Path for the Public Finances Conference Irish Fiscal Advisory Council Dublin, 22 February 2019

## AGEING PRESSURE ON PUBLIC FINANCE

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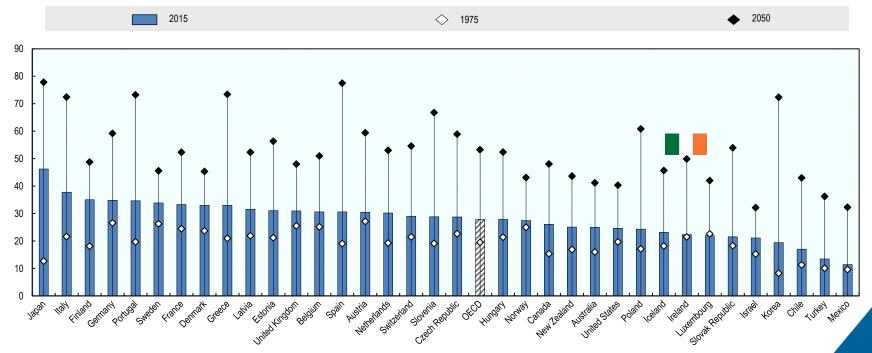


## Outline

- Pace of ageing
- Pension indicators
- Demographic and effective dependency ratios
- Pension expenditure projections
- Employment rates and effective retirement ages

### Population ageing will accelerate in most countries and start in Ireland

Number of people aged 65+ per 100 people of working-age (20-64)



Source: United Nations - World Population Prospects: The 2017 revision.



### Scoreboard

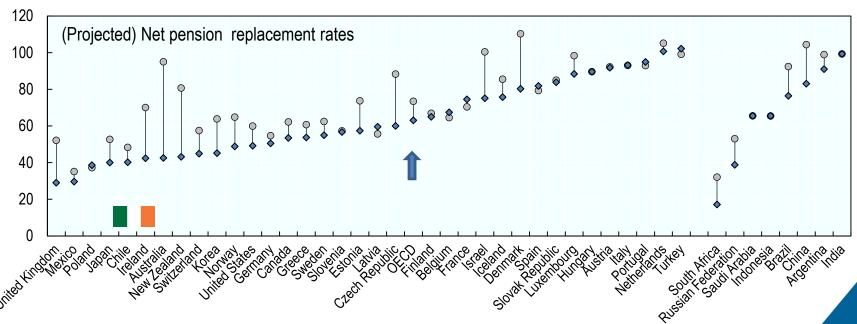
Ireland average min max measure

Average income of 65+ % of average income of total population	89%	88%	67% (EST)	103% (FRA) % of average income of total population
Relative old-age poverty rate less than 50% median income for total pop	6.8%	12.5%	3.2% (DNK)	46% (KOR) less than 50% median income for total pop
Old-age safety-net level % average wage	32%	21%	5% (KOR)	40% (NZL) % average wage
Current average old-age benefit ratio 2016	29%	45%	27% (LVA)	60% (ITA) 2016
Future average old-age benefit ratio 2070	28%	33%	13% (LVA)	56% (LUX) 2070
Future full-career average-wage net replacement rate cohort born in 1996	42%	66%	29% (GBR)	102% (TUR) cohort born in 1996

Source: IDD database (OECD), Ageing Report, OECD pension model, Pensions at a Glance

# Ireland: flat-rate mandatory pensions and replacement rates

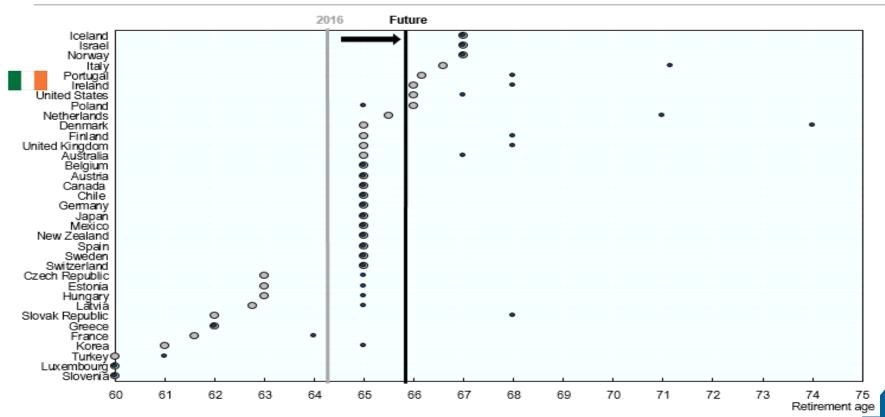
Net projected pension replacement rates from mandatory schemes for low- and average-income earners • Low earner (50% AW)



Source: OECD (2017) – Pensions at a Glance Figure 1.8.

## >>

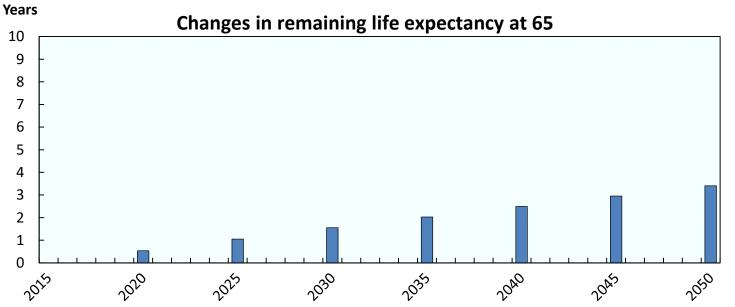
#### **Normal retirement age** *full career from age 20 for men in the private sector*



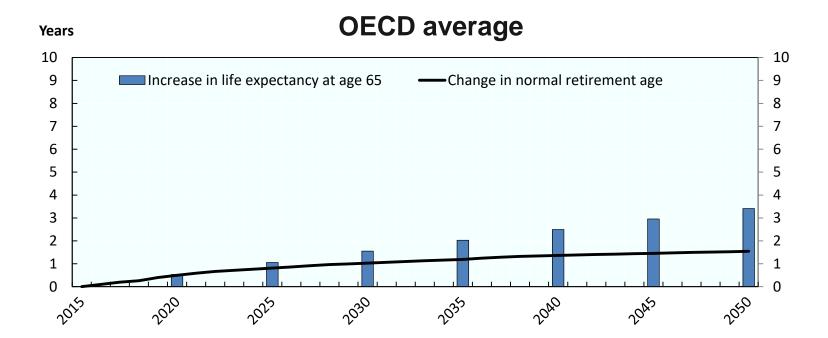
Source: OECD (2017) – Pensions at a Glance: OECD and G20 indicators.

## Longevity is expected to keep increasing

**OECD** average

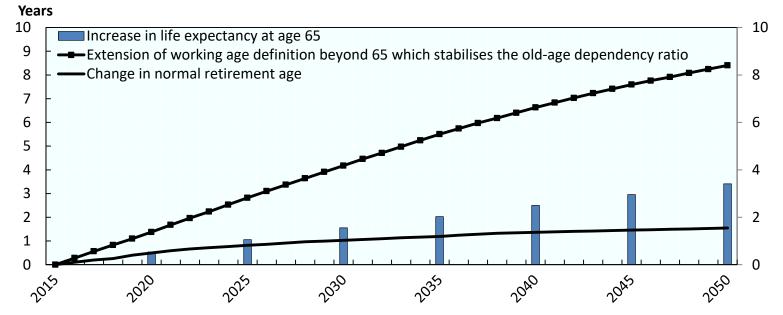


### Legislated increases in retirement ages are lagging behind after 2030



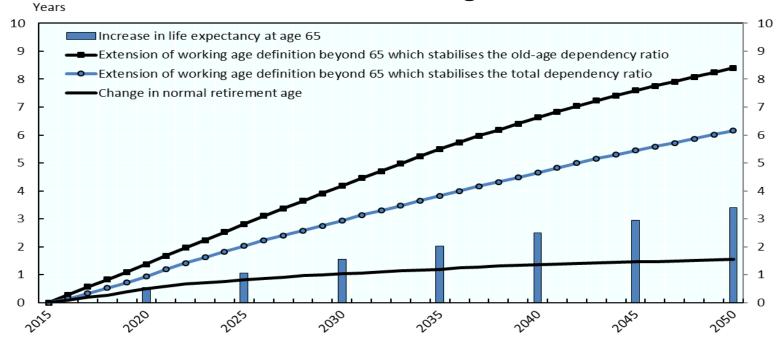
### They will not be sufficient by far to prevent oldage dependency ratios from rising

#### **OECD** average

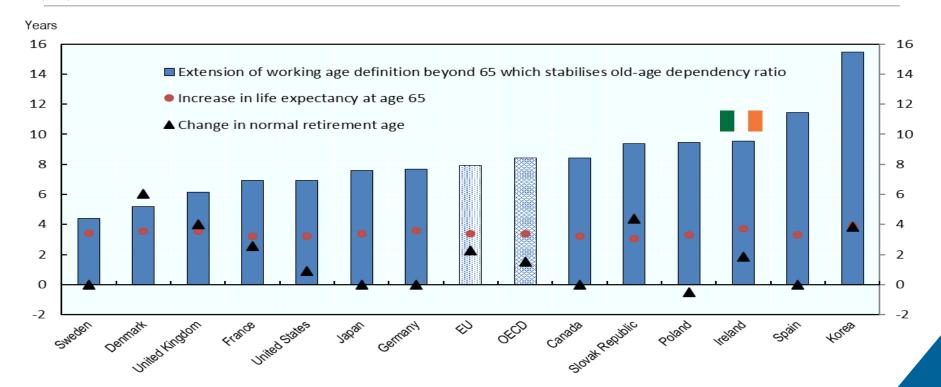




#### Total dependency ratio and old-age dependency ratio OECD average

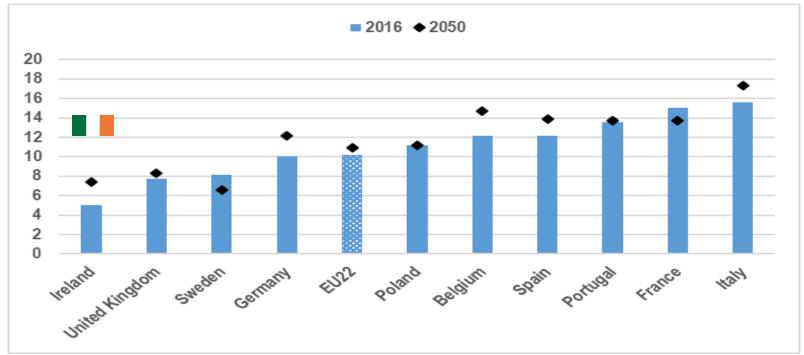


## Huge differences across countries, 2015-2050



## Ageing and projected pension expenditure

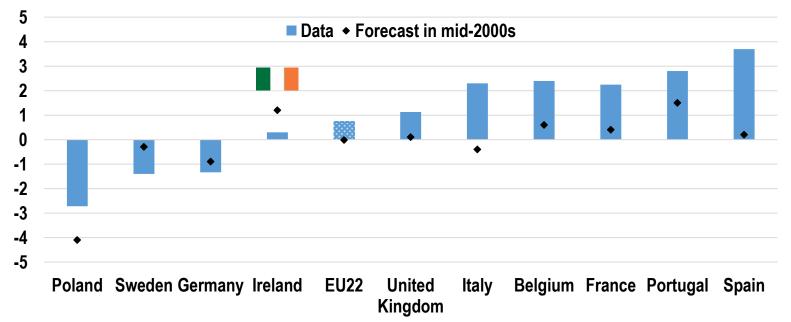
#### Public expenditures on pensions (in % of GDP)



Note: Projections assume no further policy changes in the projection period. Source: European Commission – Ageing Report 2018.

# Past projections were too optimistic among countries which spend more

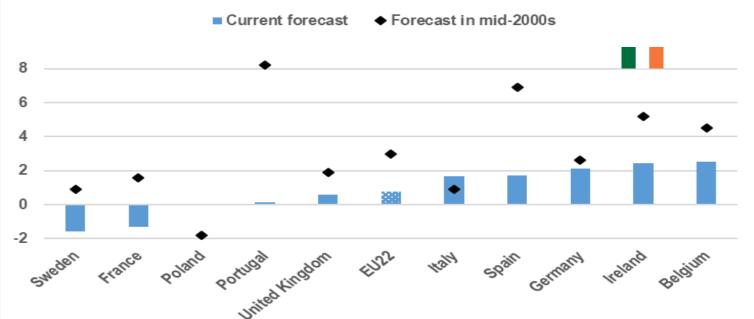
Increase in public expenditures since the mid-2000s (in percentage points of GDP)



Note: Projections assume no further policy changes in the projection period. Source: European Commission – Ageing Report 2018 and special report 1/2006 of DG for Economic and Financial Affairs

## Future projections have been revised down: Impact of reforms or persistent optimism?

#### Increase in public expenditures in 2016-2050 (in percentage points of GDP)



Note: Projections assume no further policy changes in the projection period. Source: European Commission – Ageing Report 2018 and special report 1/2006 of DG for Economic and Financial Affairs



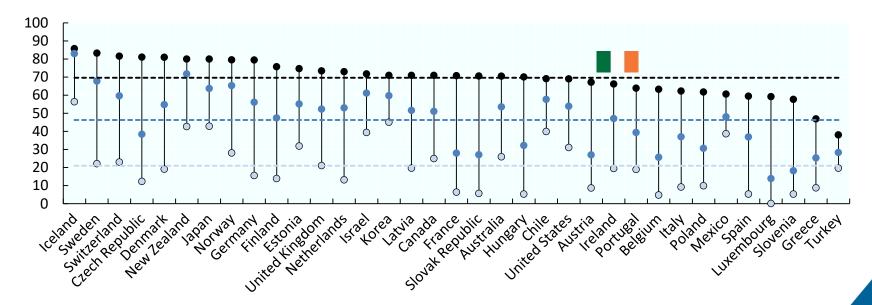
## **Simple arithmetic**

$$\frac{pension\ expenditure}{GDP} = \frac{p\ R}{GDP} = \frac{p\ R}{w\ L} * \frac{wL}{GDP} = \frac{p\ }{w}\ \frac{R}{L} \quad s_L$$
$$= \frac{p}{w}\ \frac{R}{65+}\ \frac{65+}{20-64}\ \frac{20-64}{L}\ s_L$$
$$= average\ benefit\ ratio\ * \frac{R}{65+}\ *\ OADR\ *\ \frac{20-64}{L}\ *\ s_L$$

# The fall of employment rates with age differs substantially across countries

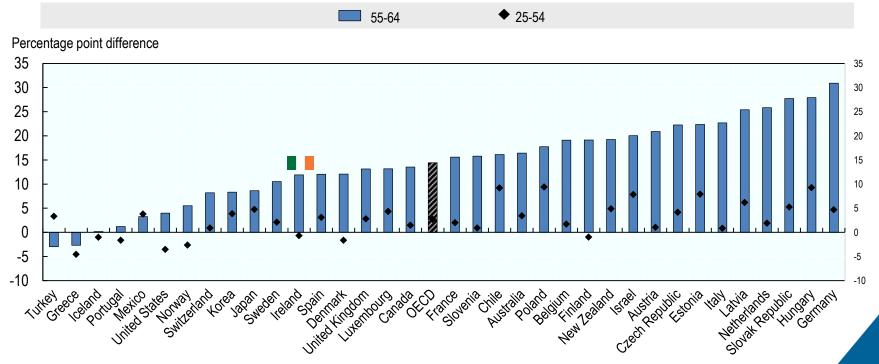
Employment rates of workers aged 55-59, 60-64 and 65-69, 2016





# Employment growth was strong for older age groups in recent decades

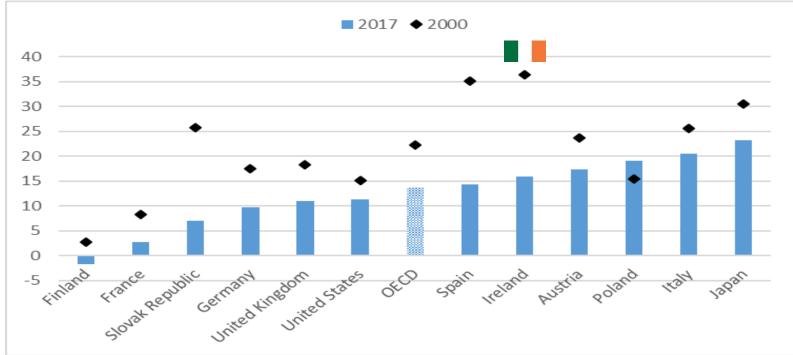
Change in employment rates, 2000-2016, percentage points



Source: OECD (2017) - Preventing Ageing Unequally [see Figure 1.13] based on OECD Education Database.

## ... in particular for women

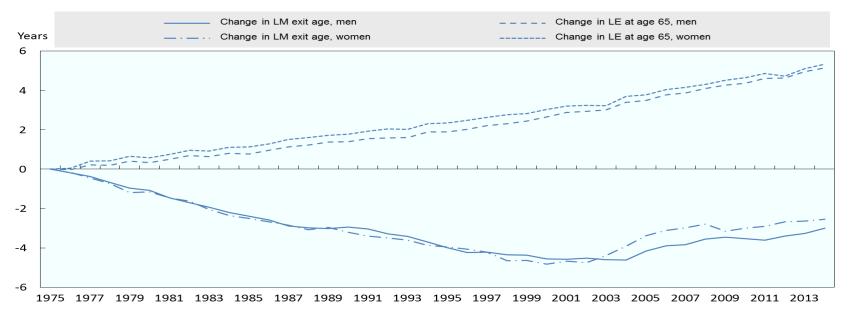
Gender gap in employment rates at ages 55-64, percentage points



Source: OECD (2017) - Preventing Ageing Unequally [see Figure 1.13] based on OECD Education Database.

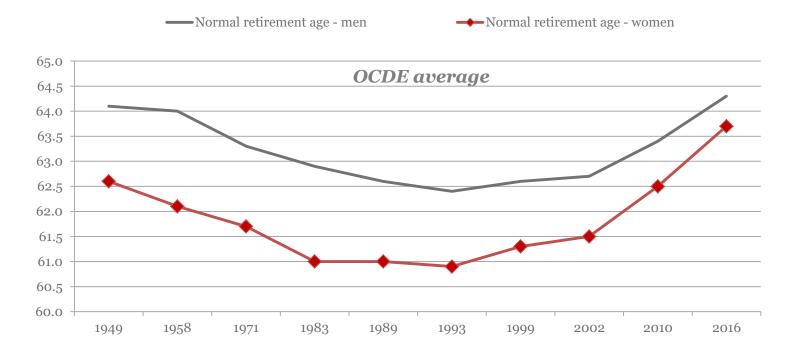
## Longer retirement periods but labour market exit ages stopped declining 20 years ago

Changes in life expectancy at age 65 and in the average age of labour market exit since 1975, in years, OECD average



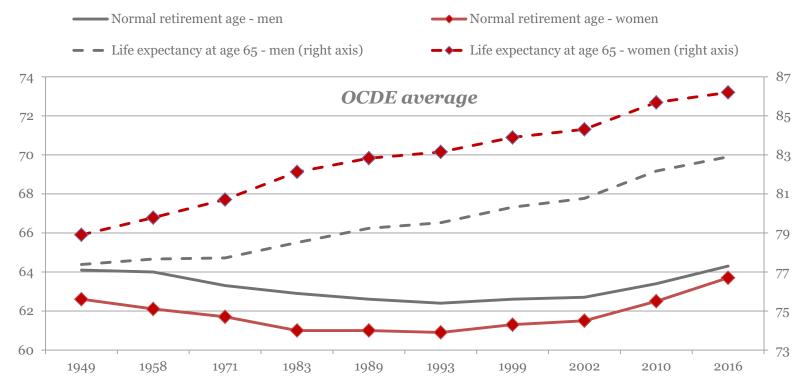
Source: OECD calculations. Labour market exit age data are based on the results of national labour force surveys, the European Union Labour Force Survey and, for earlier years in some countries, national censuses. Life expectancy data stem from OECD Health Statistics and are based on Eurostat data and national sources.

# On average, the normal retirement age (men) is back at its 1950 level ...



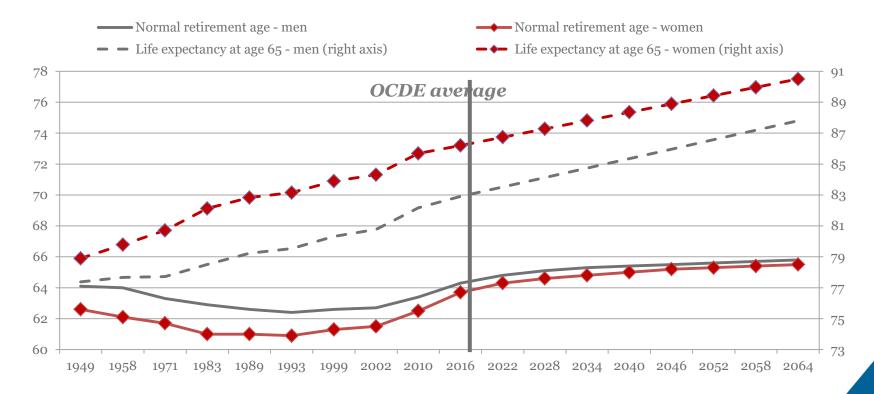
Source: OECD - Pensions at a Glance 2005-2017.

# ... but life expectancy at age 65 increased by 6 - 7 years



Source: United Nations (2017) - World Population Prospects, and OECD - Pensions at a Glance 2005-2017.

## Expected gains in life expectancy and legislated change in normal retirement ages



Source: United Nations (2017) - World Population Prospects, and OECD - Pensions at a Glance 2005-2017.

## Conclusion

- Population ageing will start at a fast pace in Ireland
- Effective dependency ratios will rise, driving up pension expenditures
- Fiscal space and political choice
- Raising legal retirement ages is important but not enough
- Improving employment is crucial



OECD



OECD

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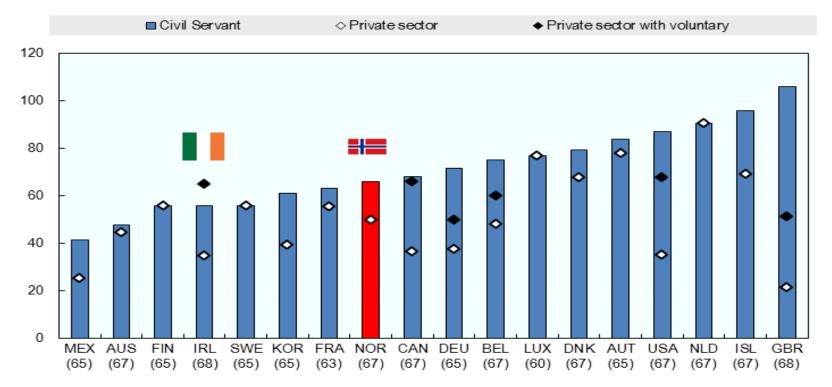


## Civil-servants have a top-up component beyond the mandatory scheme for private-sector workers in Ireland

Fully integrated	Separate but similar benefits	Fully integrated with top-up	Entirely separate
Chile (1981)	Finland (1995)	Australia	Belgium
Czech Republic	Luxembourg (1999)	Austria (2004, 2009)	France
Estonia	Netherlands	Canada	Germany
Greece (2011)	Sweden	Denmark	Korea
Hungary		Iceland	
Israel (2002)		Ireland (1995)	
Italy (1995/2008)		Mexico (2007)	
Japan (2015)		Norway	
Latvia		United Kingdom	
New Zealand (2007)		United States (1984)	
Poland			
Portugal (2006)			
Slovak Republic			
Slovenia			
Spain (2011)			
Switzerland			
Turkey (2006)			



#### Long-term gross replacement rates for civil service and private-sector average earners, full career from age 20 in 2014, %



Source: OECD (2016) – Pensions Outlook, Figure 6.2.

# Pension reforms in the OECD over the last two years

- Reforms were fewer and less widespread than before
- Canada, Finland, Greece, Poland and the Czech Republic : large repercussions, move backwards in certain cases
- Age:
- increase: Denmark, Finland, Netherlands
- cancellation of the planned increase: Canada and Czech Rep.
- decrease: Poland
- Change in contributions: one-third of OECD countries
- Change in benefit levels: one-third of countries
- Minimum pension and safety net: one-fifth of countries

## **Basic pension levels**

