

#### Index

Summary – Page 3

Macro – Page 8

Fiscal – Page 24

NTMA Funding – Page 33

ESG Sustainability - Page 44

Structure of Irish economy – Page 53

Property & banks – Page 62



# Summary

Irish economic & fiscal strength but risks from global backdrop remain







#### Economic growth of c. 2% expected

Inflation/monetary policy has slowed growth

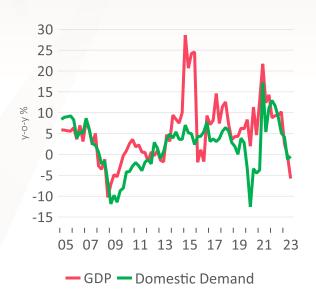
Value added from ICT & pharma clear to see – sectors give jobs, income and tax



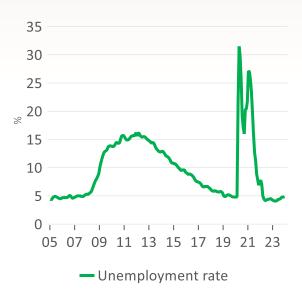
— GVA: Domestic sectors

GVA: Multinational dominated sectors

MDD gives better picture of growth: Gov't forecasts 2%+ for 2023 and 2024



Unemployment rate is at 4.9% – climbing in recent months but close to full employment





Source: CSI

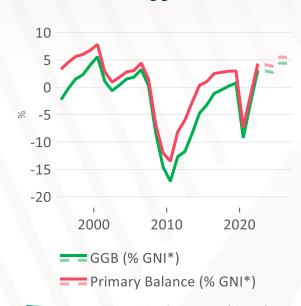
Source: CSO

Source: CSO

#### Large government surplus expected

Debt metrics all improved again in 2023

Forecasted 2024 GG surplus (2.7%) despite slowing growth



National Treasury Management Agency

Debt metrics set to improve this year again

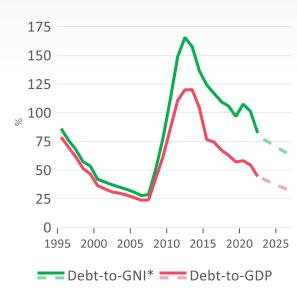
Debt-to-GNI\* (76.1% 2023f; 97% in 2019)

Debt-to-GG Revenue (178% 2023f; 230% in 2019)

Average interest rate (1.5% 2023f, from 2.2% in 2019)

Debt-to-GDP<sup>^</sup> (41.4% 2023f, from 57% in 2019)

Debt to GNI\* expected to fall rapidly



Source: CSO, Irish Department of Finance forecasts



#### Medium term challenges/opportunities

External environment is challenging – inflation abating but European slowdown more likely

### Inflation

Inflation moderating in Ireland similar to other European economies.

Core inflation remains elevated but consumption resilience evident in face of interest rate hikes

#### Growth

Labour market strength remained in 2023.

Multinationals and healthy domestic balance sheets helping to offset impact from monetary policy

Slowing growth in Europe is a headwind

#### **Fiscal**

Large surplus (2.7% of GNI\*) expected for 2024 via exceptional CT receipts.

Two new investment funds to be established. Intention to save windfall tax receipts and partially alleviate future fiscal/climate challenges.



#### NTMA funding range for 2024 is €6bn-€10bn

Funding range for 2024 is similar to 2023 when €7bn was issued

### Cash

Fiscal surplus alongside NTMA's strategy of prefunding means Ireland has a strong cash position.

The cash balance is expected to fall through 2024 as transfers to new sovereign funds occur

## >10 years

Weighted average maturity of debt one of longest in Europe.

NTMA issuance since 2022 of €14bn at WAM of 16.4 years and average interest rate of 2.13%.

#### AA

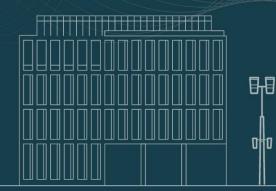
Ireland rated in the AA category with all major rating agencies.

S&P upgraded to AA and Moody's upgraded to Aa3 in 2023. Fitch has Ireland on a positive outlook.



## Macro

Economic strength in 2023 but growth has clearly moderated



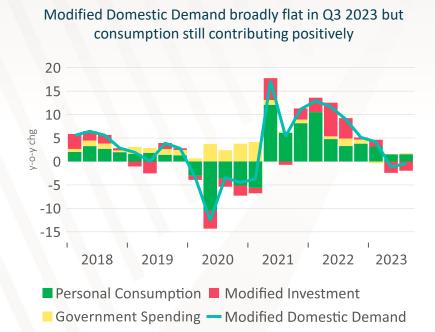




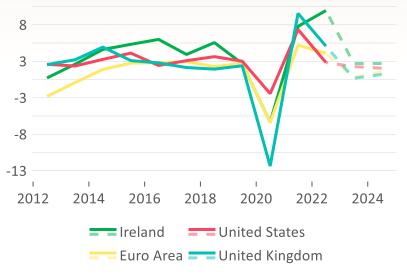
#### Irish economy grew modestly in 2023

Source: CSO

Consumption and employment growth still display resilience



Domestic demand projected to grow 2.2% in 2023 after growing by 9.5% in 2022

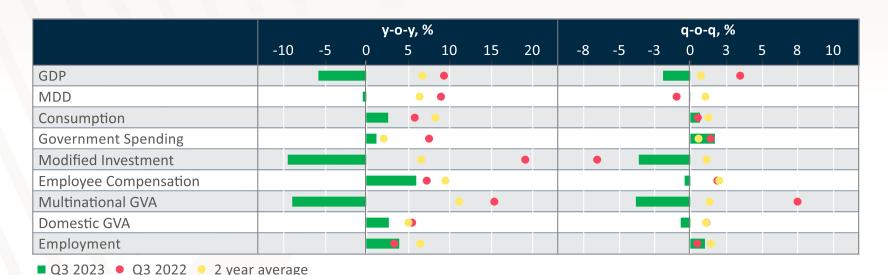




Source: CSO, OECD, Irish Department of Finance

#### Most activity measures moderating

MNE-impacted data volatile but many domestic indicators moderating rather than declining







#### High frequency data somewhat mixed

Unemployment inching up but other measures modestly positive

	2/22	3/22	4/22	5/22	6/22	7/22	8/22	9/22	10/22	11/22	12/22	1/23	2/23	3/23	4/23	5/23	6/23	7/23	8/23	9/23	10/23	11/23
Retail sales (ex motor)	-1.2	0.2	0.6	-0.1	-0.3	-1.1	0.2	-0.1	0.3	0.7	0.4	0.5	-0.4	0.3	0.4	0.5	0.6	-1.0	-0.3	-0.8	0.2	n/a
Unemployment rate	4.7	5.0	4.6	4.2	4.2	4.3	4.4	4.3	4.5	4.5	4.3	4.2	4.1	4.1	4.1	4.2	4.4	4.4	4.5	4.7	4.7	4.8
Payroll employees	0.9	0.9	0.9	0.6	0.3	0.1	0.1	0.3	0.4	0.5	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	n/a
Headline HICP	0.3	0.9	1.3	1.4	1.1	0.9	0.6	0.2	0.6	0.6	0.5	-0.4	0.1	0.5	0.9	0.5	0.5	0.4	0.5	0.3	0.3	-0.2
Core HICP	0.3	0.3	1.0	0.8	0.8	0.6	0.6	0.4	0.2	0.1	0.2	-0.1	0.4	0.6	1.1	0.8	0.6	0.5	0.4	0.0	0.1	-0.1
House prices	0.8	0.7	0.5	0.5	0.7	0.9	1.0	0.9	0.6	0.3	0.2	0.0	-0.2	-0.5	-0.4	-0.3	0.1	0.3	0.5	0.6	0.8	n/a
Consumer confidence	77.0	67.0	57.7	55.5	57.7	53.7	53.4	42.1	46.1	45.3	48.7	55.2	55.6	53.9	59.2	62.4	63.7	64.5	62.2	58.8	60.4	61.9
Composite PMI	59.1	61.0	59.6	57.5	52.8	52.9	51.0	52.2	52.1	48.8	50.5	52.0	54.5	52.8	53.5	51.9	51.4	50.0	52.6	52.1	49.7	52.3
Income Tax	2.1	2.1	2.7	2.4	2.4	2.5	2.4	2.2	2.5	4.4	2.5	2.8	2.2	2.3	3.1	2.6	2.5	2.7	2.5	2.4	2.6	4.6

Source: CSO, Eurostat, ILCU, SPDJI, Irish Department of Finance



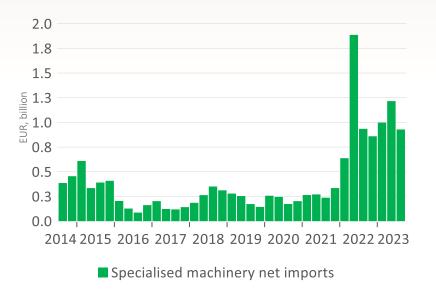
#### Investment strength fallen off

Machinery and Equipment had outsized increase in 2022

Some fallback in computer hardware, production facilities/data centres & new dwellings



Net imports of specialised machinery for particular industries saw huge bump in Q2 2022, led to jump in mod. investment



Source: CSO

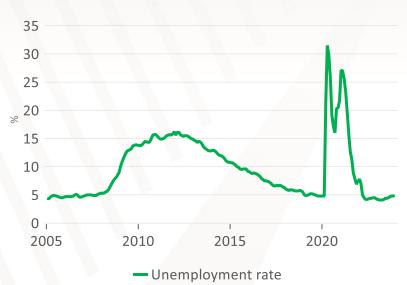
Source: CSO



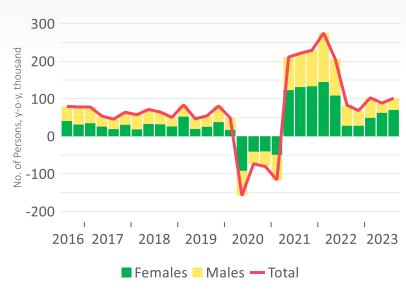
#### **Employment growth strong**

Unemployment rate low but has been rising in recent months

Unemployment rate at 4.9% in December – climbing in recent months but still close to full employment



Employment up 12.7% on pre-pandemic as female employment surges, but growth moderating



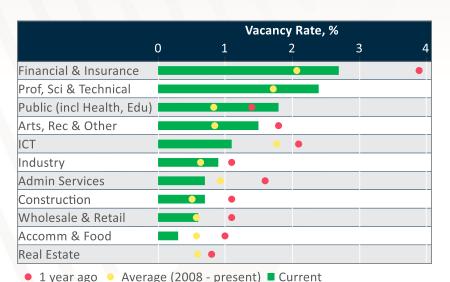


Source: CSO Source: CSO

#### Signs of labour market tightness

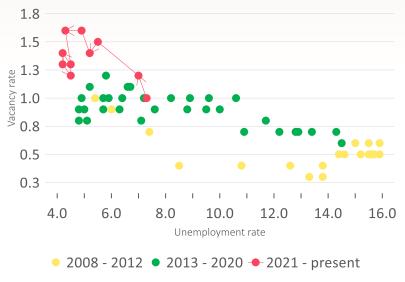
Vacancy rates across sectors falling but still elevated

Vacancy rates falling compared to a year ago but still elevated from historical averages



Source: Eurostat

#### Beveridge curve suggests a tight labour market that has been loosening in recent months



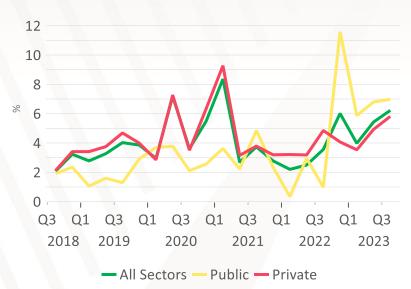
Source: Eurostat, CSO



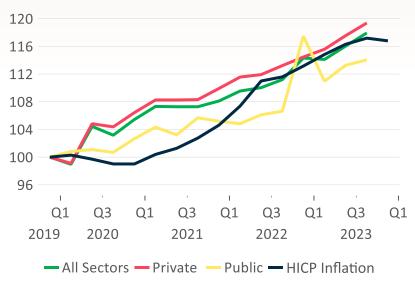
#### Wages are growing, but not spiralling

Earnings have increased, averaging c. 4.5% in last year

Outside public pay deal\*, private sector earnings growth is not spiralling upwards yet



Earnings growth not out of line with inflation since 2019





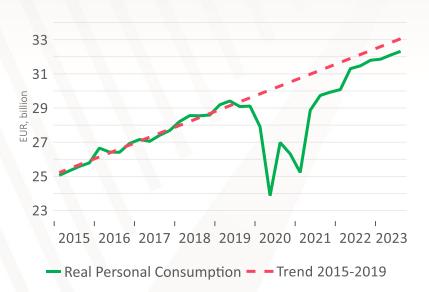
Source: CSO Source: CSO, Eurostat

<sup>\*</sup> Q4 2022 average hourly earnings distorted by backdated aspect of public sector pay deal

### Real spending main driver of economy

Consumption remains strong despite headwinds

Real personal consumption now near pre-pandemic trend



Rebound in services has been factor in most recent pick-up in consumption





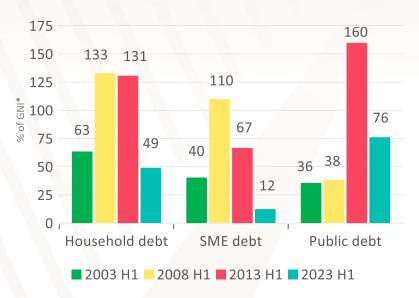
Source: CSO

Source: CSO

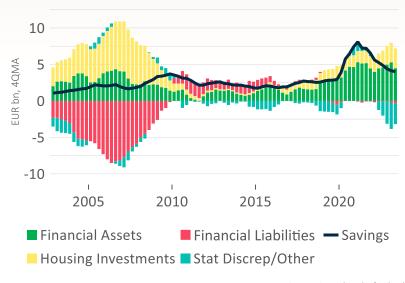
#### Households balance sheet strength

Debt levels much lower coming into pandemic + Covid savings

Private sector balance sheets are not over leveraged – healthy position will insulate against tighter monetary policy



Household savings rate has been volatile but clear households saving into financial assets since 2019





Source: Central Bank of Ireland, Eurostat, CSO

Source: Central Bank of Ireland

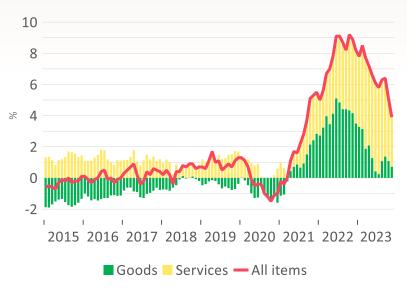
#### Harmonised inflation at 3.2%

Energy and pandemic concerns easing; core inflation falling but elevated

Energy prices driving headline inflation but that segment of index is clearly easing; core remaining elevated

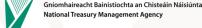


Goods inflation easing strongly on back of energy prices – services inflation could be stickier





Source: CSO



#### Inflationary pressure broad across index

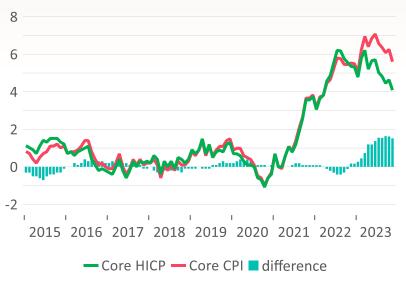
Services sectors alongside utilities costs seeing price pressure

Inflation has eased from a year ago in nearly all sectors

**HICP inflation by COICOP divisions** 



Core HICP levelling off but core CPI elevated largely due to mortgage interest (which is excluded from HICP basket)



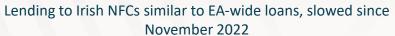




Source: CSO

#### Monetary tightening having effect

NFC lending slowed through 2022, housing impact more on rates





After slow initial pass-through, Irish mortgage rates rose back above EA average



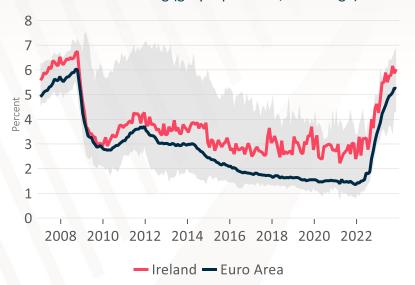
Source: ECB

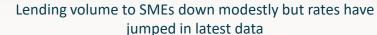


#### Banks passing on rate hikes to businesses

Rates on new lending to corporates moved earlier than mortgage rates

Lending rates to NFCs among highest in Euro Area and have been increasing (grey equals min/max range)







— Interest rates, gross new lending to SMEs, rhs

Source: ECB

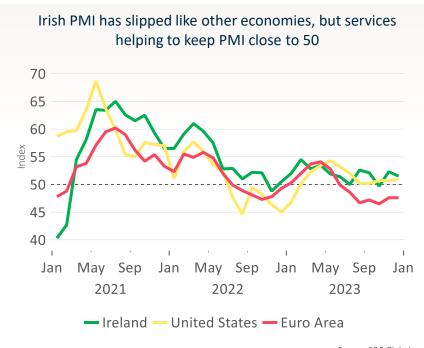
Source: Central Bank of Ireland



#### **External environment in 2024**

Rate cuts likely in 2024 but slowing external growth a headwind for Ireland

	2023	2024			
EA Monetary Policy	Higher rates impacting activity thru credit flows	Rate cuts priced in			
EU Fiscal Policy	Expansionary	Less expansionary			
US Monetary Policy	High rates but not overtly slowing activity	Rate cuts priced in			
US growth	Modest growth	Modest growth			
Energy prices	Prices pressure easing	Impact unclear			
UK growth	Minimal growth	Minimal growth, recession risk			
Euro Growth	0.5%-1% growth at best	Minimal growth, recession risk			
Global Inflation	Disinflation trend clear	Moderation expected to continue			





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

Pillar Two due for EU implementation in 2024, Pillar One – number of open issues

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

- ▶ The first pillar seeks to address taxing rights. It reallocates 25% of MNE's excess profit\* from jurisdictions where companies reside to the markets where user/consumers are based.
- This is to keep pace with digitalisation of the economy where sales can take place without taxable presence in market jurisdiction.
- Pillar 1 will reduce Ireland's corporation tax base. Some estimates place the hit at c. €2bn per annum by 2026.
- ▶ Ireland has always been fully supportive of Pillar One despite the implied cost to the Exchequer.
- Near final text of rules published, US holding public consultation. Open for signature in early 2024, ratification could take longer

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.
- ▶ The EU have agreed a directive to implement the 15% rate in 2024. The impact on tax will not be seen until 2026 however.
- Ireland's rate will remain one of the lowest in EU and will continue to be competitive. The R&D tax credit enhanced in Budget 2024 to maintain net benefit for businesses.
- Ireland can lean on other positives; educated and young workforce, English speaking, EU access, and ease of doing business.



## **Fiscal**

Large surplus in 2023 on back of continued excess corporate tax



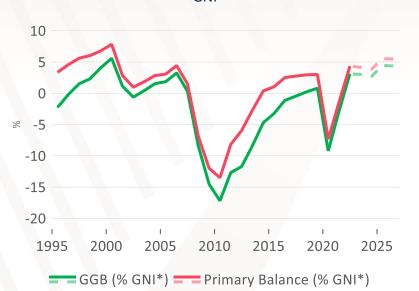


Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta National Treasury Management Agency

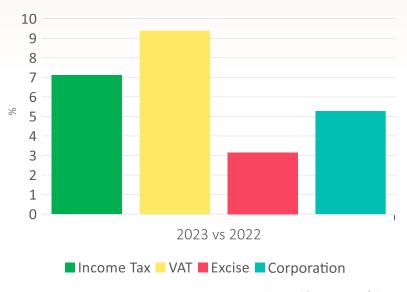
#### Fiscal surplus in Ireland

Robust revenues mean surpluses expected in short term





#### Income tax (+7%) and VAT (+9%) grew in 2023, corporate tax (+5%) after some weakness in H2



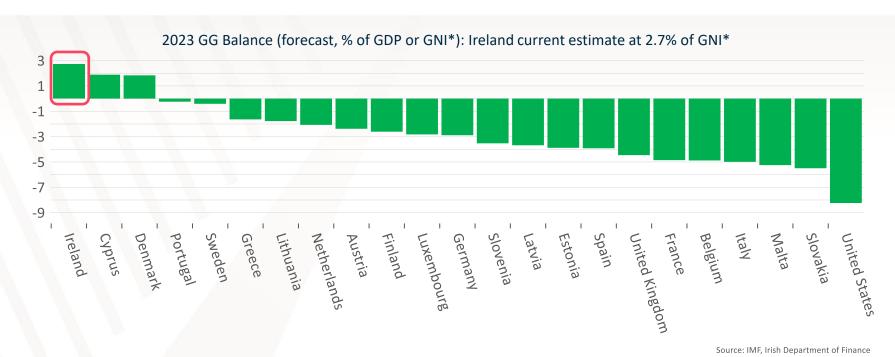


Source: CSO, Irish Department of Finance forecasts

Source: Irish Department of Finance

#### **Surplus compares well to others**

Recovery in fiscal position evident, question arises to how to manage such surpluses





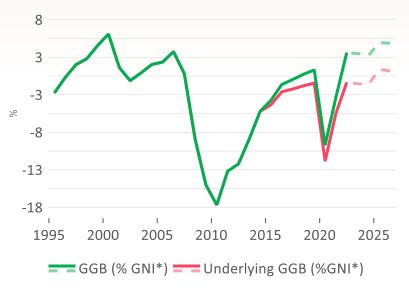
#### Corporate tax grew more modestly in 2023

Government plans to places excess receipts in two investment funds (FIF/ICNF)

Corporation tax revenue was €23.8bn in 2023, double 2020 level – legitimate concern receipts are transitory



Underlying GGB suggests Ireland would be in small deficit in 2023 if excess Corporate Tax excluded (-0.7% of GNI\*)





Source: CSO, Irish Department of Finance forecasts

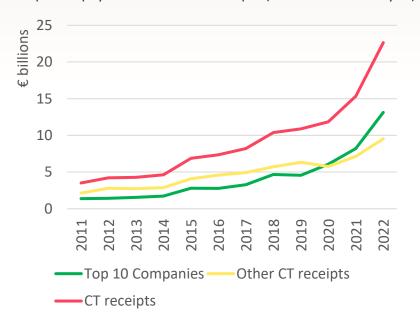


#### Multinationals at core of CT payments

Manufacturing the driver in last year's CT surge

CT paid (€m)	2022	vs. 2021
Manufacturing	10,078*	+5,660
ICT	4,184	+922
Fin and Insurance	2,698	+334
Wholesale, retail	2,292	-49
Admin and Support	1,199	-86
Prof, Sci, Tech	660	+4
Construction	469	+105
Mining, Quarry, Utilities	304	+127
Other	760	+304

Top 10 driving recent CT surge – likely that even top 3 companies pay c. 30% of all CT receipts (Fiscal Council analysis)





Source: Revenue Report, Macrobond

28

#### New funds are a mitigant to excess CT risk

Government intends to establish two new funds in the new year

#### Future Ireland Fund (FIF)

Infrastructure, Climate and Nature Fund (ICNF)

- ▶ The FIF will be a long-term savings fund which intends to contribute to exchequer expenditures in the decades to come (e.g., population ageing, the digital and climate transitions).
- The intention is for 0.8% of GDP (c. €4-6bn per annum) to be transferred to the FIF each year out to 2035.
- To start, €4bn of €6bn in the National Reserve Fund (NRF, or Rainy Day Fund) will be transferred into FIF.
- In time, the Government suggest as much as €100bn could reside in the FIF.
- ▶ The Funds are to be managed and controlled within the NTMA.

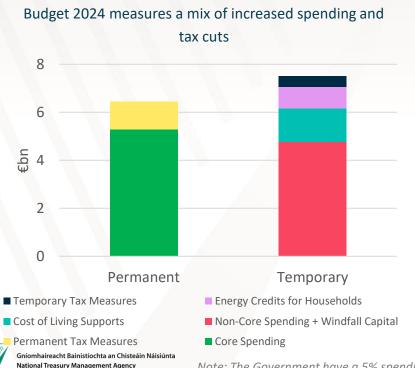
- ▶ The ICNF's mandate is to help the state meet its considerable infrastructure and green climate needs.
- ▶ In the past, Ireland has fallen into the trap of cutting capital investment in downturns. This fund will act as a reserve to be drawn on for capital expenditure if a downturn arises.
- ▶ To start the fund off, the remaining €2bn in the NRF will be transferred into the ICNF. From 2025 onwards, €2bn a year will be transferred into the ICNF from the Exchequer until it reaches its maximum size of €14bn.
- ▶ There will be clear rules in place on how the money can be accessed.
- ▶ A portion of the ICNF (c. €3bn) can be drawn down if needed to help meet climate and nature targets.



Source: Budget 2024

#### Budget 2024 measures amount to €14bn

Most measures temporary but core spending up 7.4% in 2023 & 6.1% in 2024



Overview of Budget 2024 measures

#### Permanent

- Core spending: €5.3bn
- Permanent tax cuts and credits: €1.2bn

#### **Temporary**

- Non-core spending (including Ukraine and Covid) and Windfall Capital: €4.8bn
- Cost of Living Household and Business Supports: €1.4bn
- Energy Credits for Households: €0.9bn
- Temporary tax measures, including relief for mortgage interest, renters and landlords: €0.4bn

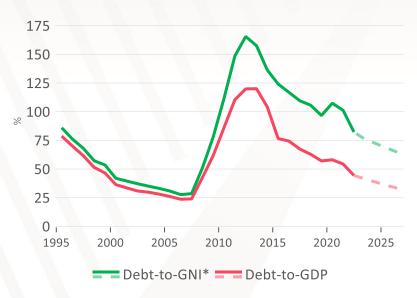
Source: Budget 2024

Note: The Government have a 5% spending rule as a self-imposed rule which aims to tie "core" spending to the estimated nominal growth rate of the Irish economy.

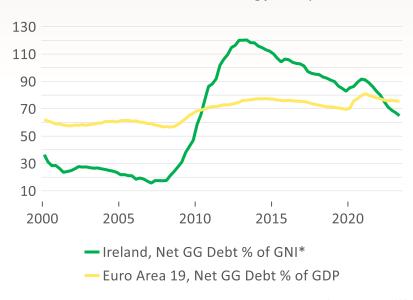
#### Debt to GNI\* likely fell below 80% in 2023

GG debt to GNI\* to fall on nominal growth and surplus position

Debt to GNI\* likely on downward trajectory; low debt to GDP means proposed EU fiscal rules won't impact Ireland



Net debt position is back below EA average, completing a more than decade long journey









#### **Alternative Debt Metrics**

Need to assess other metrics apart from debt to GDP when analysing debt sustainability 2023

	GG debt to GDP %	GG debt to GG revenue %	GG interest to GG revenue %
Greece	161	334	7.2
Italy	140	292	8.0
France	110	212	3.3
Spain	108	251	5.6
Belgium	106	212	3.7
Portugal	103	239	4.7
UK	97	230	8.8
EA 19	91	196	3.7
EU 27	83.1	182	3.7
Cyprus	78	185	3.2
Ireland	41 (76 GNI*)	187	2.9
Austria	76	156	2.5
Slovenia	69	157	2.9
Germany	65	141	1.8
Slovakia	57	135	2.4
Netherlands	47	110	1.7



# **NTMA Funding**

2024 funding range €6-€10 billion Continued flexibility in strategy





#### NTMA funding range for 2024 is €6bn-€10bn

Funding range for 2024 is similar to 2023 when €7bn was issued

### Cash

Fiscal surplus alongside NTMA's strategy of prefunding means Ireland has a strong cash position.

This is expected to fall through 2024 as transfers to new sovereign funds occur

## >10 years

Weighted average maturity of debt one of longest in Europe.

NTMA issuance since 2022 of €14bn at WAM of 16.4 years and average interest rate of 2.13%.

#### AA

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

S&P upgraded to AA and Moody's upgraded to Aa3 in 2023. Fitch has Ireland on a positive outlook.



#### **Smooth maturity profile**

Redemptions are modest in coming years, FRNs fully repaid

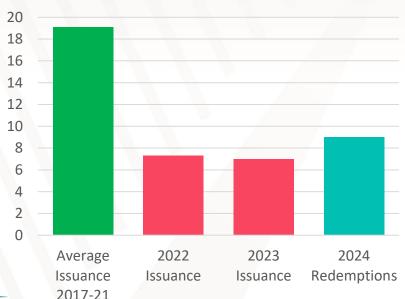




#### Low supply expected in coming years

Redemptions are modest compared to rest of Europe

Current borrowing requirements suggest NTMA issuance will be similar to last two years (€bns)



Ireland's refinancing risk is low - only a third of debt is set to mature in the next five years



Source: ESDM

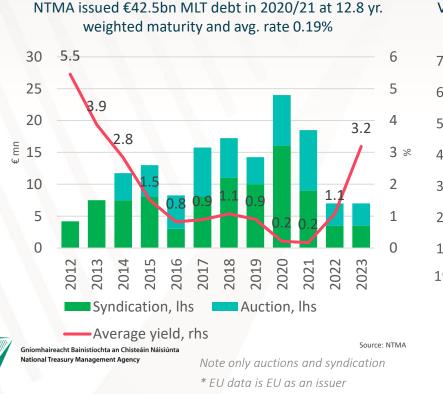


Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta National Treasury Management Agency

Refinancing rate defined as debt maturing within five years divided by total debt outstanding.

### **Borrowing costs anchored**

Ultra-low rate era over but Ireland used the period well



Vast majority of Irish debt is fixed rate at average cost of 1.5%



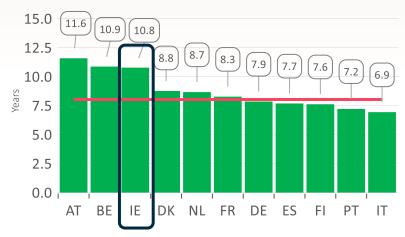
## NTMA has lengthened weighted maturity

Debt management strategy has extended debt profile since 2015

#### Benchmark issuance has extended the maturity of Government debt since 2015



Ireland (in years) compares favourably to other EU countries



- Gov't Debt Securities Weighted Maturity
- Euro area Gov't Debt Securities Avg. Weighted Maturity



Source: NTMA

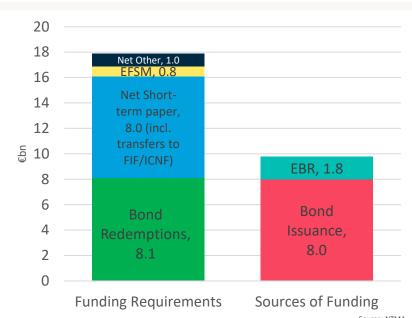
Source: ECB



#### Funding needs and sources for 2024

#### Modest borrowing amid expected EBR surplus

- ▶ There is one bond redemption in 2024 (€8.1bn in March). There is also a EFSM repayment due this year.
- ▶ The Exchequer Borrowing Requirement (EBR) for 2024 is expected to be a surplus (hence shown as funding source).
- The NTMA held significant cash throughout 2023. The balance at year-end 2023 was c. €25bn. This will likely fall through 2024 as transfers to the FIF/ICNF occur.



Rounding may affect totals

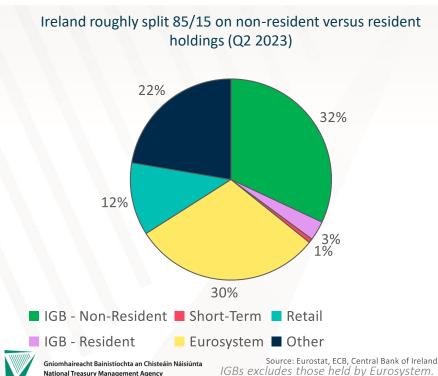


- In the funding sources column, €8bn is reflected indicatively for bonds as it is the midpoint of the announced funding range.
- Net STP (short term paper) outflows are primarily related to the expected dissolution of National Reserve Fund and transfers to the Future Ireland Fund and Infrastructure, Climate and Nature Fund.
- EBR is the Department of Finance's Budget 2024 estimate of the Exchequer Borrowing Requirement

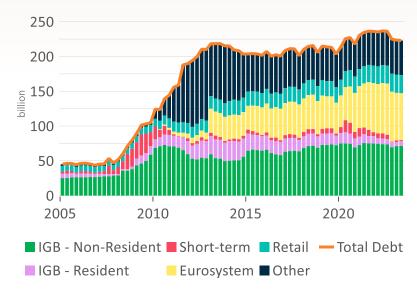


#### Diverse holders of Irish debt

Sticky sources account for greater than 60%



"Sticky" sources - official loans, Eurosystem, retail - make up c. 60% of Irish debt

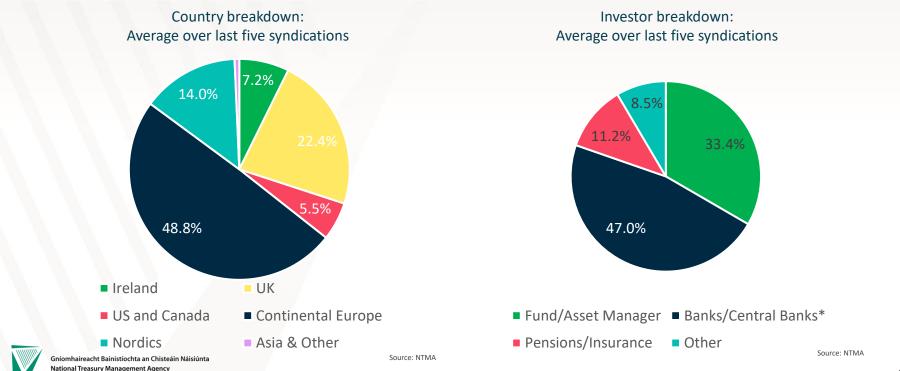


Source: Eurostat, ECB, Central Bank of Ireland

GBs 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



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

<sup>41</sup> 

## **Credit Ratings for Ireland**

S&P upgrade in May 2023; Ireland rated in AA category by all

Rating Agency	Long-term	Short-term	Outlook/ Trend	Date of last rating change	Date of next review
Standard & Poor's	AA	A-1+	Stable	May 2023	17 <sup>th</sup> May
Fitch Ratings	AA-	F1+	Positive	Jan 2022	31 <sup>st</sup> May
Moody's	Aa3	P-1	Stable	Apr 2023	16 <sup>th</sup> February
DBRS Morningstar	AA(low)	R-1 (middle)	Stable	Jan 2022	22 <sup>nd</sup> March
R&I	AA-	a-1	Stable	Feb 2022	Q1 2024
KBRA	AA	K1+	Stable	May 2023	26 <sup>th</sup> April
Scope	AA-	S-1+	Positive	May 2021	8 <sup>th</sup> March



#### Apple case: Await CJEU decision

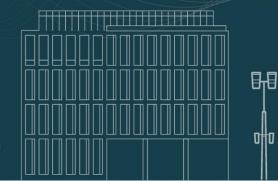
General Court found in Ireland/Apple's favour; AG proposes that Court set aside this judgment

- 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 31st 2014. This case had nothing to do with Ireland's current corporate tax rate or regime.
- Apple appealed the ruling, as did the Irish Government. The General Court granted the appeal in July 2020, annulling the EC's ruling. The Commission then appealed to a higher court: the Court of Justice of the European Union (CJEU).
- The Advocate General (AG), an official adviser to the court, delivered his opinion on 9 November 2023. The AG recommended that the CJEU set aside the 2020 ruling and refer it back to the General Court for a new decision. The AG opinion does not form part of the CJEU's judgment but is considered by the Court when arriving at its final judgment.
- The CJEU will issue its final judgement at a later date. Pending the outcome of the legal process, the €13bn plus EU interest will remain in an escrow fund.
- The NTMA has not included these funds in any of its issuance plans in the past or currently. The funds are seen as separate and will be returned to Apple if the General Court's decision is upheld.



## **ESG**

Issuance & government policy demonstrate Ireland's green commitment



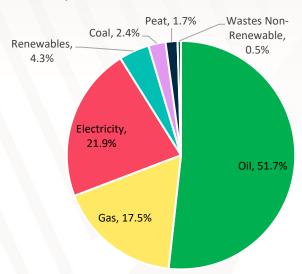




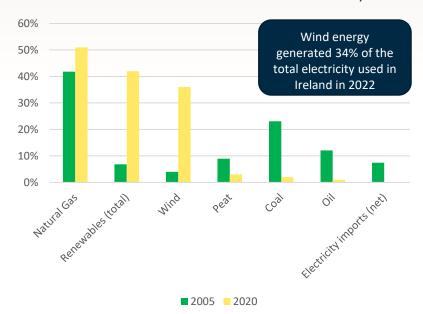
## Ireland Energy: Fossil fuels prevalent

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 2021



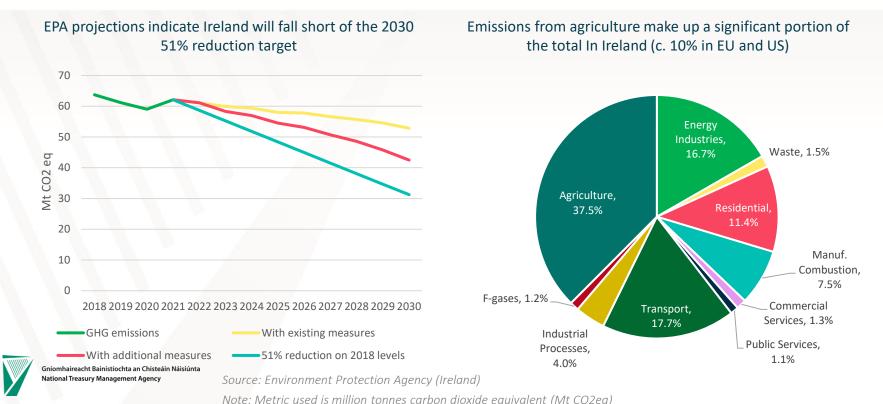
Electricity production has become more renewables based but still far from Climate Action Plan aim of 80% by 2030





#### Ireland's Greenhouse Gas emissions

EPA report notes further measures needed to achieve emissions reduction target



#### Climate Action Legislation

The Climate Action & Low Carbon Development Act 2021 aims for Net Zero by 2050

#### Climate Action & Low Carbon Act:

- Carbon Budgeting: The Act embeds the process of carbon budgeting into law. It requires Government to adopt a series of economy-wide-five-year carbon budgets.
- National Climate Objective: First carbon budgets will aim for a reduction of 51% of emissions by 2030.
- Climate Action Strategy: A national plan will be prepared every five years and actions for each sector will be updated annually.
- All of Government approach: Local authorities are required to prepare a Climate Action Plan and public bodies obliged to conduct their functions in line with the national plan.

#### **Carbon Budgets & Sectoral Ceilings**

Budget Period	2021-2025	2026-2030	2031-2035 (provisional)
MtCO2eq	295	200	151
Average Annual Reduction	4.8%	8.3%	3.5%

Sector	Target reduction by 2030 vs.2018	Projected** reduction 2030 vs. 2018	
Electricity	75%	62%	
Transport	50%	41%	
Buildings (Commercial and			
Public)	45%	50%	
Buildings (Residential)	40%	48%	
Industry	25%	11%	
Agriculture	25%	19%	
Other*	50%	21%	



#### **Climate Action Plan 2024**

#### Pillars to tackle emissions reduction

## Powering renewables

· 9GW onshore wind, 8GW solar and at least 5GW offshore wind by 2030

- Phase out and end use of coal and peat in electrical generation
- ·Transform flexibilit y of the electricity system by improving system services and storage capacity

#### **Building Better**

- · Retrofit 500,000 dwellings by 2030
- · Put heat pumps into 680,000 homes by 2030
- Generate 2.7TWh of district heating by 2030
- · Improve carbon sequestration and reduce management intensity of drained soils on grasslands

#### **Transport**

- Reduce distance driven across all car journeys by 25%
- · Walking, cycling, public transport will account for 50% of journeys
- · 1 in 3 private cars will be EV's
- Increase rural bus routes and frequency

#### **Agriculture**

- Reduce use of chemical nitrogen as fertiliser
- · Increase organic farming to 450,000 hectares
- · Expand indigenous biomethane sector
- · Contribute to delivery of land use targets for afforestation, reduce mgmt. intensity of organic soils
- Increase uptake on protected urea on farms to 90-100%

#### **Enterprise**

- · Reduce clinker content in cement and substitute products with lower carbon content for construction materials
- Reduce fossil fuel share of final consumption
- · Increase total share of heating to 70-75% by 2030
- · Grow the circular and bio economy

#### **Land Use**

- · Increase annual afforestation rates to 8,000 hectares
- · Promote forest management initiatives in forests to increase carbon sinks and stores
- · Improve carbon sequestration and reduce management intensity of drained soils on grasslands
- · Rehabilitate 33,000 hectares of peatlands



## Irish Sovereign Green Bonds (ISGB)

Over €10bn issued in Green; allocated to green projects following fourth year

- €10.35bn nominal outstanding across two bonds (€10.8bn cash equivalent)
- Cumulatively €10.8bn allocated
- 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 chaired by the Department of Finance
- Compliance reviews by Sustainalytics
- Five annual allocation reports and four annual impact reports

#### Irish Sovereign Green Bond Impact Report 2021: Highlights\*

► Environmentally Sustainable Management of Living Natural **Resources and Land Use** 

Number of hectares of forest planted: 2,016 Number of Landfill Remediation projects being funded: 70

Renewable Energy

Number of companies (including public sector organisations) benefitting from SEAI Research & Innovation programmes as lead, partner or active collaborators: 143

SEAI Research & Innovation awards: 48

Sustainable water and wastewater management Water savings (litres of water per day): 222.1 million New & upgraded water and wastewater treatment plants: 12 Length of water main laid (total): 202km



## Irish Sovereign Green Bonds (ISGB)

Irish Sovereign Green Bond Impact Report 2021 & Allocation Report 2022: sample impacts

#### Some highlights from the report\*

#### Built Environment/ Energy Efficiency

Energy saving (GigaWattHours): 458

Number of homes renovated: 17,187

EV home charger grants provided: 15,547

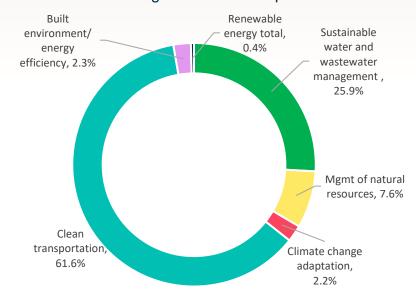
#### Clean Transportation

- Number of public transport passenger journeys: 139.8 million
- Length of regional and national greenways constructed: 70km
- Take-up of Grant Schemes/ Tax foregone provided (number of vehicles): 33,020

#### Climate Change Adaptation

- 16 major Flood relief projects at planning, development or construction phase.
- 8,296 properties protected on completion

#### Allocation in 2022 of ISGB funding has focused on Water/Waste management and transportation





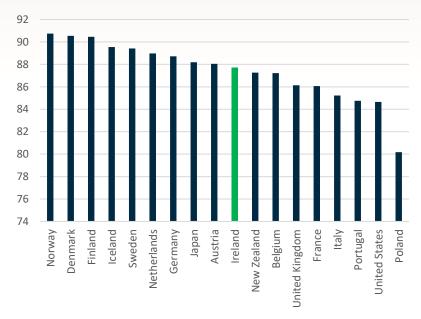
## Further progress on 'E' and 'S' to be made

Action needed in sectors like energy and healthcare

60



Ranked 13<sup>th</sup> out of 160 countries in the Social Progress Index but scores lower on healthcare and housing affordability





20

Austria Ireland

Belgium

US

100

80

■ Energy Use ■ Climate Policy

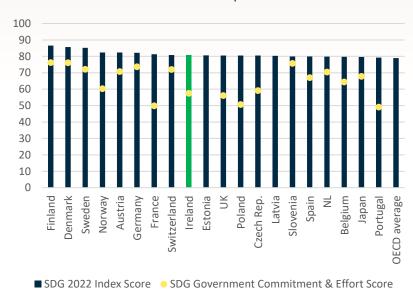
## Governance typically been Ireland's strength

Viewed well on many indicators focusing on sound governance and institutional strength

Ireland is well positioned to tackle ESG challenges with strong government effectiveness and large fiscal surplus



Ireland ranked 9<sup>th</sup> globally on progress towards achieving the Sustainable Development Goals







Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta National Treasury Management Agency

# Structure of the Irish Economy

Multinationals overstate economic prosperity but offer clear benefits of jobs, income, taxes



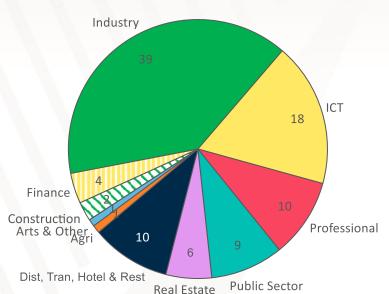




## Multinational activity distorts Ireland's data

Notwithstanding those issues, MNCs have real positive impact

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



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

#### **Percentage of Total**

Employment	Compensation of Employees	Real GVA
13	14	37
7	10	19
10	14	10
24	18	10
30	29	10
0	1	6
5	8	4
5	4	3
1	1	1
4	2	1
	13 7 10 24 30 0 5	13     14       7     10       10     14       24     18       30     29       0     1       5     8       5     4       1     1

Source: Eurostat

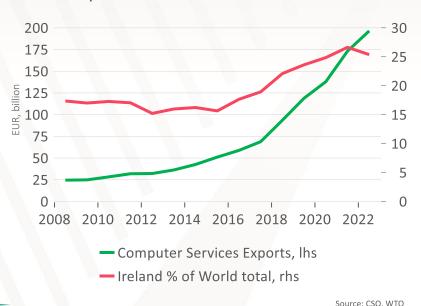


Source: Eurostat

## €0.68trn of intellectual property into Ireland

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

Ireland is now a leader in Computer Services; Exports have up from €50bn to c. €170bn since 2015



Enormous inflows (c. €0.68trn) of IP assets into Ireland since 2015 on the back of BEPS 1.0 and other tax reforms



2015 Office-Off IP assets increase estimate

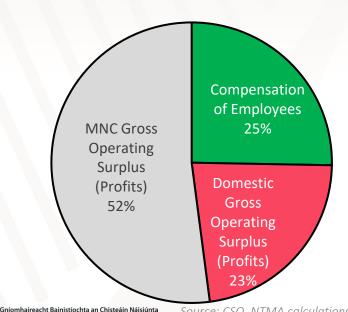
■ Fixed Capital Investment - IP assets



## Underlying economy above EA average

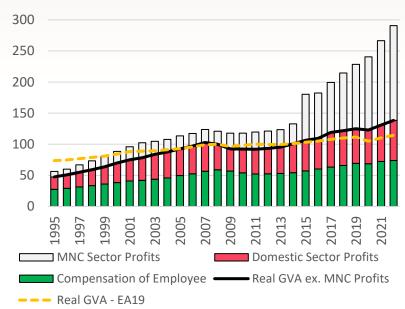
MNCs add real substance to IE economy as wage bill filters out to domestic sectors

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



National Treasury Management Agency

Ireland, on an underlying basis, growing faster than euro area average in recent years (2008 = 100)





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.

## Ireland's population helps growth potential

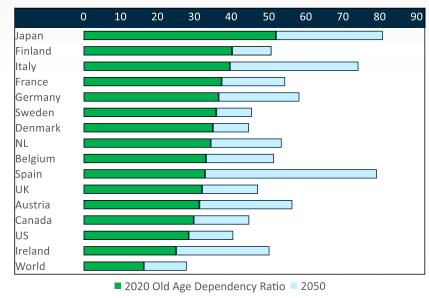
Age profile younger than the EU average but won't outrun aging demographics

Source: Eurostat

Ireland's population at 5.28m in April 2023: younger population than EU



Ireland's population will age rapidly in decades to come; to remain younger than most of its EA counterparts



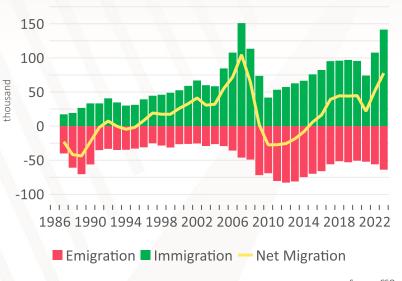


Source: UNDESA

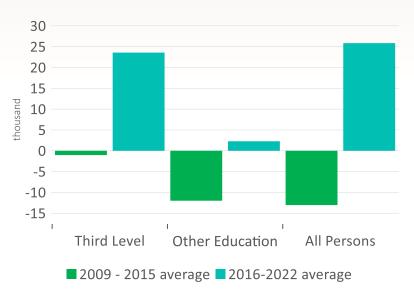
## Migration improves Ireland's human capital

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

Continued inward migration led to 98k increase (c. 2%) in last year - due to strong economy & UKR refugee efforts







Source: CSO

#### **Brexit: 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.
  - 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 was averted and the economic impact to Ireland will be more modest.



#### Windsor Framework + NI Protocol

Windsor Framework expands on NI Protocol agreement; NI parliament remains suspended

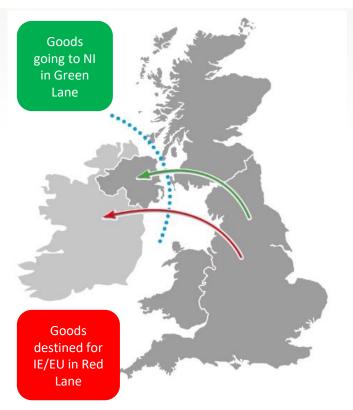
#### Northern Ireland Protocol (signed in 2019)

- The withdrawal agreement (and the Northern Ireland Protocol within it) is a legally binding international treaty which works in tandem with the FTA.
- Northern Ireland remains 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: customs border is "in the Irish Sea".

#### Windsor Framework (signed in 2023)

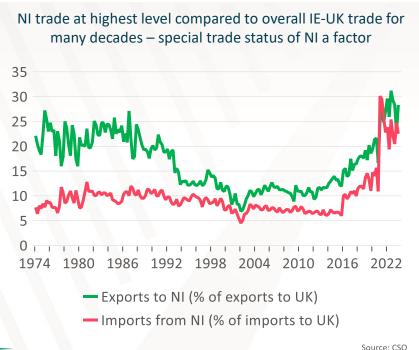
- Green lane/Red Lane: goods from the UK for NI will travel through new green lane, with a separate red lane for goods that might travel on to the EU. Border "in the Irish Sea" effectively ended for goods destined for NI market.
- VAT: EU VAT rules could be applied in NI whilst the UK can make "critical VAT" changes which include NI. Concerns on food/medicines/parcels have been addressed.
- Stormont Brake: Agreement gives the NI Assembly (at least 30 MLAs from two parties)
  the ability to pull an "emergency brake" if it disagrees with an EU goods law which
  would have significant and lasting effects. If the brake is pulled, the UK government
  could veto new EU laws but an arbitration process has been established also.





## Trading flows are changing after FTA

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



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



Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta National Treasury Management Agency

# **Property & Banks**

Demand/prices still elevated nationally despite monetary policy and increased building costs



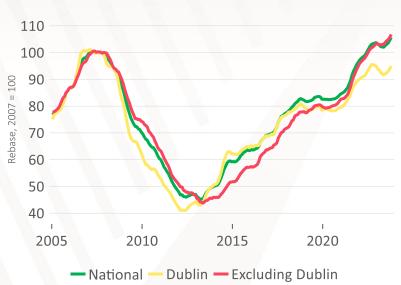




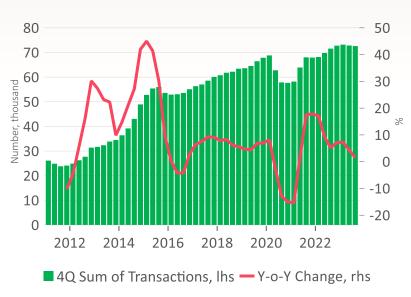
## Prices up in recent years but stalling

Supply hampered by the pandemic and inflation (c.33-40k units needed p.a.)

House prices up modestly y-on-y, above previous peak in 2007 – Dublin seeing prices recede in last year



Transaction volumes have started to slow following ECB rate hikes



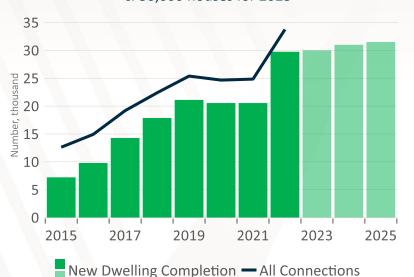


Source: CSO

## Supply outlook uncertain

Stronger supply in 2023 than expected but could be impacted by inflation/rates in '24

New Dwellings Completions\* will likely exceed forecasts\*\* of c. 30,000 houses for 2023



Housing starts show supply chain issues and inflation has started to weigh on development



Source: CSO

Source: CSO, Irish Department of Housing, Planning & Local Government

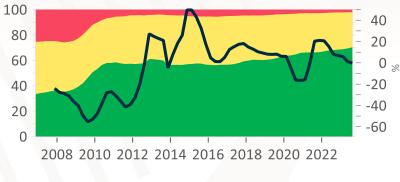


<sup>\*</sup> Housing completions derived from electrical grid connection data for a property. Reconnections of old houses overstate the annual run rate of new building (all connections in graph).

## Demand is strong, but drawdowns slowing

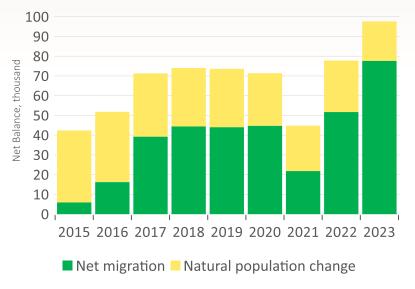
Increased net migration further fuelling tight demand in the housing market

Mortgage drawdowns\* increase starting to slow, fuelled by a fall in residential investment drawdowns



- First-Time Buyer Purchase, % total, lhs
- Mover Purchase, % total, lhs
- Residential Investment Letting Purchase, % total, lhs
- Total drawdowns, y-on-y %, rhs



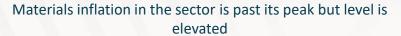






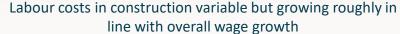
#### Inflation normalising in construction sector

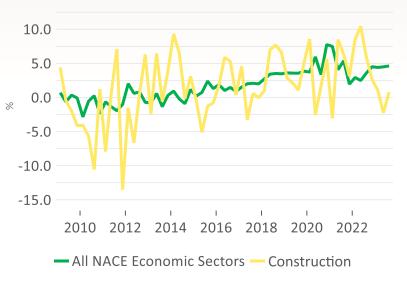
Growth in material and labour costs has softened in recent months.





All building materials (y-o-y %)



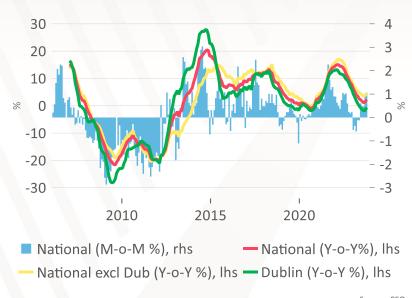


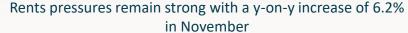


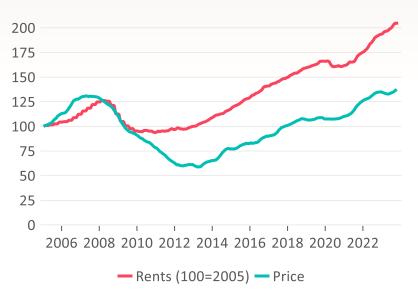
#### House prices continue to rise

Inflation driven by strong demand, labour shortages and increased supply prices

House prices up 2.3% in the year to October 2023, the lowest level of price growth recorded in almost three years







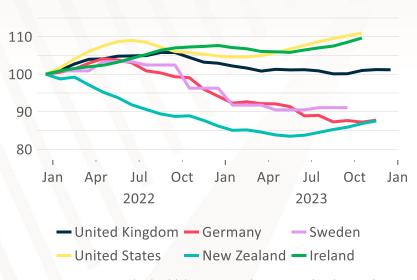
Source: CSO



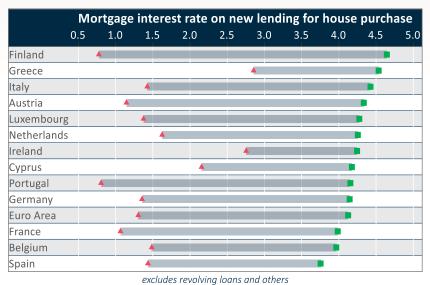
## House price increases slowing

Irish mortgage rates moving slower than other countries

House prices have peaked in other countries but Irish prices have remained elevated



Pass-through from ECB hikes to mortgage rates less than seen in other countries. Interest rates still above EA average



**▲** 1/2022 ■ 11/2023

Source: StatCan, CBS, Nationwide, S&P Global, EUROPACE, Real Estate Norway (Eiendom Norge), REINZ, SCB, CSO, StatFin

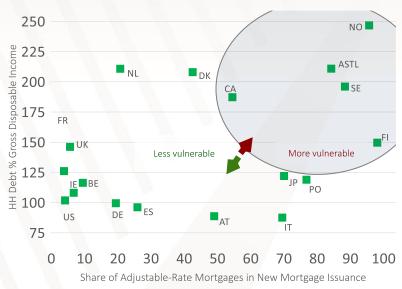


## Ireland less vulnerable to rising interest rates

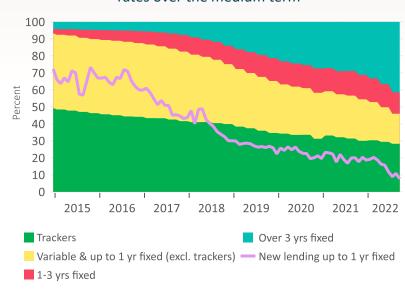
Source: OECD, ECB, FHFA

But could pose a greater threat in the medium term

Low share of adjustable rate mortgage and low HH debt to income ratios- Ireland less exposed to rising interest rates



...but most mortgages in Ireland exposed to higher interest rates over the medium term



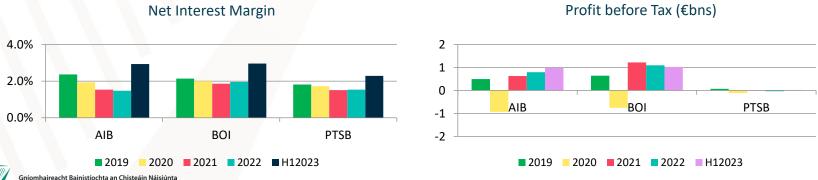
Source: Central Bank of Ireland



#### Ireland's Banking Sector Overview

Less competition possible in decade to come

- Banking sector well capitalised with sufficient liquidity buffers
- Banks profitable as net interest margins will be helped by rising interest rate environment.
- 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 sold its share in BOI. This leaves just AIB and PTSB with government involvement.
- Further tranches of AIB and PTSB shares were sold in 2023. The Government owned approx. 41% of AIB and 57% of PTSB. Sales are likely to be ongoing as government divests from sector.

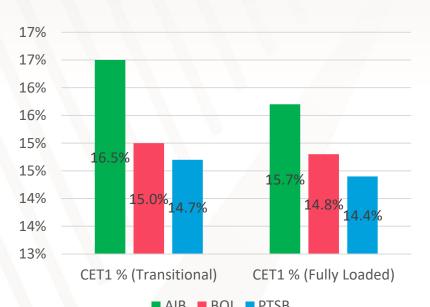


National Treasury Management Agency

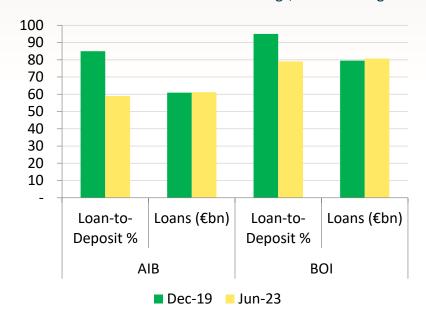
## Capital ratios strengthened in last 10 years

Bank's balance sheets contracted and consolidated since GFC





Loan-to-deposit ratios have fallen in recent years as deposits have increased on back of HH savings, banks leaving



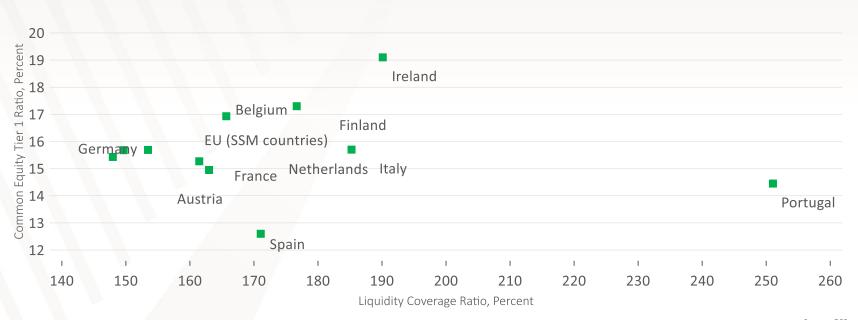


Source: Published bank accounts

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

## Ireland's banking sector well positioned

CET1 ratios are high and liquidity coverage ratio is better than EU average





Source: ECB

#### **Disclaimer**

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

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

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

