



The Irish Economic Update

Continuing Strong Performance

July 2018

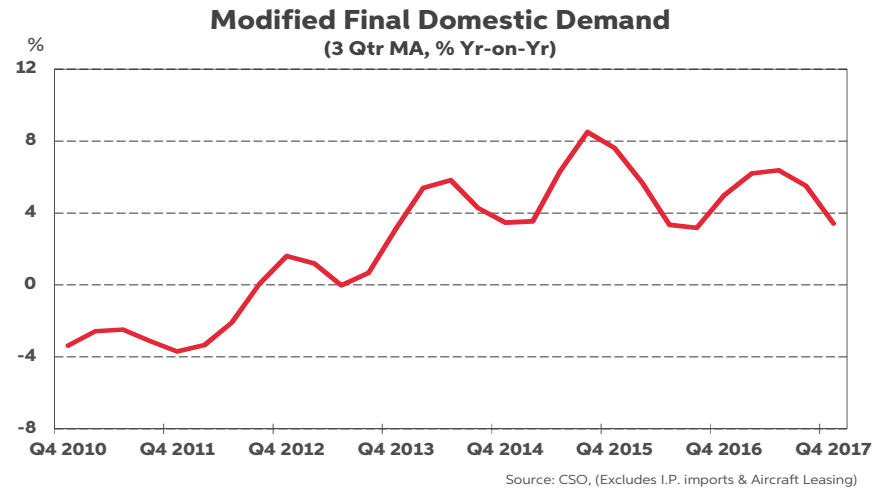
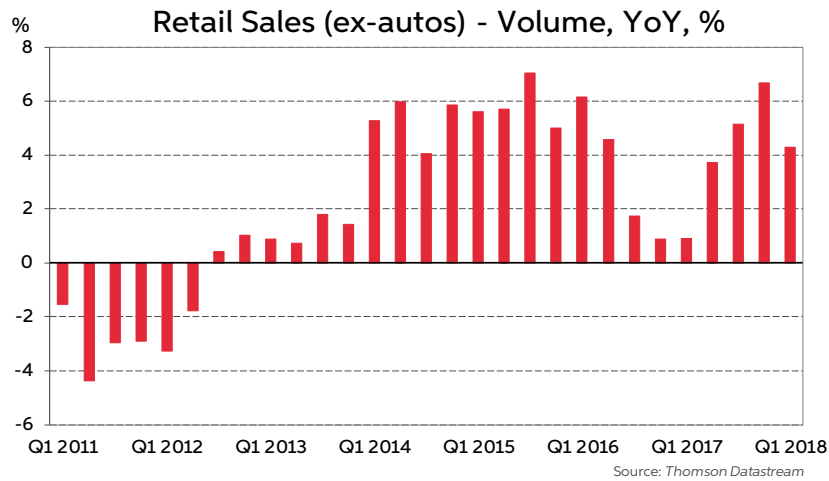
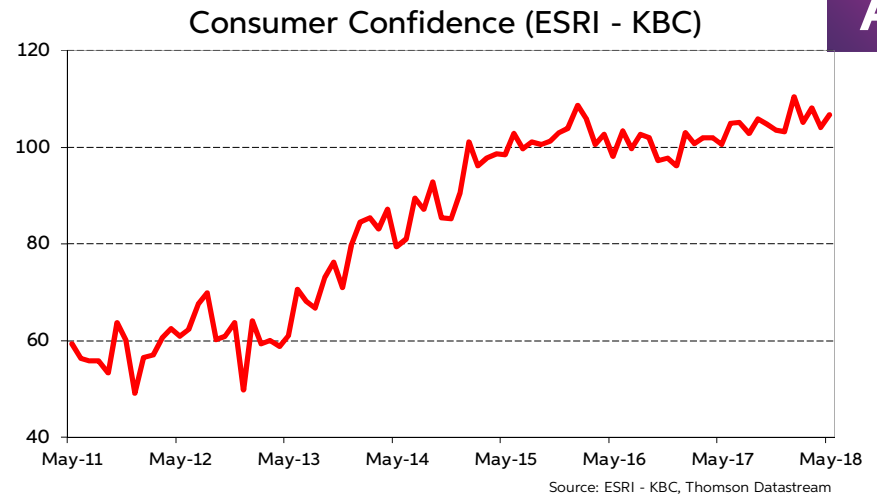
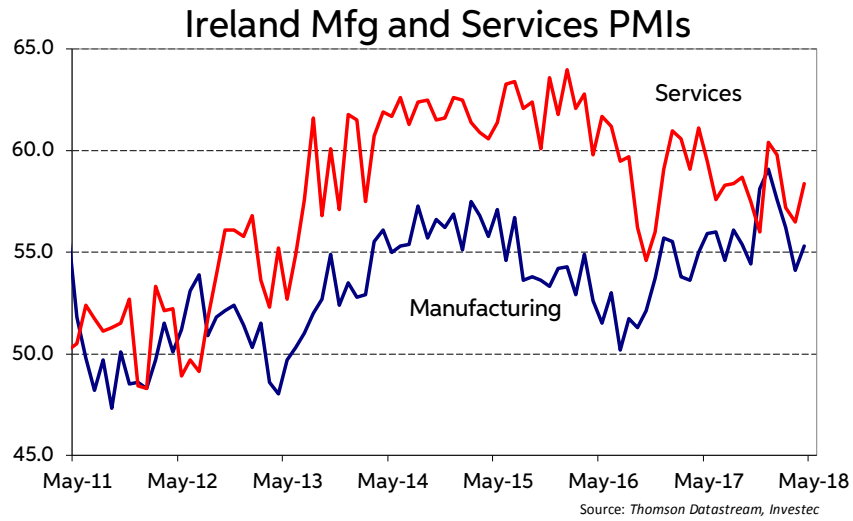
Oliver Mangan
Chief Economist
AIB

Strong recovery by Irish economy since 2013



- Irish economy boomed from 1993 to 2007 with GDP up by over 250% – Celtic Tiger
- Very severe recession in Ireland in 2008-2009. GDP fell by 8.5% and GNP down 11%
- Collapse in construction activity and banking system, severe fiscal tightening, high unemployment. Ireland entered a 3 year EU/IMF assistance programme from 2010-2013
- GDP at end of 2008-09 recession was still over 25% higher than in 2001, highlighting that the economic crash came after a long period of very strong growth, unlike in other countries
- Ireland tackled its problems aggressively in the public finances, banking sector and property market. Imbalances in economy unwound – housing, debt levels, competitiveness, BoP
- Ireland focused on generating growth via its large export base as the route to recovery
- Economy rebounded strongly over 2013-17 – underlying growth averaged 4.4% for the period
- Domestic economy has recovered strongly, led by rebound in investment and retail spending
- Strong jobs growth. Unemployment rate fell from 16% in early 2012 to 5.3% by May 2018
- Budget deficit has declined at a quicker than expected pace. Down to 0.3% of GDP in 2017

Economic indicators remain upbeat in early 2018



Economy continues to perform strongly in 2018



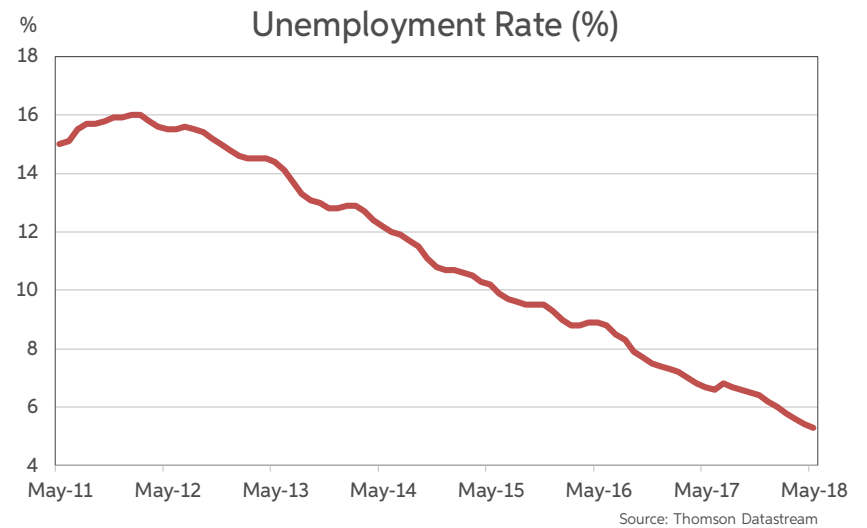
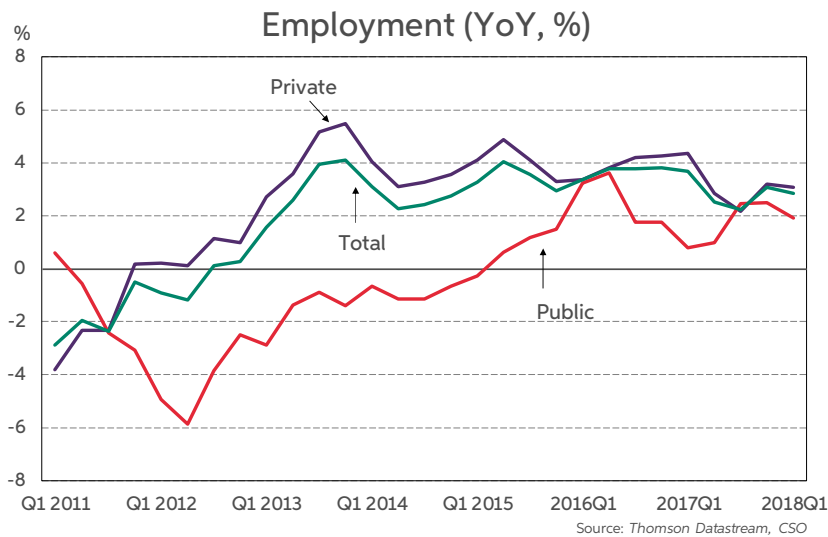
- Modified final domestic demand grew by 4.1% in 2017 after 4.6% growth in 2016
- Mfg PMI remains high in 2018 – at 55.4 in May and 55.3 in April
- Services PMI also very strong to date in 2018 – at 59.3 in May and 58.4 in April
- Continuing very high construction PMI – at 61.8 in May and 60.7 in April
- Consumer confidence at very robust levels in H1 2018 – highest in 17 years
- Retail sales (ex-motor trade) rise 4.5% yoy in Jan-May 2018 – stronger rate than in 2016 & 2017
- Total car regs (new + used imports) steady at high level in H1 2018 – surged over 2014-17
- Further strong rise in housing completions in Q1 2018 – up 27% yoy
- Mortgage lending rose by 22% yoy in value terms in Q1 2018, after rising by 29% in 2017
- Continuing strong job growth – employment rose by 2.9% yoy in Q1 2018
- Live Register continues its sharp decline in 2018. Jobless rate down to 5.3% by May.
- Budget deficit fell to 0.3% of GDP in 2017. Solid H1 2018 figures - taxes up 5% yoy to May

Robust jobs growth; unemployment falls sharply



| Year Average | 2015 | 2016 | 2017 | 2018(f) | 2019(f) | 2020(f) |
|---|------|------|------|---------|---------|---------|
| Unemployment Rate % | 10.0 | 8.4 | 6.8 | 5.4 | 4.8 | 4.4 |
| Labour Force Growth % | 1.2 | 1.9 | 1.1 | 1.4 | 1.6 | 1.6 |
| Employment Growth % | 3.5 | 3.7 | 2.9 | 2.8 | 2.3 | 2.0 |
| Net Migration : Year to April ('000) | 5.9 | 16.2 | 19.8 | 25.0 | 30.0 | 35.0 |

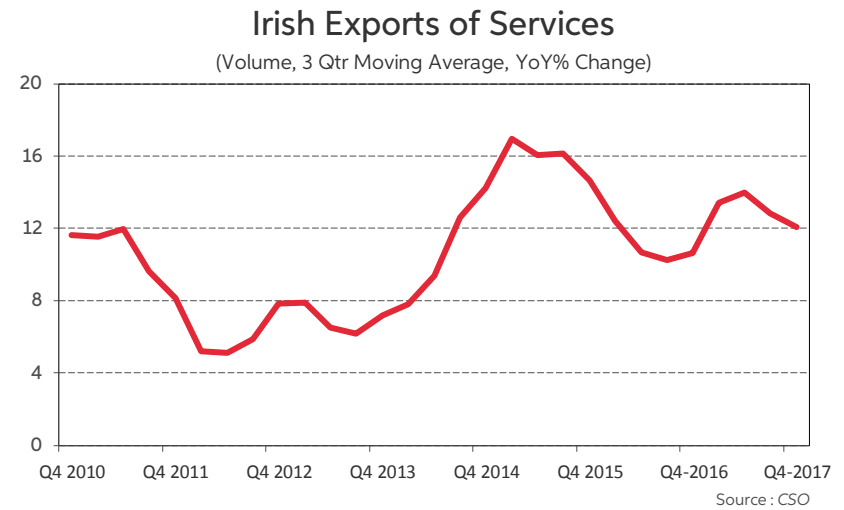
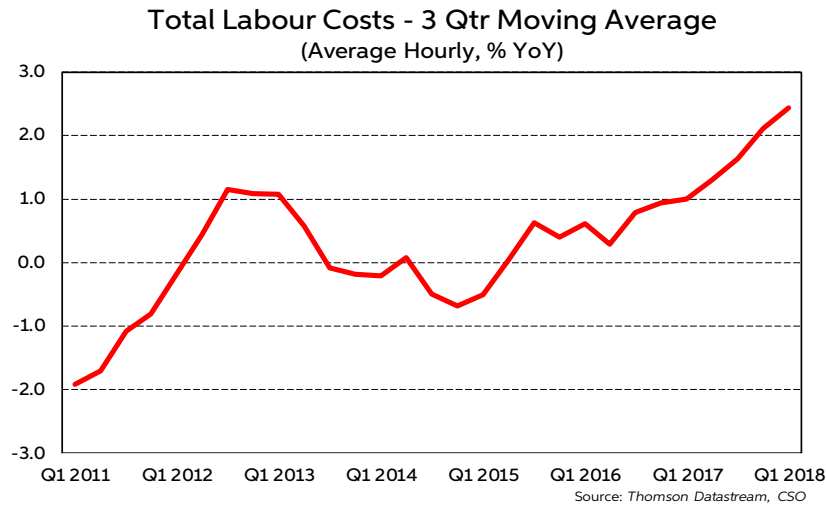
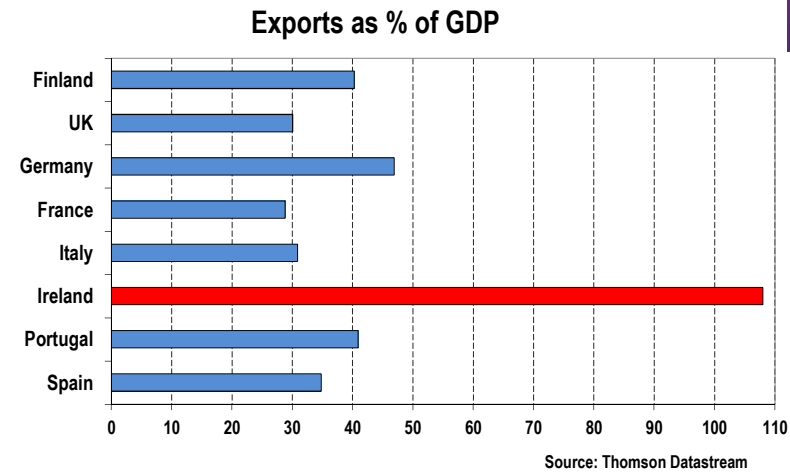
Source: CSO and AIB ERU forecasts



Large Irish export base performing very well



- Ireland a very open economy – exports, driven by huge FDI, equate to well over 100% of GDP
- Major gains in Irish competitiveness in past decade - weakening of euro in 2014/15 helpful
- Exports have risen strongly, helped by large FDI inflows and recovery in global economy
- Sterling’s sharp fall a challenge for exports to UK but total exports still up by circa 7% in 2017



FDI and the Irish economy



WHAT ATTRACTS FDI TO IRELAND?

- Access to European markets
- Low corporate tax rate of 12.5%
- English speaking country
- Well educated, flexible workforce
- Common law legal system
- Stable political framework
- Long history of successful FDI
- Access to decision makers

KEY FDI IMPACTS ON THE IRISH ECONOMY

- 1,200 multinational companies
- €150bn Exports (64% of Irish exports)
- 200,000 Jobs in FDI, 340,000 in total
- 70% of Corporation Tax
- €8.7bn Spending on Irish services/materials
- €10bn in Payroll
- 67% of Business R&D expenditure

WORLD LEADERS CHOOSE IRELAND

- 8 of the top 10 in ICT
- 9 of the top 10 in Pharmaceuticals
- 17 of the top 25 in Medical Devices
- 3 of the top 5 Games companies
- 10 of the 'top born on the Internet' firms
- More than 50% of the world's leading Financial firms
- UK becoming less attractive for FDI owing to Brexit

US TAX CHANGES SHOULD NOT HIT FDI

- US firms have well established operations here
- Need highly skilled, multi-lingual workforce
- Firms do not move Ireland to avoid US tax
- Ireland is base to service their European markets
- Easier to operate in local rather than US time zone
- Still wide gap between US & Irish corporate tax rates

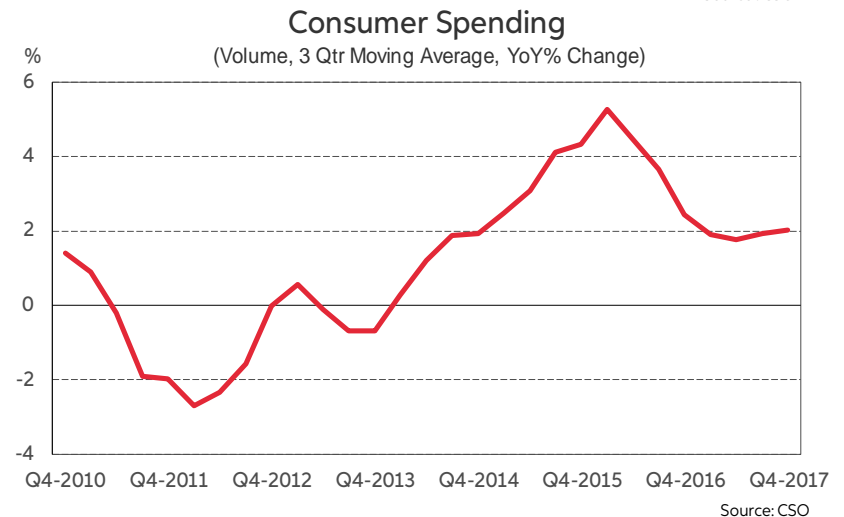
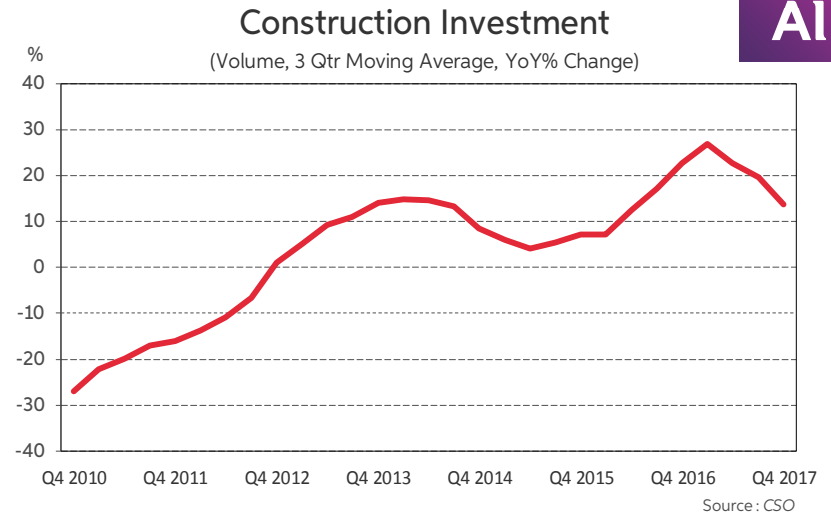
Many top global companies have big operations in Ireland



Strong recovery by domestic economy in place since 2013



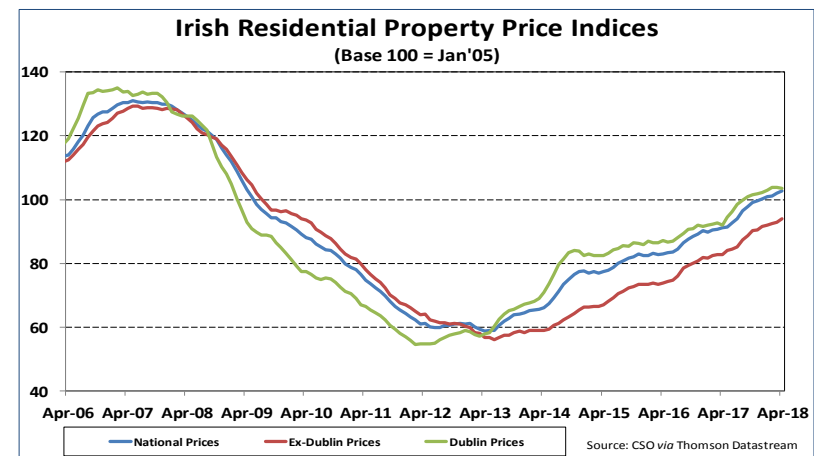
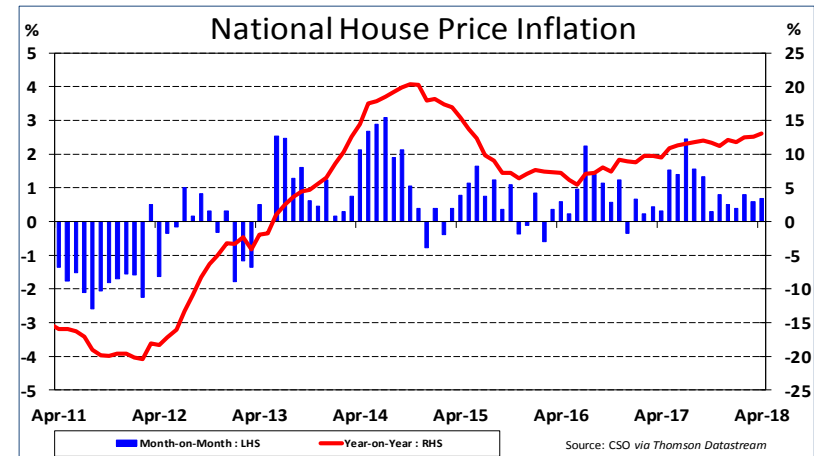
- Domestic economy contracted by 20% in period from 2008-2012, with particularly big fall in construction
- Construction has seen good recovery since 2013, with output up 15% in 2016 and 17% in 2017
- Core business investment (ex aircraft/intangibles) grew by average 22% in 2012-2016. Fell back in 2017
- Consumer spending grew by 3.2% on average over 2014-2016 period and up by 1.9% in 2017
- Core retail sales (i.e. ex-autos) rose by 4.1% in 2017 after 3.3% growth in 2016.
- Core retail sales up by strong 4.5% yoy in Jan-May 2018
- Total car regs (new + used imports) steady at high level in H1 2018, having surged over 2014-17 period
- Modified final domestic demand (excludes IP imports and aircraft leasing) up 4.1% in 2017 & 4.6% in 2016



House prices rising strongly as big supply shortage persists



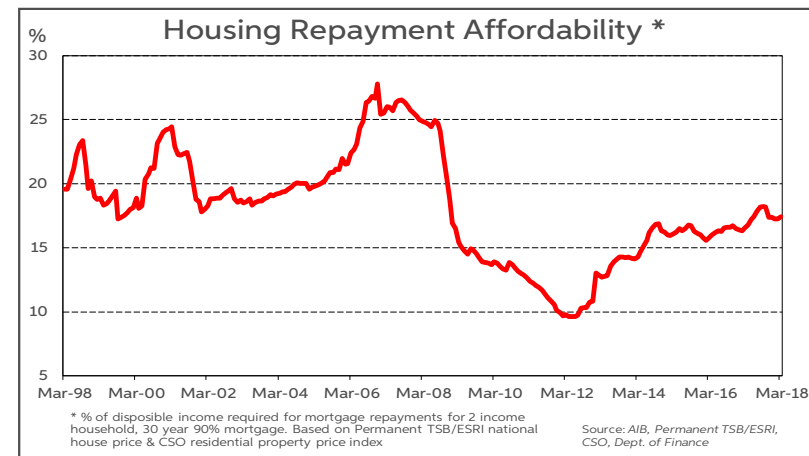
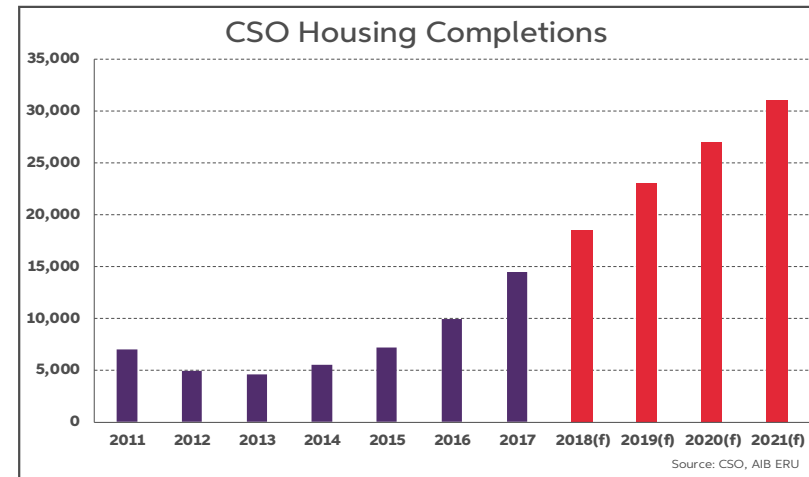
- House prices declined by a very sharp 55% between their peak in late 2007 and early 2013
- House prices have since rebounded as big housing shortage emerged after 90% fall in house building
- Supply overhang eliminated with little stock for sale
- Prices up 76% by April 2018 from low in March 2013
- Dublin prices up by 90% from their trough in Feb 2012, while non-Dublin prices have risen by 70%
- House prices nationally are still 21% below their peak levels hit in 2007
- Prices up 13% yoy nationally in April 2018. Dublin up 12.5%, with non-Dublin rising 13.5% yoy
- Rents have also rebounded strongly – now 22 % above previous peak reached in 2008 per CSO data
- Supply shortage and pent-up demand to maintain upward pressure on house prices and rents



House building rising slowly from very low levels



- New CSO data show housing completions increased by 45% to 14,500 in 2017
- Housing commencements rose by 33% in 2017 to 17,500, pointing to continuing rising supply
- Completions rose by 27% yoy in Q1 2018
- Output still running well below annual new housing demand estimated at circa 33,000 units
- Measures put in place to boost new house building. More Local Authority and NAMA building
- Mortgage lending growing strongly: up by 22% yoy in Q1 2018 after rising by 29% in 2017
- Housing affordability hit by rising house prices but helped by low mortgage rates. Still at good levels
- Likely to be 2021 before housing output rises above 30,000 units – or close to estimated annual demand



AIB Model of Estimated Housing Demand



- Rising headship rates added circa 8,000 per year to housing demand in 2002-2011 period
- Shortage of housing, high rents, tighter lending rules saw average household size rise in 2011-16. Thus, headship fell – was a drag of circa 10,000 p.a. on housing demand
- Assume no change in headship in 2016-2020 – note long-term trend is upwards, adding to demand
- Pent-up demand has also built up in recent years from lack of supply
- Thus, forecast table may be under-estimating actual real level of housing demand
- Shortfall in supply met from run down of vacant stock and demand being reduced by fall in headship rate. Both factors very evident in 2011-16 and most likely in 2016-20

| Calendar Year | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------------------------------|----------------|----------------|----------------|----------------|---------------|
| Household Formation | 26,500 | 26,500 | 26,500 | 27,500 | 27,500 |
| <i>of which</i> | | | | | |
| Indigenous Population Growth | 18,000 | 18,000 | 17,000 | 16,500 | 14,500 |
| Migration Flows | 8,500 | 8,500 | 9,500 | 11,000 | 13,000 |
| Headship Change* | 0 | 0 | 0 | 0 | 0 |
| Second Homes | 500 | 500 | 500 | 500 | 500 |
| Replacement of Obsolete Units | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| Estimated Demand | 32,000 | 32,000 | 32,000 | 33,000 | 33,000 |
| Completions | 9,900 | 14,500 | 18,500 | 23,000 | 27,000 |
| Shortfall in Supply | -22,100 | -17,500 | -13,500 | -10,000 | -6,000 |

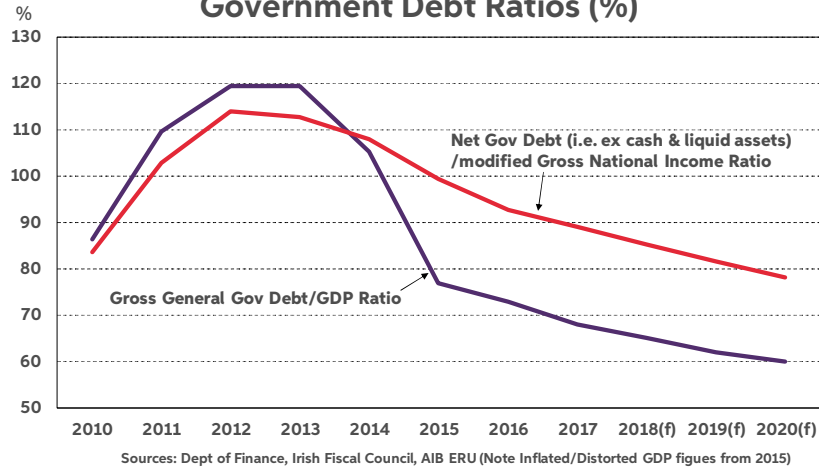
*Headship is % of population that are heads of households.

Sources: CSO, DoECLG, AIB ERU

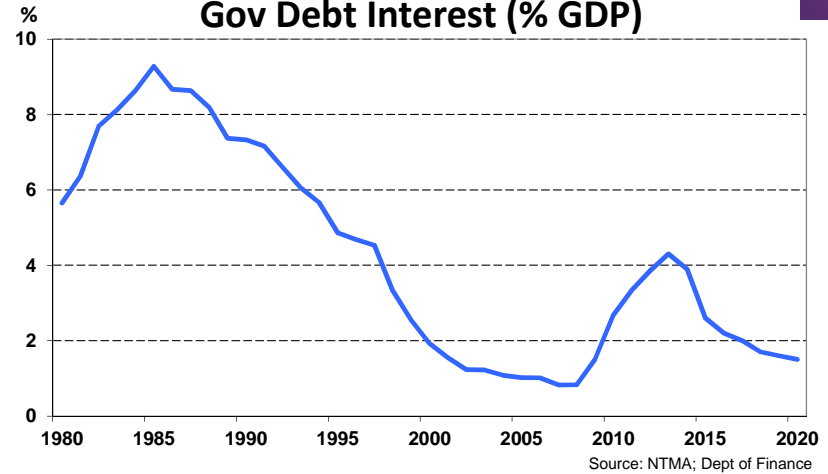
Govt debt ratios fall, private sector deleverages



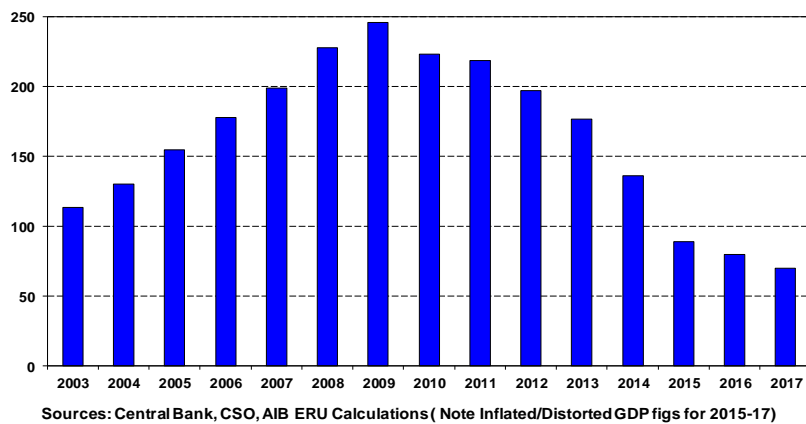
Government Debt Ratios (%)



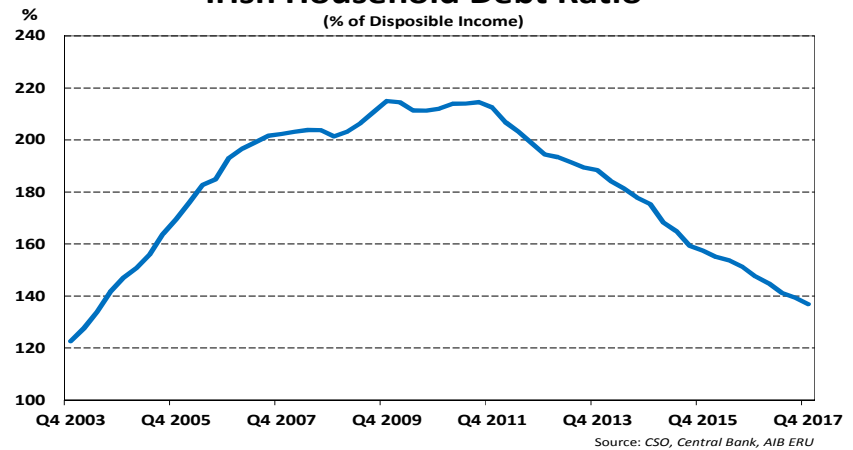
Gov Debt Interest (% GDP)



Irish Private Sector Credit (Inc Securitisations) as % GDP



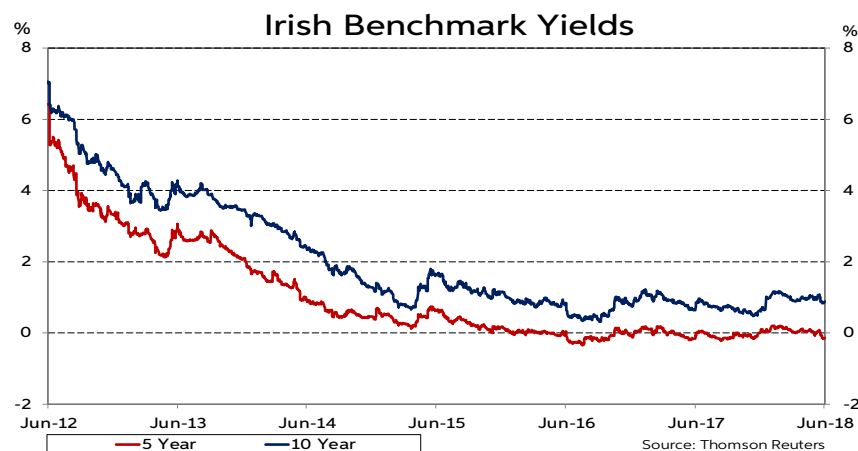
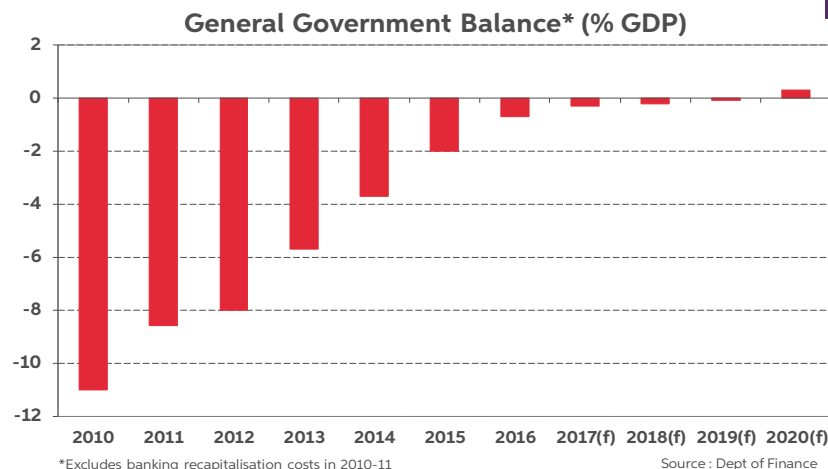
Irish Household Debt Ratio (% of Disposable Income)



Budget deficit falls sharply – now close to balance



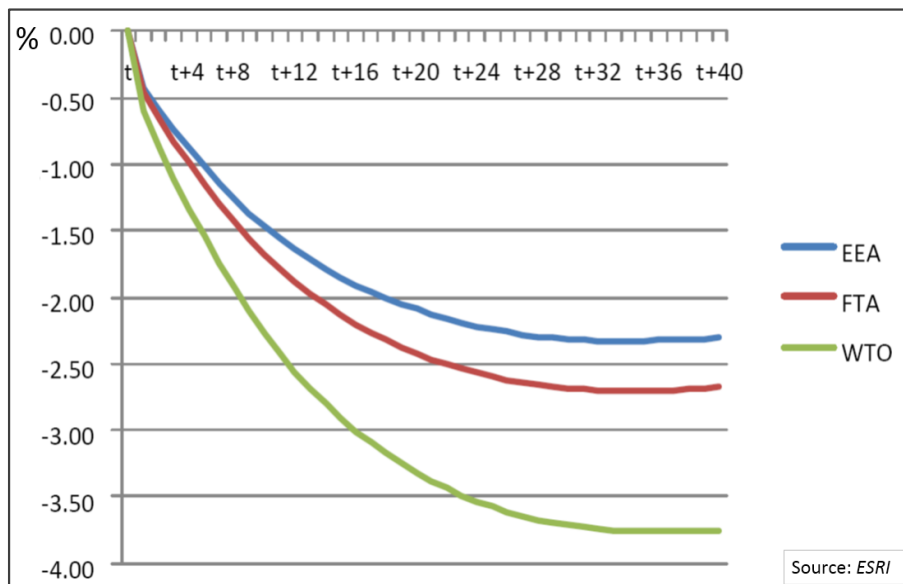
- Some €30bn (18% of GDP) of fiscal tightening implemented in 2008-2014 period
- Budget deficit has fallen sharply over the course of this decade
- The deficit fell to 0.3% of GDP in 2017 and is forecast at 0.2% of GDP for 2018
- Primary budget surplus (i.e. excluding debt interest) of 1.6% of GDP in 2017
- Debt interest costs low – at 2% of GDP in 2017
- Solid start to 2018, with Exchequer finances on target and tax receipts up by 5% to May
- Gross Gov Debt/GDP ratio has fallen sharply
- Irish bonds yields have fallen to very low levels
- Sovereign debt ratings upgraded; S&P have Ireland at A+, Fitch at A+, Moody's A2



Brexit expected to lower growth rate of Irish economy



Impact of Brexit on Output (% deviation from base)



- ESRI estimate that Irish output would be reduced by 2-2.5% on a soft Brexit
- Sharp fall-off in trade with UK likely on a hard Brexit
- Output almost 4.0 % lower over time if there is hard Brexit and a fall back on WTO rules and tariffs
- Employment 2% lower and unemployment rate nearly 2% higher in hard Brexit

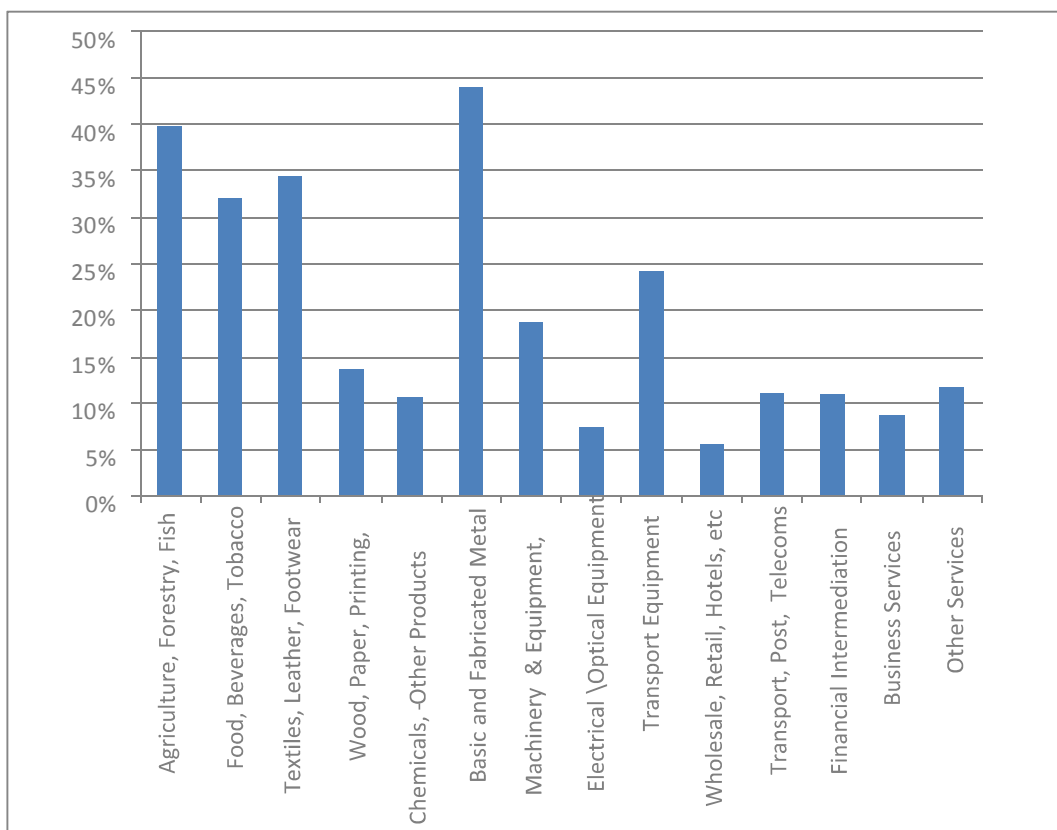
- Copenhagen Economics Report considers costs of regulatory divergence for goods and services and of border checks, as well as tariffs in assessing impact of Brexit
- Estimates impact by 2030 is to reduce Irish GDP by 2.8% under a soft Brexit (EEA), 4.3% in a FTA and 7% in a hard Brexit WTO scenario

Agri. sector would be severely impacted by hard Brexit



Share of Exports by Industry Destined for the UK (ESRI)

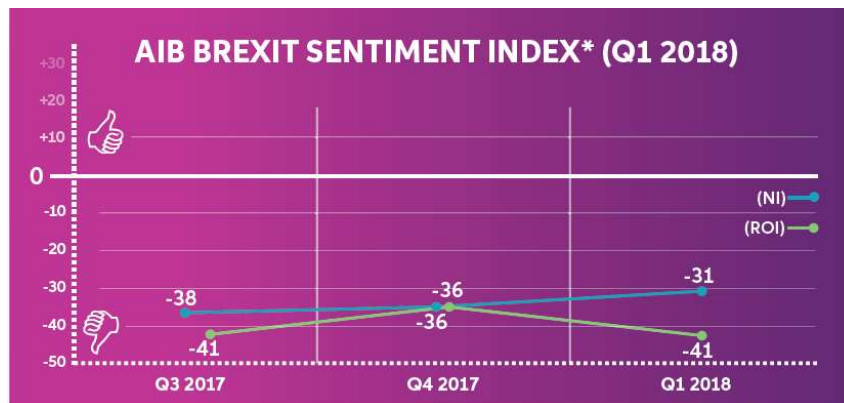
- Main EU tariffs relate to food products, keeping prices up. UK may not maintain these post-Brexit
- Food and Beverages account for 25% of total Irish exports to UK
- Around 40% of Irish food exports go to the UK
- Other sectors very dependent on UK market include machinery and transport, metal products, textiles
- Some 40% of indigenous Irish exports go to UK compared to 10% for foreign owned companies



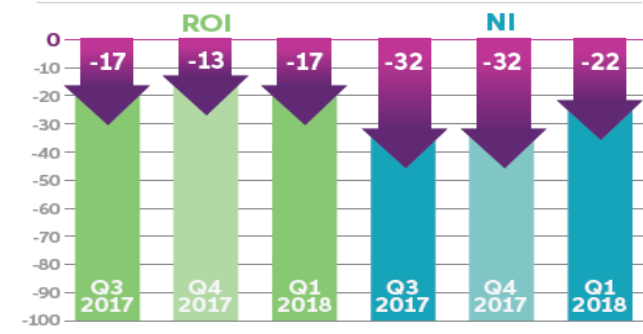
AIB Brexit Sentiment Index – Q1 2018



- A total of **700 SME's (with up to 250 employees)** across the island of Ireland
- Fieldwork (W3) took place between **6th-26th March 2018**.



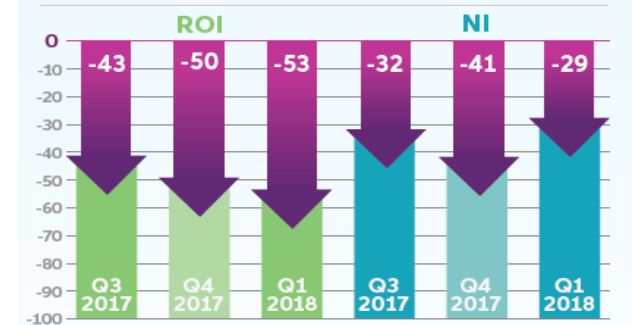
IMPACT ON BUSINESS NOW



Source: Ipsos MRBI

- Brexit is having little impact on businesses now
- SMEs surveyed more concerned about its impact on the future, both on their own business and wider economy
- SMEs operating in the Food & Drink, Manufacturing and Retail sectors most concerned about impact of Brexit

IMPACT ON FUTURE BUSINESS



Source: Ipsos MRBI

Customs proving difficult Brexit issue



- **UK leaving EU**, Single Market and Customs Union in March 2019
- **Transition Period** to end 2020 likely that will avoid disruption after UK leaves while a new free trade deal is being negotiated. No change in current trading arrangements during this period.
- **Withdrawal Agreement** to be completed by autumn to allow for orderly UK departure from EU. Expected to sketch out future trade/customs arrangements and provide for the transition period
- **Arrangements for customs** after transition period ends proving problematic
- **UK Customs suggestions:** ‘a new customs partnership’ (UK acts as EU agent) or else ‘highly streamlined customs arrangements’ (max-fac)
- **Border with Northern Ireland;** all sides say want to avoid hard border but will prove difficult to avoid without similar EU\UK customs arrangements and continuing regulatory alignment
- **Period of uncertainty**, including on NI border, could last until end 2020 when transition period finishes and it is hoped to have concluded an EU/UK free trade deal

Soft Brexit looks increasingly likely

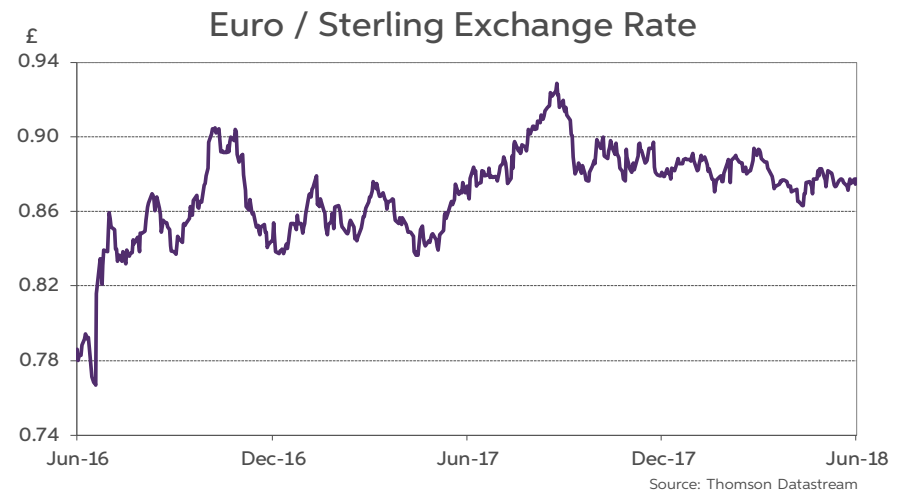
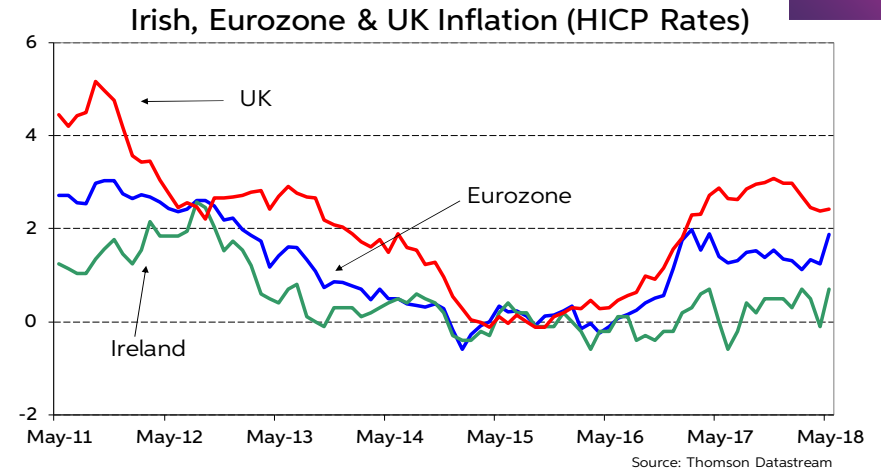


- **Brexit a process;** Brexiteers main objective is to ensure UK leaves the EU next March. See Brexit as a process not a one-day event. Can disentangle UK further from EU over time after Brexit
- **Brexiteers will not want** to bring down government over a soft Brexit and risk UK not leaving EU in March or Labour taking power and delivering a very soft Brexit
- **UK Parliament;** large majority favour a soft Brexit. ‘No deal’ outcome could well be blocked
- **Policy preferences point to Soft Brexit:** UK wants to stay part of EU regulatory agencies and EU standards systems – would help maintain regulatory alignment
- **NI backstop:** PM looked to extend NI backstop to whole of UK – stay in a customs union?
- **No Planning for Hard Brexit:** UK has not moved to prepare for a hard Brexit – no move to set up its own regulatory agencies, customs arrangements etc
- **But hard Brexit cannot be ruled out,** given uncertain political backdrop in the UK and delays in the negotiations in recent months

Irish growth expected to remain strong



- Strong growth by Irish economy continuing in 2018
- Construction picking up from still low output levels
- Budgetary policy turns mildly expansionary
- Activity supported by low interest rate environment
- FDI strong despite concerns on corporate tax
- Very low Irish inflation, well below that of the Eurozone and especially the UK
- Global economy, including the Eurozone, has picked up momentum, helping Irish exports
- However, Brexit is a challenge for the economy
- Sharp fall in sterling impacts exports to UK, tourism from UK, Irish firms competing with UK exports
- GDP growth forecast at 4-4.5% for 2018-19
- ESRI estimates long-term growth rate of economy at around 3.25% in the period 2020-2025



AIB Irish Economic Forecasts



| <i>% change in real terms unless stated</i> | 2016 | 2017 | 2018 (f) | 2019 (f) | 2020 (f) |
|---|------------|------------|------------|------------|------------|
| GDP | 5.1 | 7.8 | 4.5 | 4.0 | 3.5 |
| GNP | 9.6 | 6.6 | 4.2 | 3.7 | 3.2 |
| Personal Consumption | 3.3 | 1.9 | 2.7 | 2.5 | 2.5 |
| Government Spending | 5.3 | 1.8 | 2.0 | 2.0 | 2.0 |
| Fixed Investment | 61.2 | -22.3 | 8.0 | 7.0 | 6.0 |
| Core Fixed Investment* | 13.6 | 5.7 | 8.0 | 7.0 | 6.0 |
| Exports | 4.6 | 6.9 | 5.0 | 4.5 | 4.3 |
| Imports | 16.4 | -6.2 | 5.0 | 4.5 | 4.5 |
| HICP Inflation (%) | -0.2 | 0.2 | 0.8 | 1.2 | 1.5 |
| Unemployment Rate (%) | 8.4 | 6.8 | 5.8 | 5.3 | 4.8 |
| Budget Balance (% GDP) | -0.5 | -0.3 | -0.2 | -0.1 | 0.2 |
| Gross General Gov Debt (% GDP) | 72.8 | 68.0 | 65.0 | 62.0 | 60.0 |

*Excludes investment in aircraft and intangibles

Source: CSO, AIB ERU Forecasts

Risks to the Irish economic recovery



- Main risks to Irish recovery no longer internal but external, in particular Brexit
- Brexit major issue for Ireland given its strong trading links with UK and sharp fall by sterling
- Uncertain external environment with growing downside risks to global growth from increasing protectionism/tariffs, tightening monetary conditions, problems in some emerging economies
- Questions around Irish corporation tax regime (Apple ruling, moves on tax harmonisation in EU, cuts in US/UK rates) could impact FDI. Note that Ireland retains right to set its own tax rates
- Supply constraints in new house building activity, which is recovering at a slow pace with output still at very low levels
- Competitiveness issues - high Dublin house prices, high rents, high personal taxes
- Credit constraints – tighter lending rules, on-going deleveraging

Note: All Irish data in tables are sourced from the CSO unless otherwise stated. Non-Irish data are from the IMF, OECD and Thomson Financial. Irish forecasts are from AIB Economic Research Unit. This presentation is for information purposes and is not an invitation to deal. The information is believed to be reliable but is not guaranteed. Any expressions of opinions are subject to change without notice. This presentation is not to be reproduced in whole or in part without prior permission. In the Republic of Ireland it is distributed by Allied Irish Banks, p.l.c. In the UK it is distributed by Allied Irish Banks, plc and Allied Irish Banks (GB). In Northern Ireland it is distributed by First Trust Bank. In the United States of America it is distributed by Allied Irish Banks, plc. Allied Irish Banks, p.l.c. is regulated by the Central Bank of Ireland. Allied Irish Bank (GB) and First Trust Bank are trade marks used under licence by AIB Group (UK) p.l.c. (a wholly owned subsidiary of Allied Irish Banks, p.l.c.), incorporated in Northern Ireland. Registered Office 92 Ann Street, Belfast BT1 3HH. Registered Number NI 018800. Authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. In the United States of America, Allied Irish Banks, p.l.c., New York Branch, is a branch licensed by the New York State Department of Financial Services. Deposits and other investment products are not FDIC insured, they are not guaranteed by any bank and they may lose value. Please note that telephone calls may be recorded in line with market practice.