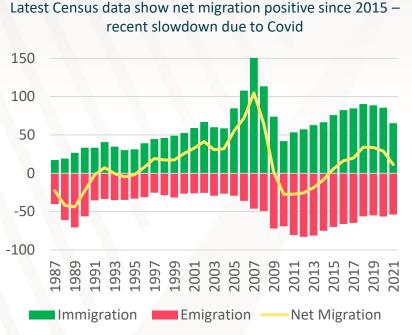
Ireland's population will remain younger than most of its EA counterparts

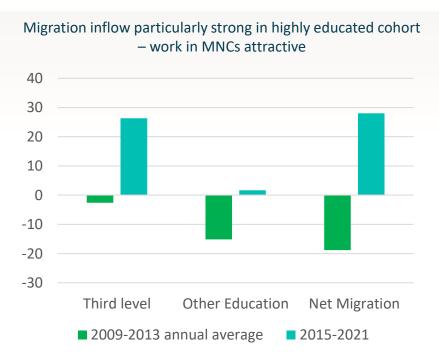




### Migration improves Ireland's human capital

Ireland's net migration has swung back and forth on economic performance

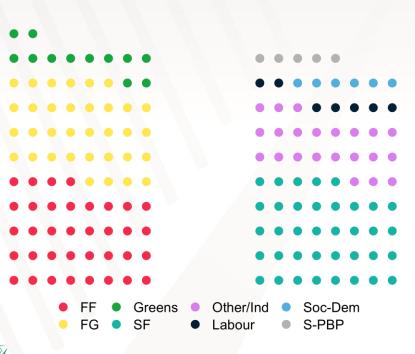






### Ireland's Government

The composition of the Dáil Éireann is evenly balanced between Government and Opposition



Key information on the 33rd Dáil Éireann

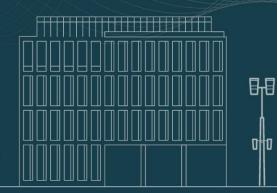
- Leadership
  - Taoiseach: Micheál Martin (FF)
  - Tánaiste: Leo Varadkar (FG) (Martin and Varadkar swap roles in Dec 2022)
  - Leader of the Opposition: Mary Lou McDonald (SF)
- Political groups
  - Government (82 seats)
    - Fianna Fáil (36), Fine Gael (34), Green Party (12)
  - Opposition (77 seats)
    - Sinn Féin (37), Other/Independent (22), Labour Party (7), Social Democrats (6), S-PBP (5)
- Voting system: Proportional representation Single transferable vote
- Last election: 8 February 2020
- Next election: No later than 20 February 2025



Source: Houses of the Oireachtas

# **Brexit**

Free trade agreement has re-routed trade patterns







### Free Trade Agreement in place

Allows for tariff free trade but non-tariff barriers have increased

#### Main points of FTA

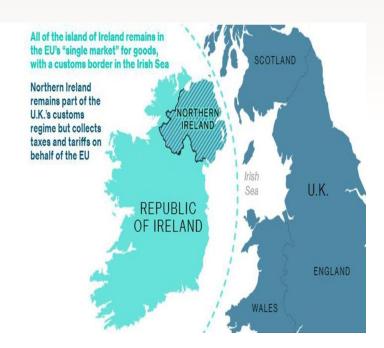
- From January 1 2021, the UK became a "third country" outside the EU's single market and customs union. As such without a free trade agreement, trade would have been subject to tariffs and quotas.
- Under the deal, goods trade between the two blocs remain free of tariffs.
  - However, goods moving between the UK and the EU will be subject to customs and other controls, and extra paperwork is expected to cause disruptions.
  - Due to these non-tariff barriers, Brexit will likely result in less trade.
- Under the deal, services trade between the two blocs will continue but again could be hampered.
  - The Agreement provides for a significant level of openness for trade in services and investment.
  - But providing services could be hampered. For example, UK service suppliers no longer have a "passporting" right, something crucial for financial services. They may need to establish themselves in the EU to continue operating.
- The deal means less cooperation in certain areas compared to before Brexit. Financial and business services are only included to a small extent. Cooperation on foreign policy, security and defence will be lower also.
- Brexit is likely to result in less trade in the long run between the EU and the UK but the deal does avoid the worst case scenarios: Hard Brexit has been averted and the economic impact to Ireland will be more modest.



### Withdrawal Agreement signed in 2019

Northern Ireland protocol within Withdrawal Agreement resolves many but not all of the land border issues

- 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 is "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.

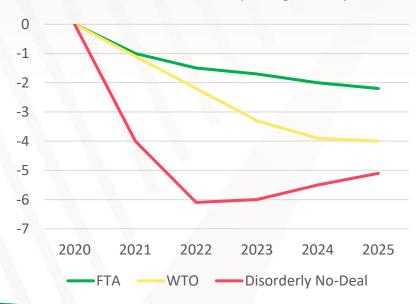




### Impact of Brexit on Ireland likely net negative

Deal means the shock is smaller & spread over longer horizon

Modelled impact on output (in % of growth) versus No Brexit baseline: FTA reduces impact significantly



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

% of total		ods 19)	Serv (20	vices 19)	To (20	tal 19)
	Exp.	Imp.	Exp.	Imp.	Exp.	Imp.
US	30.8	15.5	15.8	18.6	21.9	17.9
<u>UK (ex</u> <u>NI)</u>	<u>8.9</u>	<u>20.6</u>	<u>15.8</u>	<u>6.9</u>	<u>13.5</u>	<u>10.6</u>
NI	1.4	1.9	n/a	n/a	n/a	n/a
EU-27	37.1	36.7	29.8	19.8	32.8	23.8
China	5.9	5.8	2.8	1.3	4.0	2.3
Other	15.9	19.4	35.9	53.4	27.8	45.5

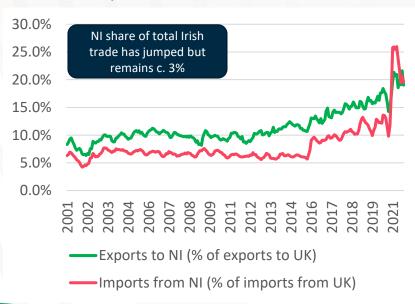


Source: CBI, NTMA analysis

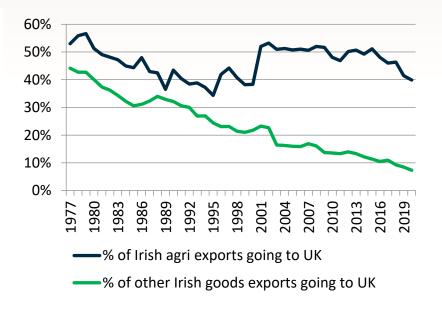
### Trading flows are changing after FTA

ROI-NI trade jumped in 2021, both imports and exports

NI trading route more important than ever for IE-UK trade – special trade status of NI a factor



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





Source: CSO

### Possible benefit: FDI inflows into Ireland

The UK (City of London) has lost significant degree of access to EU market

FDI: Ireland benefitting already

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

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







J.P.Morgan















# **Property**

Price gains in 2021 brought about by a lack of supply and unchanged demand

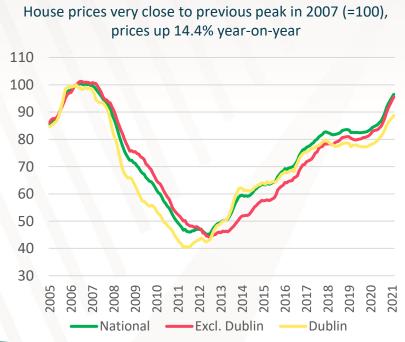


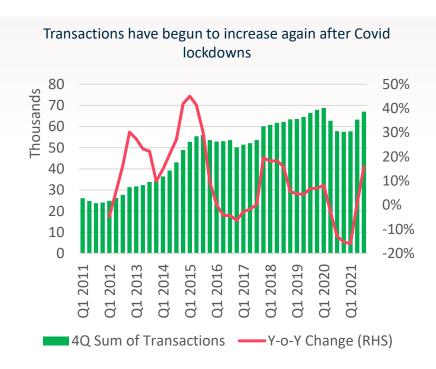




### With supply hampered, prices have risen

House prices plateaued before the virus hit but since have increased rapidly



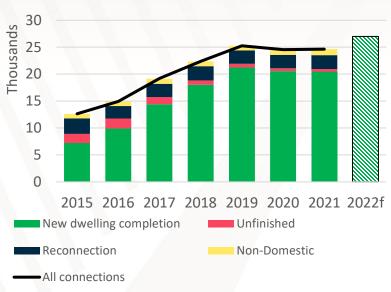




### Covid-19 impacted supply for 2020 and 2021

2022 may see rebound in supply

Housing Completions\* close to 25,000 in 2021 with rebound expected in 2022



Covid hampering supply for 2020-21 but recent housing starts show supply is responding





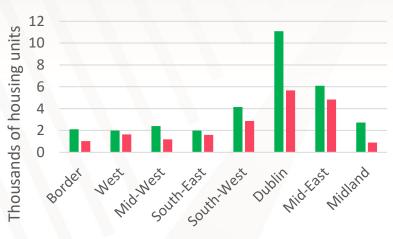
Source: DoHPCLG, CSO, NTMA Calculations

<sup>\*</sup> 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>\*\* 2022</sup> CBI Forecast

### Underlying supply demand mismatch

Housing supply still well below demand – est. need at least 33K units a year



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.



Source: CSO; NTMA analysis

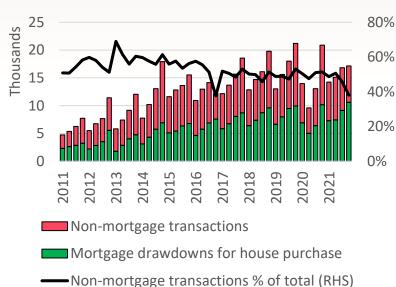
### Mortgage drawdowns affected by Covid

Restrictions impacted drawdowns but have begun to increase since initial trough

Mortgage drawdowns\* (000s) rose in recent quarters after Covid-19 impact



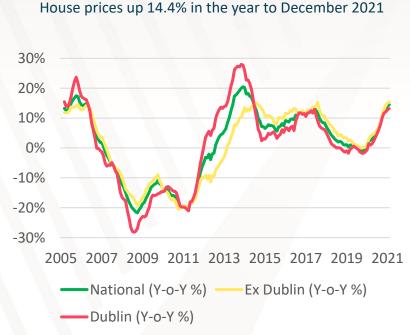


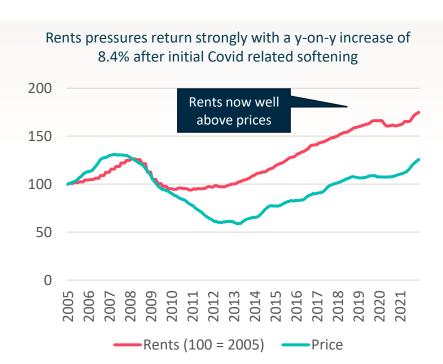




### Covid-19 impact on prices coming through

Inflation driven by strong demand with rents pressure back





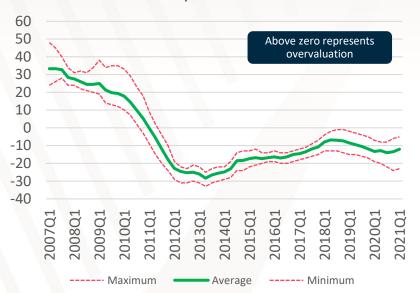


Source: CSO

### Price valuation metrics somewhat unclear

But the market is not comparable to mid 2000s

ECB estimates\* indicate that residential prices in Ireland are currently undervalued...



...but by OECD measures they are above long run average





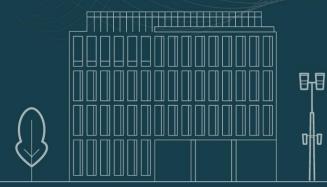
Source: ECB, OECD

<sup>\*</sup>Estimates based on methods relating to housing demand forces and asset pricing framework

<sup>\*\*</sup>Note: Measured as % over or under valuation relative to long term averages since 1980.

## Banks & other

Ireland's banks well capitalised as Government reduces BOI stake





### Ireland's Banking Sector Overview

Less competition possible in decade to come

- Banks profitable before Covid-19: income, cost and balance sheet metrics much improved.
- Covid impact on asset quality has been muted so far will need to see how market sits after fiscal policy fades
- Ulster Bank and KBC both of which have no govt. ownership have decided to leave Irish banking market. Reduced competition is main impact.
- The Irish government has begun to sell its share in BOI. The Govt. owns c. 6% after some selling in last 6 months. The pace of shares sold will depend on market conditions. This will leave just AIB and PTSB with government involvement.
- An IPO of AIB stock (28.8%) occurred in June 2017. This returned c. €3.4bn to the Irish Exchequer. It was used for debt reduction. A modest sale of AIB shares occurred in recent months. Government still own approx. 70% of AIB.



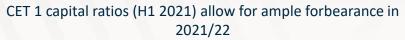


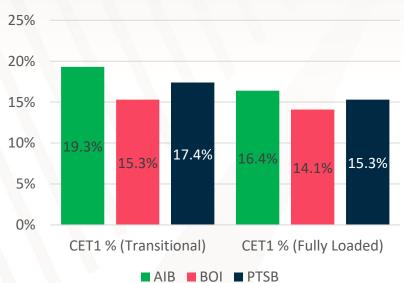


Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta National Treasury Management Agency

### Capital ratios strengthened in last 10 years

Bank's balance sheets contracted and consolidated since GFC





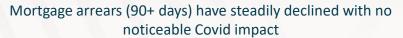


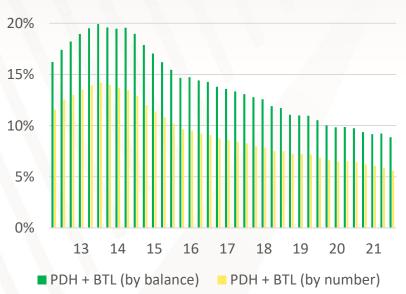




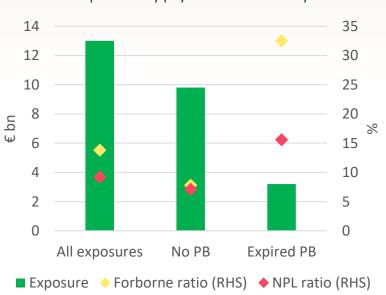
### Covid impact on households and firms varies

Mortgage arrears continue to decline while sectorally exposed firms remain vulnerable





### Forbearance and NPL ratios of Irish SME retail bank exposures by payment break history





### Commission's ruling on Apple annulled

Further appeal by EC means case continues

- In 2016, the European Commission ruled that Ireland illegally provided State aid of up to €13bn, plus interest to Apple. This
  figure was based on the tax foregone as a result of a historic provision in Ireland's tax code. The Irish Government closed
  this provision on December 31<sup>st</sup> 2014.
- Apple appealed the ruling, as did the Irish Government. The General Court granted the appeal in July 2020, 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. <u>There is no need to adjust funding plans given the decision by the General Court or by the Commission's decision to appeal.</u>



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