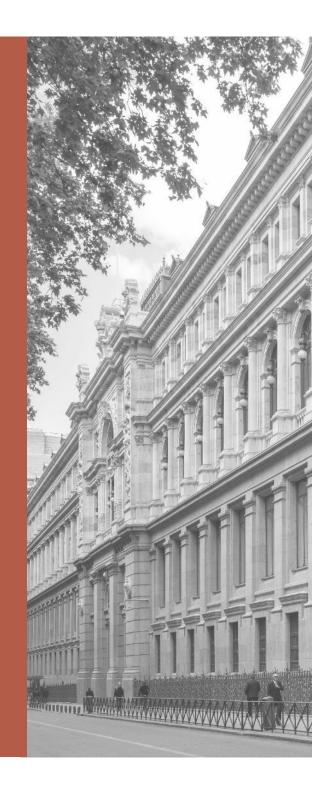
BANCODE ESPAÑA Eurosistema

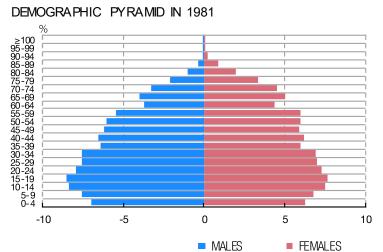
POPULATION AGEING AND THE STABILISATION ROLE OF FISCAL POLICY

Pablo Hernández de Cos Governor, Banco de España

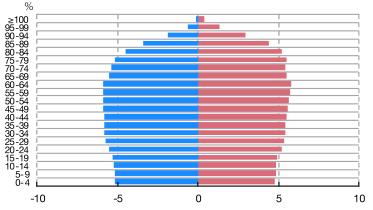
11TH ANNUAL BCRP & RBWC Cuzco, Perú 19 July 2019



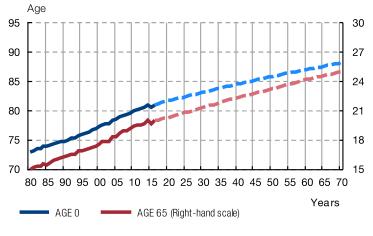
POPULATIONS IN ADVANCED COUNTRIES ARE AGEING



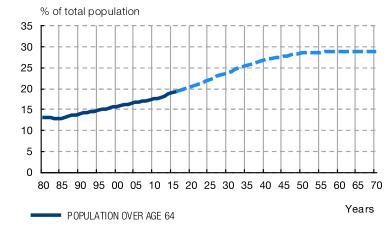
DEMOGRAPHIC PYRAMID IN 2070 (PROJECTION)







POPULATION OVER AGE 64



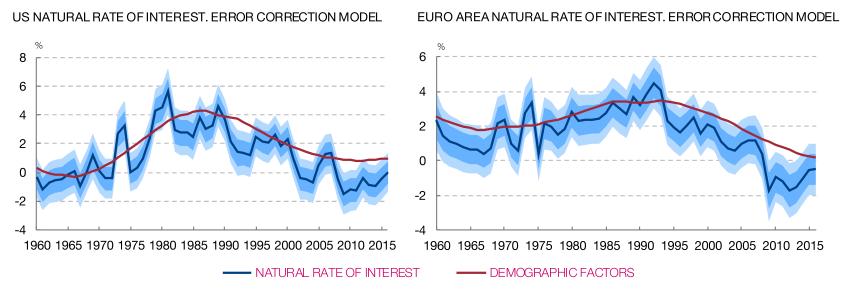
SOURCE: Eurostat.

IMPLICATIONS FOR THE INTERACTION BETWEEN FISCAL AND MONETARY POLICY

By increasing the relative supply of savings, ageing partially explains the fall in the natural interest rate (r*).

A low or negative r* poses new challenges for stabilisation policies:

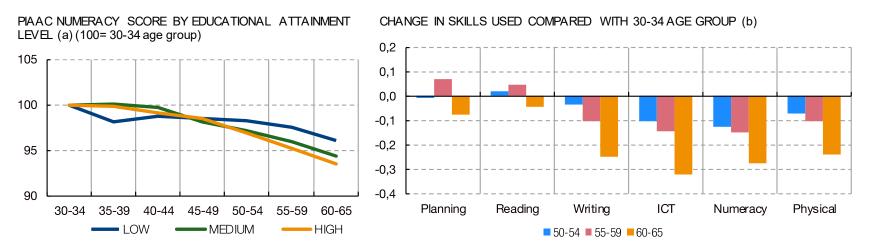
- The zero lower bound might be impacted more frequently.
- Fiscal policy may play a bigger role in sustaining aggregate demand (Eggertsson and Mehrotra, 2014).



SOURCE: Fiorentini, Galesi, Pérez-Quirós and Sentana (2018).

Ageing is associated with lower employment rates and innovation (Aksoy et al., 2015), thus projected output growth shrinks.

Older workers have fewer of the cognitive skills needed to use new technologies.



SOURCE: Banco de España with OECD data (PIAAC, 2013).

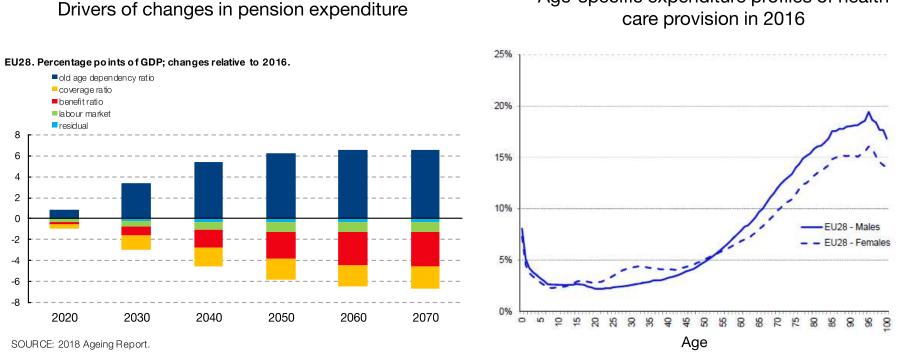
a. Low educational attainment level=lower secondary education or less; medium educational attainment level = upper secondary education; high educational attainment level = university education or more. The series represent the average of the countries included in PIAAC.

b. The bars denote the estimated coefficient of an indicator for each of the age groups (50-54, 55-59 and 60-65) in a regression which dependent variable is the intensity of the usage of a particular skill at work. The regression also includes other control variables such as sex, educational attainment, sector and occupation. The sample comprises all countries included in PIAAC.

AGEING LEADS TO HIGHER SPENDING ON PUBLIC PENSIONS, HEALTH AND LONG-TERM CARE.

Ageing leads to higher public pension spending, while institutional reforms and improvements in the labour market may offset this.

Health spending evidences a marked life-cycle profile.



Age-specific expenditure profiles of health

BANCODE ESPAÑA

Eurosistema

AGEING MIGHT LEAD TO LOWER PUBLIC REVENUES

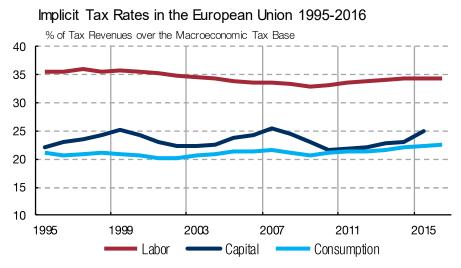
- There is a negative relationship between ageing and the labour share (Glover-Short 2018) through, e.g. more robotisation (Acemoglu and Restrepo, 2017).

Ageing is associated with higher accumulation of assets.

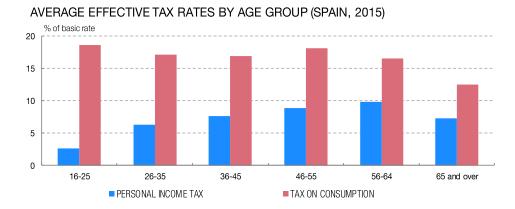
The EU tax structure is biased towards labour income, which is taxed higher relative to capital income.

- Ageing also alters the composition of the consumption basket towards goods and services with lower effective taxation.

As a result, effective rates for older people tend to be lower than for prime-age individuals.



Source: Taxation Trends in the European Union, Eurostat (2017).



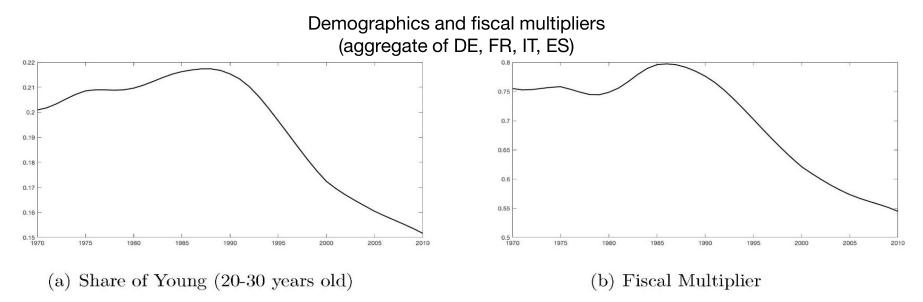
SOURCE: Banco de España.

THE STABILISATION ROLE OF FISCAL POLICY COULD BE IMPAIRED BY POPULATION AGEING

Ageing may erode fiscal stabilisers - via reduction in relative weight of progressive income taxation, increase in structural spending, or greater role of capital taxation.

Age composition of population affects the transmission of fiscal policy – youth consumption is more responsive to policy, thus ageing decreases government spending fiscal multipliers (Basso and Rachedi, 2018 and Alloza and Sanz, 2018).

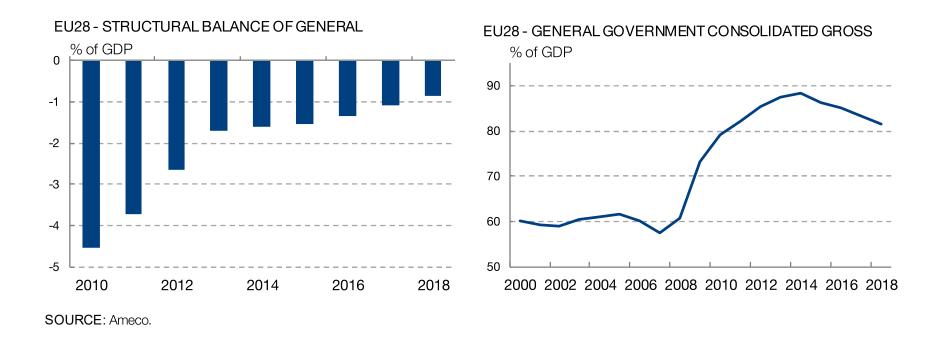
An aged society may require more targeted and discretionary fiscal interventions



Note: Share of 20-30 year old in the population and fiscal multipliers for Europe (France, Germany, Italy and Spain). Source: Basso and Rachedi (2017).

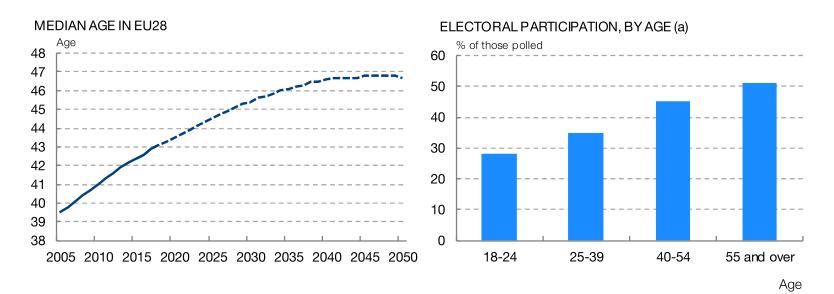
Despite its recent downward trend, the public debt in the EU remains above 80% of GDP.

Population ageing, by putting pressure on public expenditure and affecting tax revenues, can hamper the process of fiscal consolidation.



The median age of the population in the EU will rise dramatically between 2018 and 2050 (from 43.1 to 46.7 years).

If historical patterns of electoral participation by age group hold constant, public support for policies financed by income transfers to older people could rise.



SOURCES: Eurostat, European Parliament, and TNS opinion.

a. Percentages by age group of persons indicating, in the post-electoral poll conducted by TNS opinion, that they had voted in the 2014 European Elections.

Arguments for a more active role of fiscal policy:

- Secular stagnation and the effective zero lower bound constraint on monetary policy.
- In a world of low interest rates, public deficits could be higher without significant debt sustainability risks.

Reasons to be cautious:

- Ageing might lead to lower potential output growth, higher public expenditure and lower taxes, which could increase sustainability concerns.
- Ageing could lead to lower fiscal multipliers.
- Political process limits the timeliness and flexibility of fiscal policy as a stabilisation tool.

BANCO DE ESPAÑA Eurosistema

THANK YOU FOR YOUR ATTENTION

