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# Summary

Irish economic & fiscal strength but risks from global backdrop remain

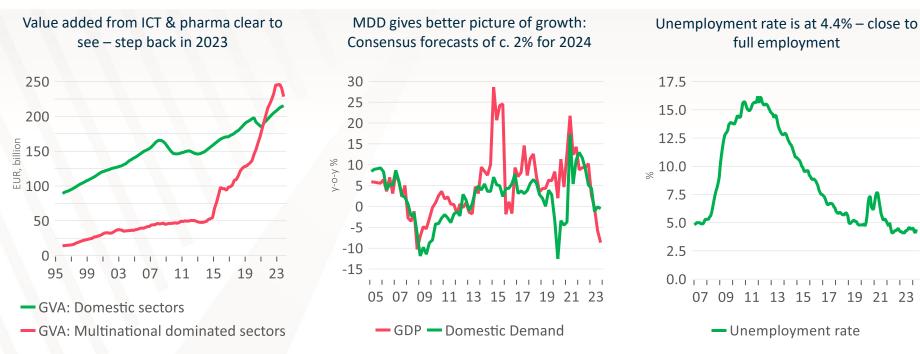






#### Modest real economic growth expected in 2024

Inflation/monetary policy/lower investment slowed growth in 2023





Source: CSO Source: CSO Source: CSO Source: CSO \* Modified Domestic Demand series accounts for multinational activity (technically modified final domestic demand (excl. inventories))

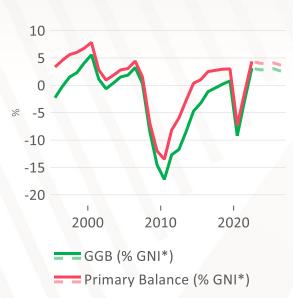
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Note: RHS uses the standard unemployment rate during the Covid period. The Covid adjusted unemployment rate was as high as 31.5% at times between March 2020 and Feb 2022.

#### Large government surplus expected

Debt metrics all improved in 2023

Forecasted 2024 GG surplus (2.8%) despite growth headwinds



National Treasury Management Agency

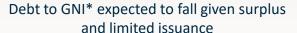
Debt metrics mostly expected to improve this year

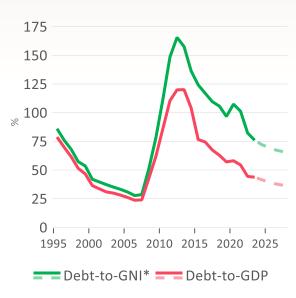
> Debt-to-GNI\* (72.1% 2024f; 75.9% in 2023)

Debt-to-GG Revenue (171% 2024f; 178% in 2023)

Average interest rate (1.6% 2024f, 1.6% in 2023)

Debt-to-GDP^ (41.5% 2024f; 43% in 2023)





Source: CSO, Irish Department of Finance forecasts



#### Medium term challenges/opportunities

External environment is challenging – inflation abating but European slowdown could impact

## Inflation

Inflation moderating in Ireland faster than euro area average.

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

#### Growth

Labour market strength remained in 2023. Healthy domestic balance sheets helping to offset impact from monetary policy

Slow growth in Europe is a headwind

## **Fiscal**

Large surplus (c. 2.8% 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

€5bn has been issued so far

## 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 €19bn at WAM of 15.2 years and average interest rate of 2.29%.

#### 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 & DBRS have Ireland on a positive outlook.



# Macro

Economic growth likely in early 2024 despite headwinds



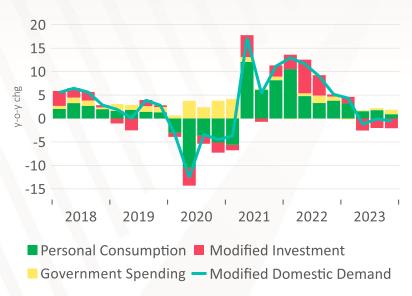




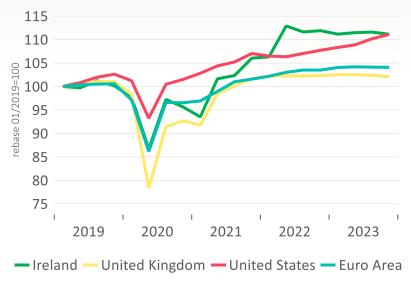
## Modest Irish economic growth in 2023

Consumption and employment growth still display resilience

Modified Domestic Demand increased marginally (+0.5%) in 2023 but consumption still contributing positively



Irish economic activity\* overperformed in post-pandemic compared to major trade partners', but flatlined in 2023





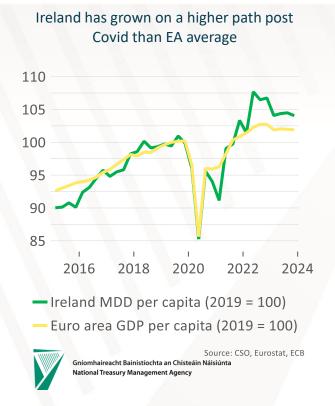
Source: CSO

Source: CSO, BEA, ONS, Eurostat

Note: MDD for Ireland is modified for multinational activity by Ireland's Central Statistics Office (CSO). MDD = Consumption + Government (current) spending + Modified Investment. Seasonal adjustment mean contributions do not always add up to MDD growth rate.

#### Ireland vs Euro area performance

Greater growth in Ireland with a similar inflation path aided by labour force







#### High frequency data positive in Q1

PMI, consumer confidence and unemployment giving positive signals

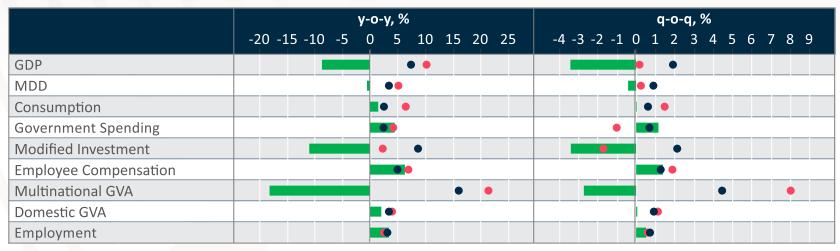
	3/22	4/22	5/22	6/22	7/22	8/22	9/22	10/22	11/22	12/22	1/23	2/23	3/23	4/23	5/23	6/23	7/23	8/23	9/23	10/23	11/23	12/23	1/24	2/24	3/24
Retail sales (ex motor)	-0.1	0.6	-0.1	-0.3	-1.0	0.2	0.0	0.1	0.5	0.4	0.6	-0.3	0.1	0.4	0.5	0.7	-0.8	-0.4	-0.8	0.1	-0.1	0.5	0.7	0.4	0.2
Unemployment rate	5.0	4.5	4.1	4.1	4.2	4.3	4.3	4.4	4.5	4.3	4.2	4.2	4.1	4.1	4.1	4.3	4.3	4.4	4.6	4.5	4.4	4.5	4.5	4.2	4.1
Payroll employees	0.9	0.8	0.6	0.3	0.1	0.1	0.3	0.3	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	
Headline HICP	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	-0.1	-0.6	0.0	0.0
Core HICP	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	0.2	-0.4	0.1	0.1
House prices	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	1.0	1.1	1.0	0.8	
Consumer confidence	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	62.4	74.2	70.2	69.5
Composite PMI	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	51.5	50.7	54.4	53.2
Income Tax	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	2.6	2.9	2.4	2.6

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



## Most activity measures moderating

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



■ Q4 2023 • Q4 2022 • 2012 - 2019 average

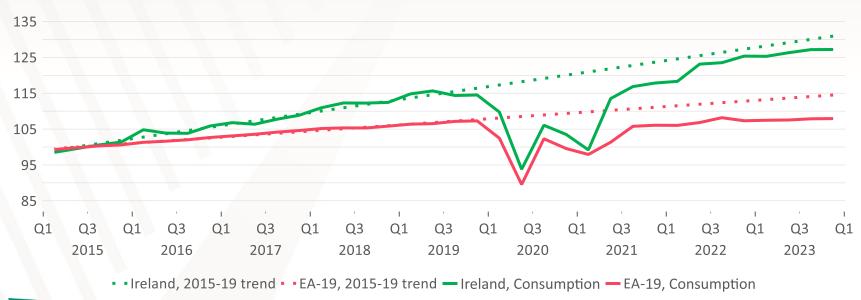
Source: CSO, Eurostat



## Real spending main driver of economy

Consumption remains strong despite headwinds

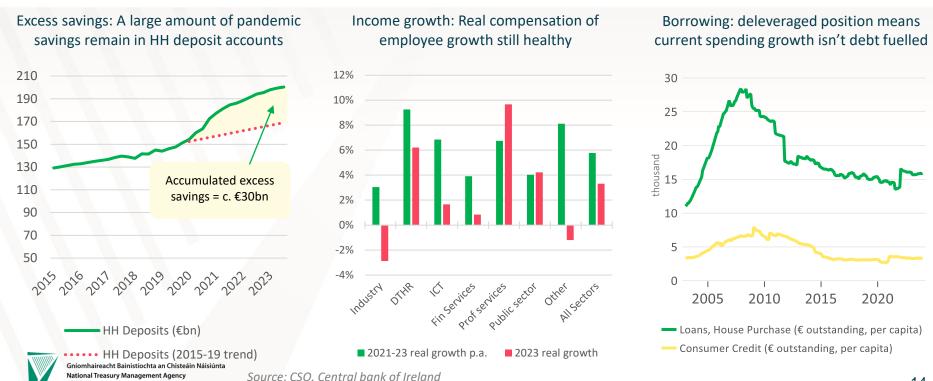
Real personal consumption now near pre-pandemic trend. Performance outstrips euro area average





#### Basis for household consumption growth

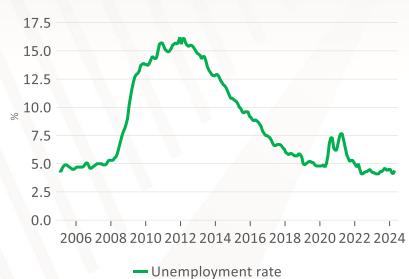
Spending comes from savings, incomes or borrowing; Ireland in good shape across all three



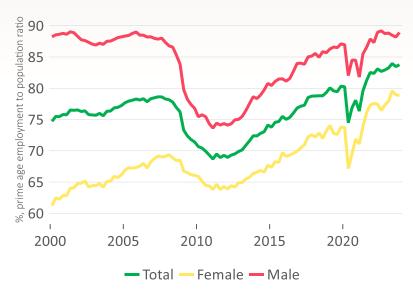
#### Labour market remains strong

Unemployment rate low despite measurement volatility





#### Prime age employment to population ratio near peak as job growth outstrips population growth



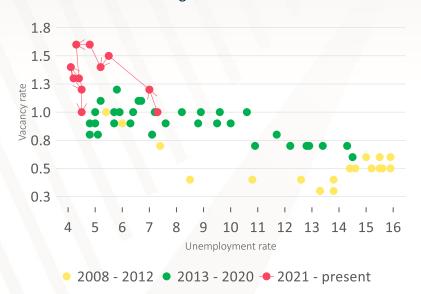


Source: CSO Source: CSO

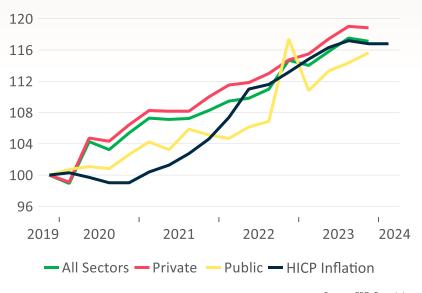
#### Some signs of labour market tightness

But wages and inflation moderating in recent data

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



Earnings growth not out of line with inflation since 2019





Source: CSO, Eurostat

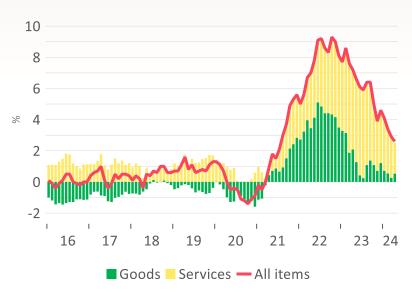
#### Harmonised inflation at 1.6%

Energy and pandemic concerns easing; core inflation falling and below 3%

Energy prices driving headline inflation but that segment of index is clearly easing



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







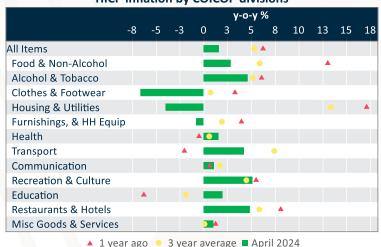


#### Inflationary pressure broad across index

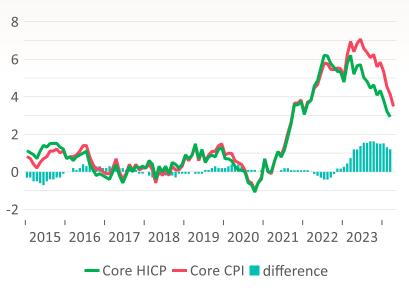
Services sectors alongside utilities costs seeing price pressure

Inflation has eased from a year ago in nearly all sectors

**HICP inflation by COICOP divisions** 



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



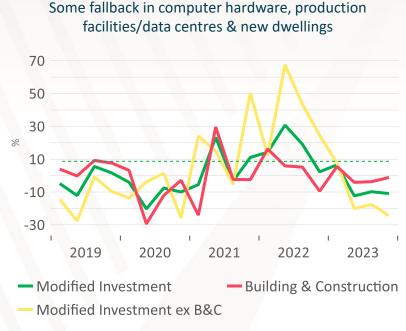




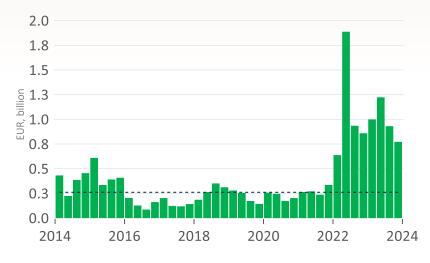
Source: CSO

#### Investment strength fallen off

Machinery and Equipment had outsized increase in 2022



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



■ Specialised machinery net imports --- Mean, 2014-2021

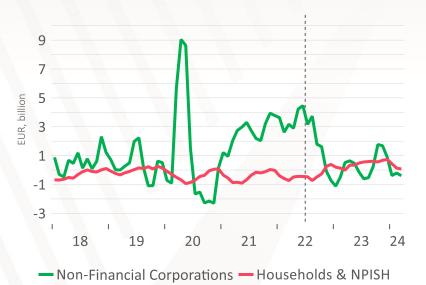


Source: CSO Source: CSO

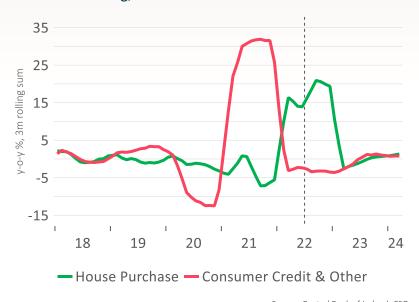
#### Monetary tightening having effect

Some divergence between businesses and households

Lending to Irish NFCs declined as rates increased while household lending increased on house purchases



Impact of covid lockdowns and rate increases evident in consumer lending, but now stabilised in the "new normal"





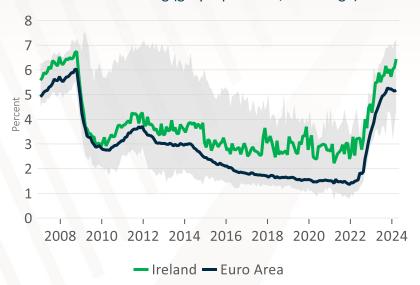
Source: ECB

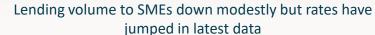
Source: Central Bank of Ireland, CSO

#### Banks passing on rate hikes to businesses

Rates on new lending to corporates moved earlier than mortgage rates

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







Source: ECB

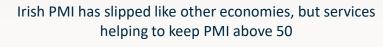
Source: Central Bank of Ireland

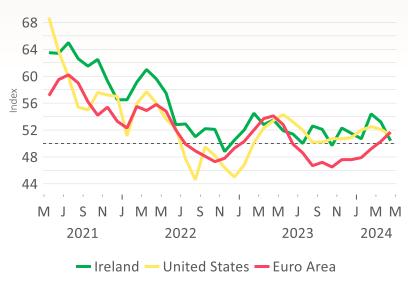


#### **External environment in 2024**

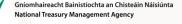
Rate cuts likely in 2024 but slowing external growth a headwind for Ireland

	2023	2024			
EA Monetary Policy	Higher rates impacting activity thru credit flows	Rate cuts priced in from June			
EU Fiscal Policy	Expansionary	Less expansionary			
US Monetary Policy	High rates but not overtly slowing activity	Less rate cuts priced in now			
US growth	Modest growth	Trend growth			
Energy prices	Prices pressure easing	Higher prices in H1			
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 but disinflation slowing			





Source: S&P Global



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

Pillar Two implemented in EU this year, 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, open for signature in 2024, ratification could take longer

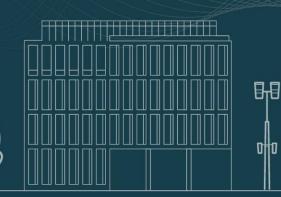
Pillar Two: 15% minimum effective global tax rate

- ▶ 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 2024 expected due to continued excess corporate tax



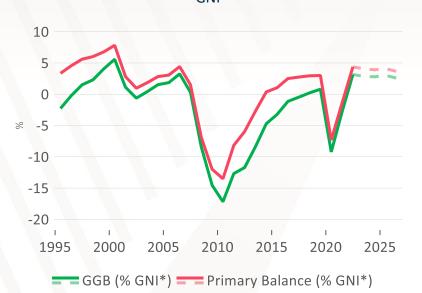


Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta National Treasury Management Agency

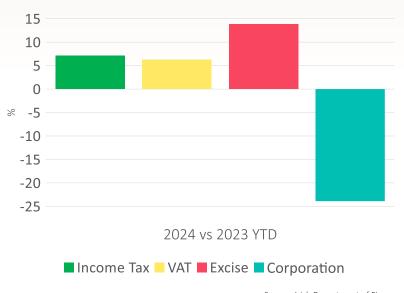
#### Fiscal surplus in Ireland

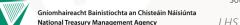
Robust revenues mean surpluses expected in short term but CT weakness in March

2024 General Government surplus expected to be c. 2.8% of GNI\*



Income tax (+7.1%) and VAT (+6.3%) both up in early tax receipts in 2024, Corporate Tax receipts well down



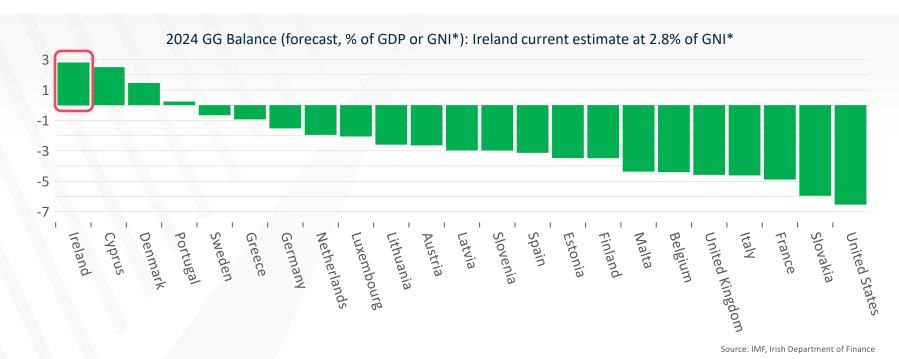


Source: CSO, Irish Department of Finance forecasts

Source: Irish Department of Finance

#### Surplus compares well to others

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





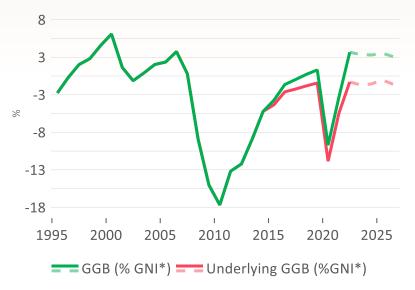
## Corporate tax grew more modestly in 2023

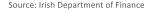
Government plans to place excess receipts in two investment funds (FIF/ICNF)

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 2024 if excess Corporate Tax excluded (-0.9% of GNI\*)





Source: CSO, Irish Department of Finance forecasts

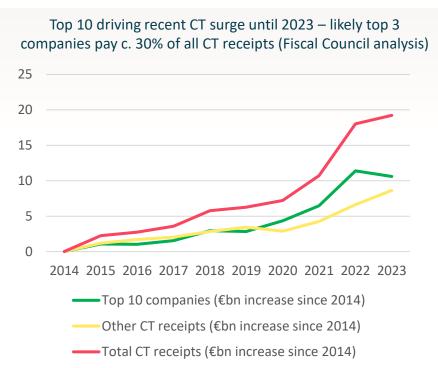


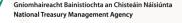
Note: The Department of Finance's underlying general government balance is the GGB excluding the Government's estimated windfall corporation tax receipts (windfall estimated at €11.2bn for 2023 and 2024).

#### Multinationals at core of CT payments

Manufacturing the top driver in CT but chemical and pharma fell versus 2022

CT paid (€m)	2023	vs. 2022
Manufacturing	9,073*	-1,005
ICT	4,131	-53
Fin and Insurance	3,593	+895
Wholesale, retail	2,700	+408
Admin and Support	1,609	+410
Prof, Sci, Tech	844	+184
Construction	543	+74
Mining, Quarry, Utilities	327	+23
Other	1,021	+261





Source: Revenue Report 2024

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

Government intends to establish two new funds in 2024

#### 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.

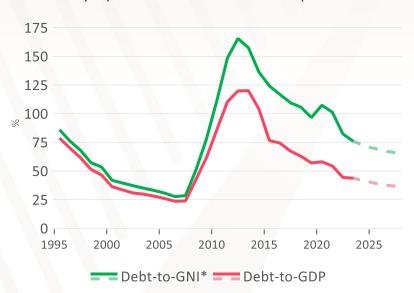
- ▶ The ICNF's mandate is to help the state meet its considerable infrastructure and green climate needs.
- ▶ In the past, Ireland has fallen into the trap of cutting capital investment in downturns. This fund will act as a reserve to be drawn on for capital expenditure if a downturn arises.
- ▶ To start the fund off, the remaining €2bn in the NRF will be transferred into the ICNF. From 2025 to 2030, €2bn a year will be transferred into the ICNF from the Exchequer.
- ▶ There will be clear rules on how money can be drawdown with Irish Fiscal Advisory Council likely to play a role.
- ▶ A portion of the ICNF can be drawn down if needed to help meet climate and nature targets.



#### Debt to GNI\* fell to c. 76% in 2023

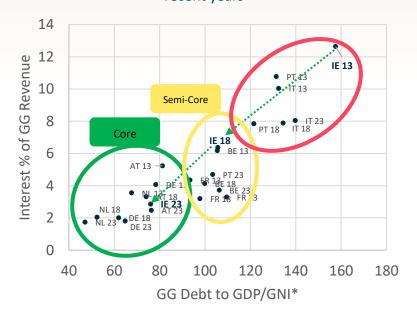
GG debt to GNI\* to fall on nominal growth and surplus position

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



Source: CSO, Irish Department of Finance forecasts

#### Ireland's debt fundamentals have moved into "core" space in recent years





#### **Alternative Debt Metrics**

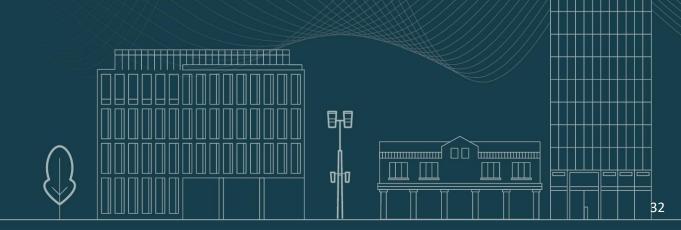
Need to assess other metrics apart from debt to GDP when analysing debt sustainability 2023

	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	43.7 (76 GNI*)	178	2.8
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





Gníomhaireacht Bainistíochta an Chisteáin Náisiúnta National Treasury Management Agency

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

€5bn has been issued so far

## 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 €19bn at WAM of 15.2 years and average interest rate of 2.29%.

#### AA

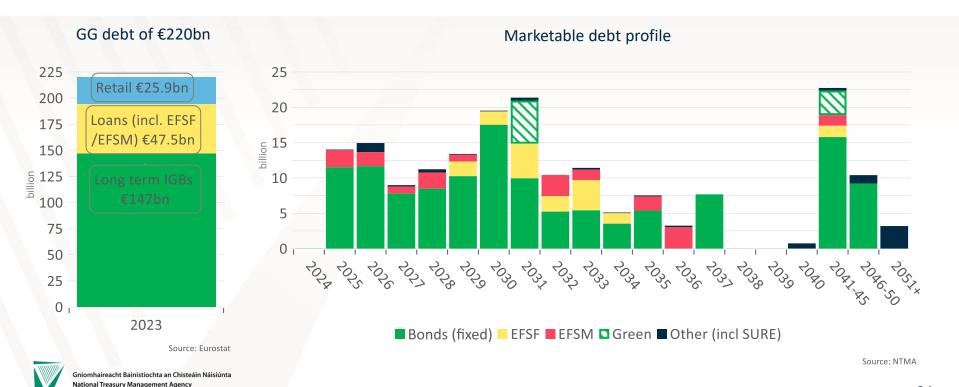
Ireland rated in the AA category with all major rating agencies.

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



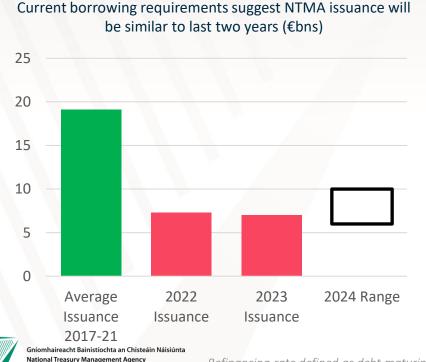
#### **Smooth maturity profile**

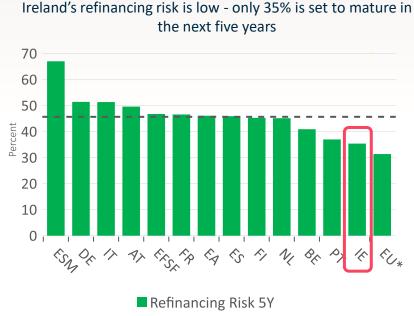
Redemptions are modest in coming years, FRNs fully repaid



#### Low supply expected in coming years

Redemptions are modest compared to rest of Europe





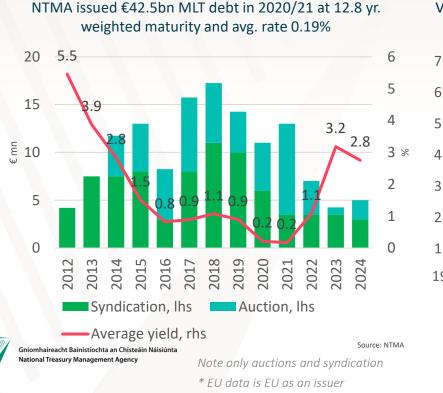


Refinancing rate defined as debt maturing within five years divided by total debt outstanding.

<sup>\*</sup> FU data is FU as an issuer

#### **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 1.6%

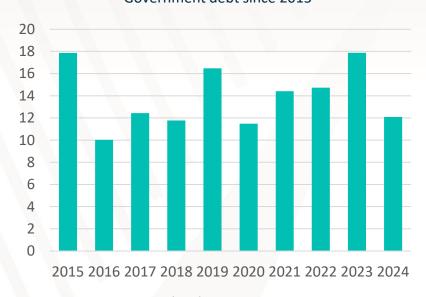


Source: CSO

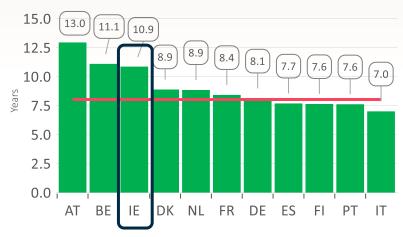
# NTMA has lengthened weighted maturity

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: FCB

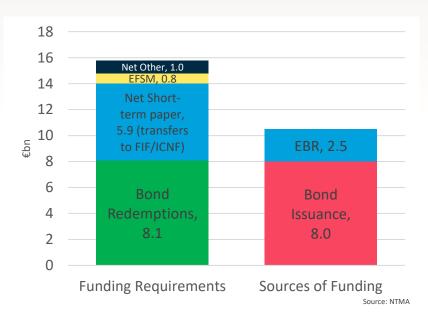


Note: Weighted maturity for Ireland includes Fixed rate benchmark bonds, FRNs, Amortising Bonds, Notes issued under EMTN programme, T-Bills and ECP Data. It excludes programme loans and retail.

## Funding needs and sources for 2024

#### Modest borrowing amid expected EBR surplus

- There was 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 to closer to €19-20bn as transfers to the FIF/ICNF occur.



Rounding may affect totals

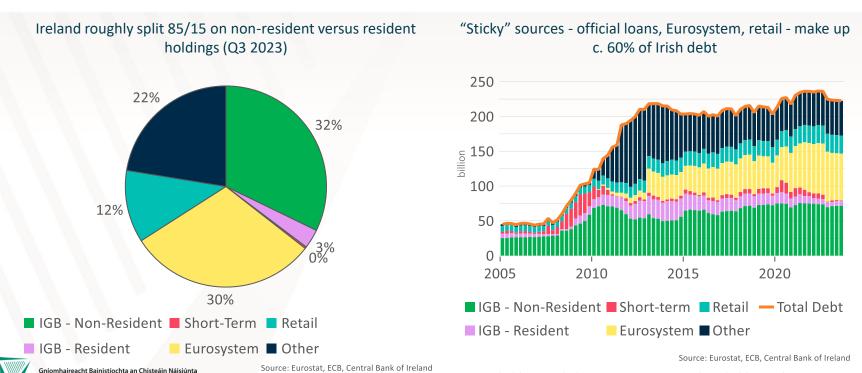
- In the funding sources column, €8bn is reflected indicatively for bonds as it is the midpoint of the announced funding range.
- 2. Net STP (short term paper) outflows are primarily related to the expected dissolution of National Reserve Fund and transfers to the Future Ireland Fund and Infrastructure,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



#### Diverse holders of Irish debt

Sticky sources account for greater than 60%

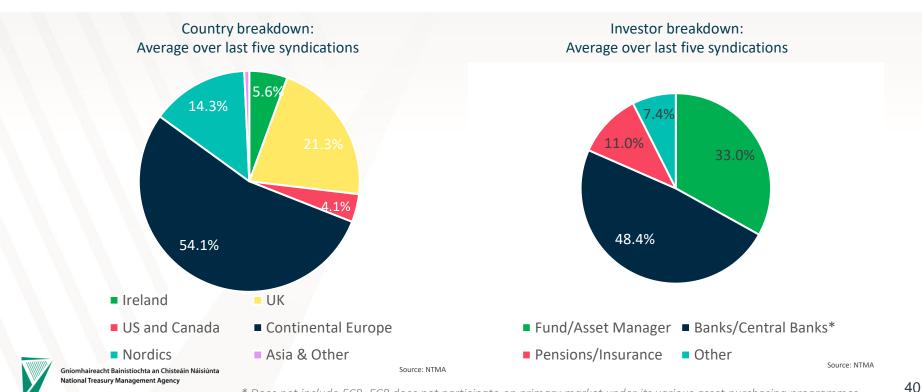
National Treasury Management Agency



Source: Eurostat, ECB, Central Bank of Ireland 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>25</sup> 

## **Credit Ratings for Ireland**

Four ratings agencies on positive outlook; 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	H2 2024
Morningstar DBRS	AA(low)	R-1 (middle)	Positive	Jan 2022	H2 2024
R&I	AA-	a-1+	Positive	Feb 2022	2025
KBRA	AA	K1+	Stable	May 2023	H2 2024
Scope	AA-	S-1+	Positive	May 2021	H2 2024



#### Apple case: Await CJEU decision

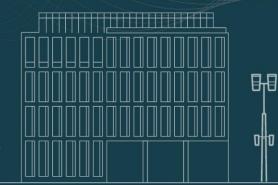
General Court found in Ireland/Apple's favour; AG proposes that Court set aside this judgment

- 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



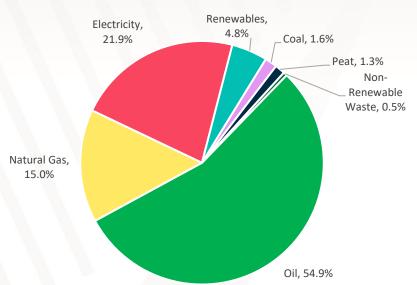




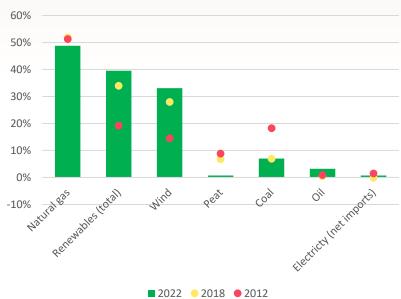
# Ireland's energy: fossil fuels prevalent

Ireland's energy mix is reliant on fossil fuels but renewables share to increase by 2030

Oil accounts for the largest share of Ireland's energy mix. Transport accounted for 72% of oil use in 2022



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



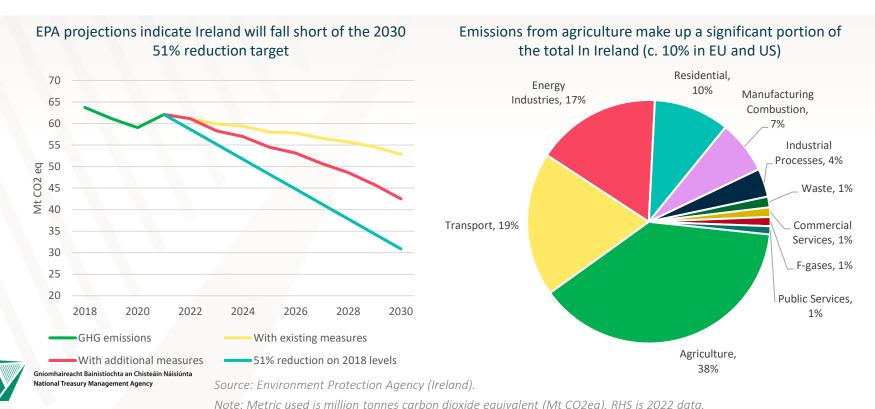


Source: SEAI

Source: SEAI

## 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

- €10.85bn nominal outstanding across two bonds (€11.3bn 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 (Gigawatt Hours): 458

Number of homes renovated: 17,187

EV home charger grants provided: 15,547

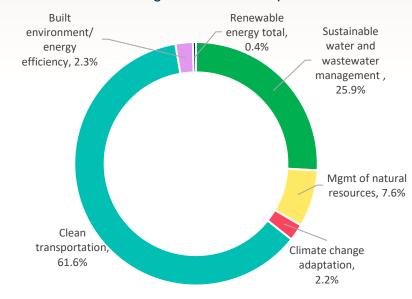
#### Clean Transportation

- 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



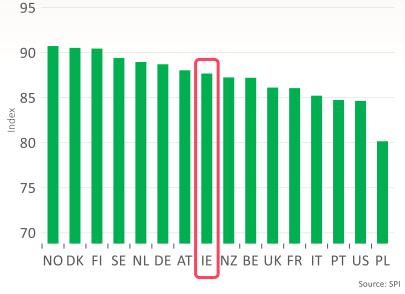


# Further progress on 'E' and 'S' to be made

Action needed in sectors like energy and healthcare



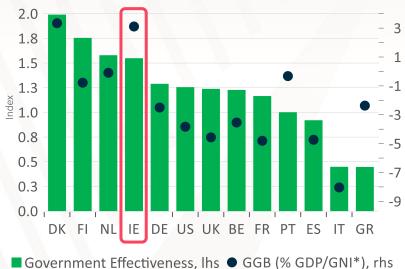
Ranked 13<sup>th</sup> out of 160 countries in the Social Progress Index but scores lower on healthcare and housing affordability



# 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



■ 2023 SDG Index Score ■ SDG Government Commitment & Fffort

Source: OECD Sustainable Development

# Structure of the Irish Economy

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

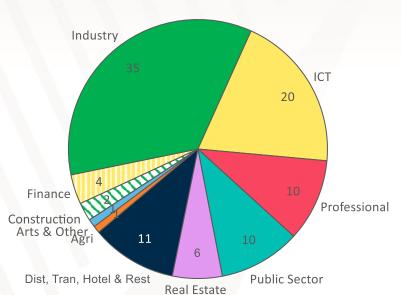




## Multinational activity distorts Ireland's data

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	35
7	10	20
25	18	11
10	14	10
30	29	10
0	1	6
5	7	4
5	4	2
4	2	1
1	1	1
	13 7 25 10 30 0 5 5	13     14       7     10       25     18       10     14       30     29       0     1       5     7       5     4

Source: Eurostat



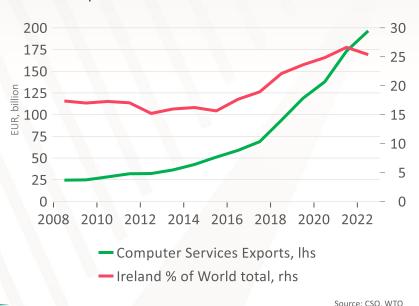
Source: Eurostat

Note: RHS based on calendar-adjusted seasonally-adjusted data as of 2023 Q4.

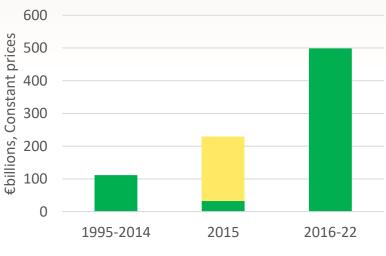
# €0.68trn of intellectual property into Ireland

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 once-off IP assets increase estimate

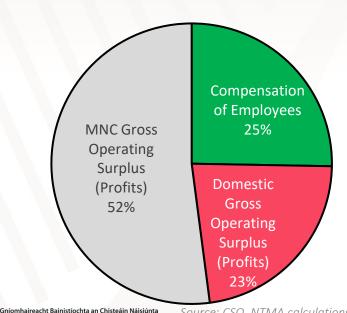
■ Fixed Capital Investment - IP assets



## Underlying economy above EA average

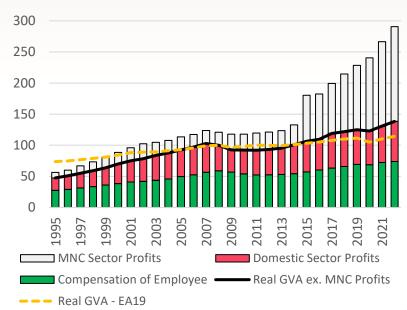
MNCs add real substance to IE economy as wage bill filters out to domestic sectors

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)



Source: CSO, NTMA calculations (Nominal 2022 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.

## Ireland's population helps growth potential

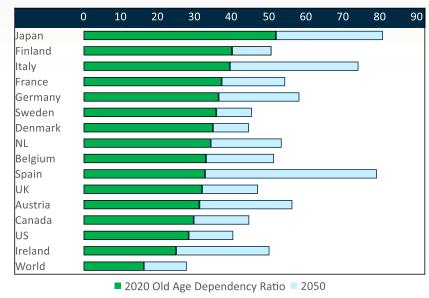
Age profile younger than the EU average but won't outrun aging demographics

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



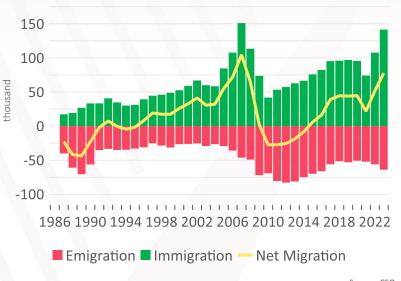


Source: UNDESA

## Migration improves Ireland's human capital

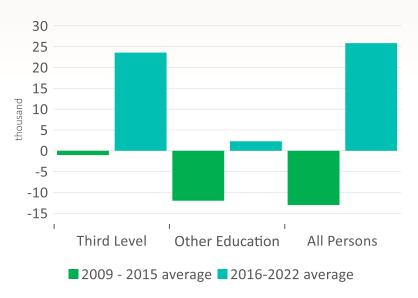
Ireland's net migration has swung back and forth on economic performance

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



Migration inflow particularly strong in highly educated cohort

– work in MNCs attractive



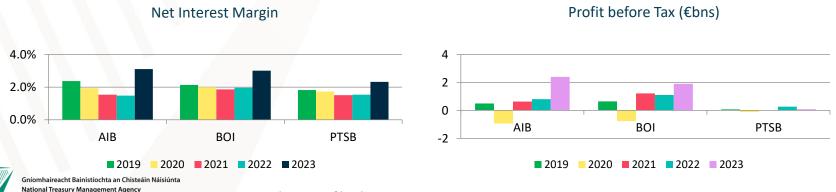
Source: CSO

Source: CSO

## Ireland's Banking Sector Overview

Less competition possible in decade to come

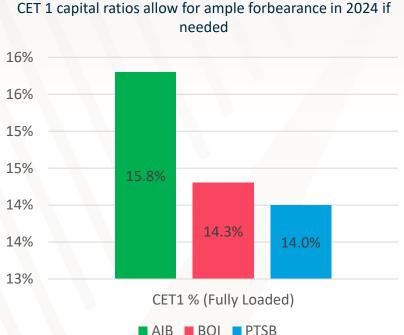
- Banking sector well capitalised with sufficient liquidity buffers
- Banks profitable as net interest margins helped by rising interest rate environment.
- Ulster Bank and KBC both of which have no govt. ownership have left Irish banking market. Reduced competition is main impact.
- The Irish Government 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 2023/24. The Government owned approx. 32.6% of AIB and 57% of PTSB. Sales are likely to be ongoing as government divests from sector.



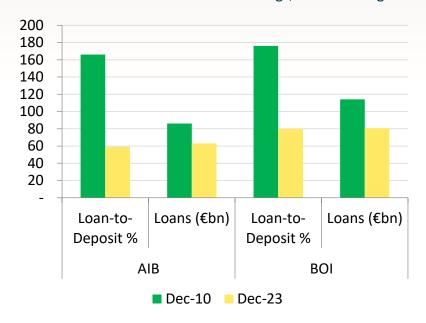
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# **Capital ratios strong**

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



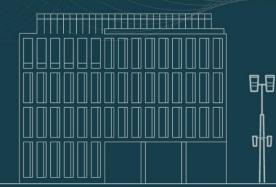


Source: Published bank accounts

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

# Housing

Demand/prices still elevated despite rate hikes and increased building costs

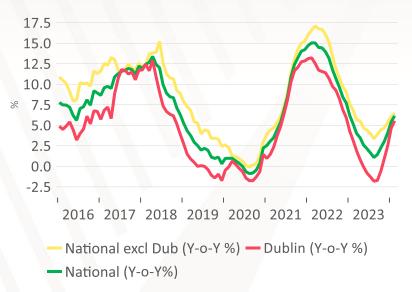




## Prices up in recent years

Supply hampered by the pandemic and inflation (c.40-50k units needed p.a.)

House prices up modestly y-on-y, above previous peak in 2007 – Dublin seeing prices rebound after stalling



#### Transaction volumes have started to slow following ECB rate hikes





Source: CSO

## Supply outlook better than expected

Stronger supply in 2023 with government assistance a key driver

New Dwellings Completions\* exceeded 30,000 units threshold in 2023, pipeline suggest further increase in 2024



Pricing of new dwellings vs. existing dwellings impacted by Covid squeeze on new units + govt. action recently







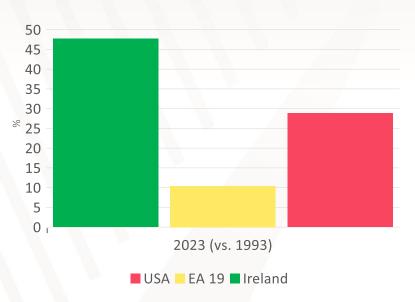


<sup>\*</sup> Housing completions derived from electrical grid connection data for a property. Reconnections of old houses overstate the annual run rate of new building (all connections in graph).

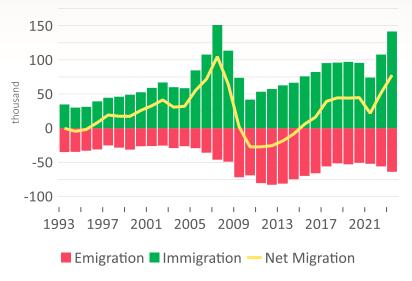
## **Demand is strong**

#### National population increase alongside net migration fuelling demand





#### Increased net migration given economy and refugees from Ukraine add demand for housing





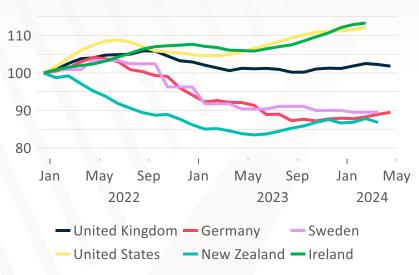
Source: CSO



## House prices remain resilient amid hikes

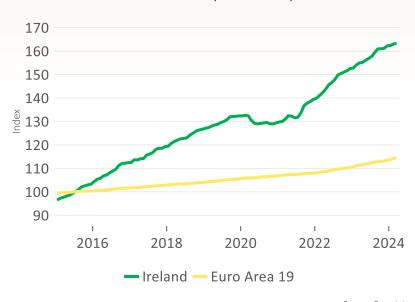
Demand has ensured prices and rents have increased

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



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

Rents pressures remain strong with a y-on-y increase of 6.2% in December (2015 = 100)



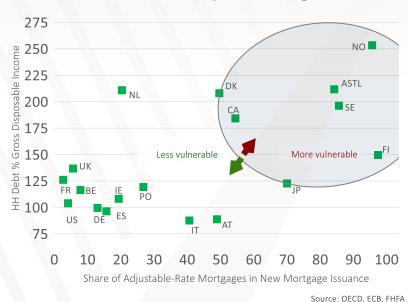
Source: Eurostat



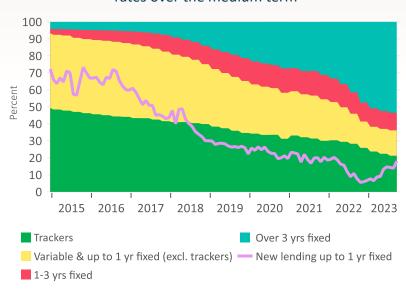
# Ireland less vulnerable to rising interest rates

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



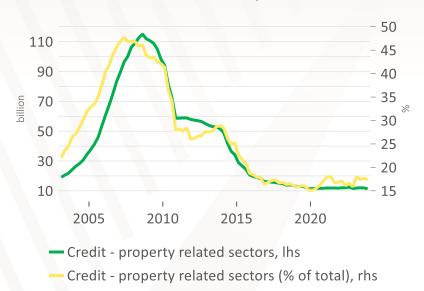
Source: Central Bank of Ireland



#### CRE risks are not outsized in Ireland

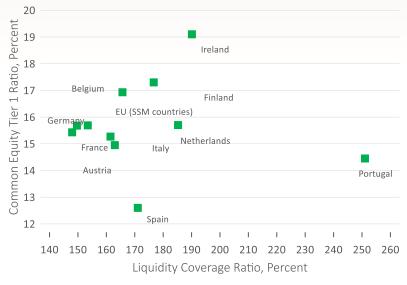
Cre under structural strains in Europe but Ireland is not uniquely threatened

#### Property related credit exposure in Irish banking system is low historically



Source: Central Bank of Ireland

#### Banking ratios show capacity to deal with NPLs if needed





Source: ECB

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