

**UNITED NATIONS  
ECONOMIC COMMISSION FOR EUROPE**

**WORKING GROUP ON AGEING**

First meeting  
Geneva, 1–2 December 2008  
Item 5a of the provisional agenda

**MA:IMI / I 2003–2008  
MAINSTREAMING AGEING:  
INDICATORS TO MONITOR IMPLEMENTATION**

**SELECTED CHARTS ON MAINSTREAMING AGEING INDICATORS**

Annex to informal document 2:

**MA:IMI / I 2003–2008**  
**Mainstreaming Ageing: Indicators to Monitor Implementation**  
First Review and Appraisal Cycle 2003-2008  
Short Product Overview Report

## **Selected Charts**

### **Examples of Visualization: Selected Charts on Mainstreaming Ageing Indicators**

**Bernd Marin, Michael Fuchs, Barbara Lipszyc,  
Mattia Makovec, and Asghar Zaidi  
with the assistance of Jason Allman and Silvia Fässler**

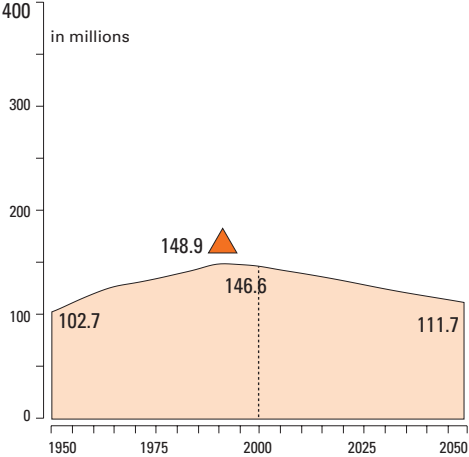
### **Selected Charts**

• Population Size, 1950 – 2050 .....	783
• Population by Age and Sex, 2005 .....	785
• Median Age, 1950 – 2050 .....	786
• Population Changes: Natural Growth, Overall Growth, Migration 1950-2005 .....	787
• Population by Age Groups, 1950-2050 .....	795
• Demographic Dependency Ratios, 1950-2050 .....	796
• Ageing of the Aged, 1950-2050 .....	797
• Life Expectancy at Certain Ages*, 2003 .....	798
• Healthy Life Expectancy* .....	799
• Survival Rates up to Age 20, 60, 65, 80, 1995-2005 .....	800
• Pension Duration of People Retiring Today .....	801
• Total Fertility Rate, 1950 – 2005 .....	804
• Net Reproduction Rate*, 1950-2005 .....	806
• Mean Equalised Net Household Income .....	807
• Relative Disposable Income .....	808
• S80/S20 Ratio of disposable Income .....	809
• Income Composition, by Income Groups, 2001 .....	810

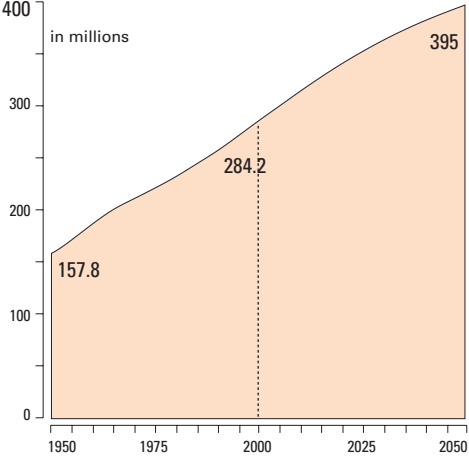
• Relative Income Poverty Rate, 2004.....	811
• Median Income Poverty Gap.....	813
• Persistent Income Poverty Rates.....	815
• Net Replacement Rates by Earnings Level.....	816
• Gross Pension Wealth by Earnings Level.....	818
• Labour Force Participation Rates, 1984 – 2005.....	820
• Employment Rates, 1983-2005.....	822
• Share of Workers aged 55-64 in Employment and Population, 1983-2005.....	824
• Median Age of Population and Workforce.....	826
• Unemployment Rates, Prime Age and Workers 55-64, 1983 – 2005.....	827
• Inactivity Rates, Prime Age and Workers 55-64.....	828
• Time Spent in Paid vs. Unpaid Work Activities.....	829
• Long-Term Unemployment Rates.....	830
• Share of Non-Employed Disability Benefit Recipients.....	831
• Average Effective Labour Market Exit Age.....	832
• Early / Late Retirement.....	833
• Lifetime Allocation.....	834
• Effective Age of Entry into Employment, 2000.....	835
• Implicit Tax on Continuing Working.....	836
• Individual Replacement Rates at Average Earnings, 2004-2050.....	837
• Replacement Rates at 2/3rd of Average Earnings Level, 2005-2050..	838
• Gross Pension Wealth Earning Levels and by Gender, 2040.....	839
• Implicit Contribution Rate, 2004-2050.....	840
• Public Pension Spending in % of GDP and in % of Social Expenditure.....	841
• Decomposition of Projected Change in Public Pension Spending, 2004-2050.....	842
• Sustainability Gap Indicators.....	843
• System Accrual Rates.....	844
• Take-up Ratio.....	845
• Old Age and System Dependency Ratio.....	846

# Population Size, 1950 - 2050

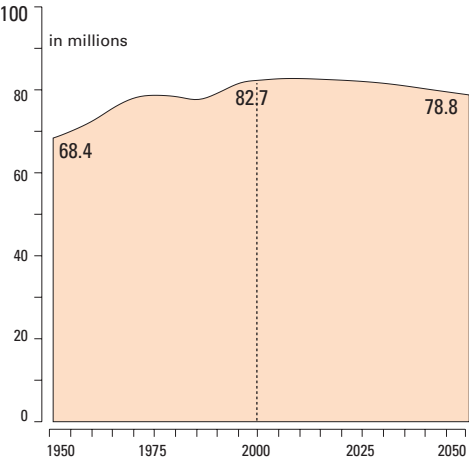
## Russia



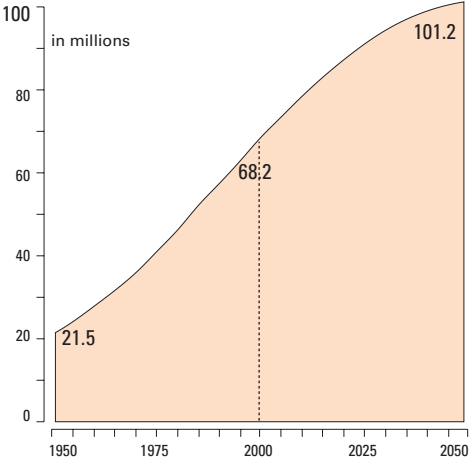
## USA



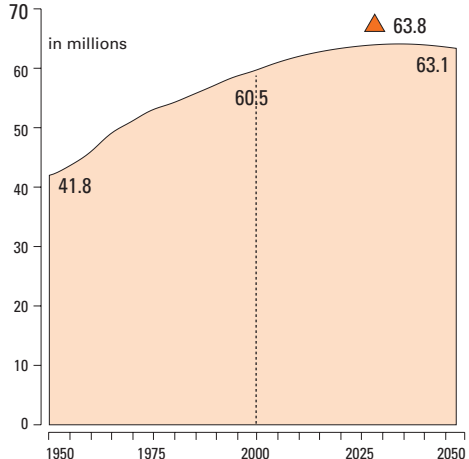
## Germany



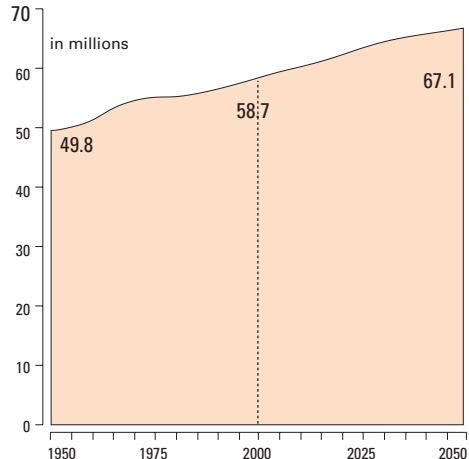
## Turkey



## France

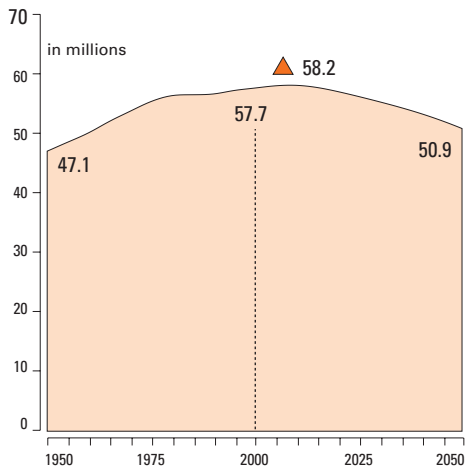


## Great Britain

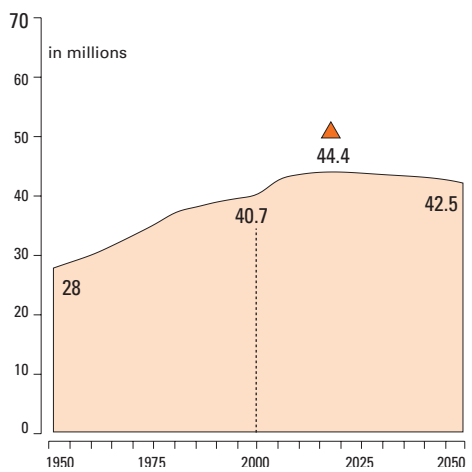


# Population Size, 1950 - 2050

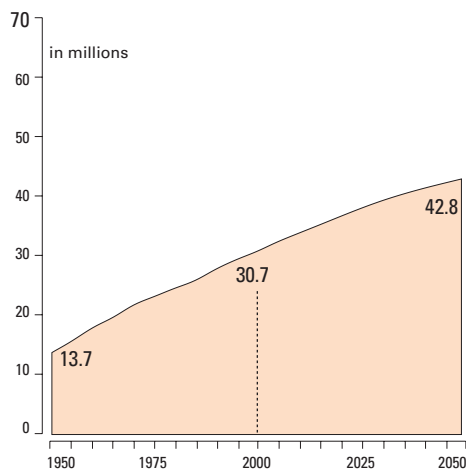
## Italy



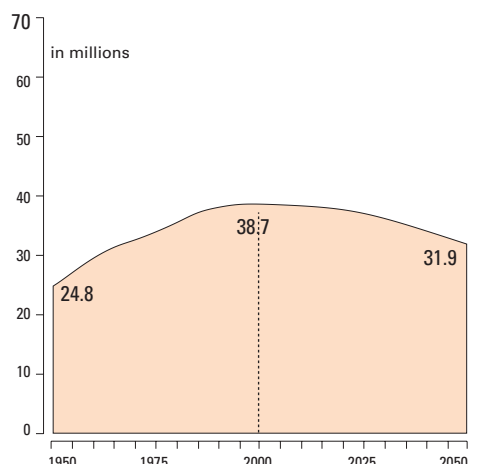
## Spain



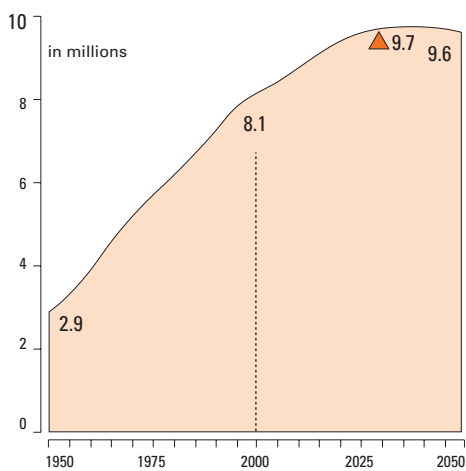
## Canada



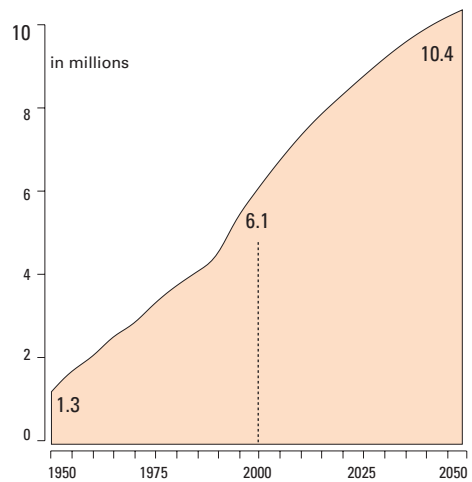
## Poland



## Azerbaijan

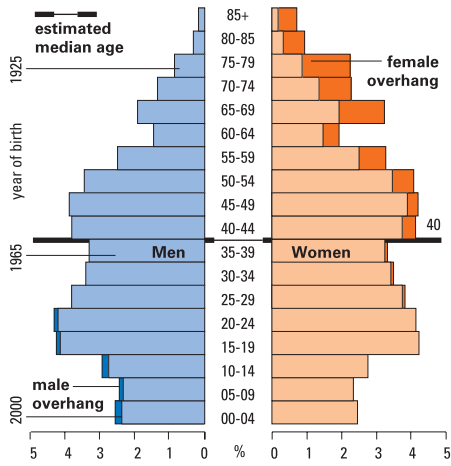


## Israel

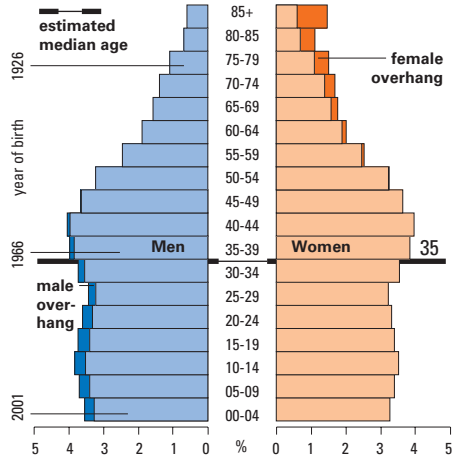


# Population by Age and Sex, 2005

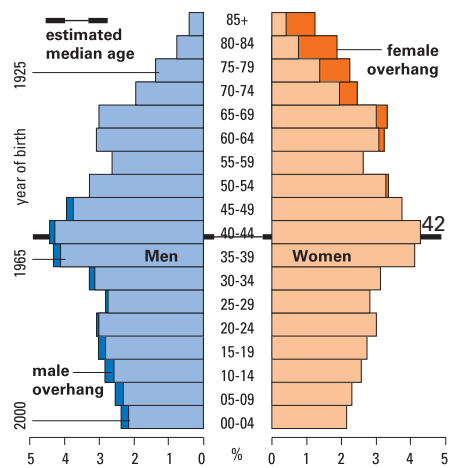
## Russia



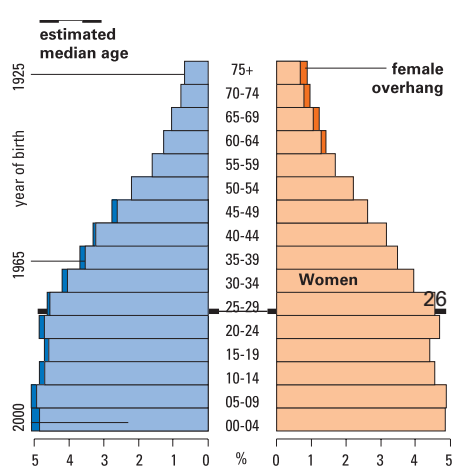
## USA



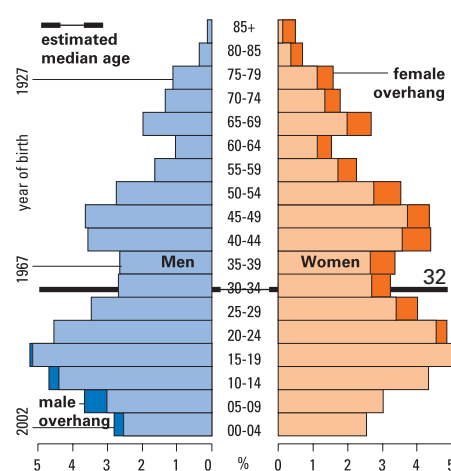
## Germany



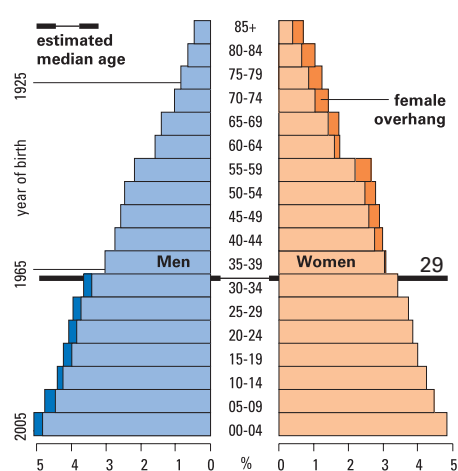
## Turkey



## Armenia

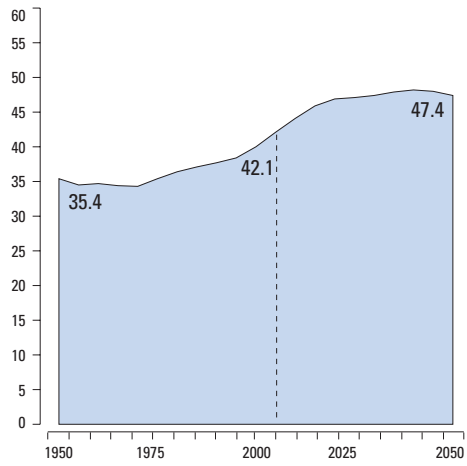


## Israel

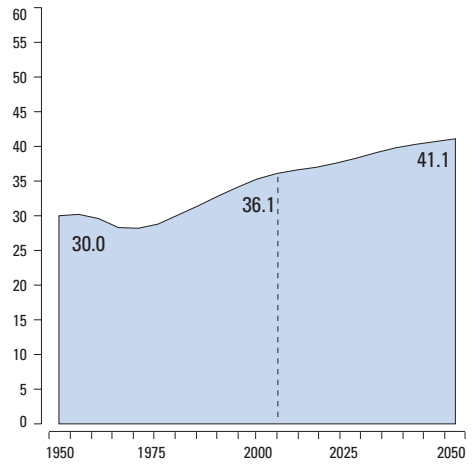


# Median Age, 1950 - 2050

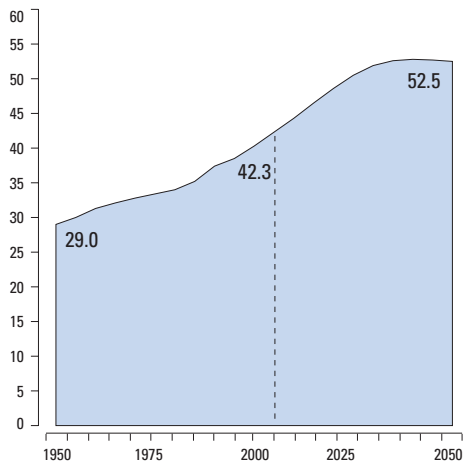
## Germany



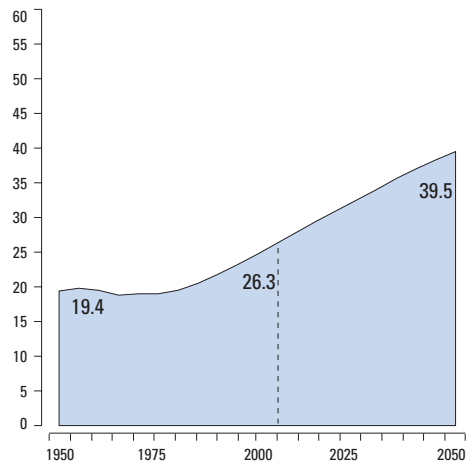
## USA



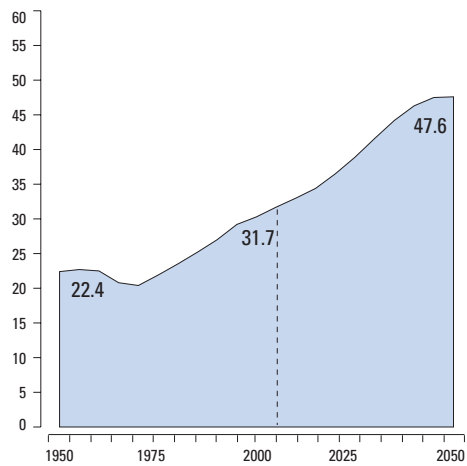
## Italy



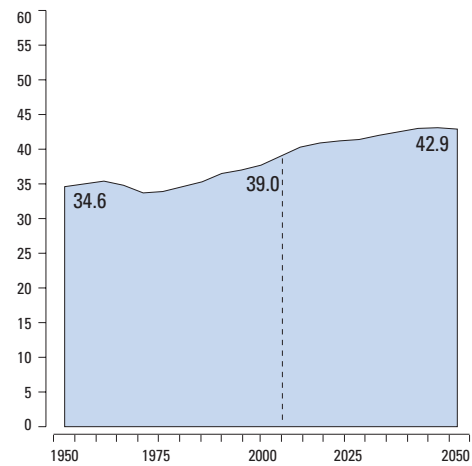
## Turkey



## Armenia

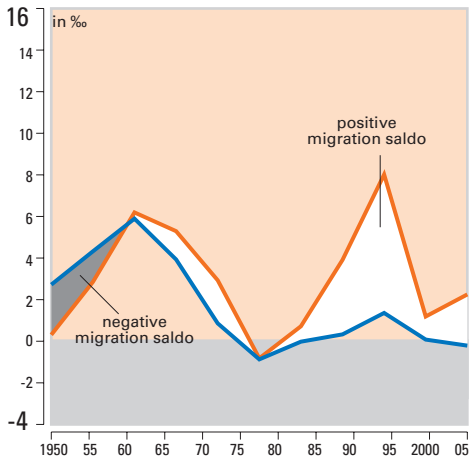


## Great Britain

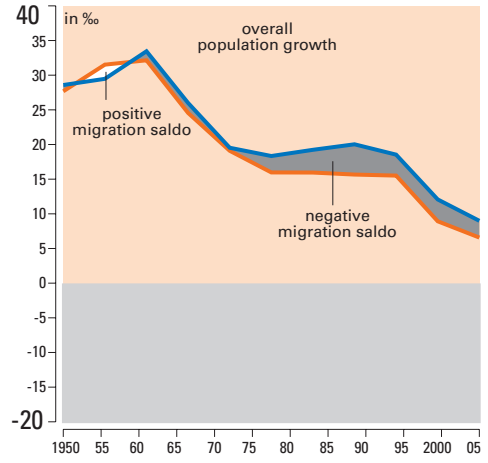


# Population Changes: Natural Growth, Overall Growth, Migration 1950-2005

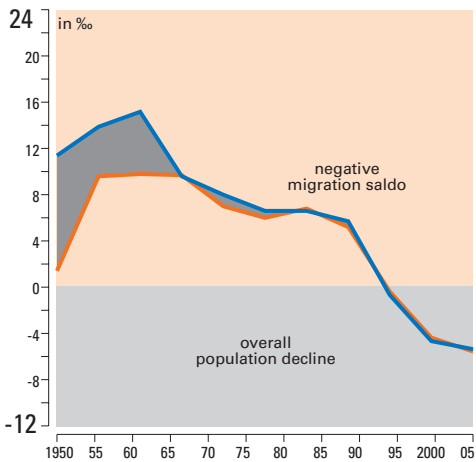
## Austria



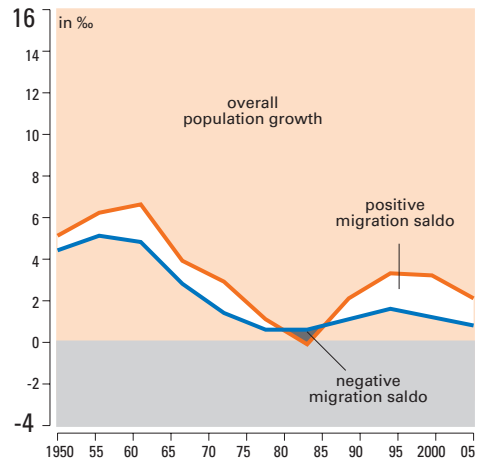
## Azerbaijan



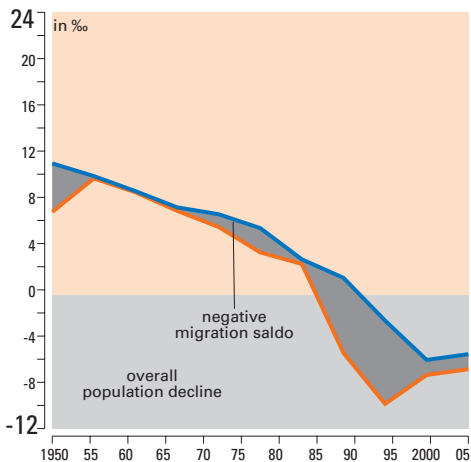
## Belarus



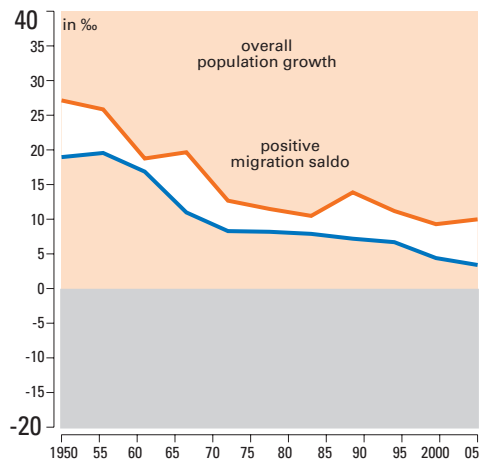
## Belgium



## Bulgaria



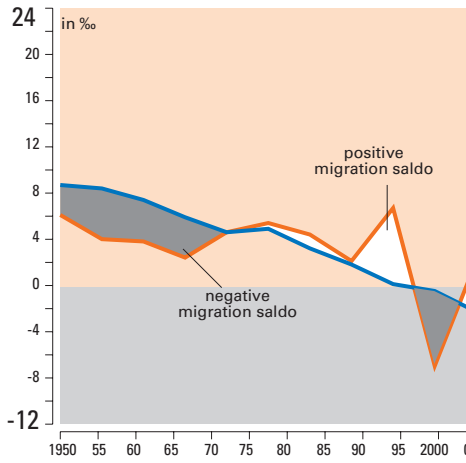
## Canada



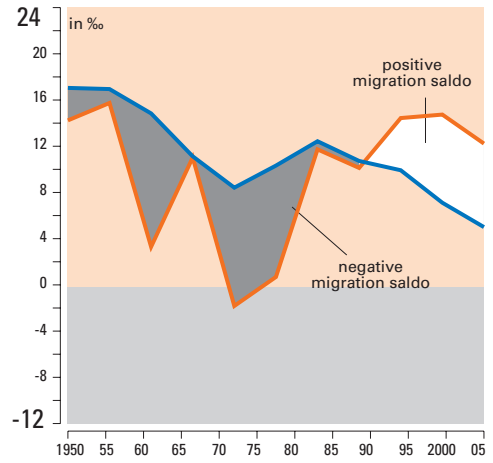


# Population Changes: Natural Growth, Overall Growth, Migration 1950-2005

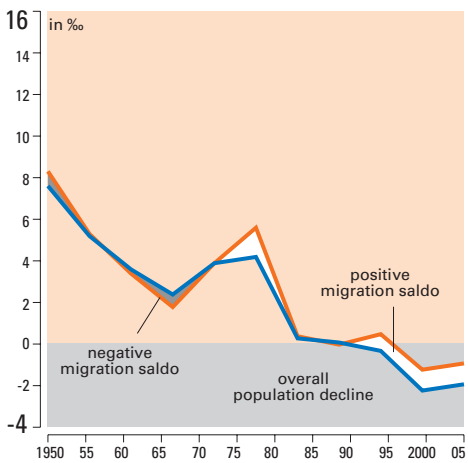
## Croatia



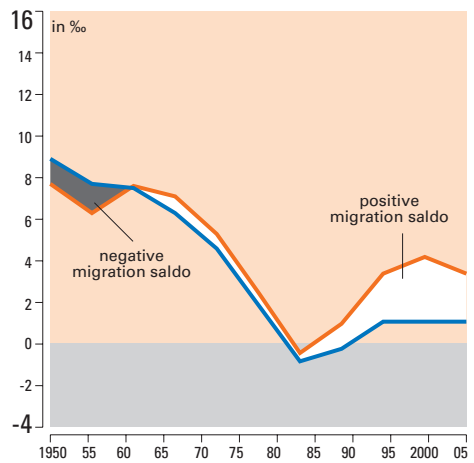
## Cyprus



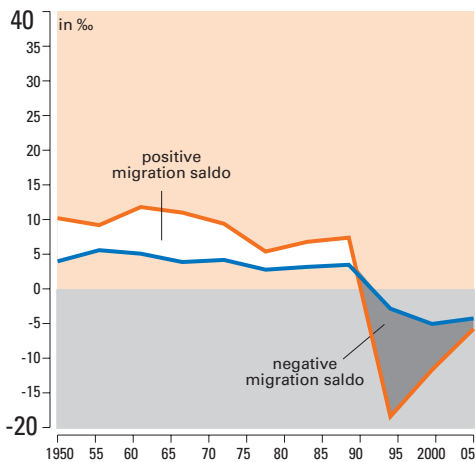
## Czech Republic



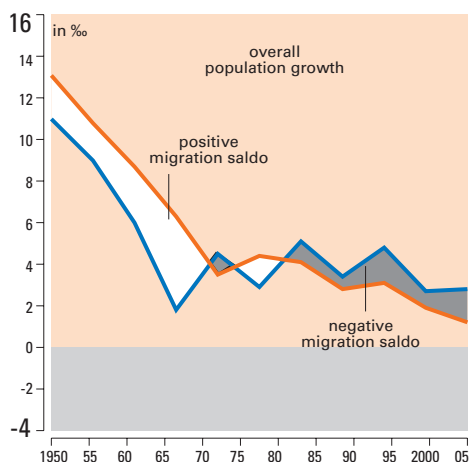
## Denmark



## Estonia

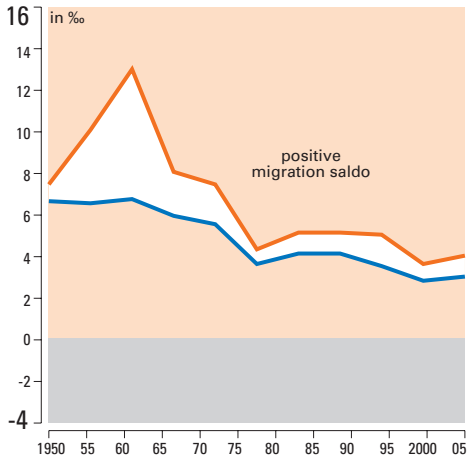


## Finland

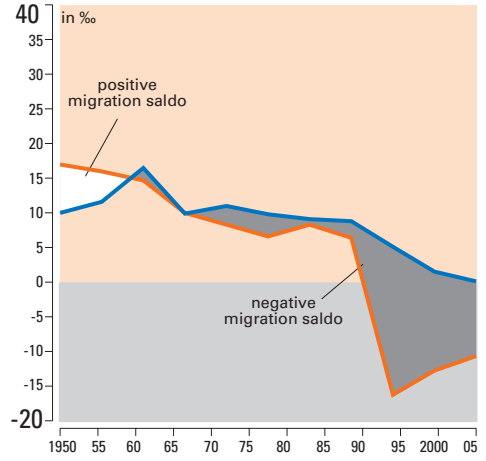


# Population Changes: Natural Growth, Overall Growth, Migration 1950-2005

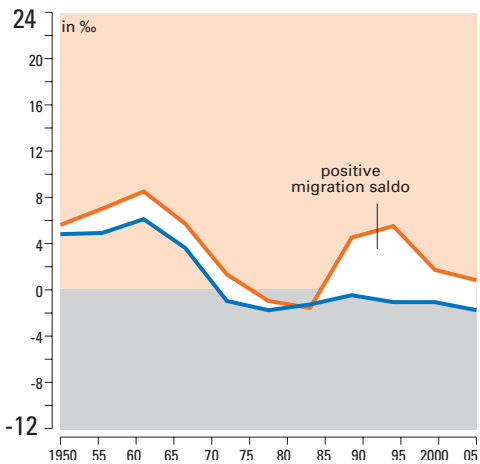
## France



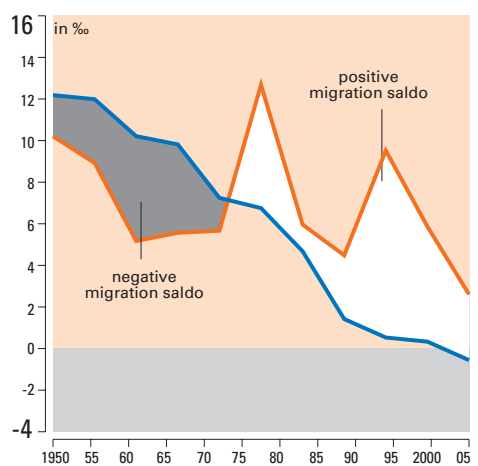
## Georgia



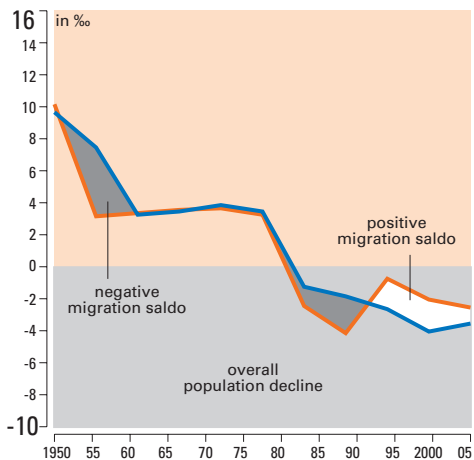
## Germany



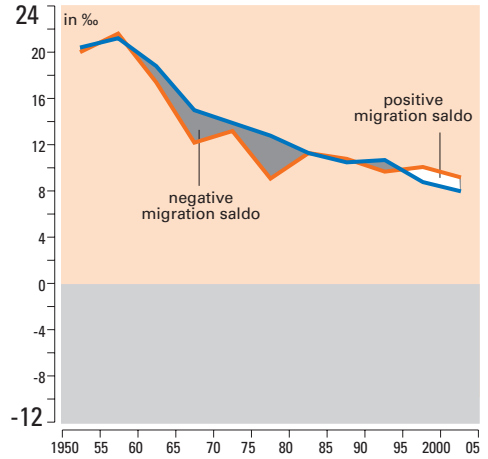
## Greece



## Hungary

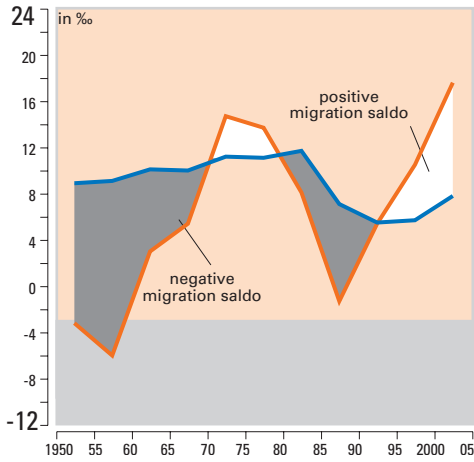


## Iceland

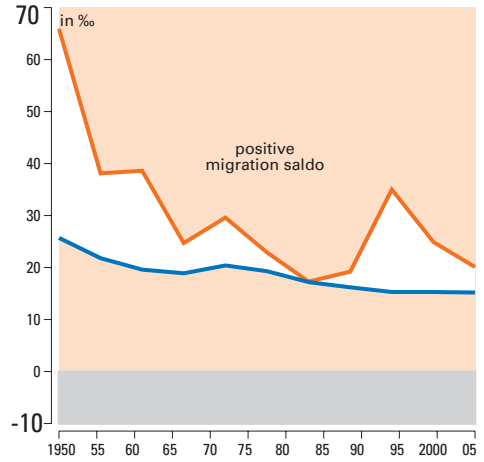


# Population Changes: Natural Growth, Overall Growth, Migration 1950-2005

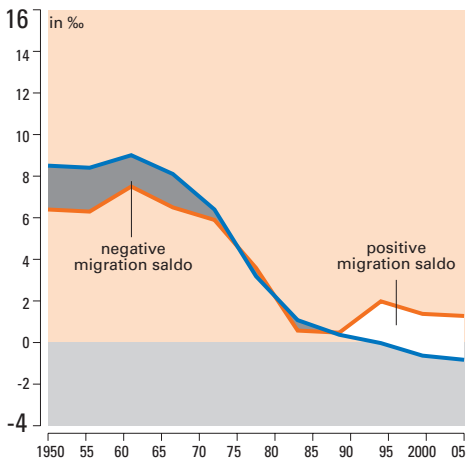
## Ireland



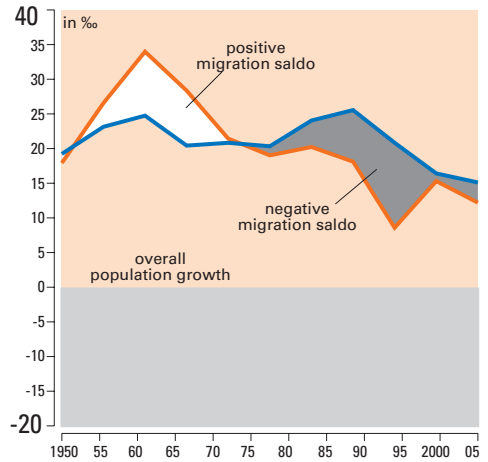
## Israel



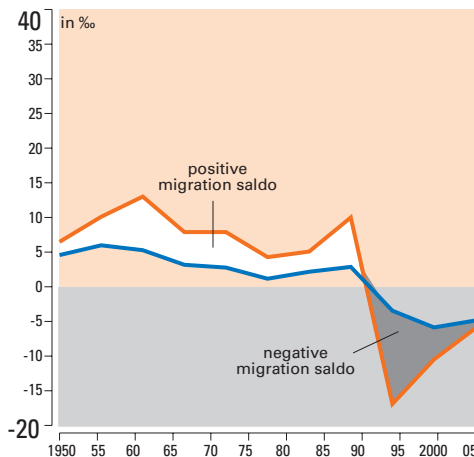
## Italy



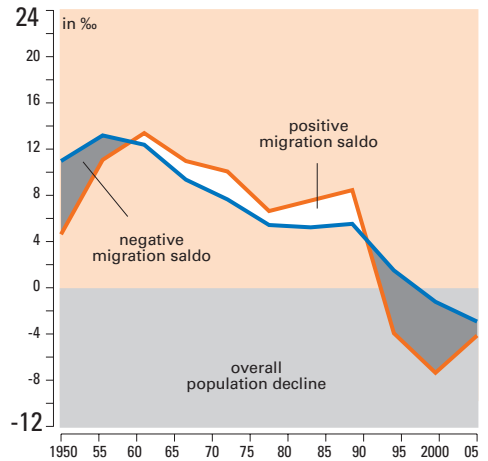
## Kyrgyzstan



## Latvia

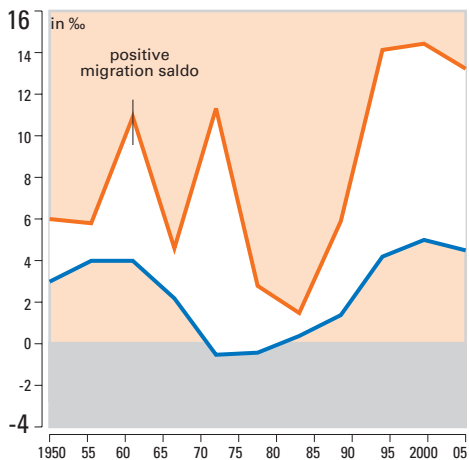


## Lithuania

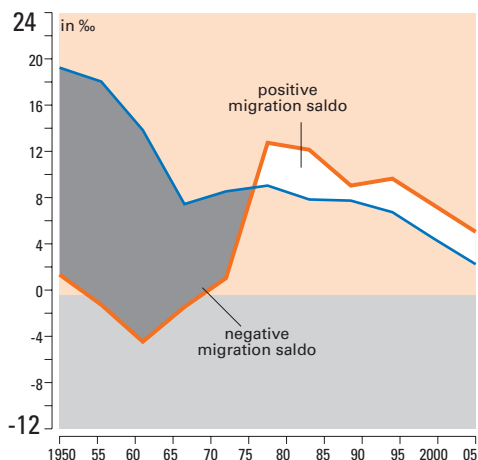


# Population Changes: Natural Growth, Overall Growth, Migration 1950-2005

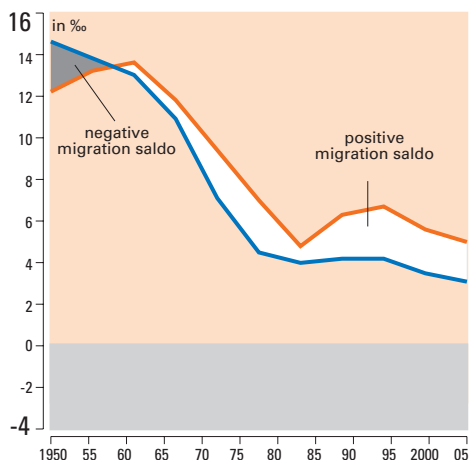
## Luxembourg



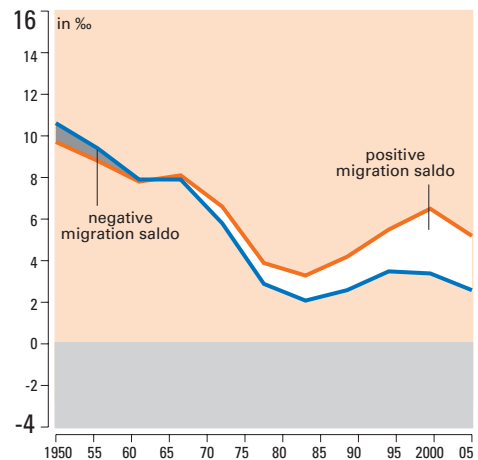
## Malta



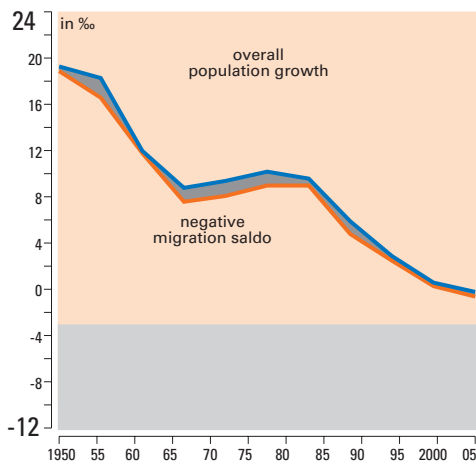
## Netherlands



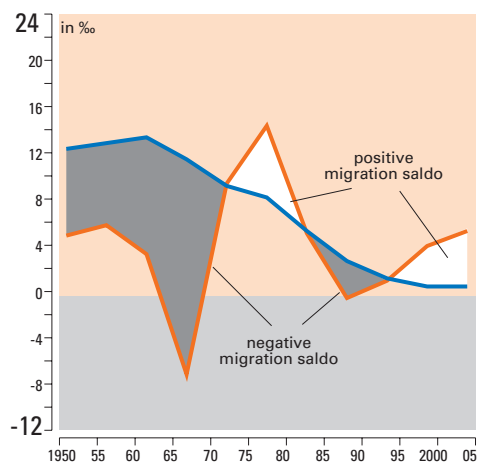
## Norway



## Poland

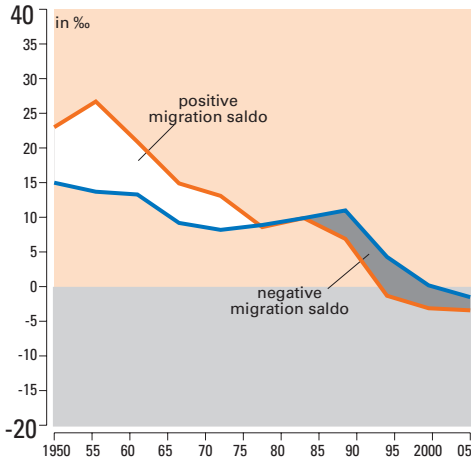


## Portugal

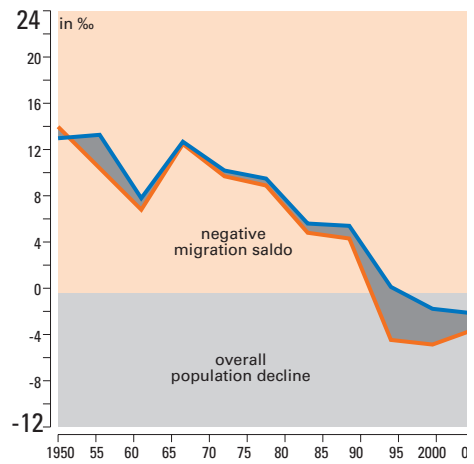


# Population Changes: Natural Growth, Overall Growth, Migration 1950-2005

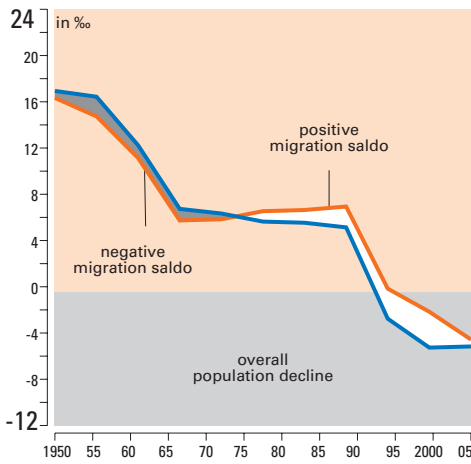
## Republic of Moldova



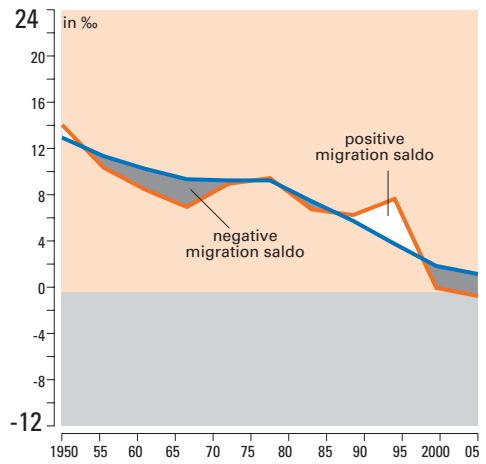
## Romania



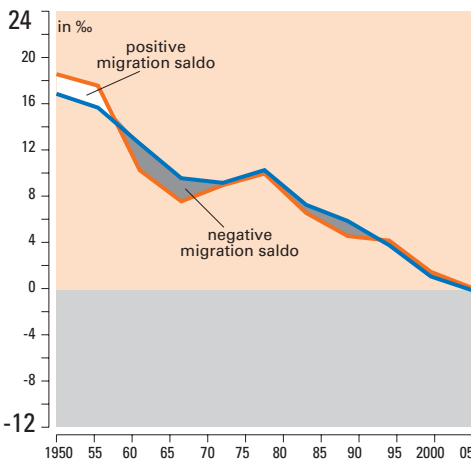
## Russian Federation



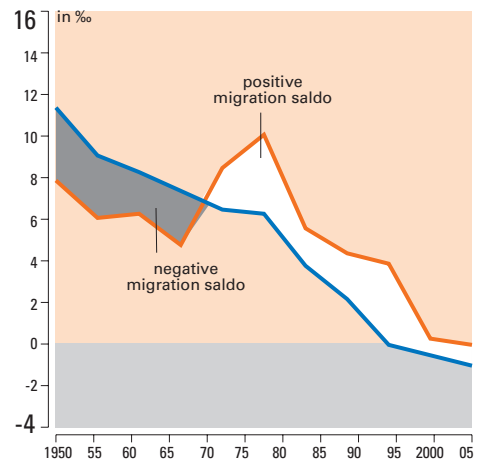
## Serbia and Montenegro



## Slovakia

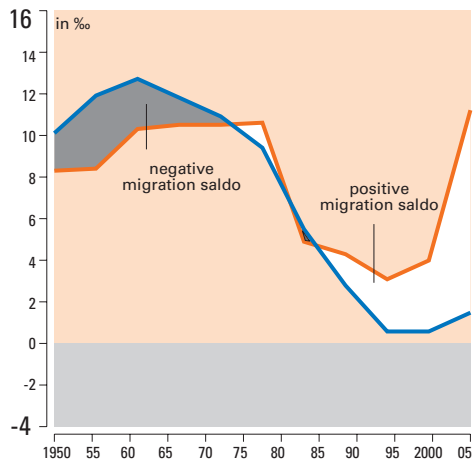


## Slovenia

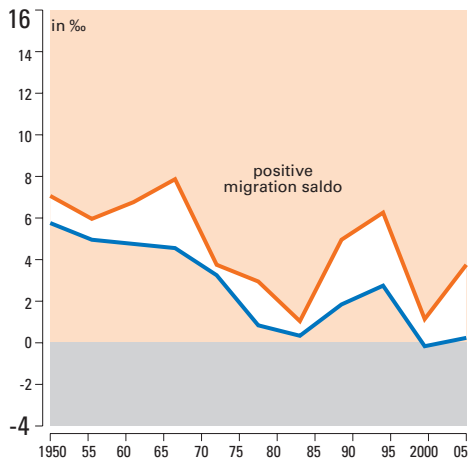


# Population Changes: Natural Growth, Overall Growth, Migration 1950-2005

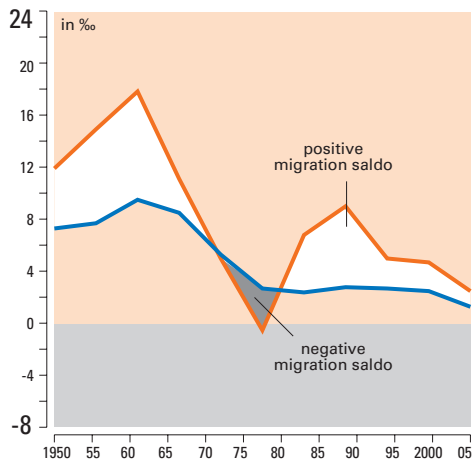
## Spain



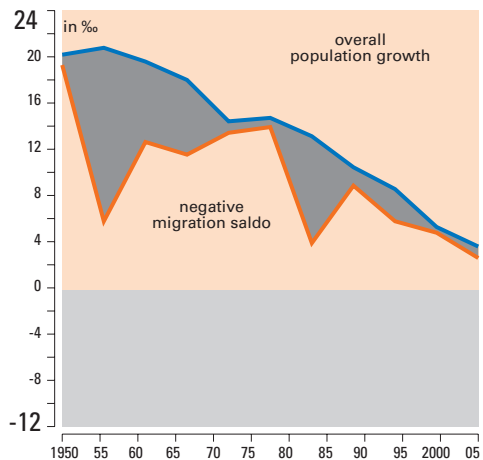
## Sweden



## Switzerland

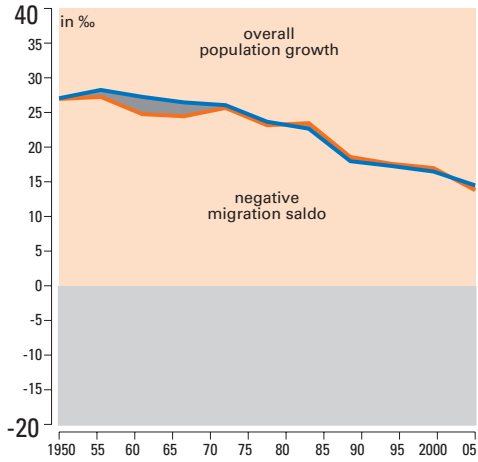


## The former Yugoslavian Republic of Macedonia

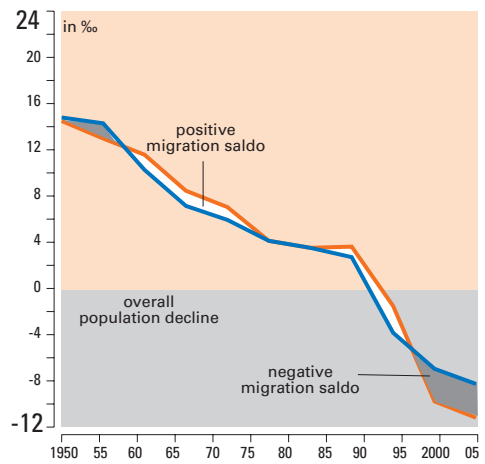


# Population Changes: Natural Growth, Overall Growth, Migration 1950-2005

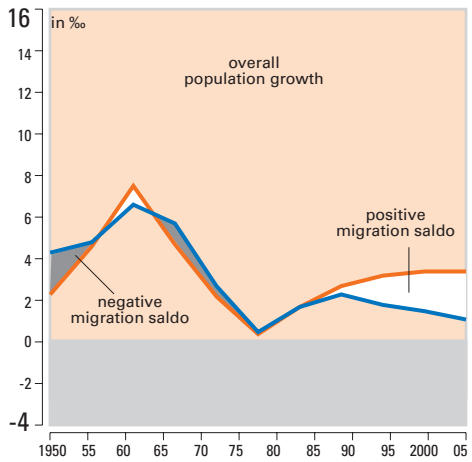
## Turkey



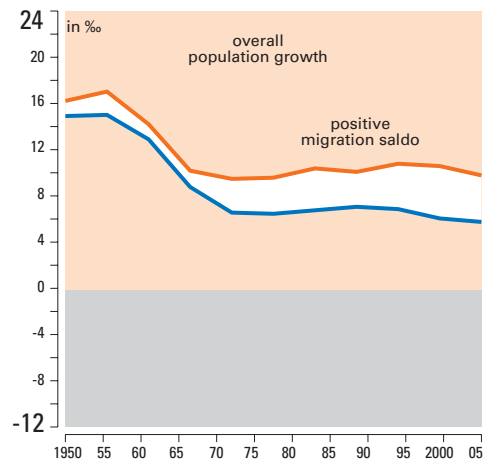
## Ukraine



## United Kingdom

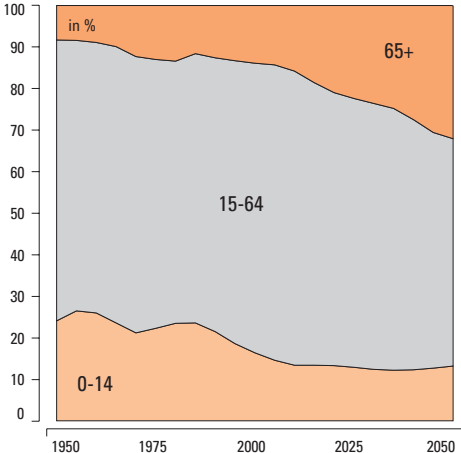


## United States

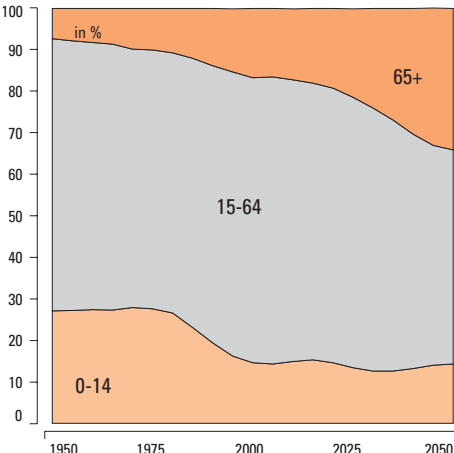


# Population by Age Groups, 1950-2050

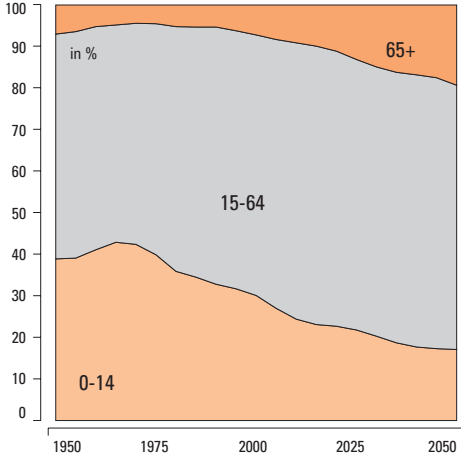
**Czech Republic**



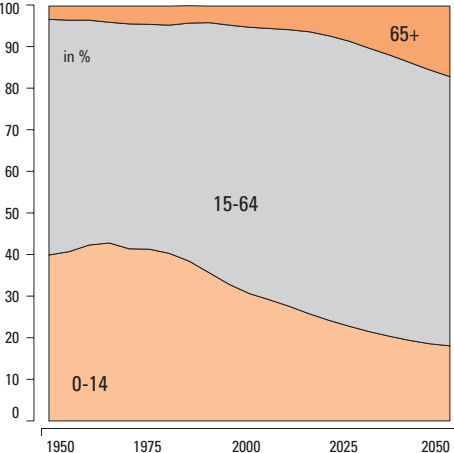
**Spain**



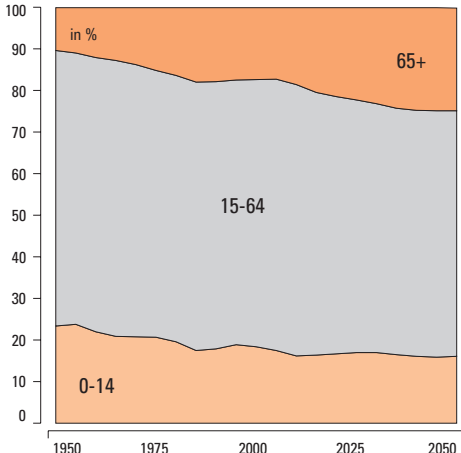
**Albania**



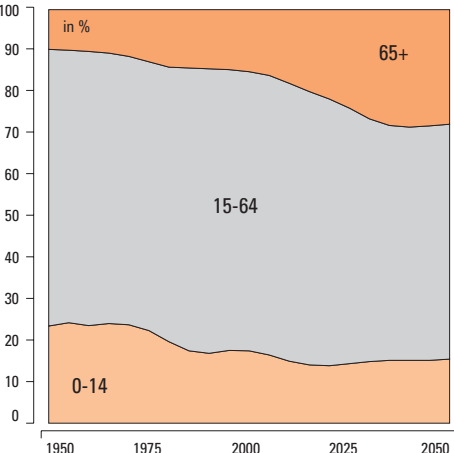
**Turkey**



**Sweden**



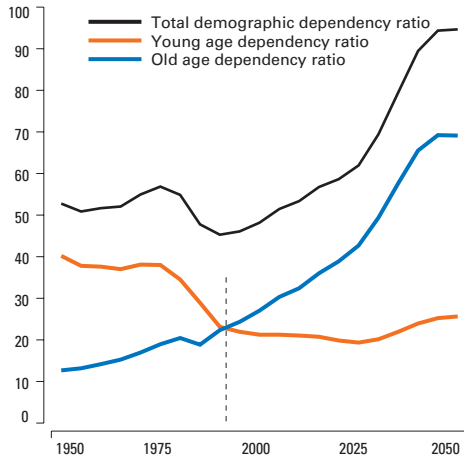
**Switzerland**



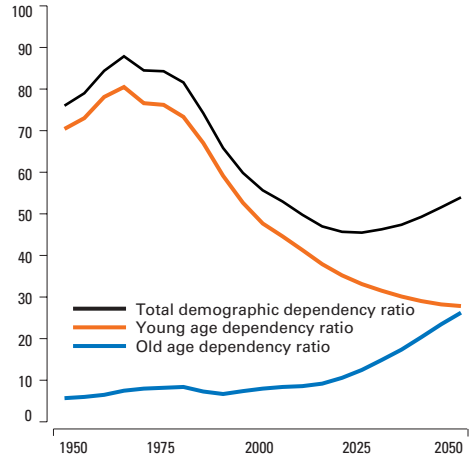


# Demographic Dependency Ratios, 1950-2050

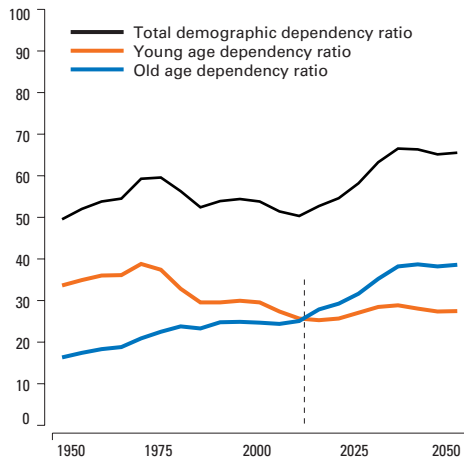
## Italy



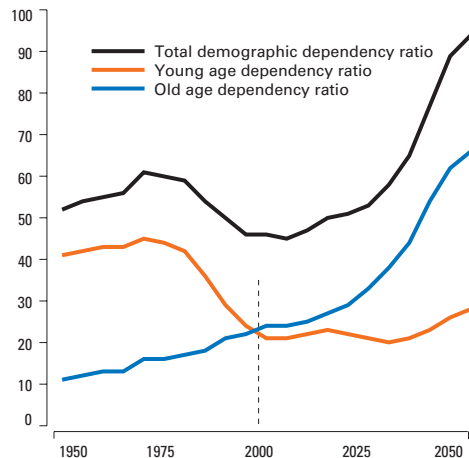
## Turkey



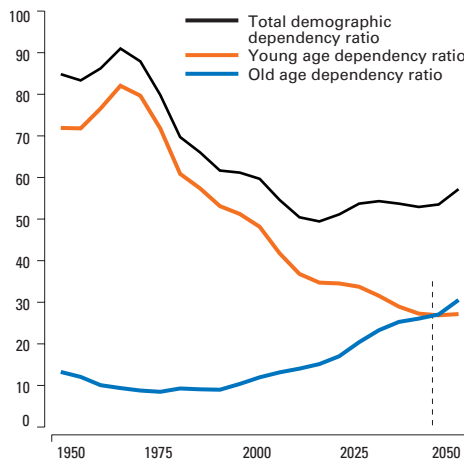
## Great Britain



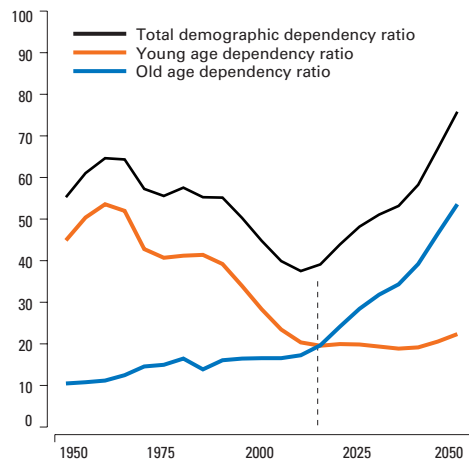
## Spain



## Albania

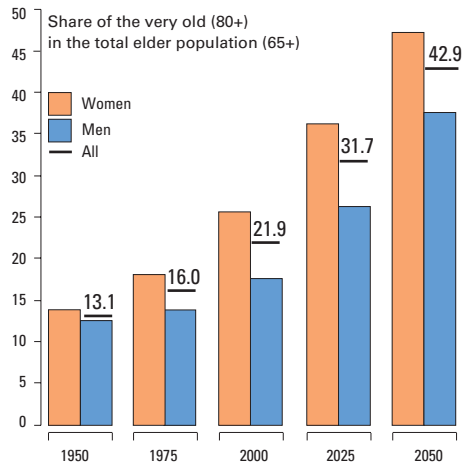


## Slovakia

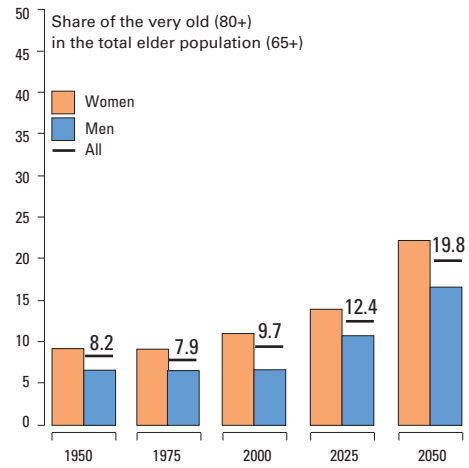


# Ageing of the Aged, 1950-2050

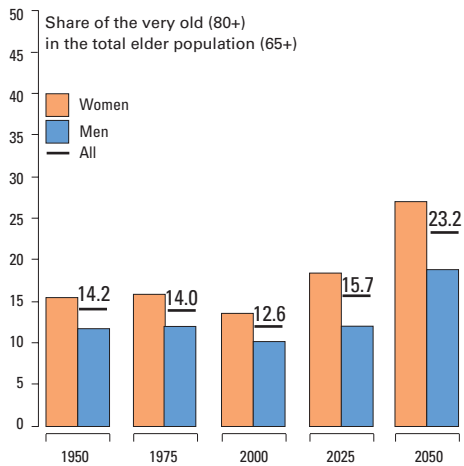
## Italy



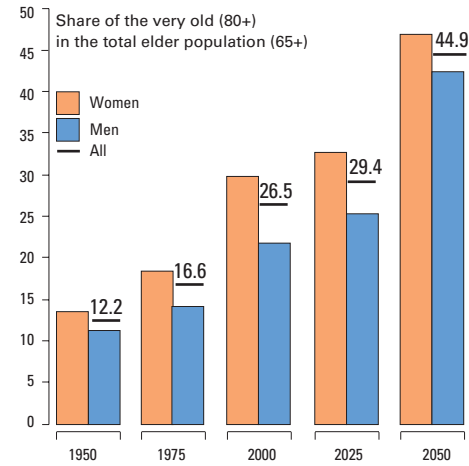
## Turkey



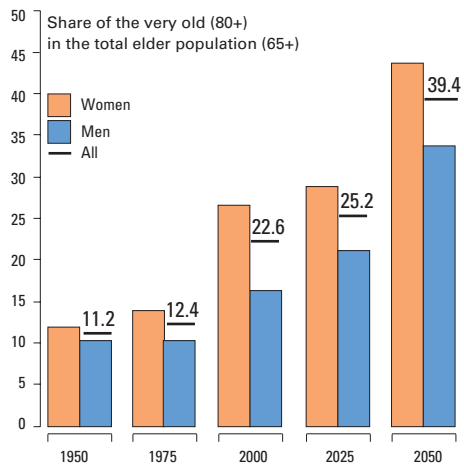
## Moldova



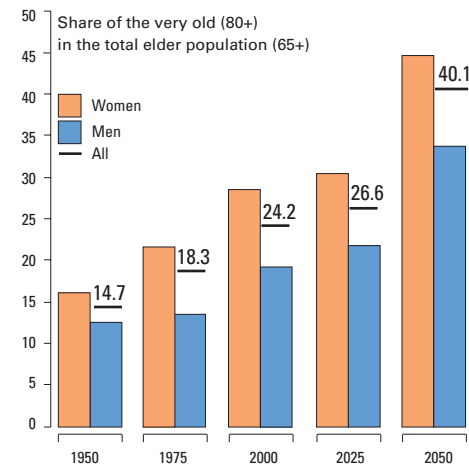
## Switzerland



## Finland



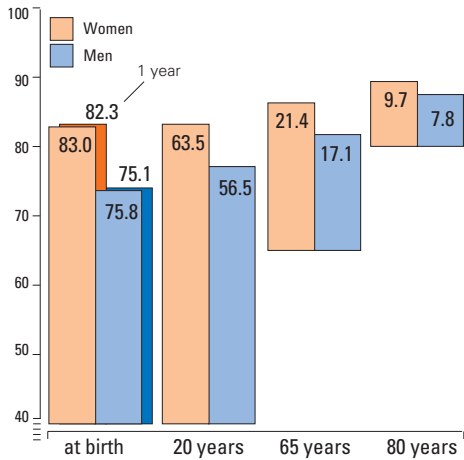
## France



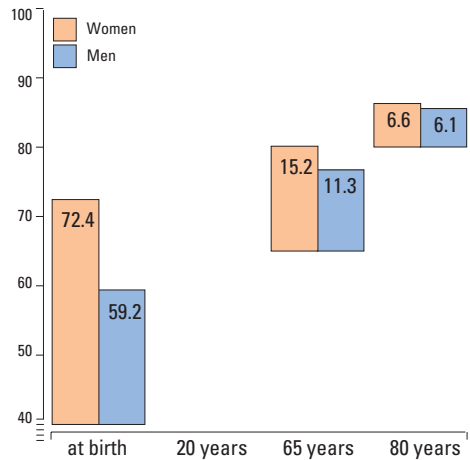
# Life Expectancy at Birth and at 20, 60, 65 and 80 years\*, 2003

\*Life expectancy is a measure of mortality in the given calendar year

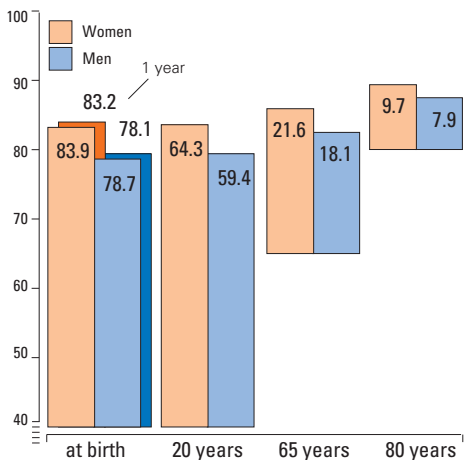
## France



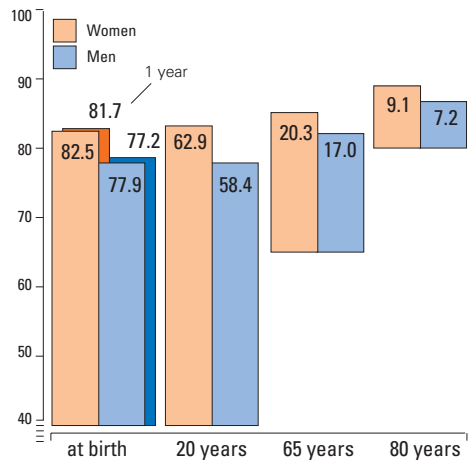
## Russia



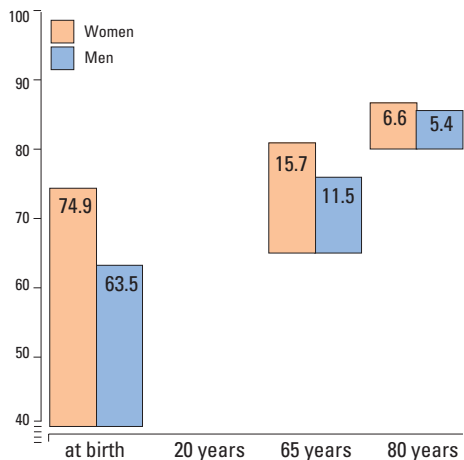
## Switzerland



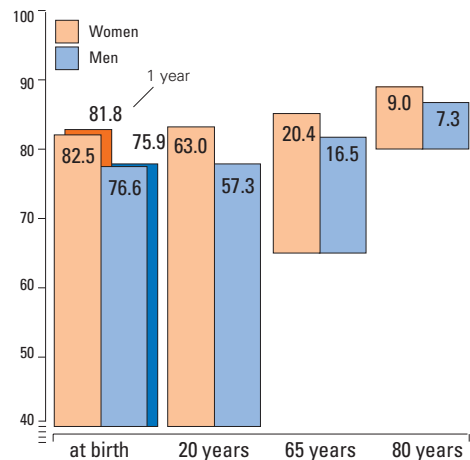
## Sweden



## Belarus



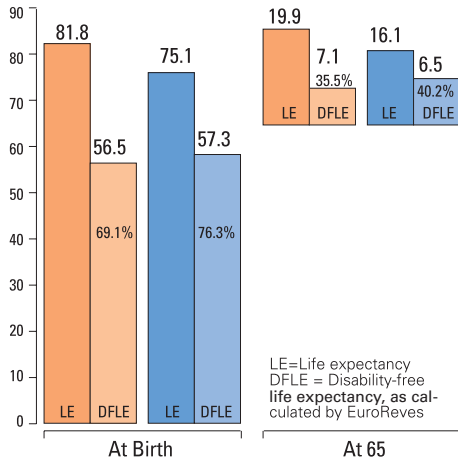
## Italy



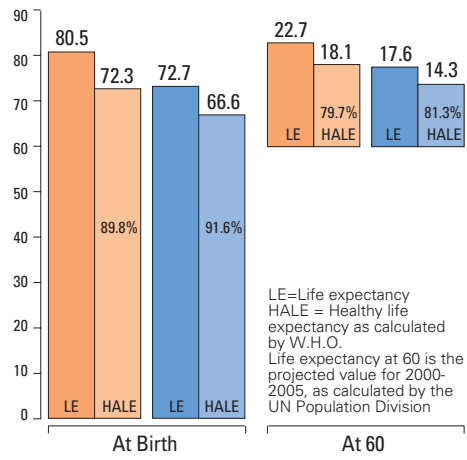
# Healthy Life Expectancy\*

\*Estimated values

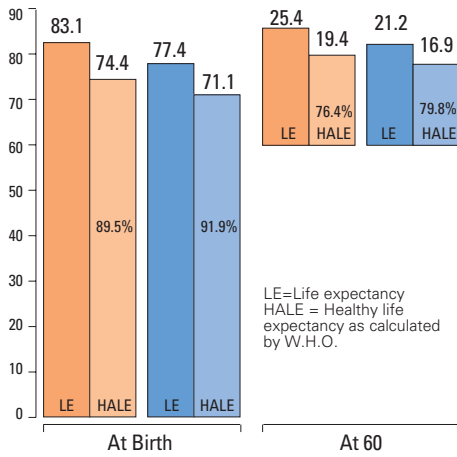
## Finland



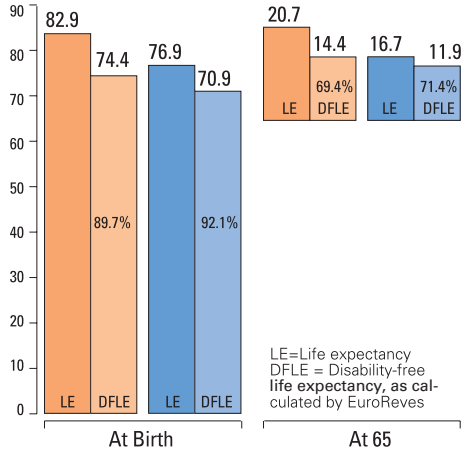
## Slovenia



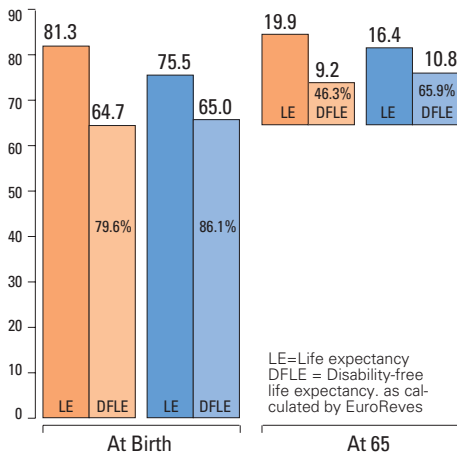
## Switzerland



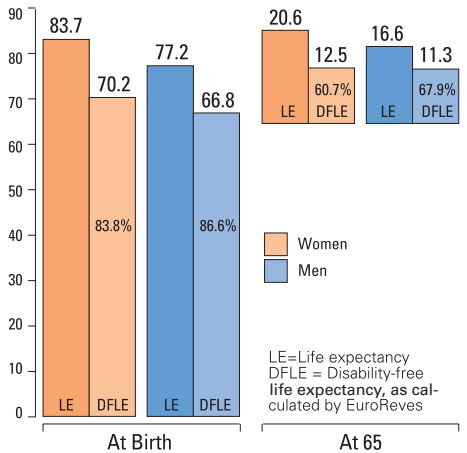
## Italy



## Germany



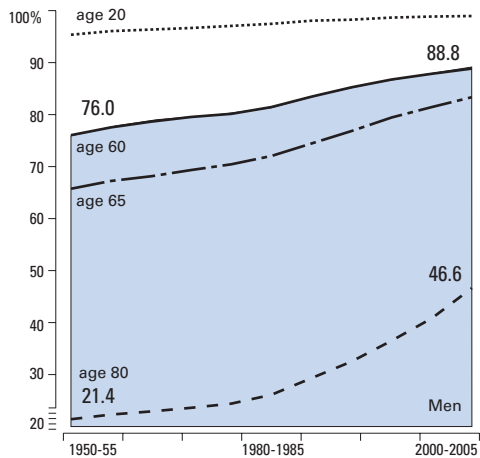
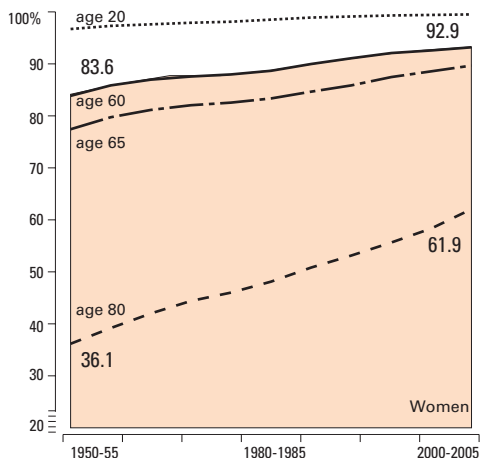
## Spain



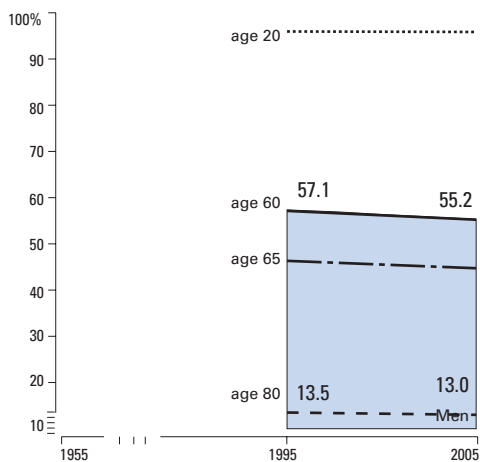
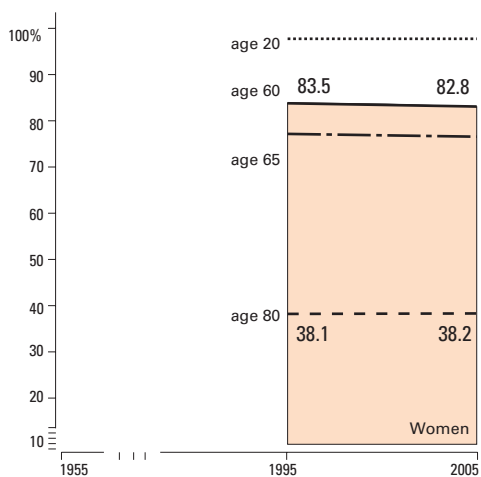
Women  
Men

# Survival Rates up to Age 20, 60, 65, 80, 1995-2005

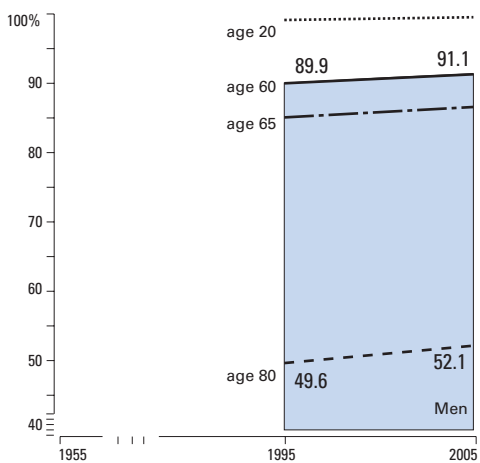
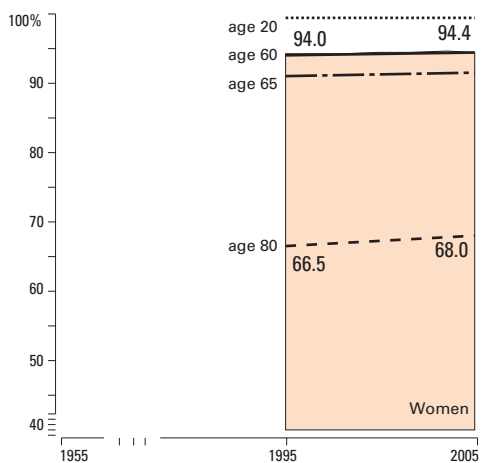
## Great Britain



## Russia

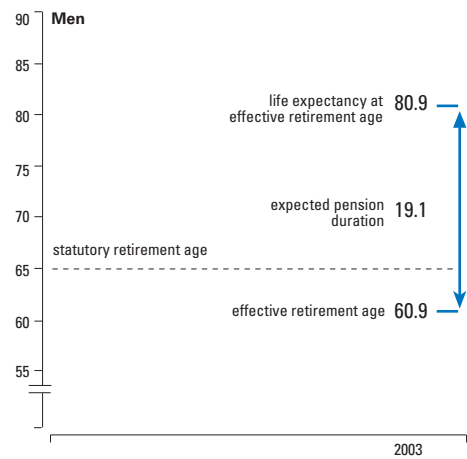
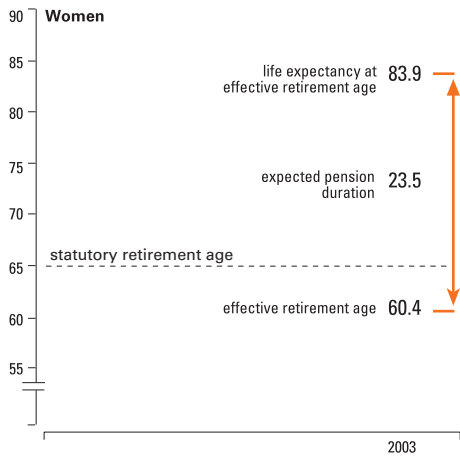


## Sweden

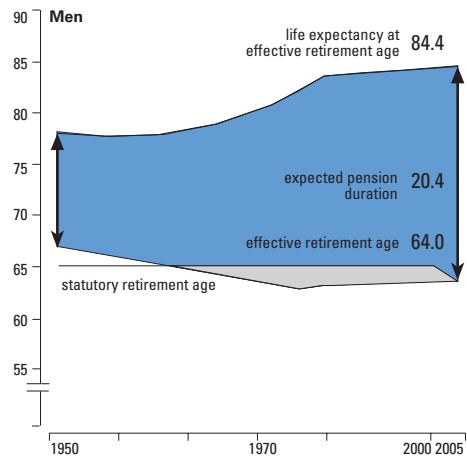
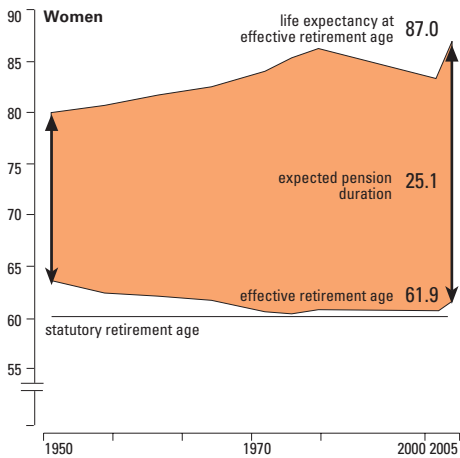


# Pension Duration of People Retiring Today

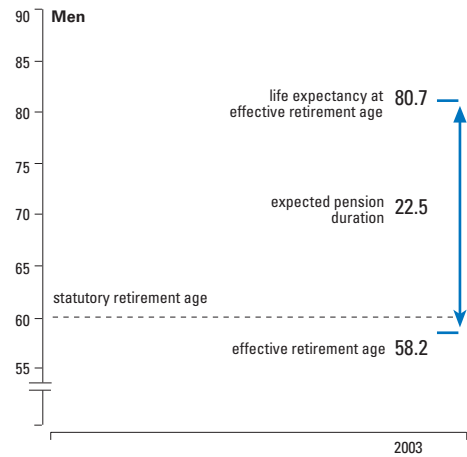
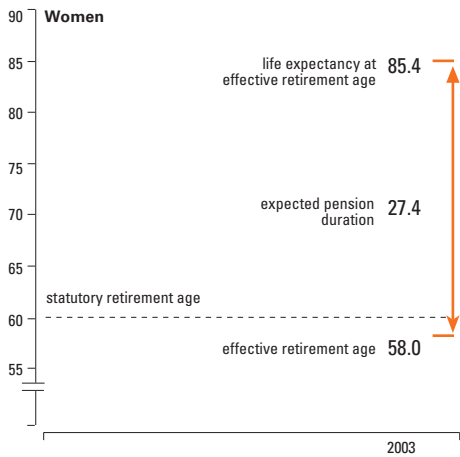
## Germany



## Great Britain

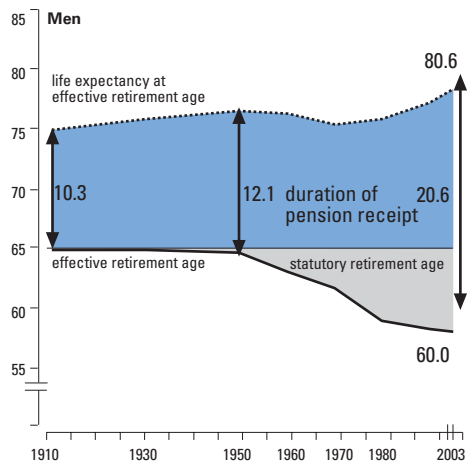
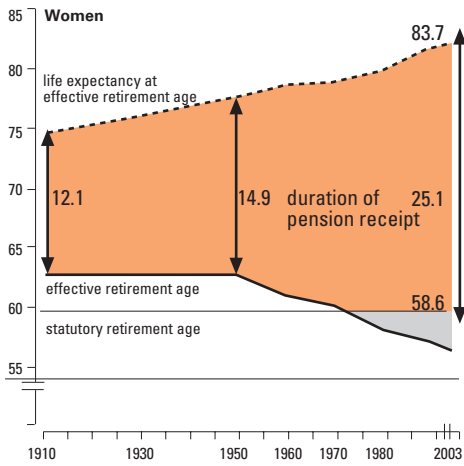


## France

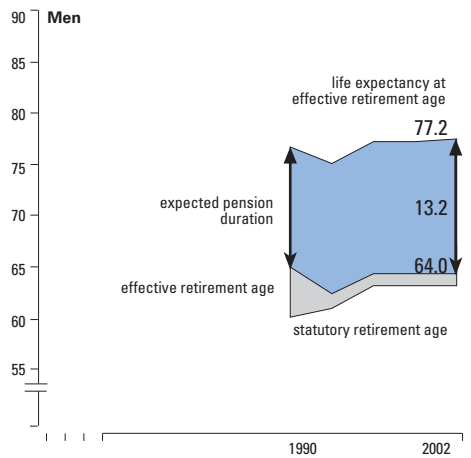
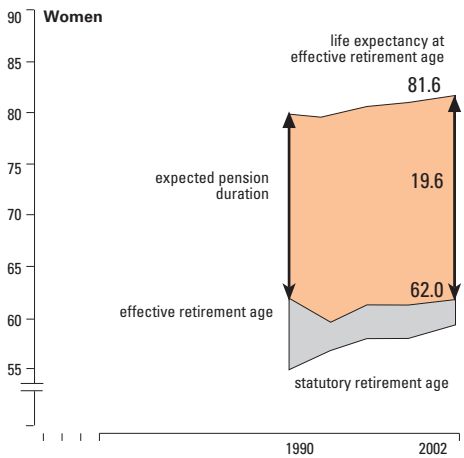


# Pension Duration of People Retiring Today

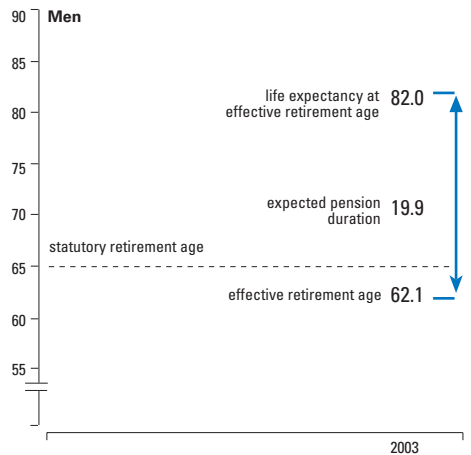
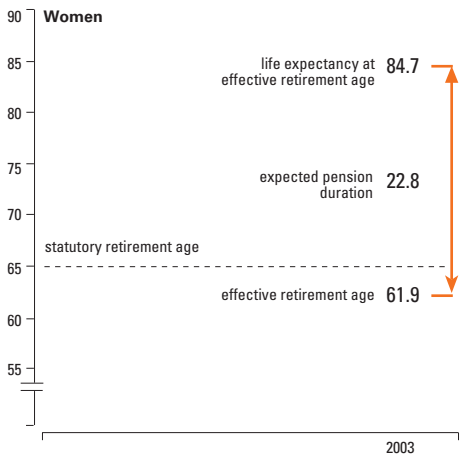
## Austria



## Estonia

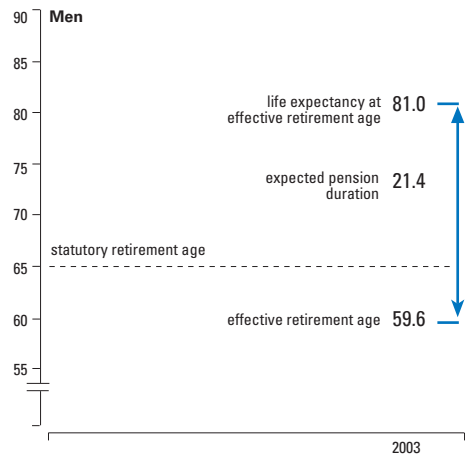
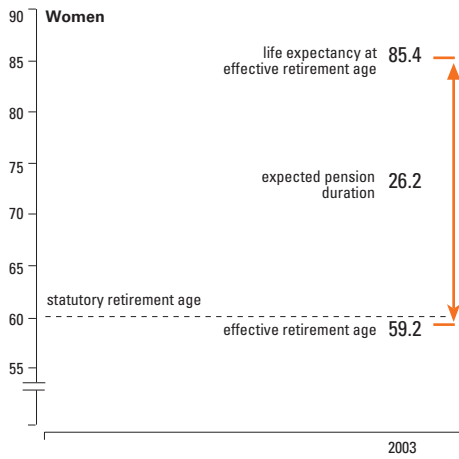


## Sweden

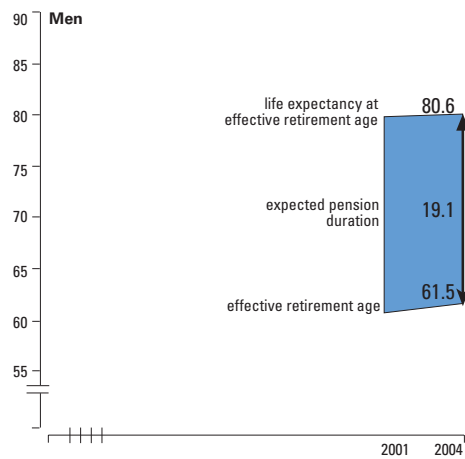


# Pension Duration of People Retiring Today

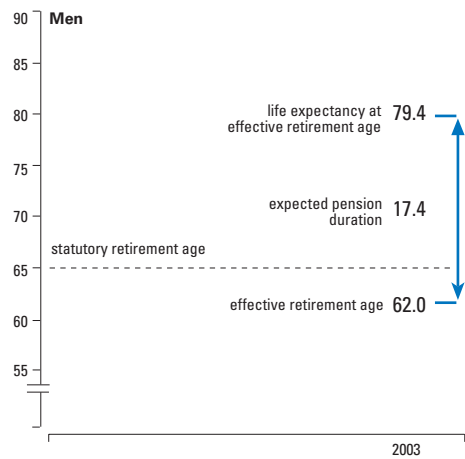
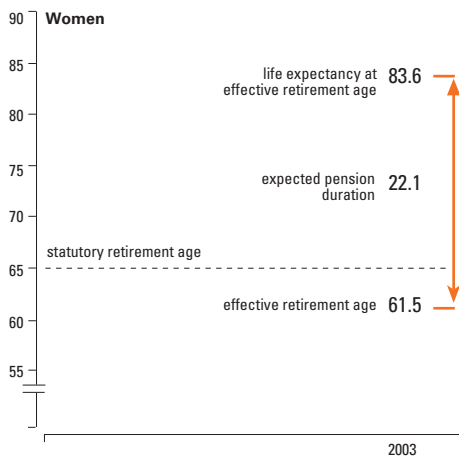
## Italy



## Spain



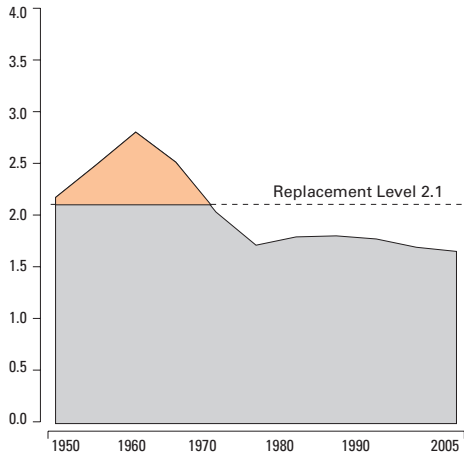
## Portugal



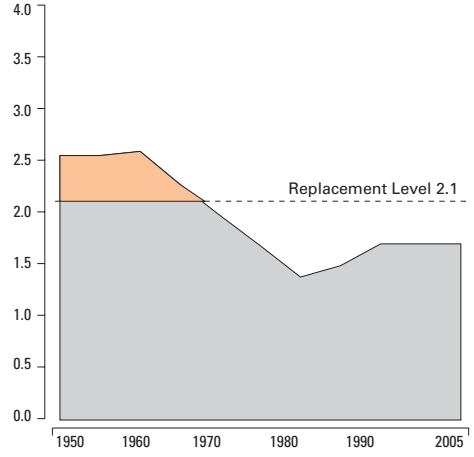


# Total Fertility Rate, 1950 - 2005

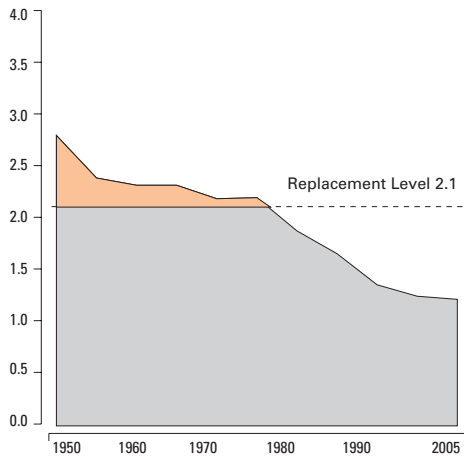
## Great Britain



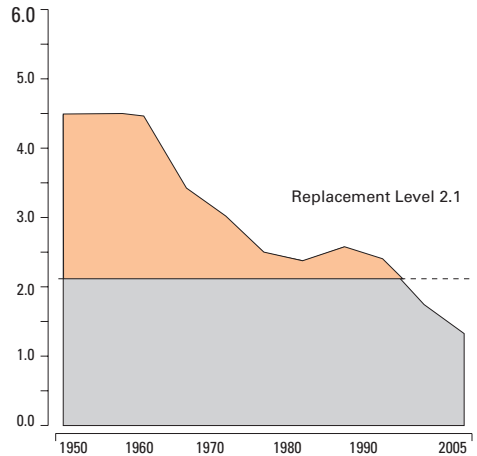
## Denmark



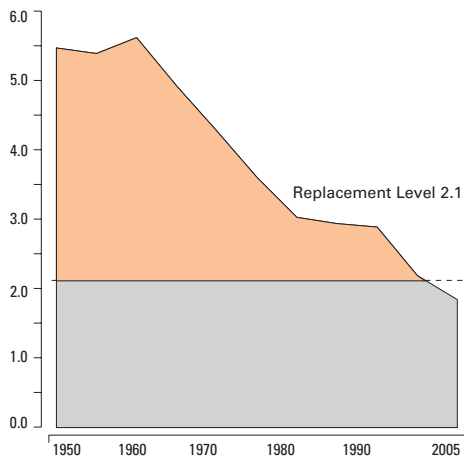
## Slovenia



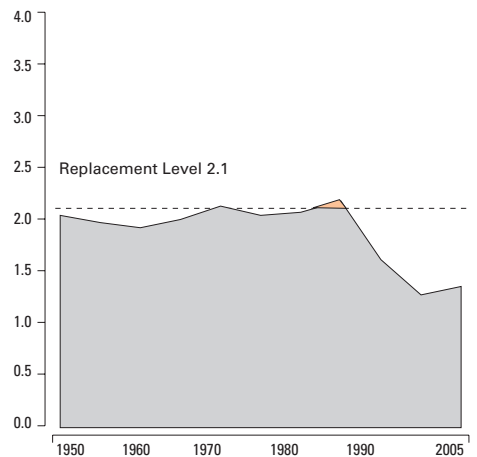
## Armenia



## Azerbaijan

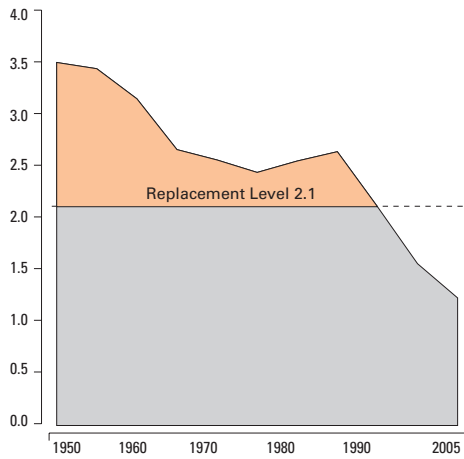


## Estonia

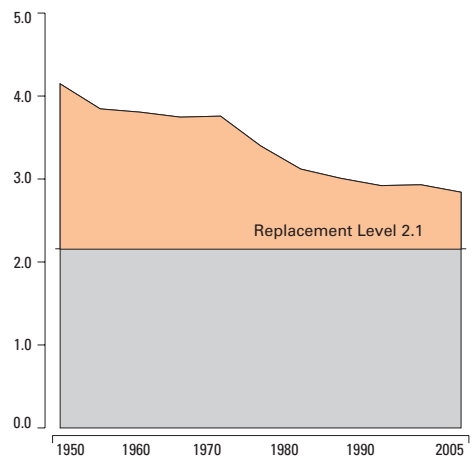


# Total Fertility Rate, 1950 - 2005

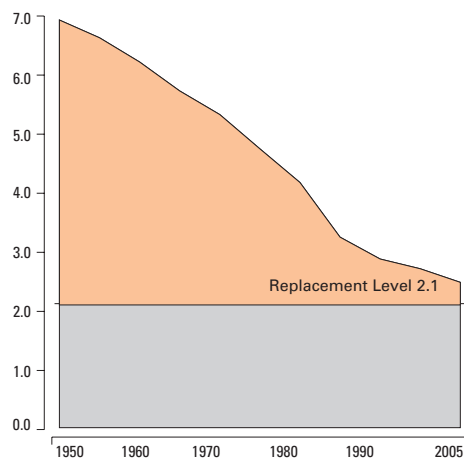
## Moldova



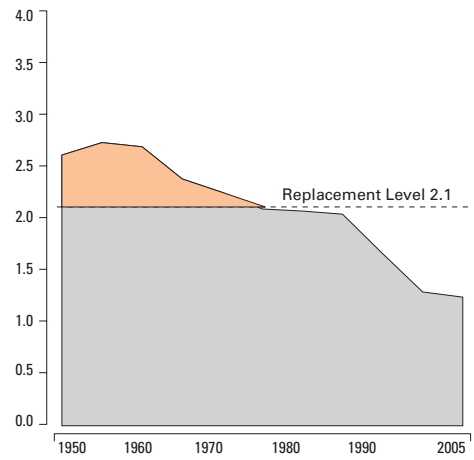
## Israel



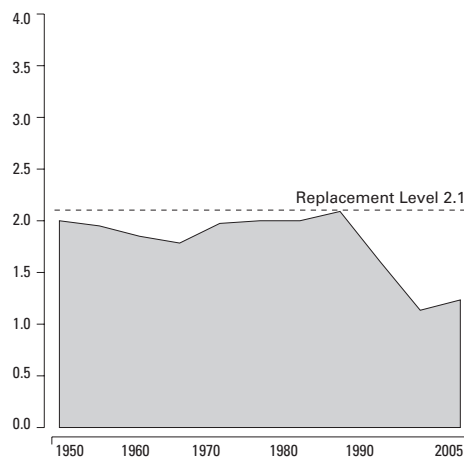
## Turkey



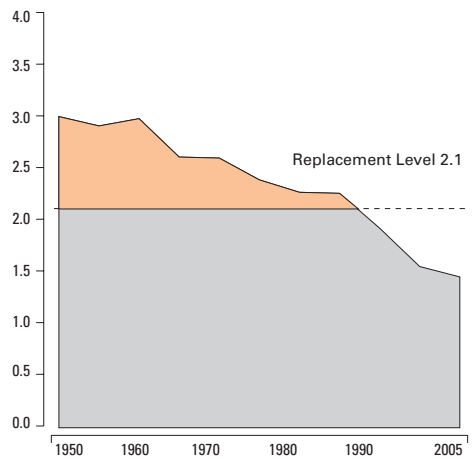
## Belarus



## Latvia



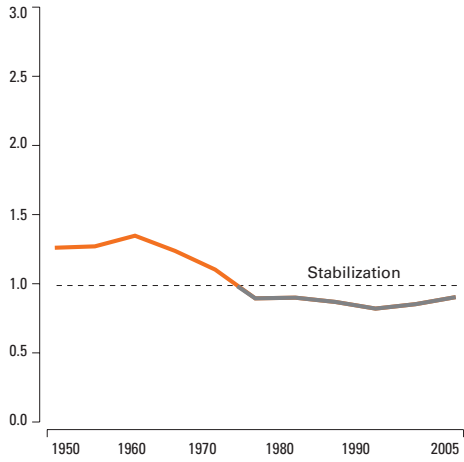
## Georgia



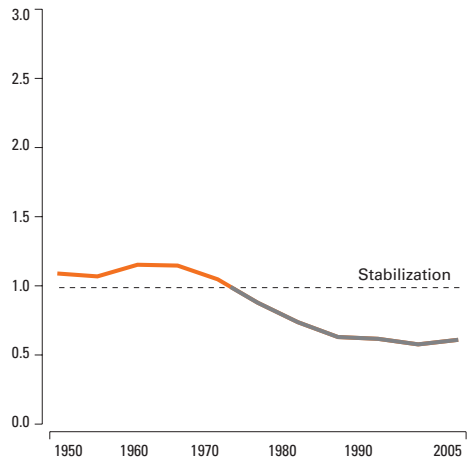
# Net Reproduction Rate\*, 1950-2005

\*Hypothetical number of daughters per woman (see technical appendix)

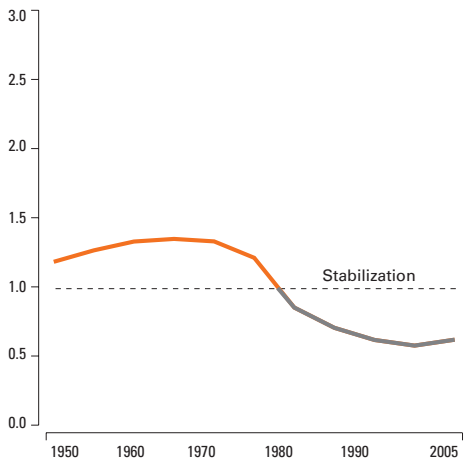
## France



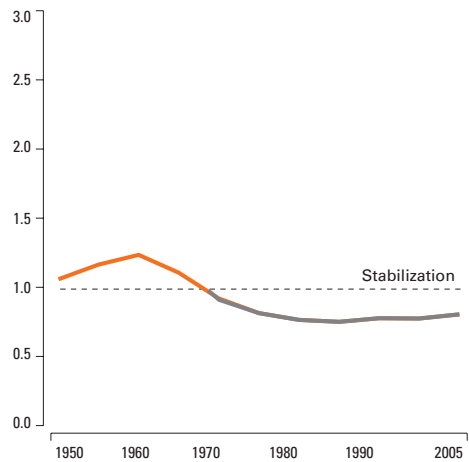
## Italy



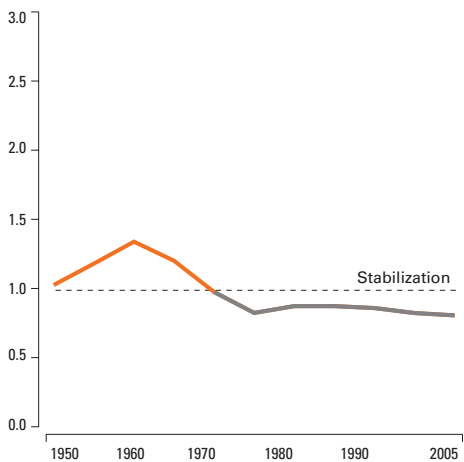
## Spain



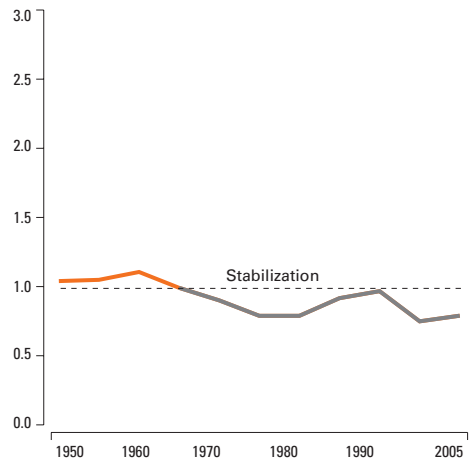
## Belgium



## Great Britain

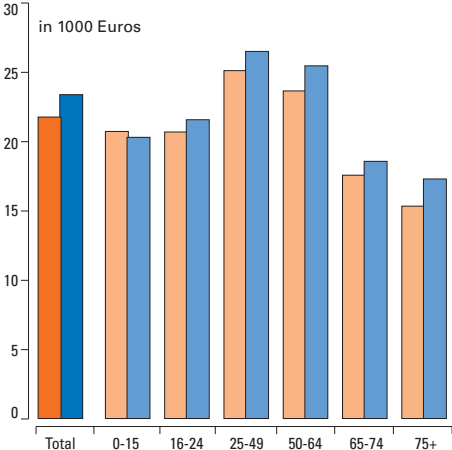


## Sweden

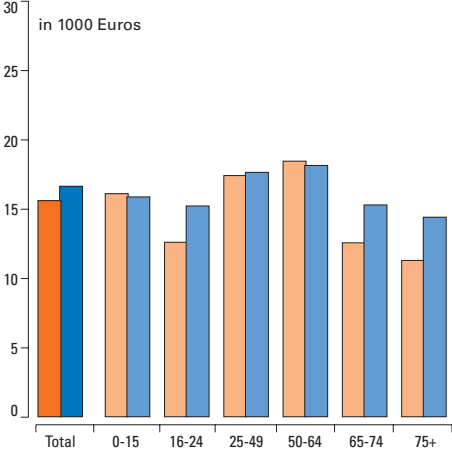


# Mean Equalised Net Household Income

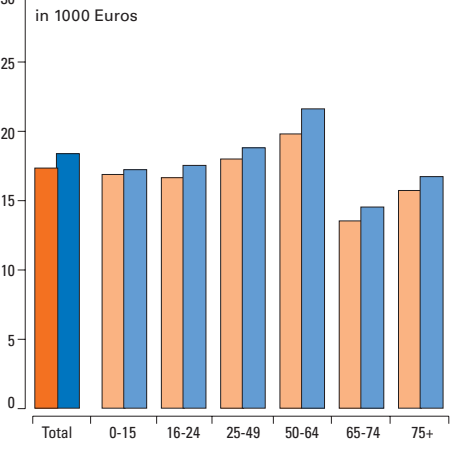
## Great Britain



## Finland

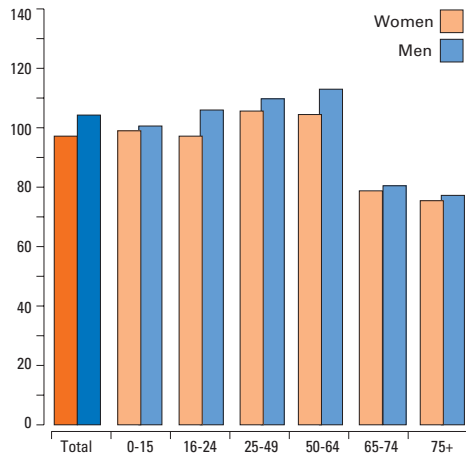


## Belgium

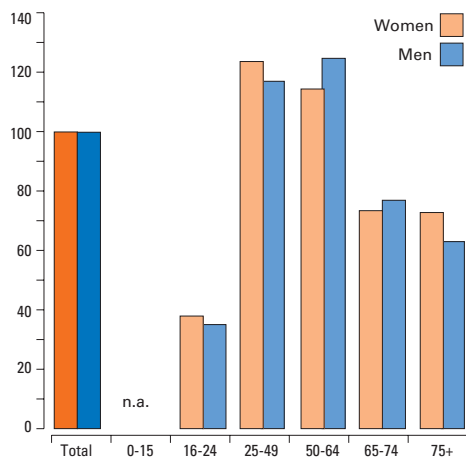


# Relative Disposable Income

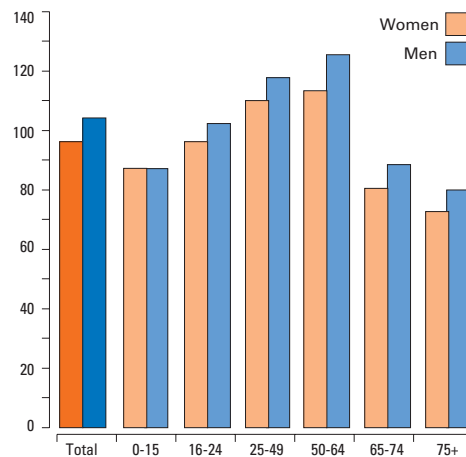
## Belgium



## Denmark

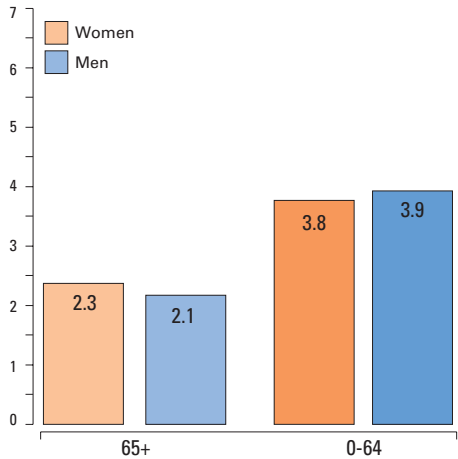


## Great Britain

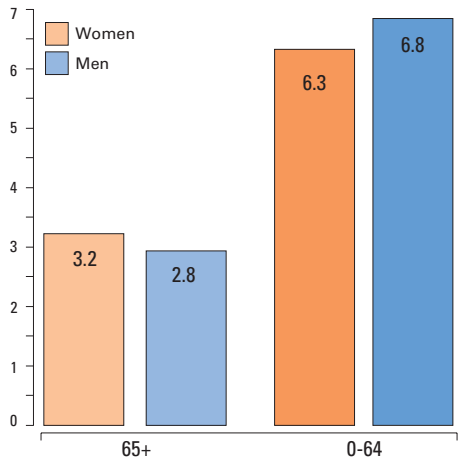


# S80/S20 Ratio of disposable Income

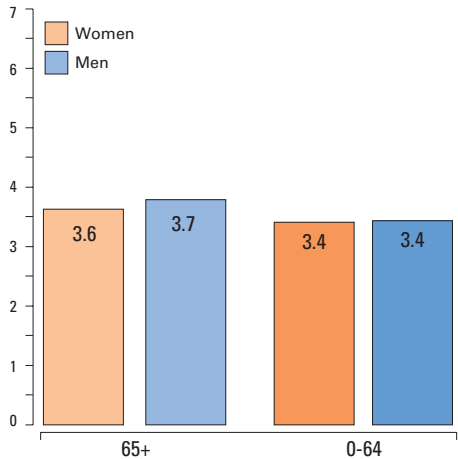
## Czech Republic



## Estonia

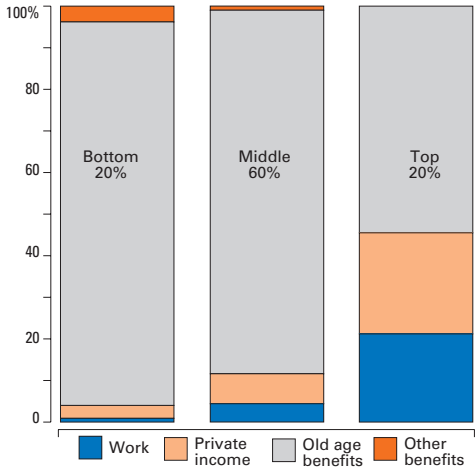


## Switzerland

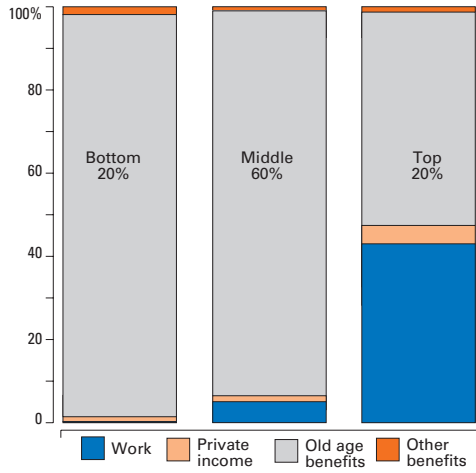


# Income Composition, by Income Groups, 2001

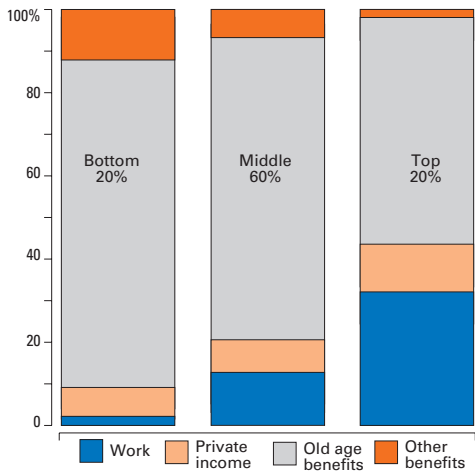
## Belgium



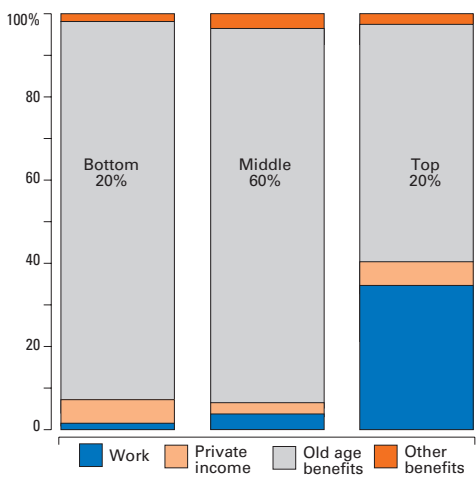
## Czech Republic



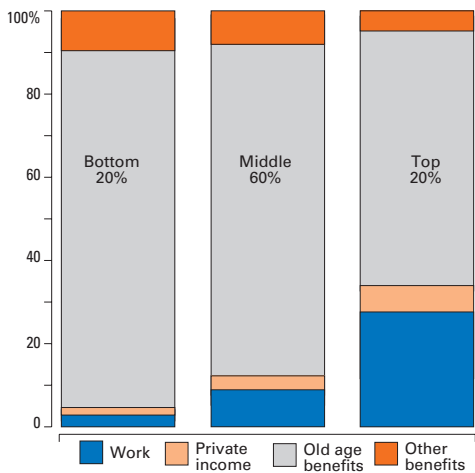
## Denmark



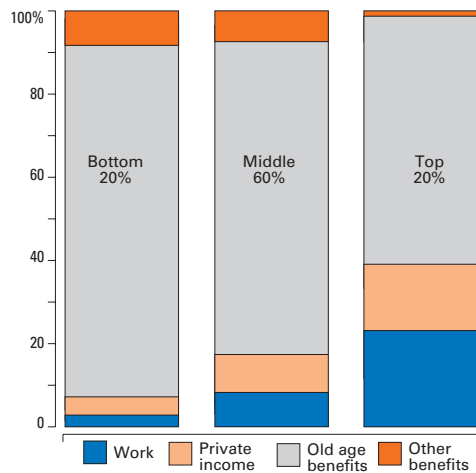
## Estonia



## Finland

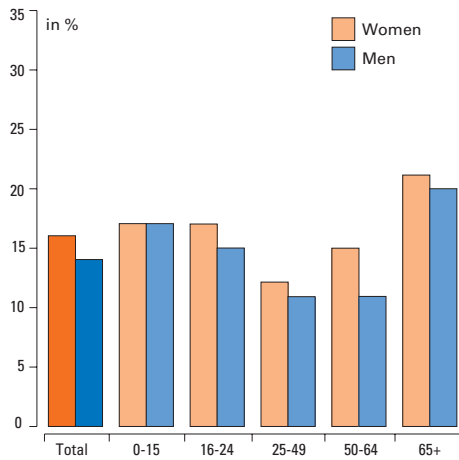


## Great Britain

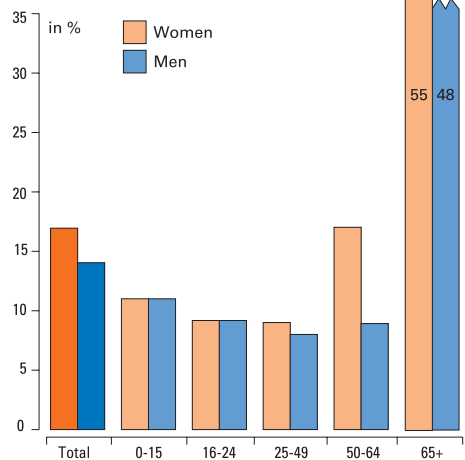


# Relative Income Poverty Rate, 2004

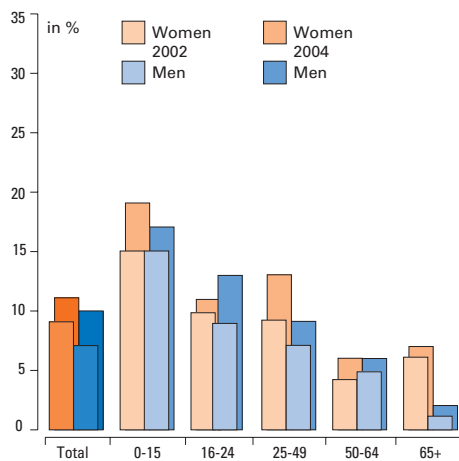
## Belgium



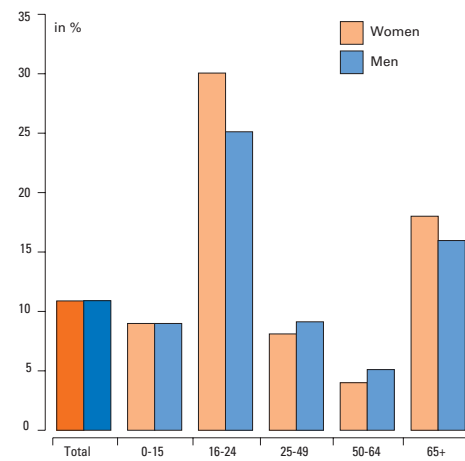
## Cyprus



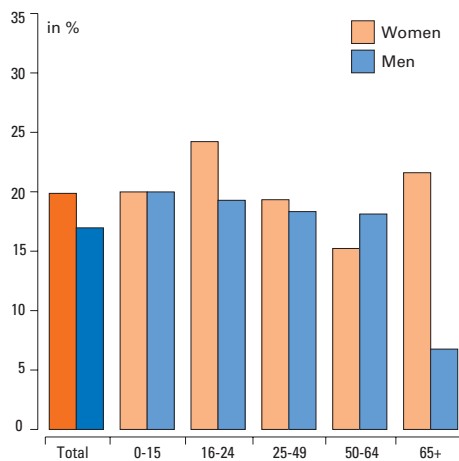
## Czech Republic



## Denmark



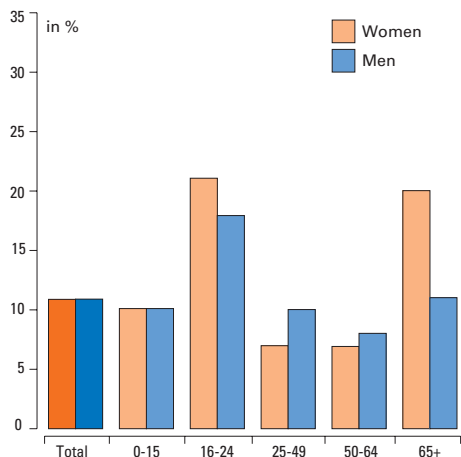
## Estonia



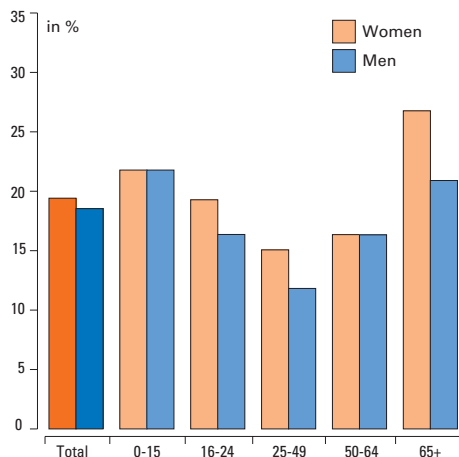


# Relative Income Poverty Rate, 2004

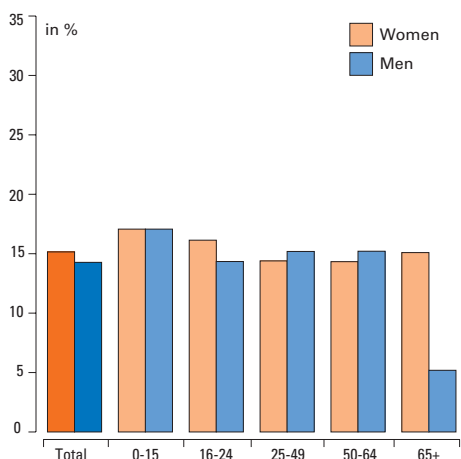
## Finland



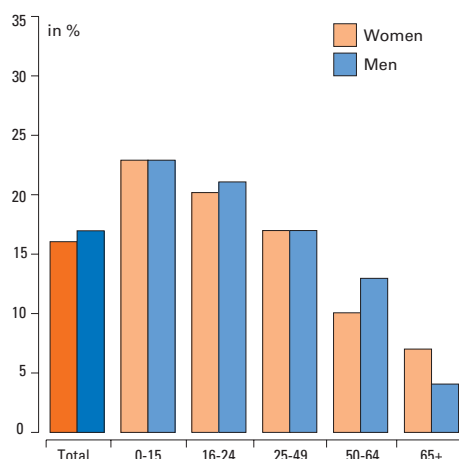
## Great Britain



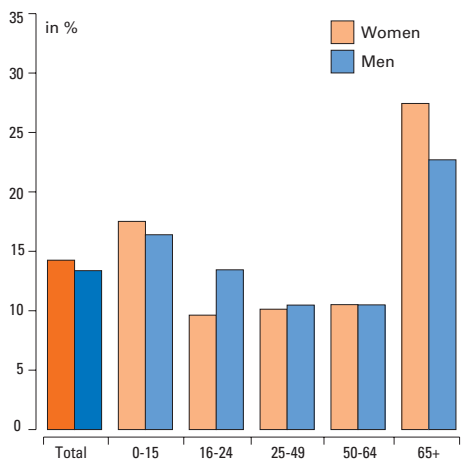
## Lithuania



## Poland

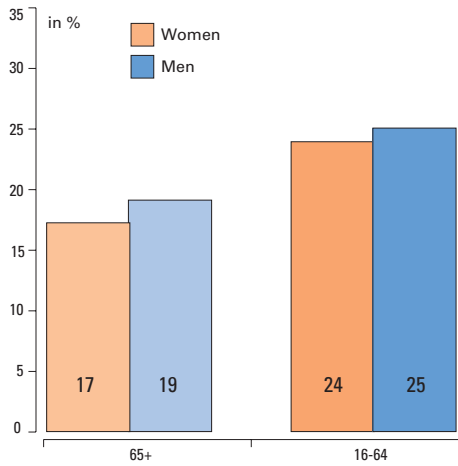


## Switzerland

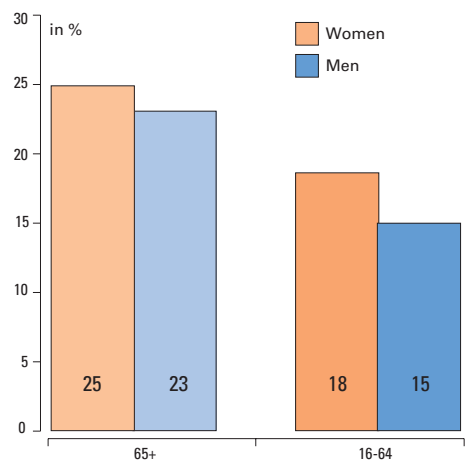


# Median Income Poverty Gap

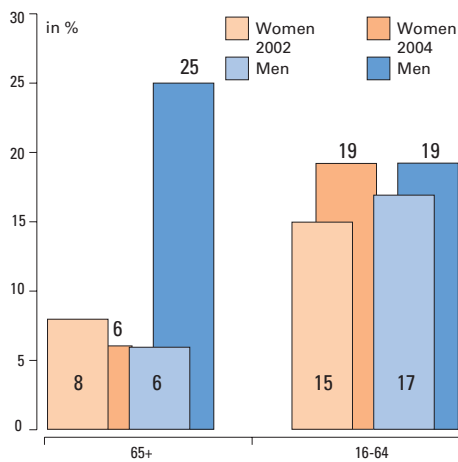
## Belgium



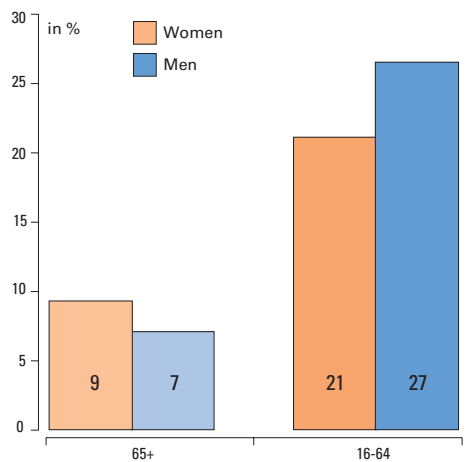
## Cyprus



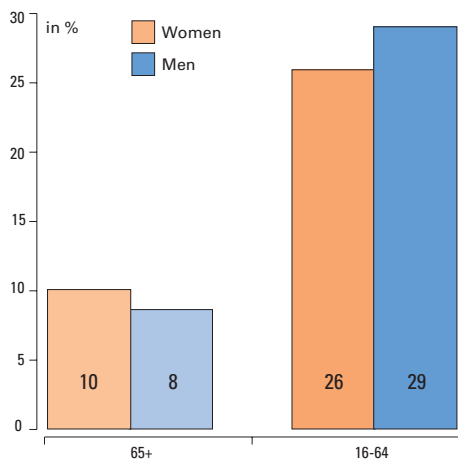
## Czech Republic



## Denmark

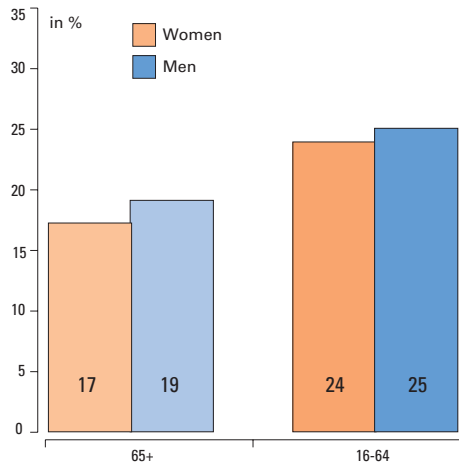


## Estonia

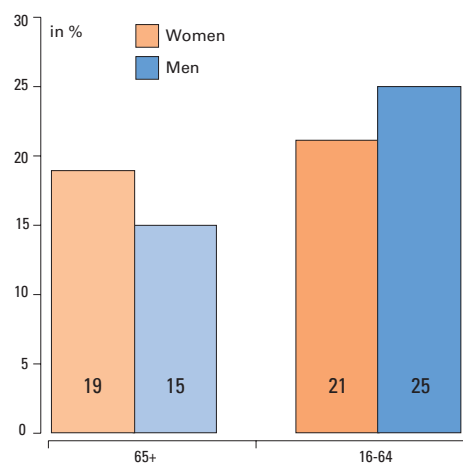


# Median Income Poverty Gap

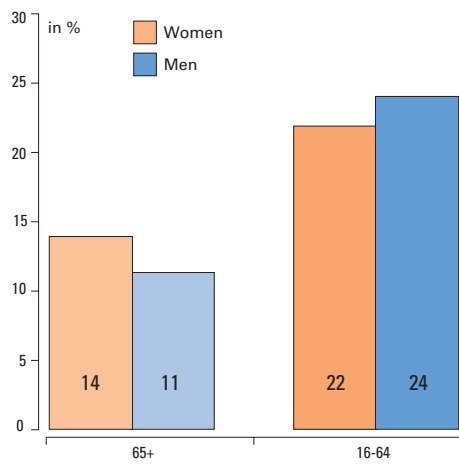
## Finland



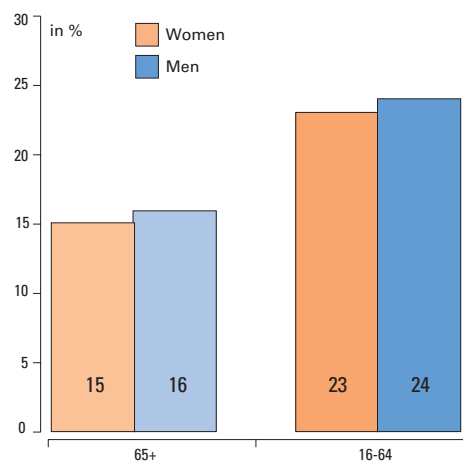
## Great Britain



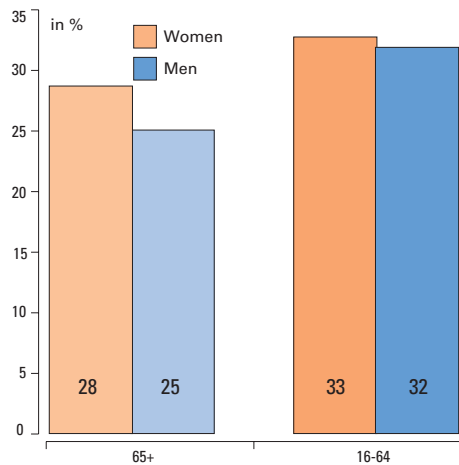
## Lithuania



## Poland

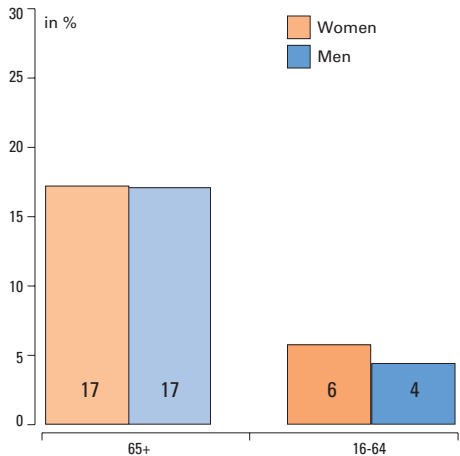


## Switzerland

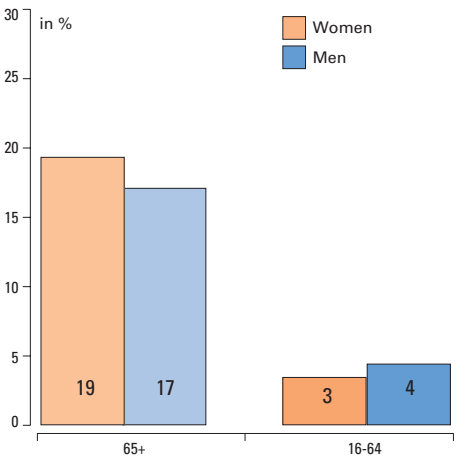


# Persistent Income Poverty Rates

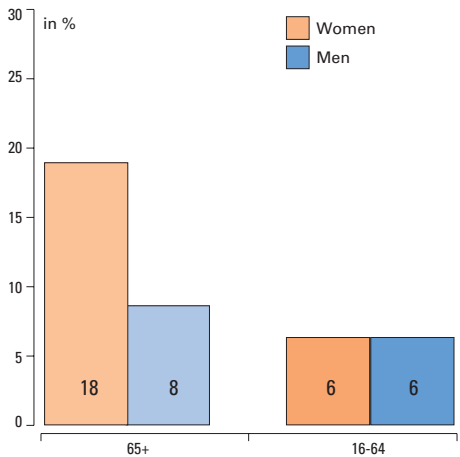
## Belgium



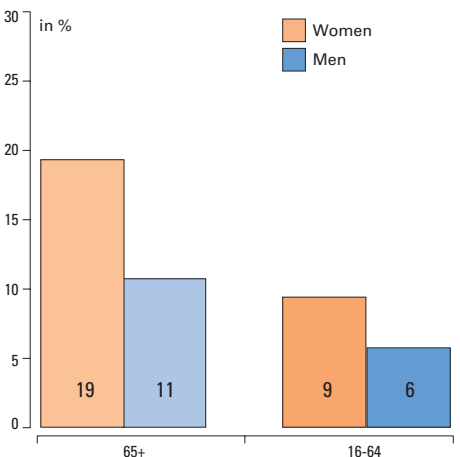
## Denmark



## Finland

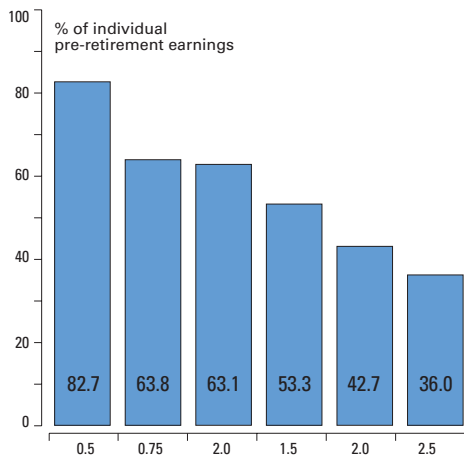


## Great Britain

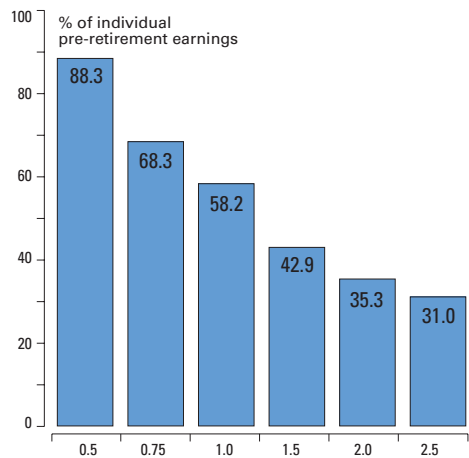


# Net Replacement Rates by Earnings Level

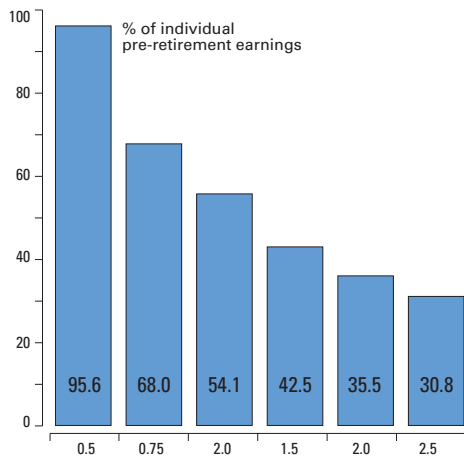
## Belgium



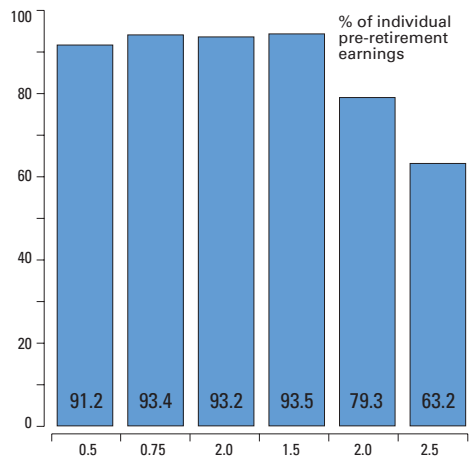
## Czech Republic



## Denmark

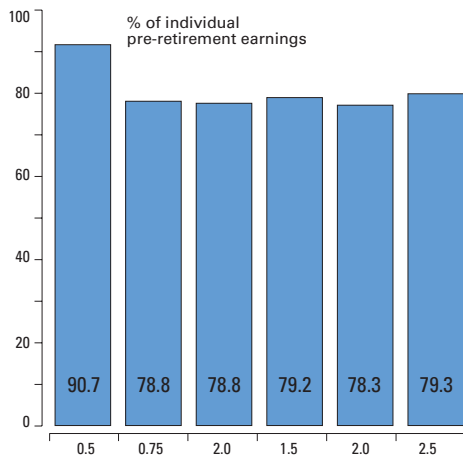


## Estonia

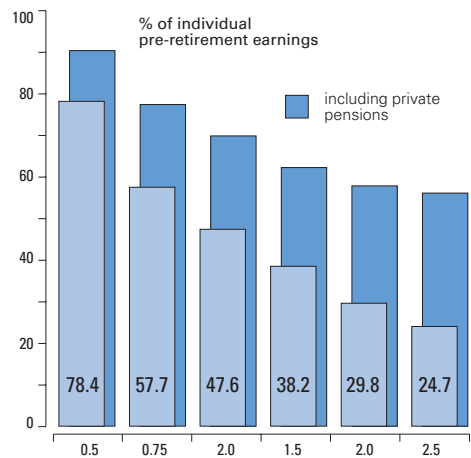


# Net Replacement Rates

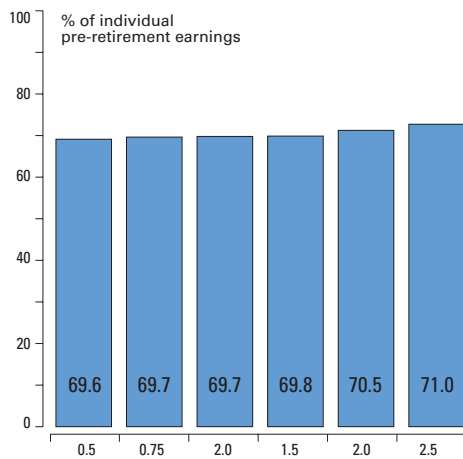
## Finland



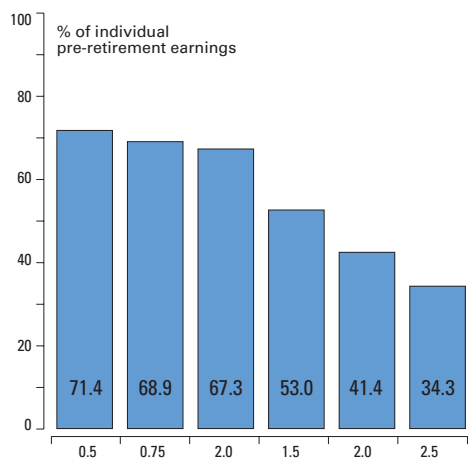
## Great Britain



## Poland

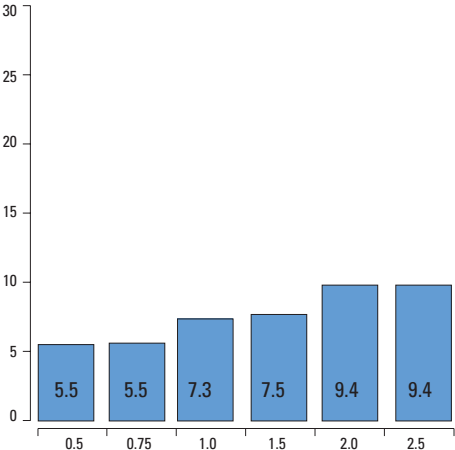


## Switzerland

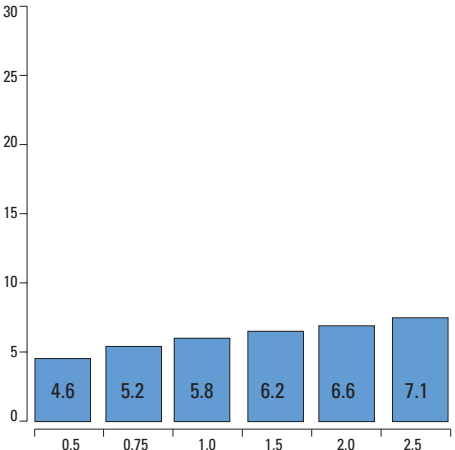


# Gross Pension Wealth by Earnings Level

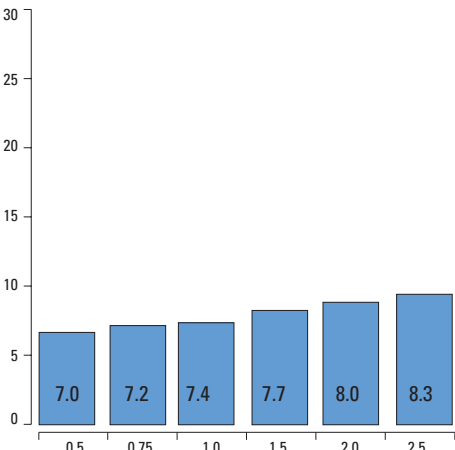
### Belgium



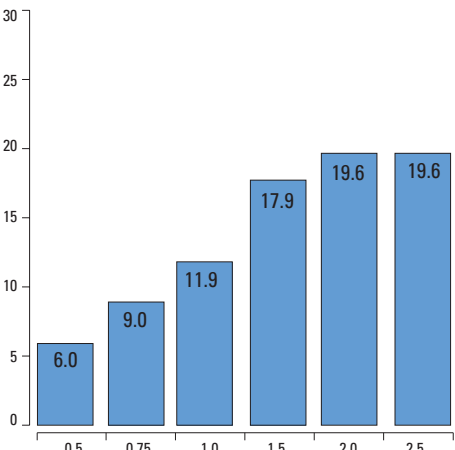
### Czech Republic



### Denmark

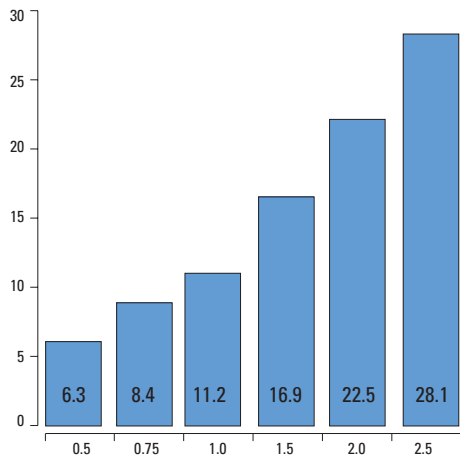


### Estonia

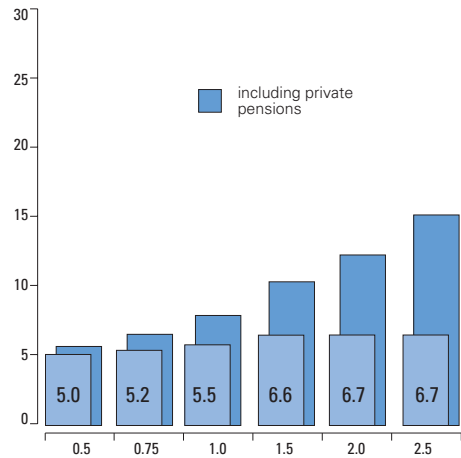


# Gross Pension Wealth by Earnings Level

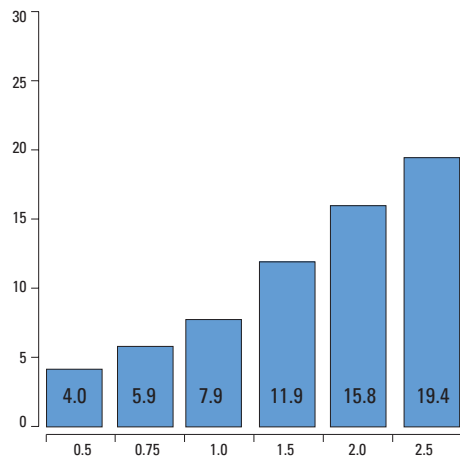
## Finland



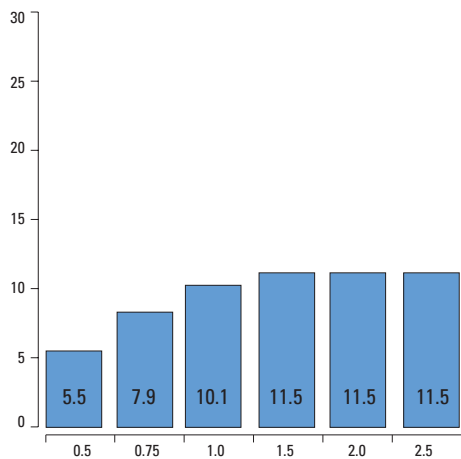
## Great Britain



## Poland



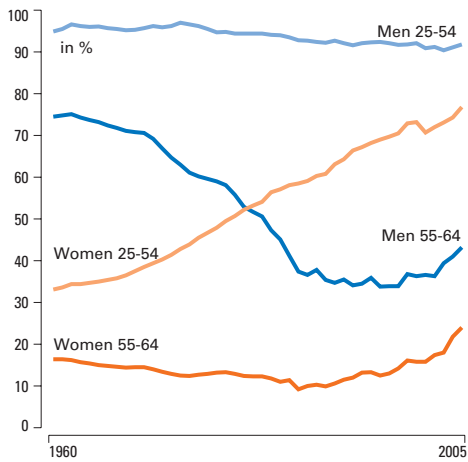
## Switzerland



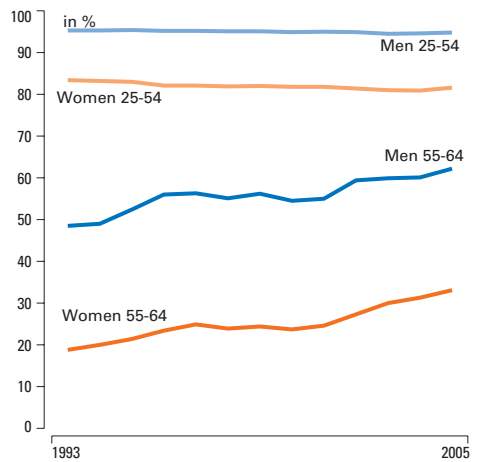


# Labour Force Participation Rates, 1984 - 2005

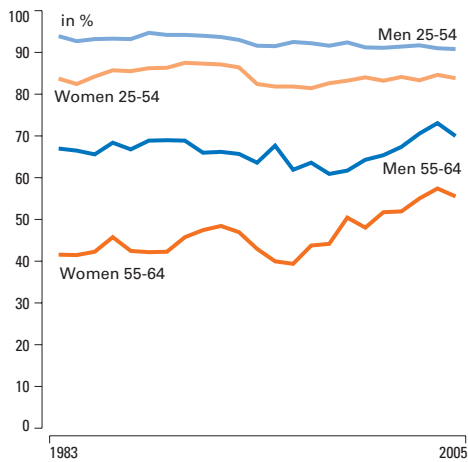
## Belgium



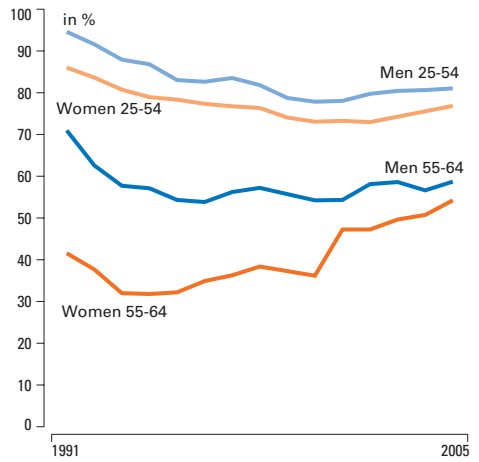
## Czech Republic



## Denmark

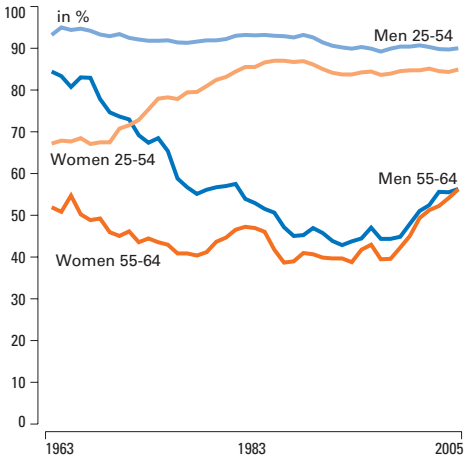


## Estonia

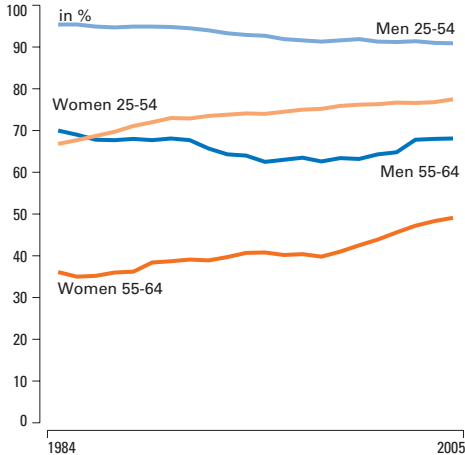


# Labour Force Participation Rates, 1984 - 2005

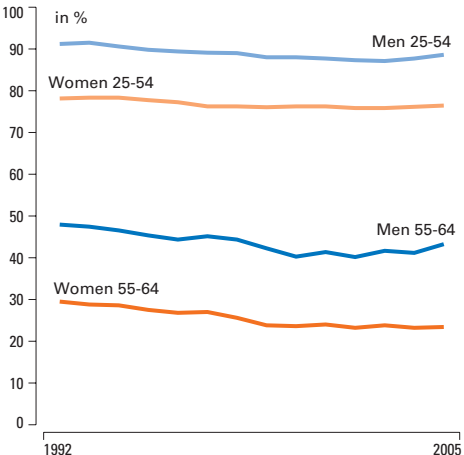
## Finland



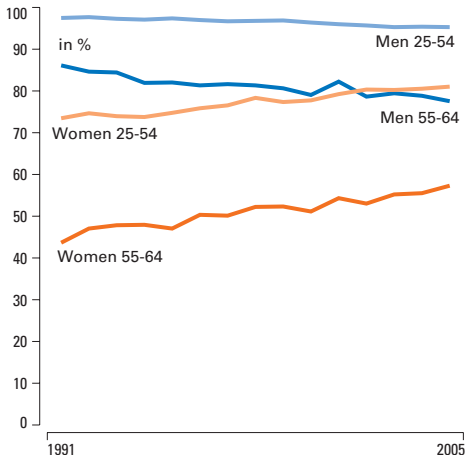
## Great Britain



## Poland

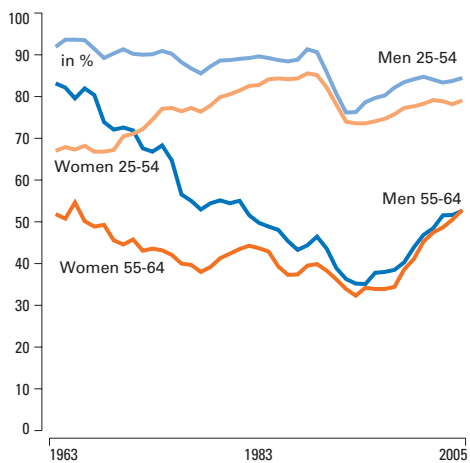


## Switzerland

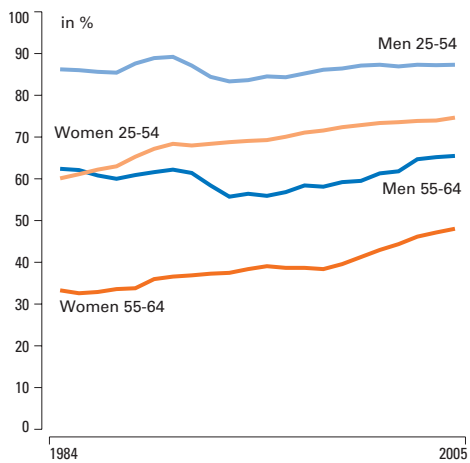


# Employment Rates, 1983-2005

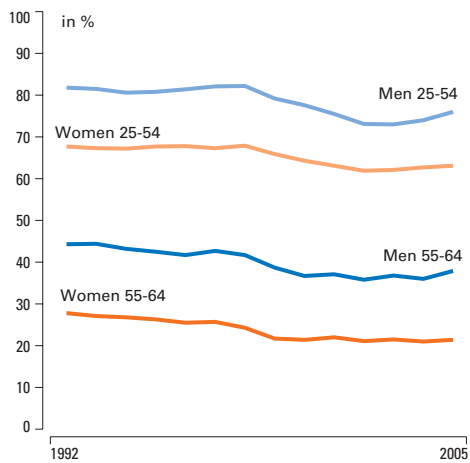
## Finland



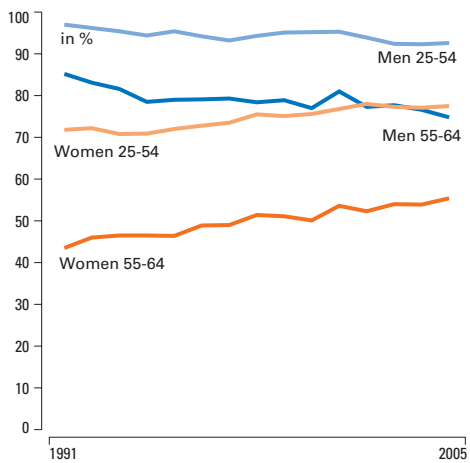
## Great Britain



## Poland

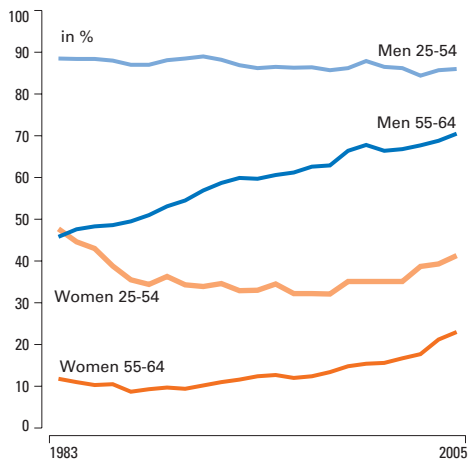


## Switzerland

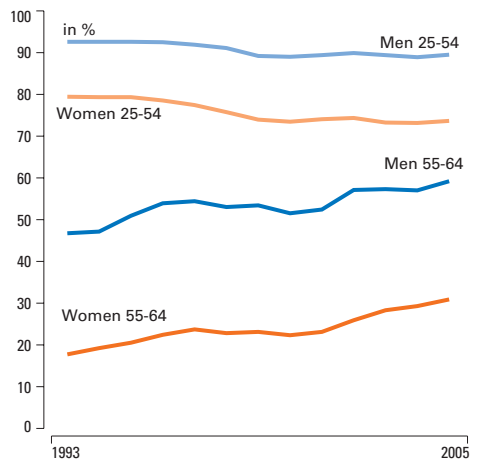


# Employment Rates, 1983-2005

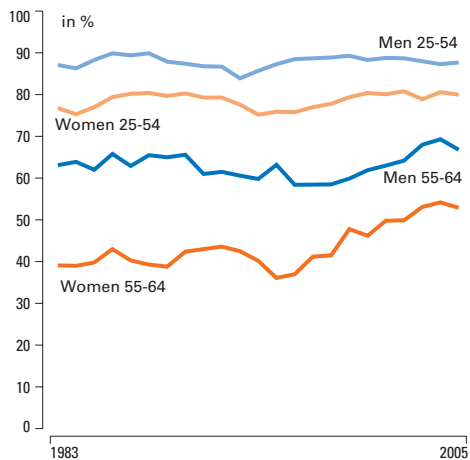
## Belgium



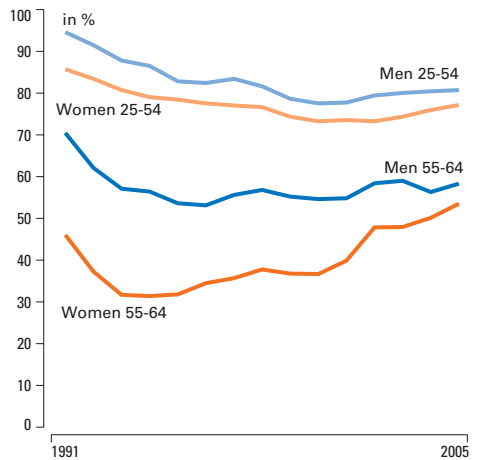
## Czech Republic



## Denmark

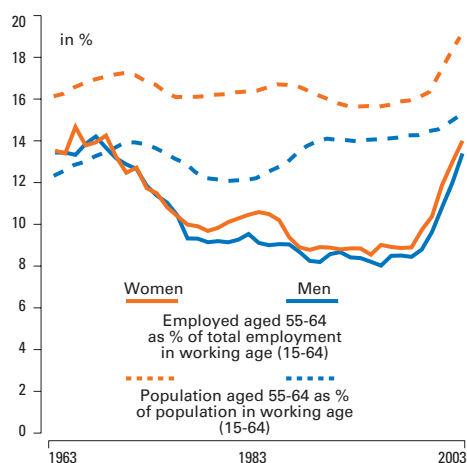


## Estonia

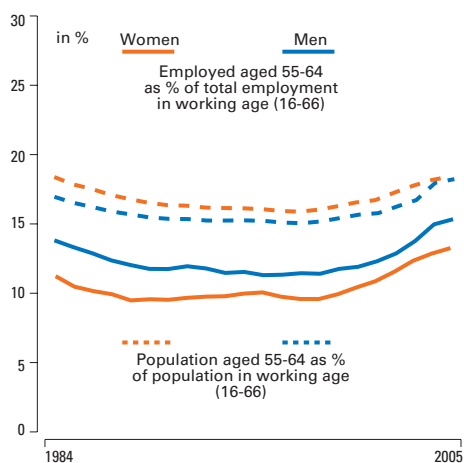


# Share of Workers aged 55-64 in Employment and Population, 1983-2005

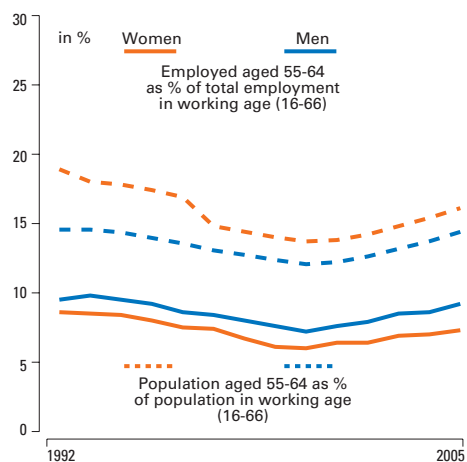
## Finland



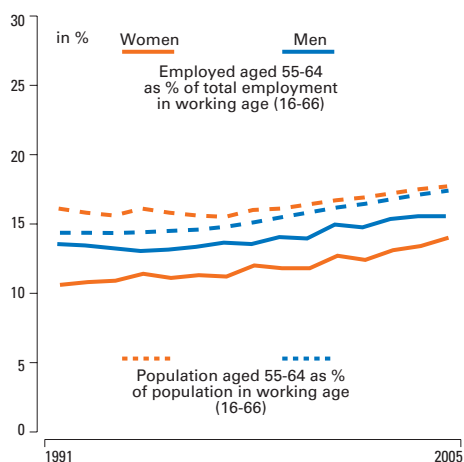
## Great Britain



## Poland

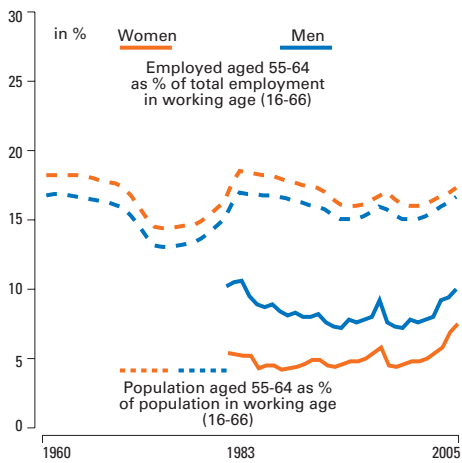


## Switzerland

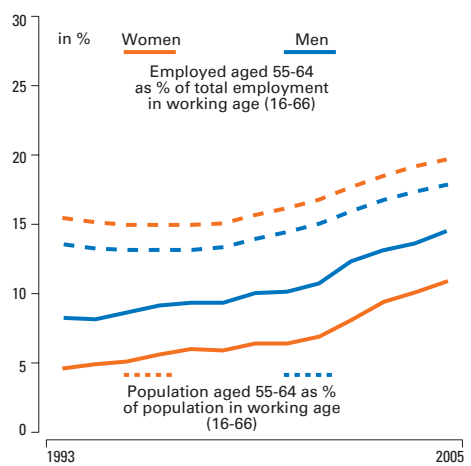


# Share of Workers aged 55-64 in Employment and Population, 1983-2005

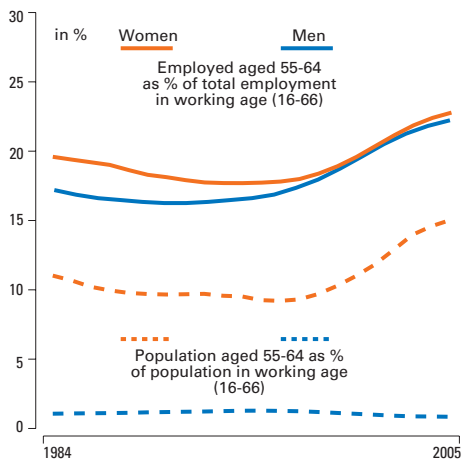
## Belgium



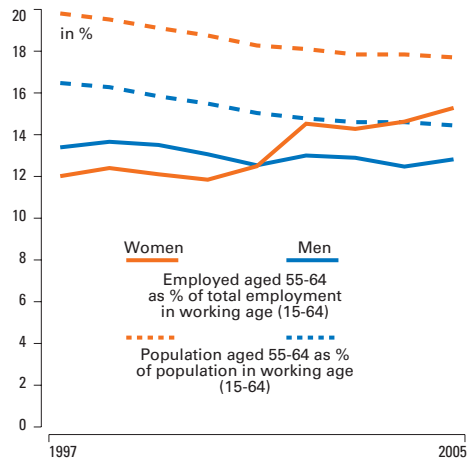
## Czech Republic



## Denmark

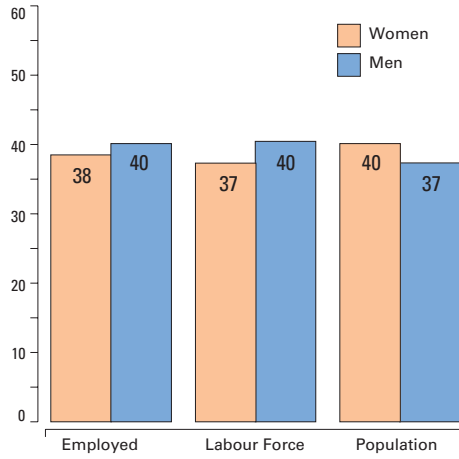


## Estonia

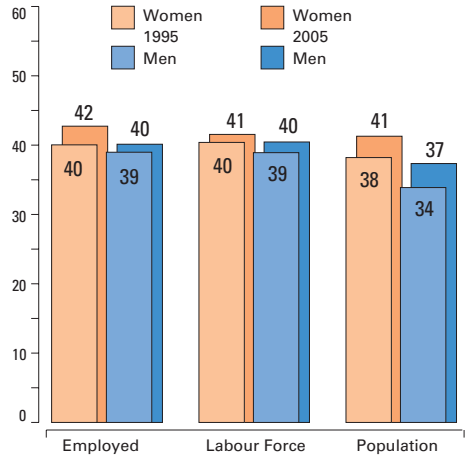


# Median Age of Population and Workforce

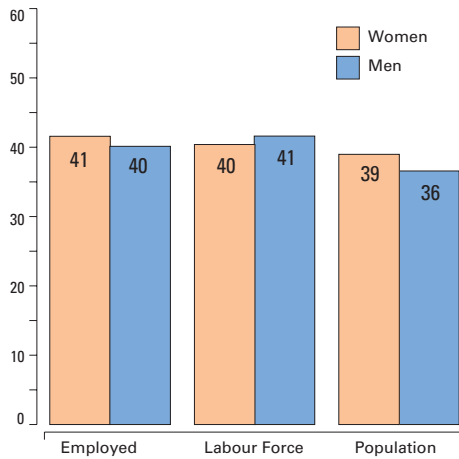
## Belgium



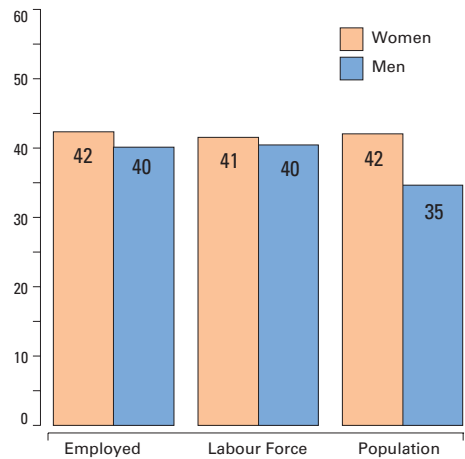
## Czech Republic



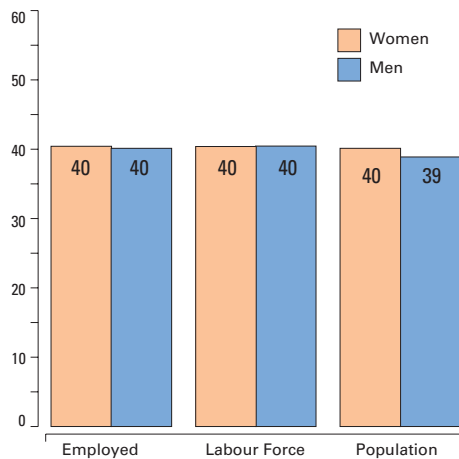
## Denmark



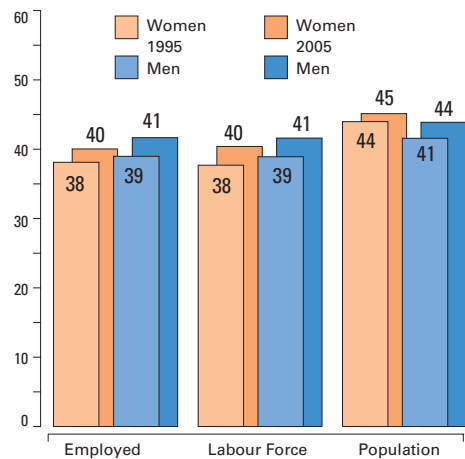
## Estonia



## Great Britain

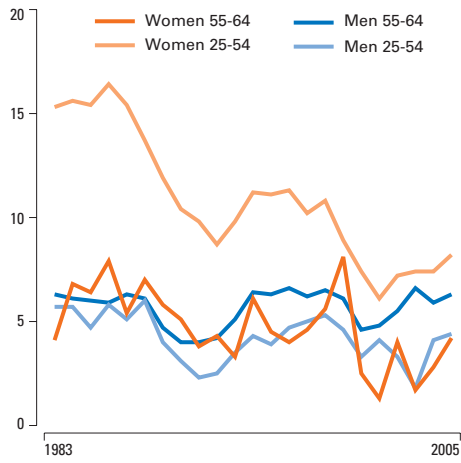


## Switzerland

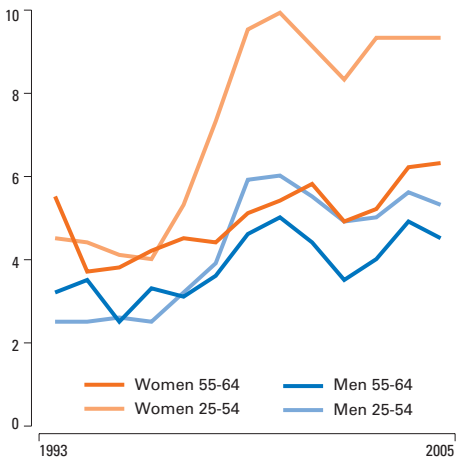


# Unemployment Rates, Prime Age and Workers 55-64, 1983 - 2005

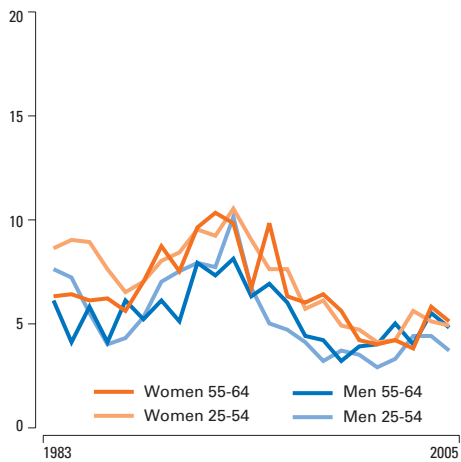
## Belgium



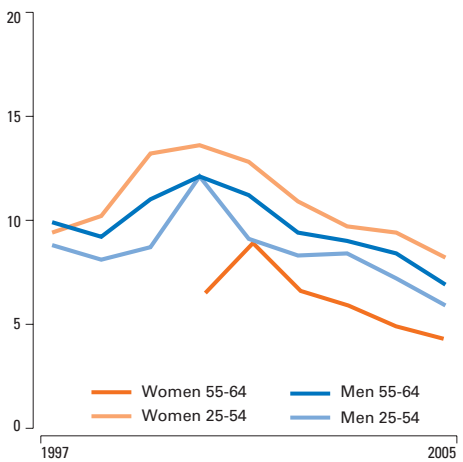
## Czech Republic



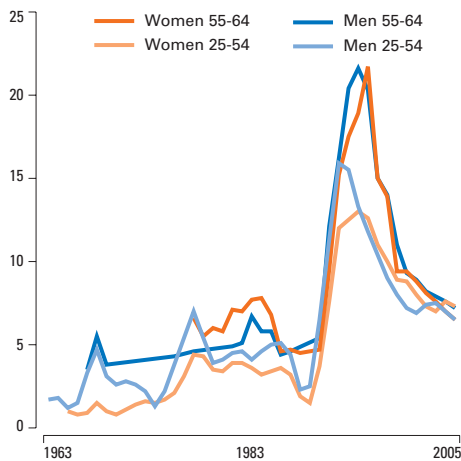
## Denmark



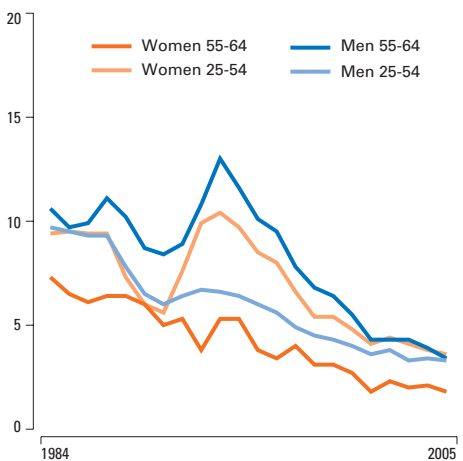
## Estonia



## Finland



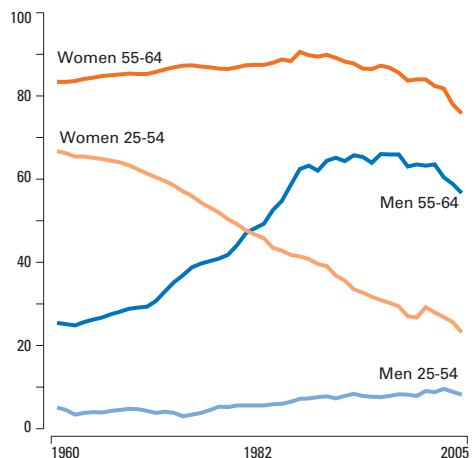
## Great Britain



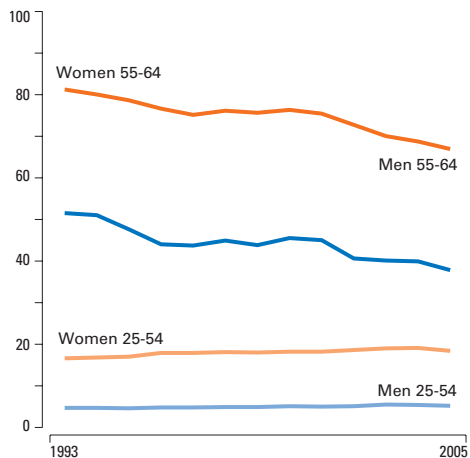


# Inactivity Rates, Prime Age and Workers 55-64

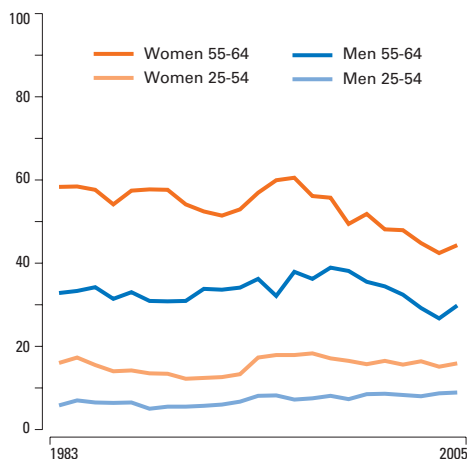
## Belgium



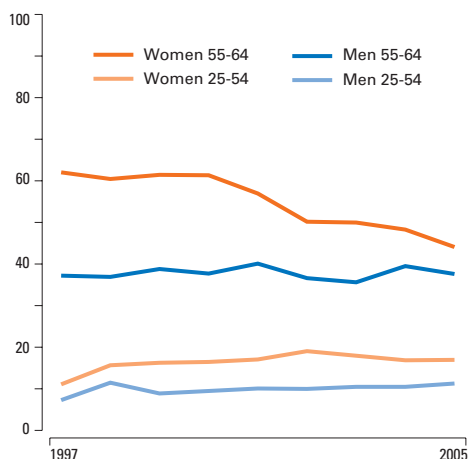
## Czech Republic



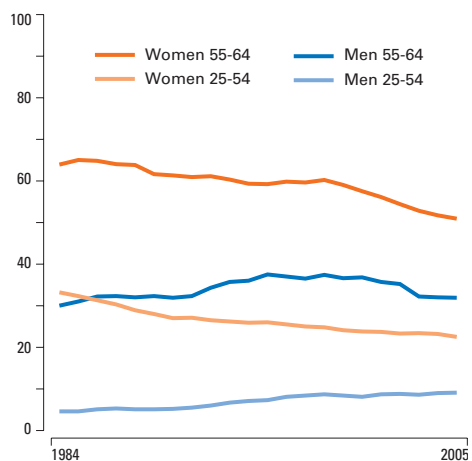
## Denmark



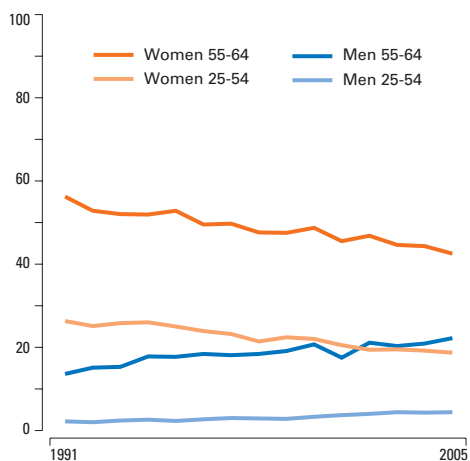
## Estonia



## Great Britain

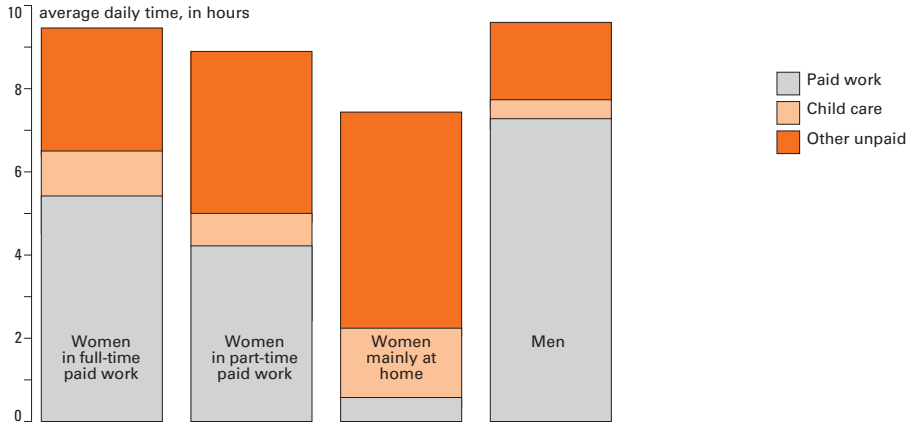


## Switzerland

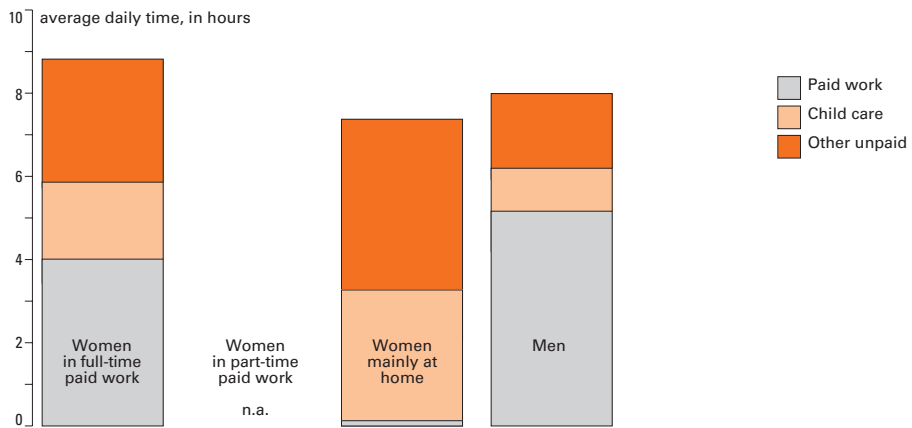


# Time Spent in Paid vs. Unpaid Work Activities

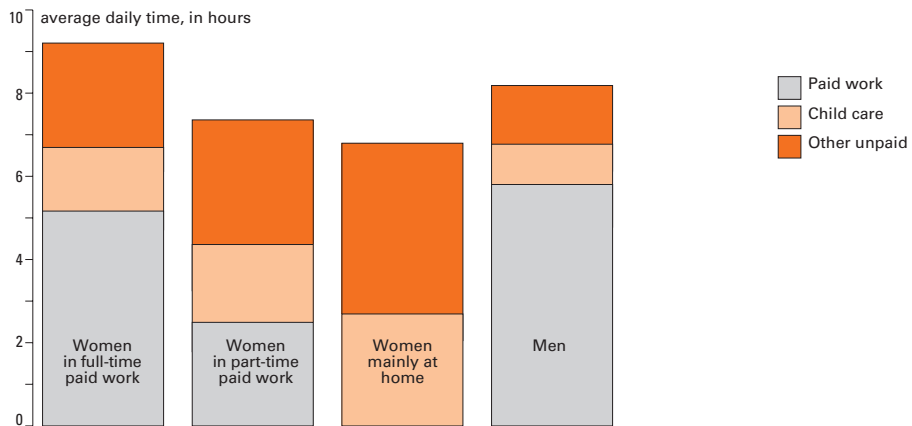
## Denmark



## Finland

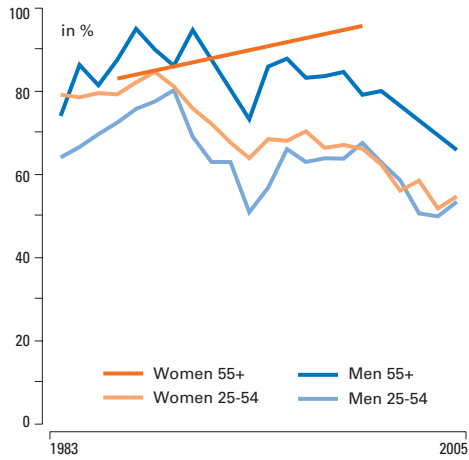


## Great Britain

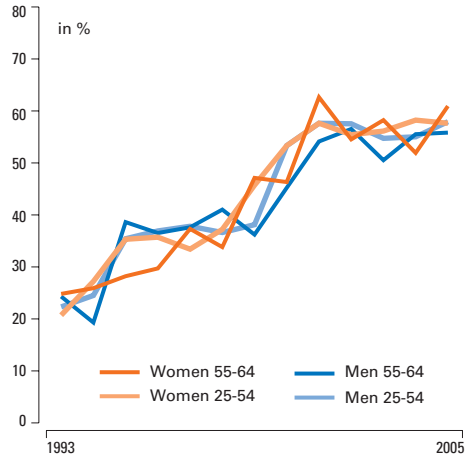


# Long-Term Unemployment Rates

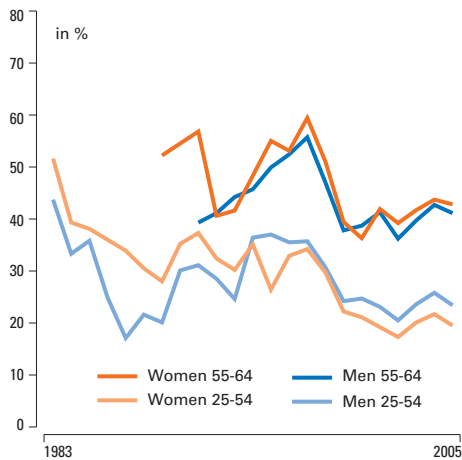
## Belgium



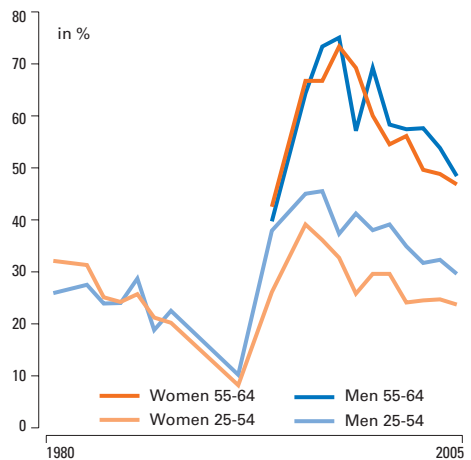
## Czech Republic



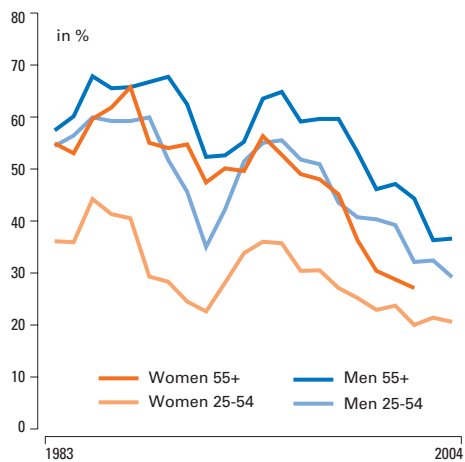
## Denmark



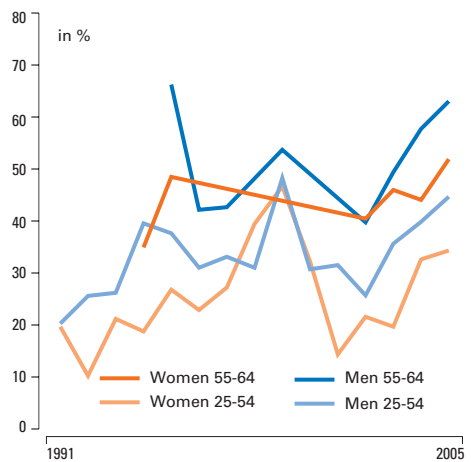
## Finland



## Great Britain

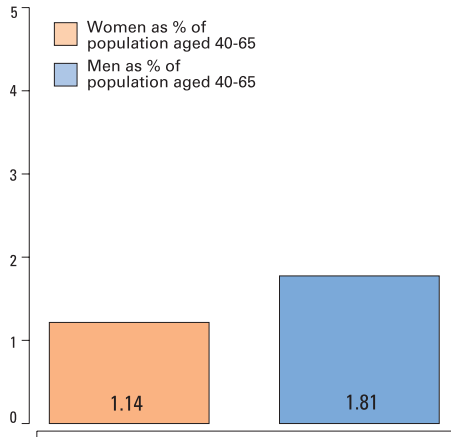


## Switzerland

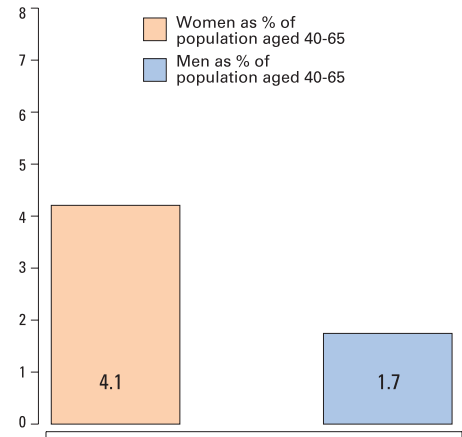


# Share of Non-Employed Disability Benefit Recipients

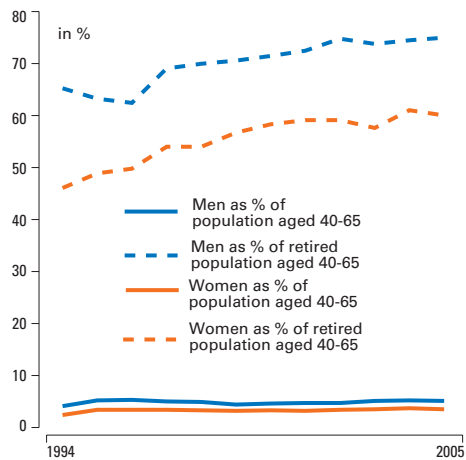
## Belgium



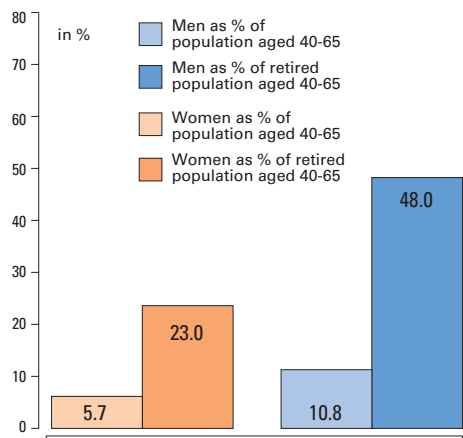
## Denmark



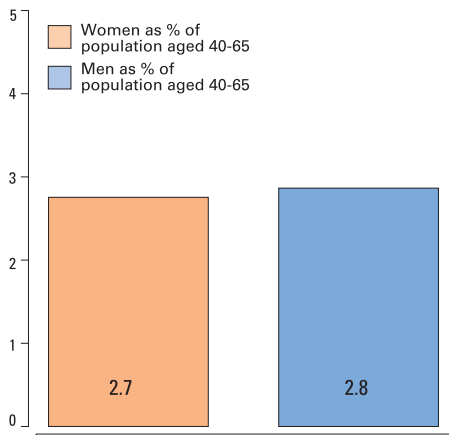
## Czech Republic



## Estonia



## Great Britain

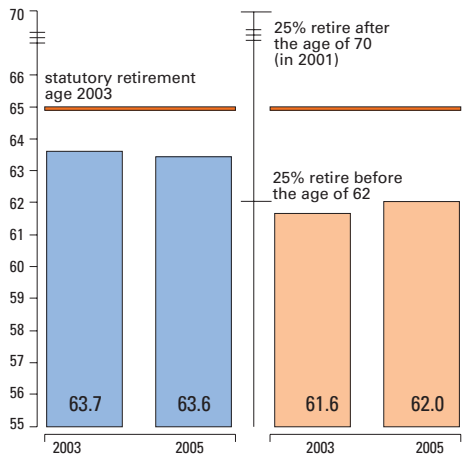


# Average Effective Labour Market Exit Age

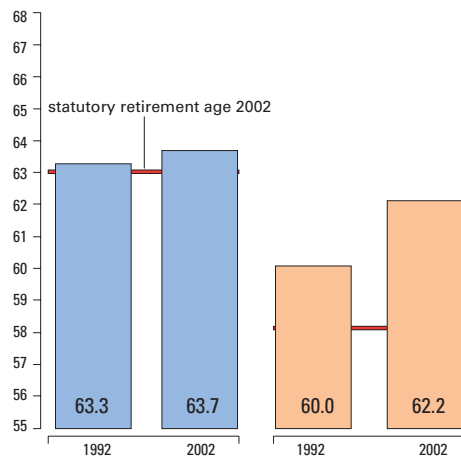
## Belgium



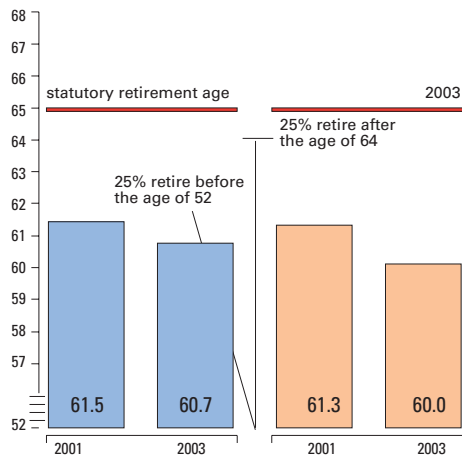
## Denmark



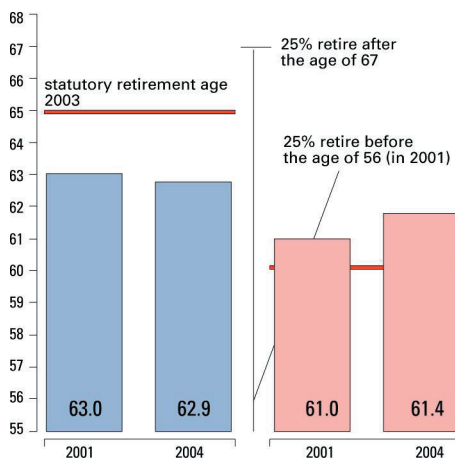
## Estonia



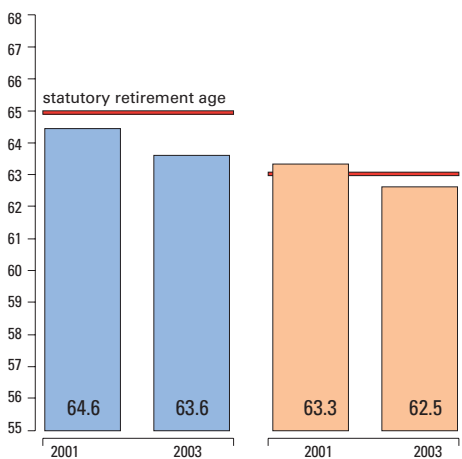
## Finland



## Great Britain

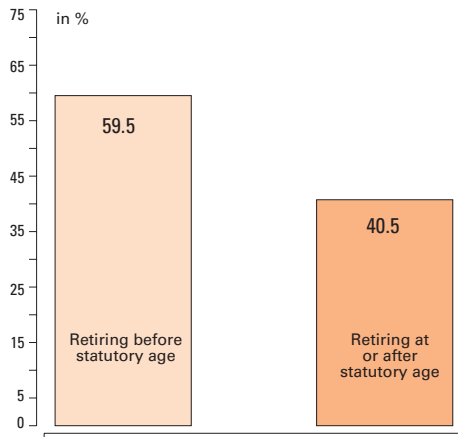


## Switzerland

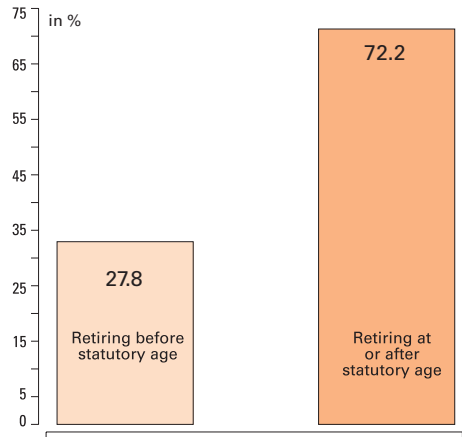


# Early / Late Retirement

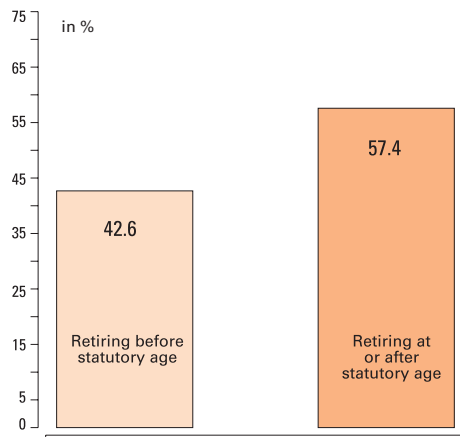
## Belgium



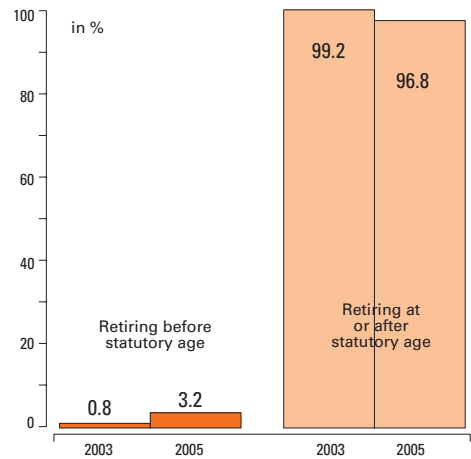
## Austria



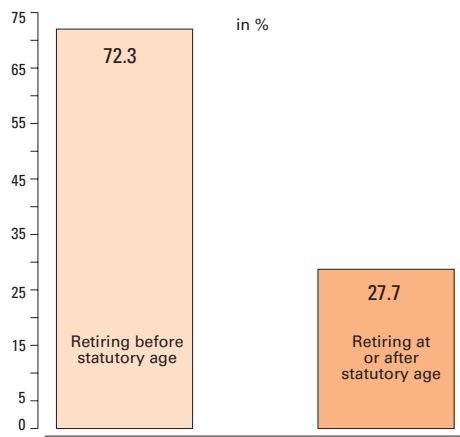
## Denmark



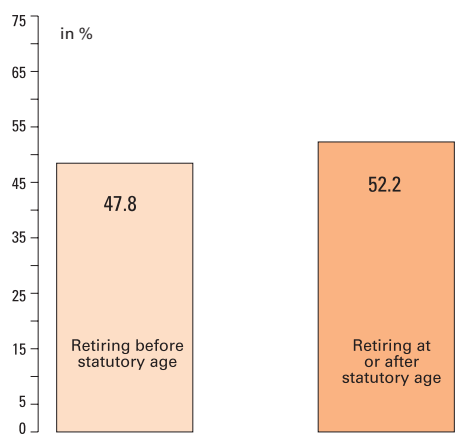
## Estonia



## Finland

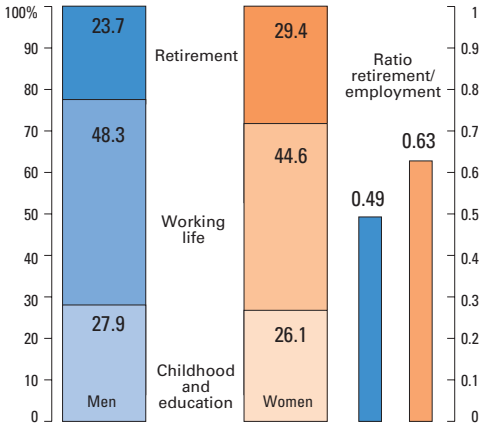


## Great Britain



# Lifetime Allocation

## Belgium



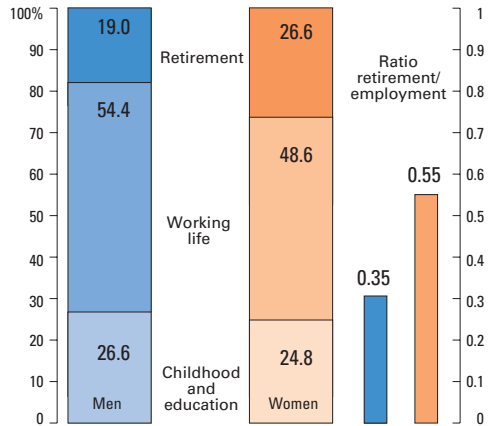
## Czech Republic



## Denmark



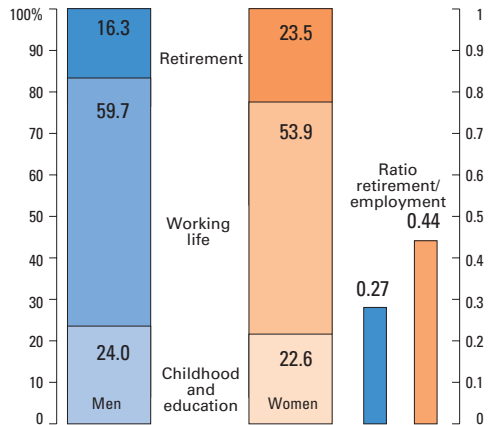
## Finland



## Great Britain

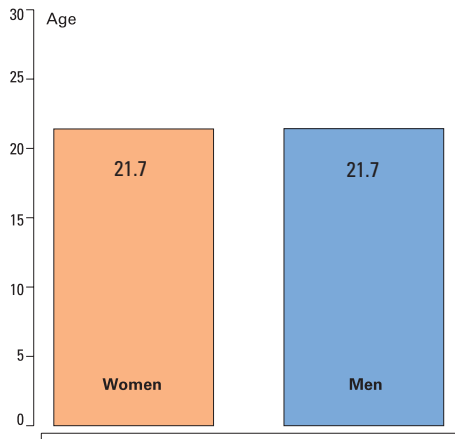


## Switzerland

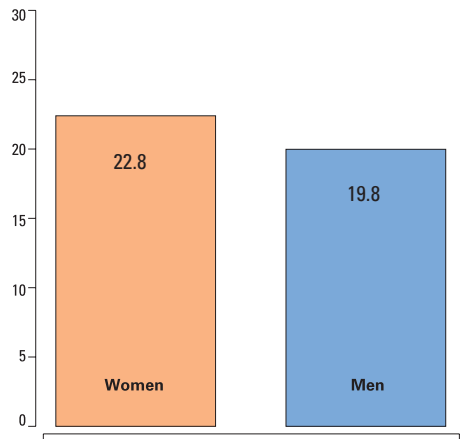


# Effective Age of Entry into Employment, 2000

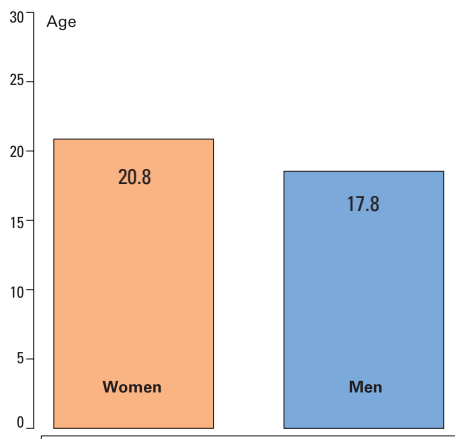
## Belgium



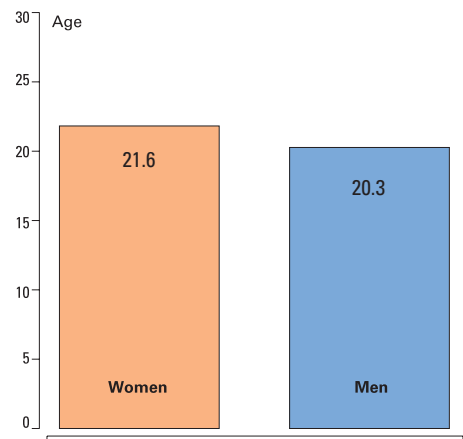
## Czech Republic



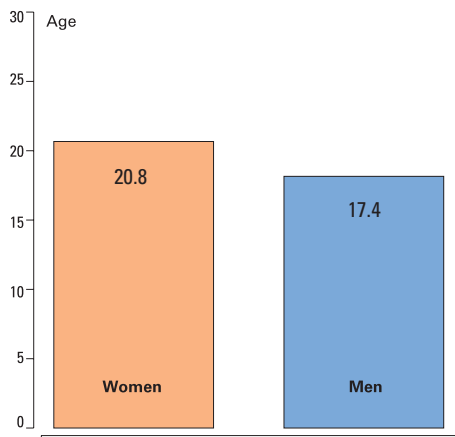
## Denmark



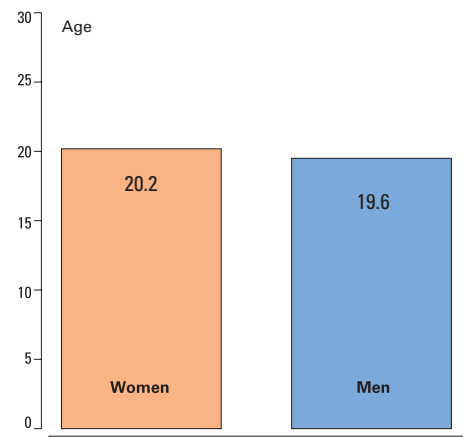
## Finland



## Great Britain



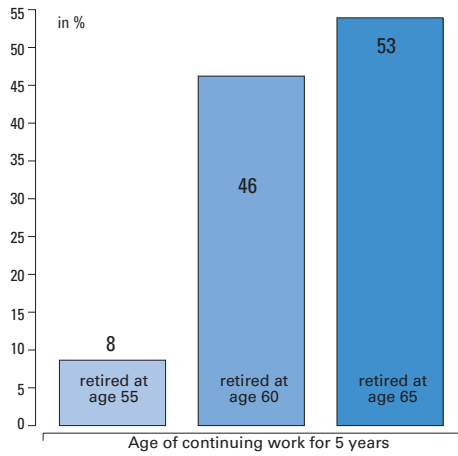
## Austria



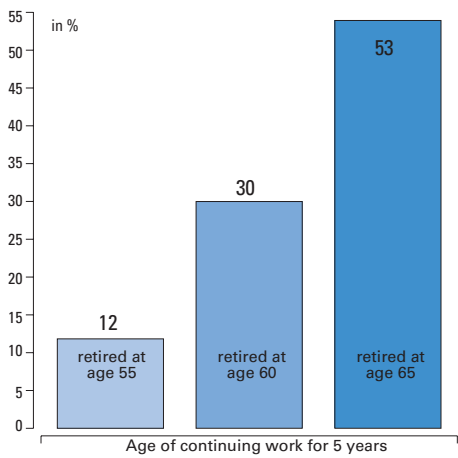


# Implicit Tax on Continuing Working

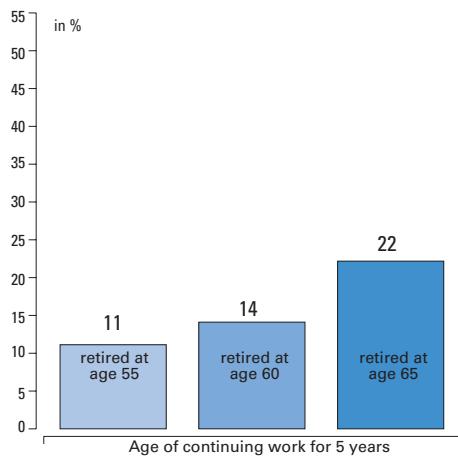
## Belgium



## Finland

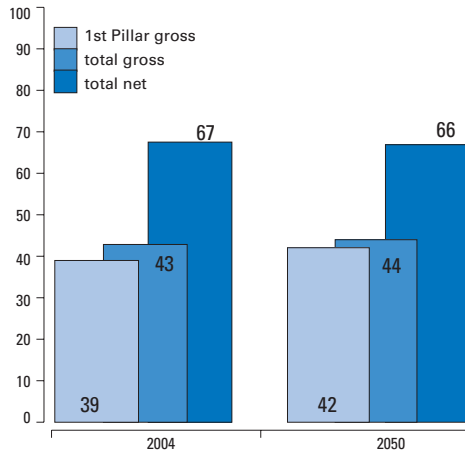


## Great Britain

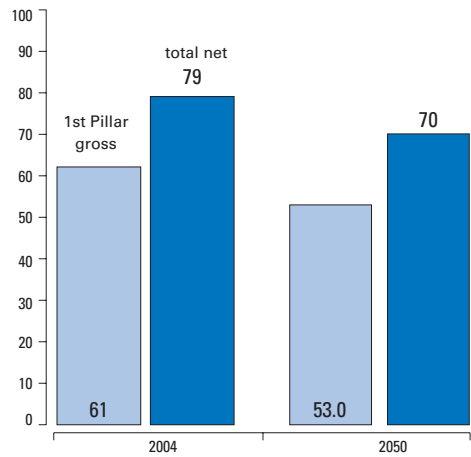


# Individual Replacement Rates at Average Earnings, 2005-2050

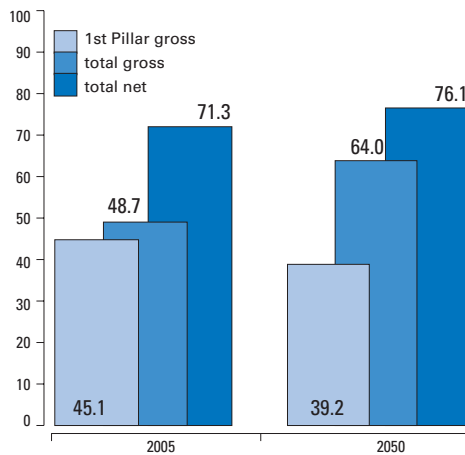
## Belgium



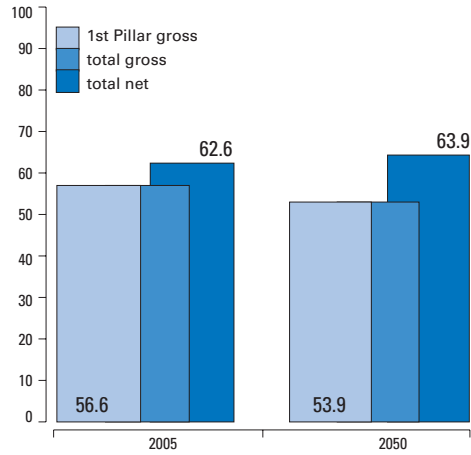
## Czech Republic



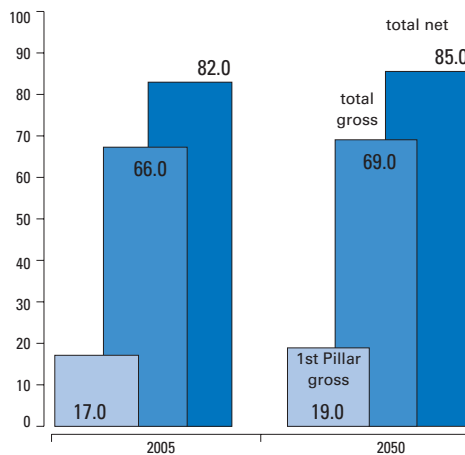
## Denmark



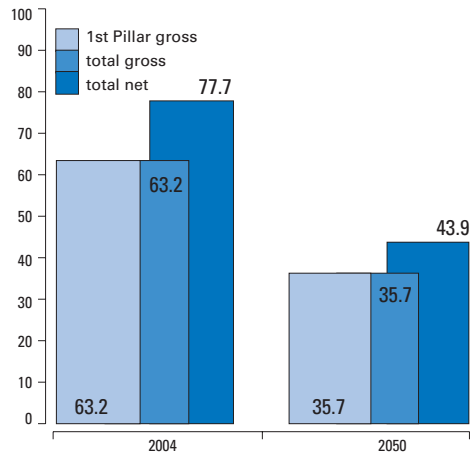
## Finland



## Great Britain

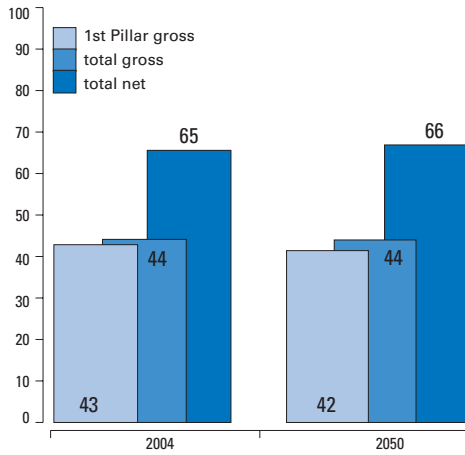


## Poland

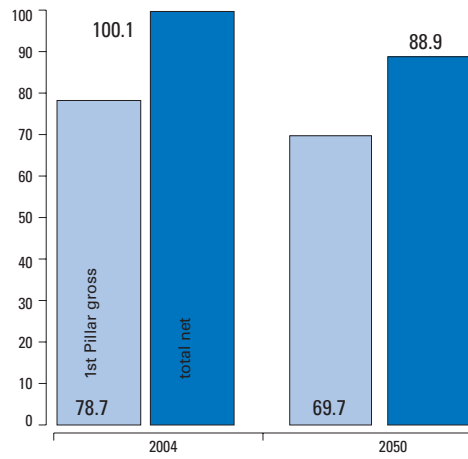


# Replacement Rates at 2/3<sup>rd</sup> of Average Earnings Level, 2005-2050

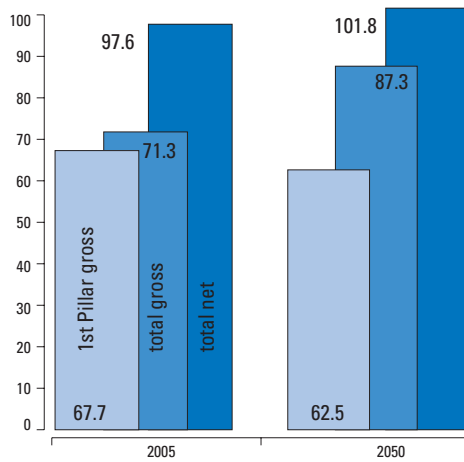
## Belgium



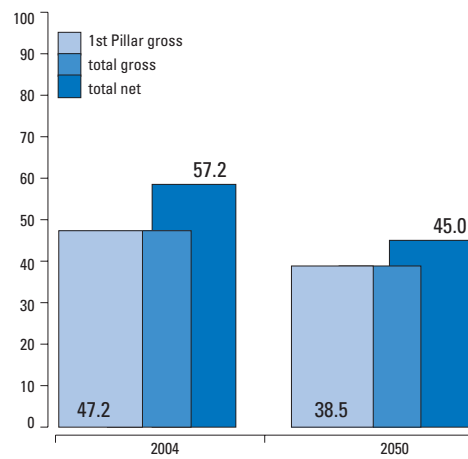
## Czech Republic



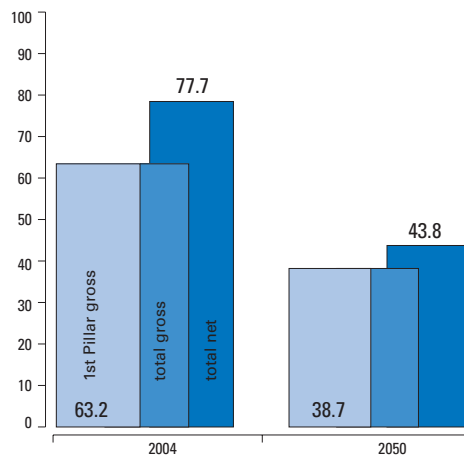
## Denmark



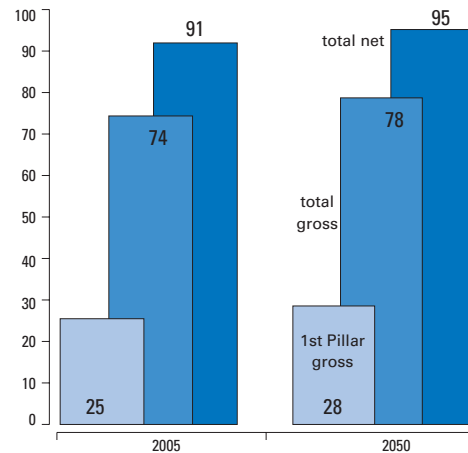
## Estonia



## Poland

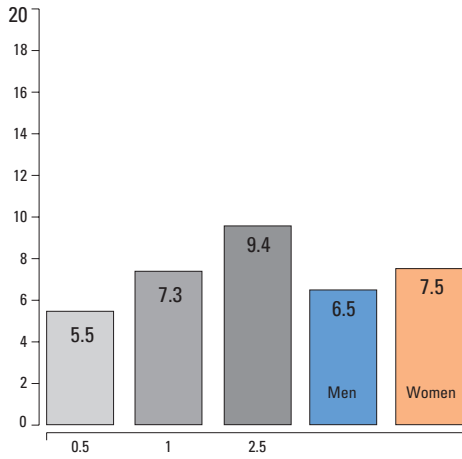


## Great Britain

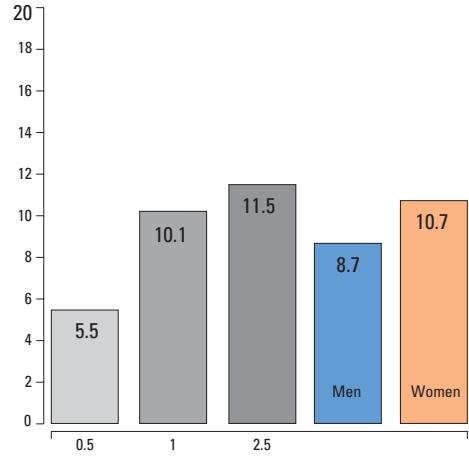


# Gross Pension Wealth at Different Earning Levels and by Gender (Weighted Average), 2040

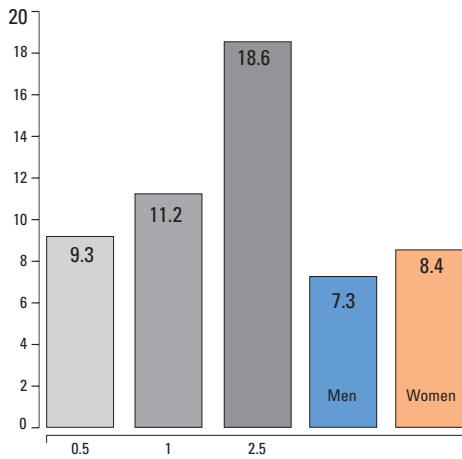
## Belgium



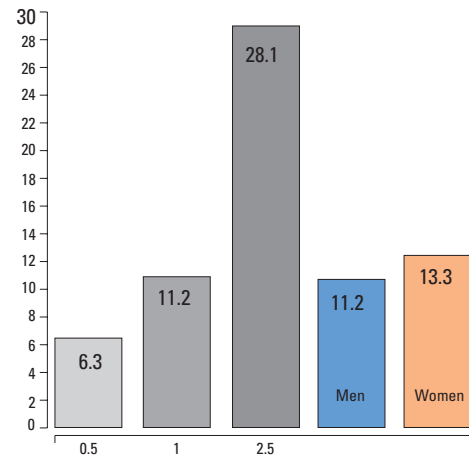
## Switzerland



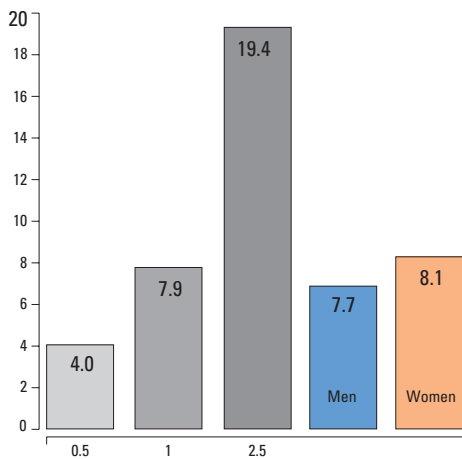
## Denmark



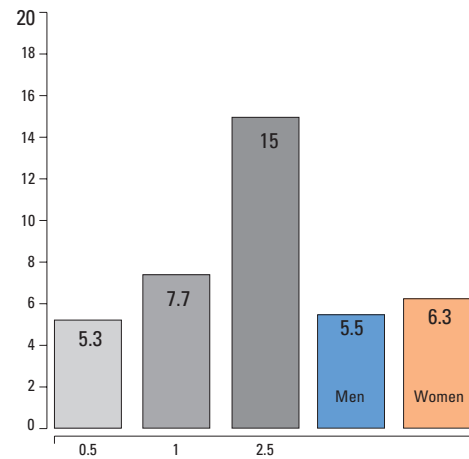
## Finland



## Poland

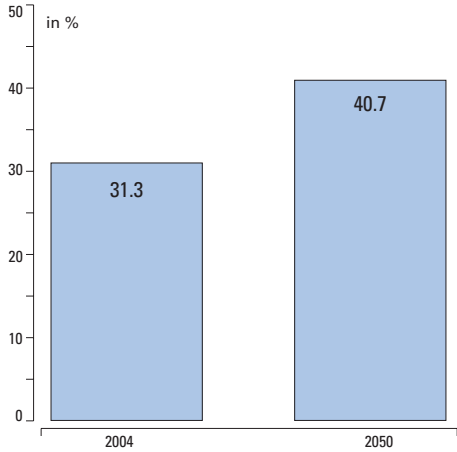


## Great Britain

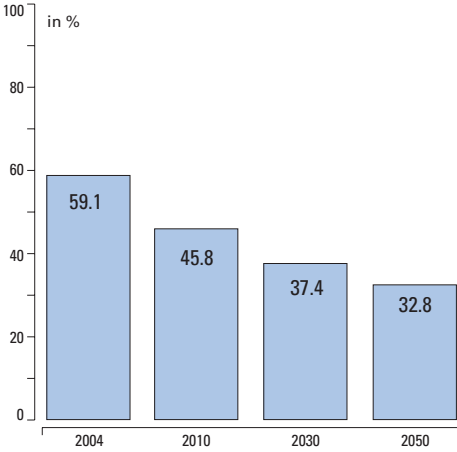


# Implicit Contribution Rate, 2004-2050

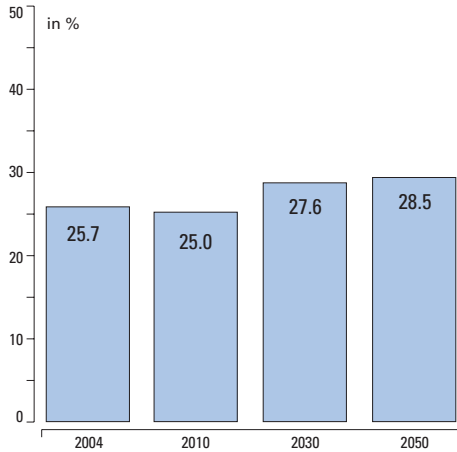
## Austria



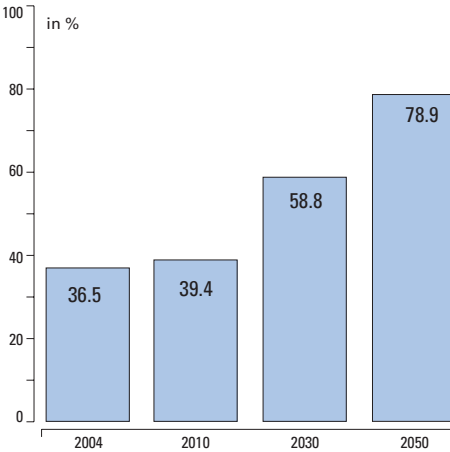
## Poland



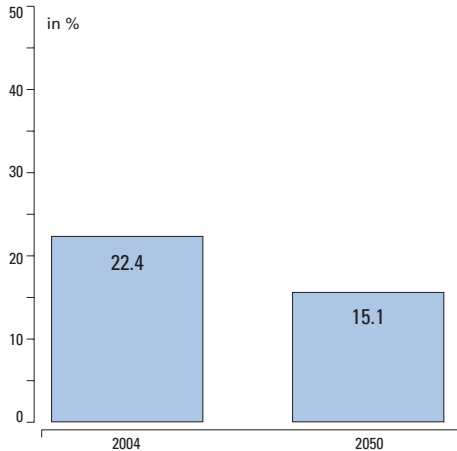
## Sweden



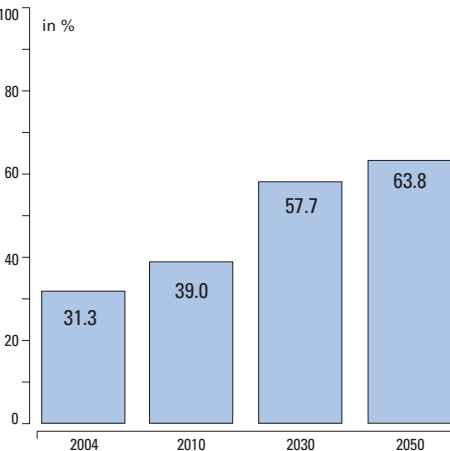
## Portugal



## Estonia

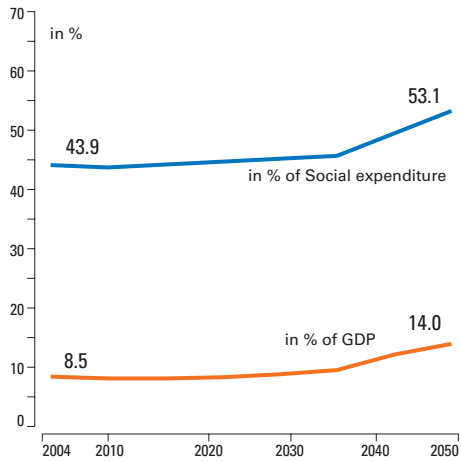


## Malta

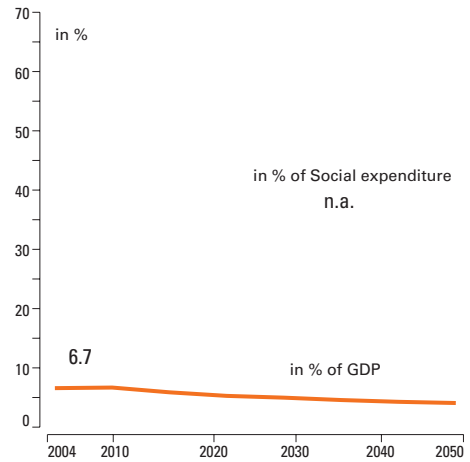


# Public Pension Spending in % of GDP and in % of Social Expenditure

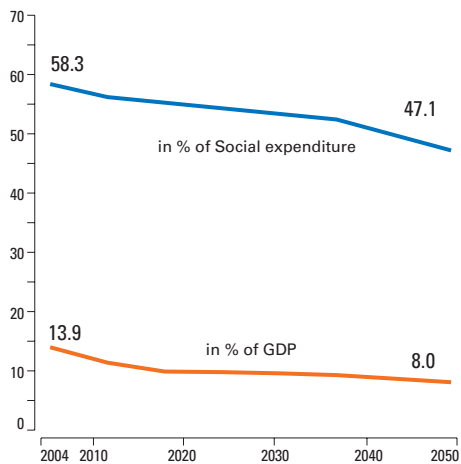
## Czech Republic



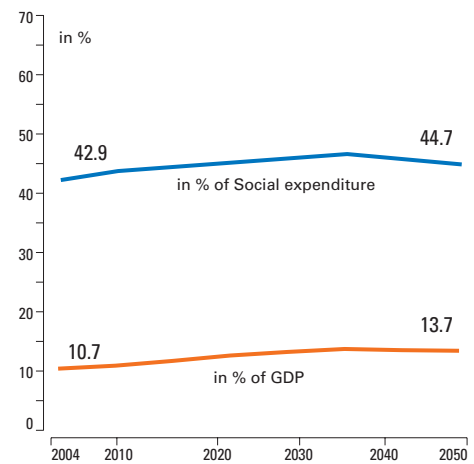
## Estonia



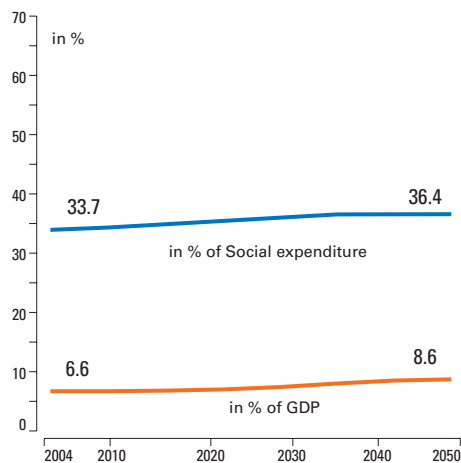
## Denmark



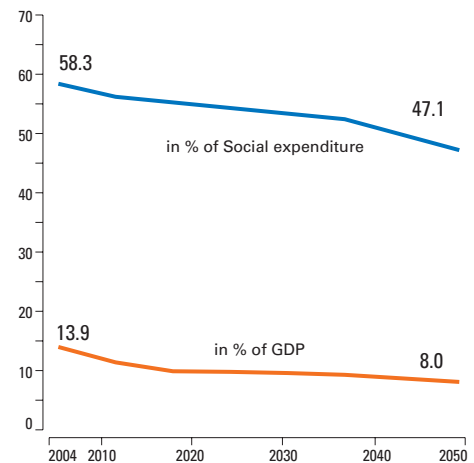
## Finland



## Great Britain

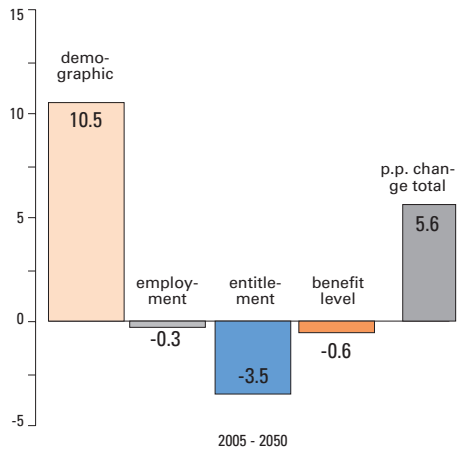


## Poland

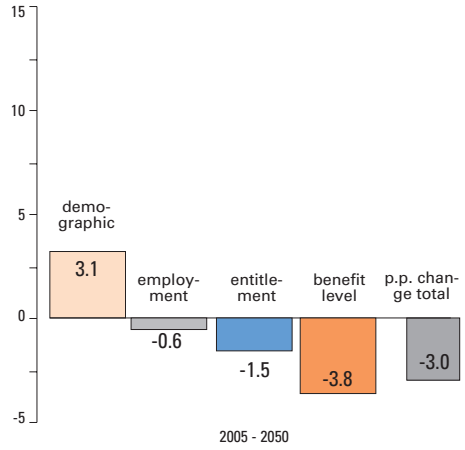


# Decomposition of Projected Change in Public Pension Spending, 2004-2050

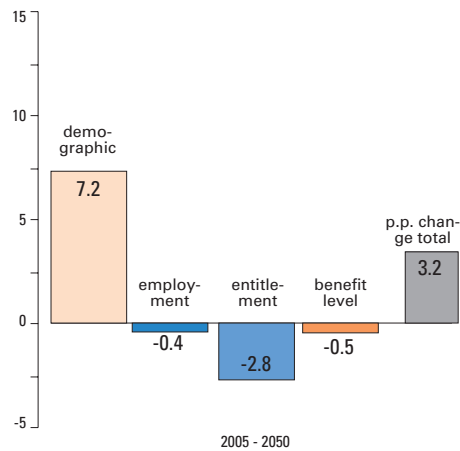
## Czech Republic



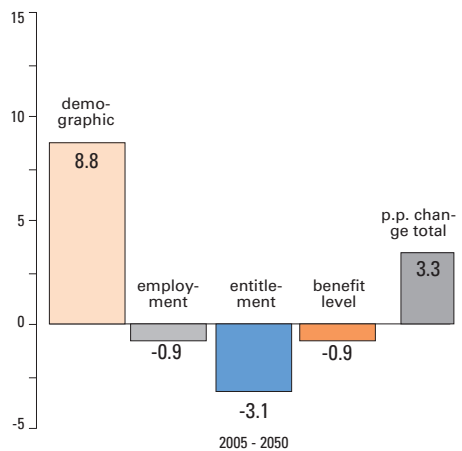
## Estonia



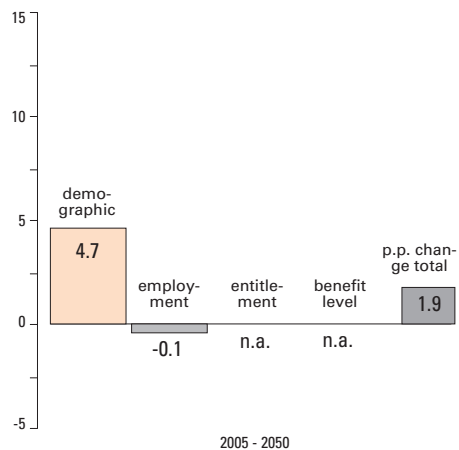
## Denmark



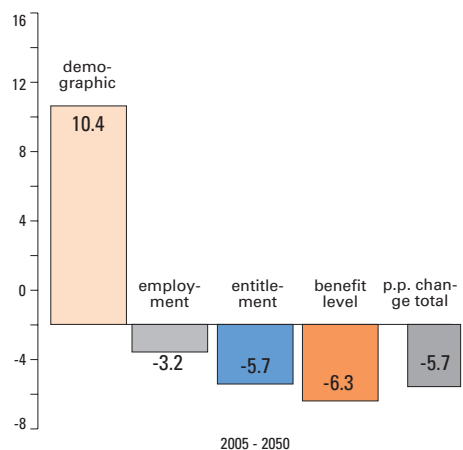
## Finland



## Great Britain



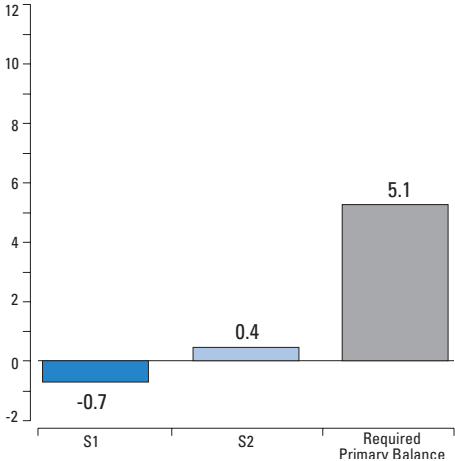
## Poland



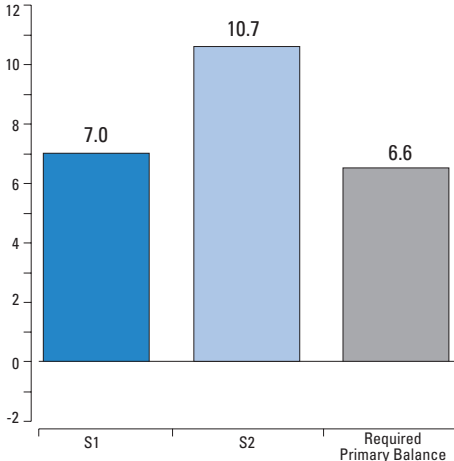
# Sustainability Gap Indicators\*

\*for definitions and operationalizations of S1, S2 and RBP see Appendix A

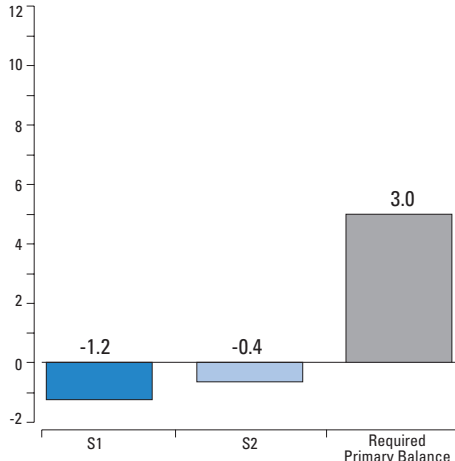
## Belgium



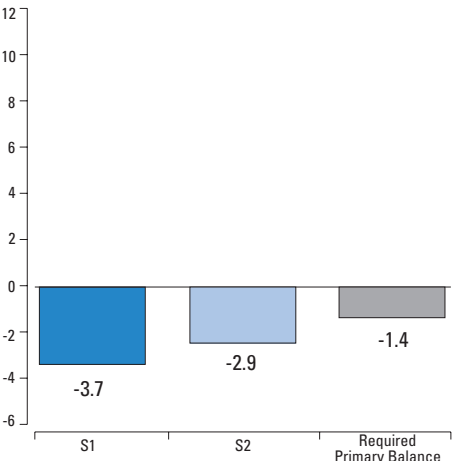
## Czech Republic



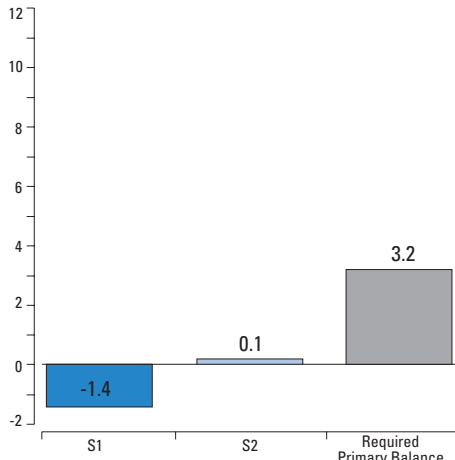
## Denmark



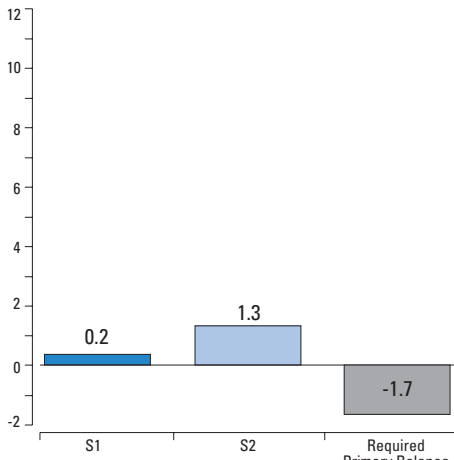
## Estonia



## Finland



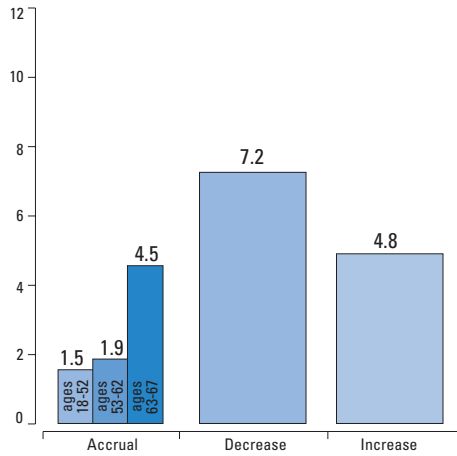
## Poland



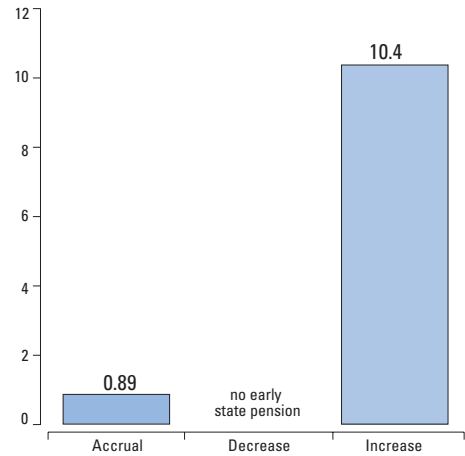


# System Accrual Rates

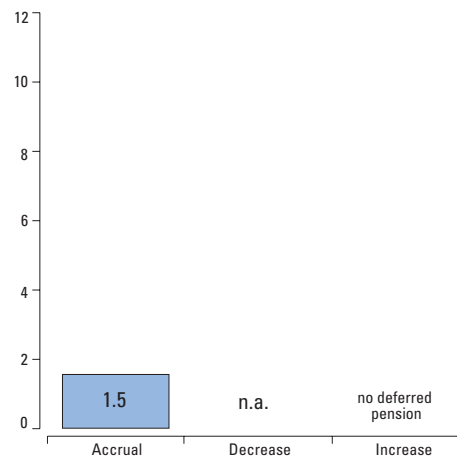
## Finland



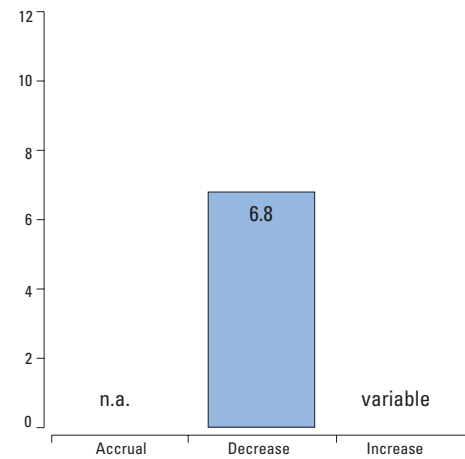
## Great Britain



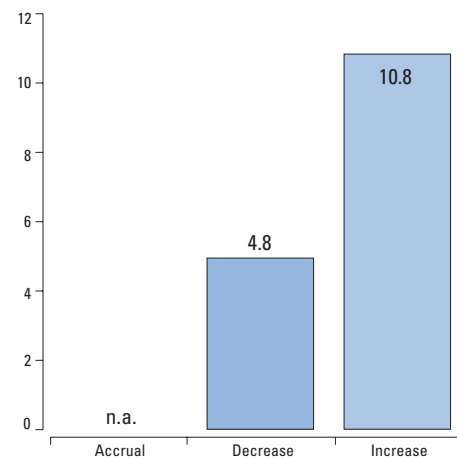
## Belgium



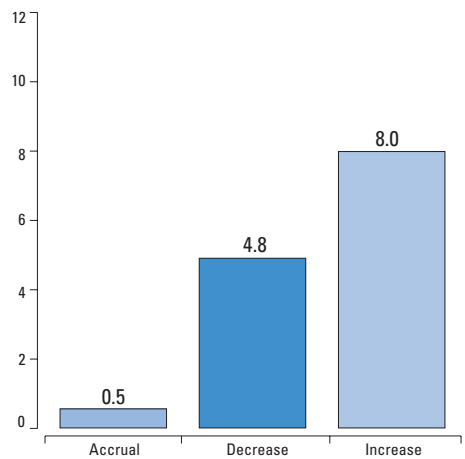
## Switzerland



## Estonia

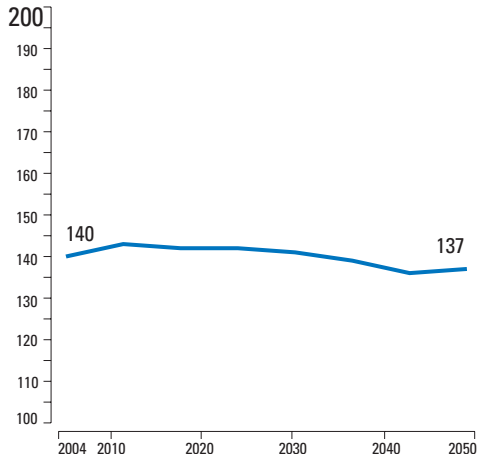


## Lithuania

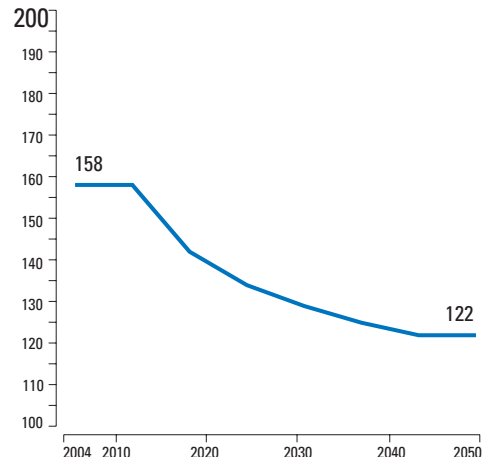


# Take-up Ratio

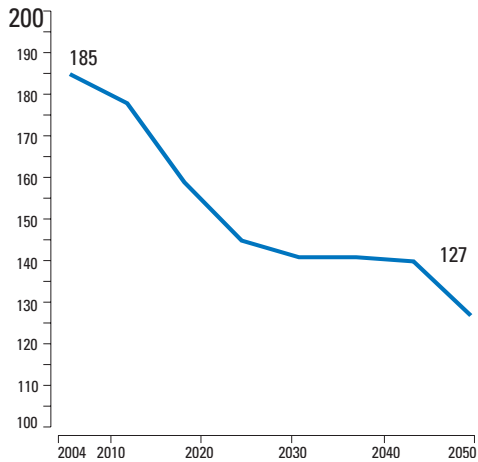
## Belgium



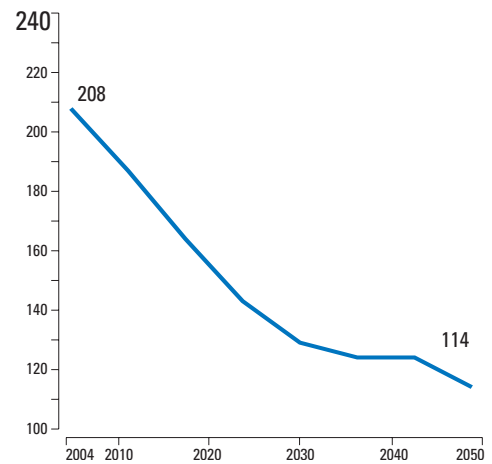
## Finland



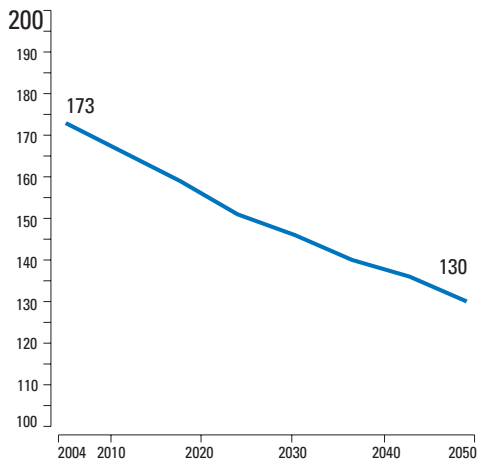
## Czech Republic



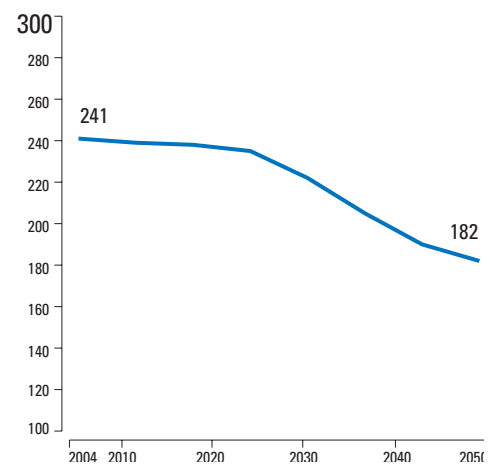
## Poland



## Estonia

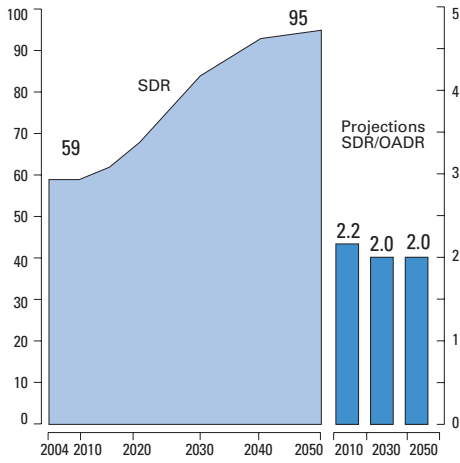


## Lithuania

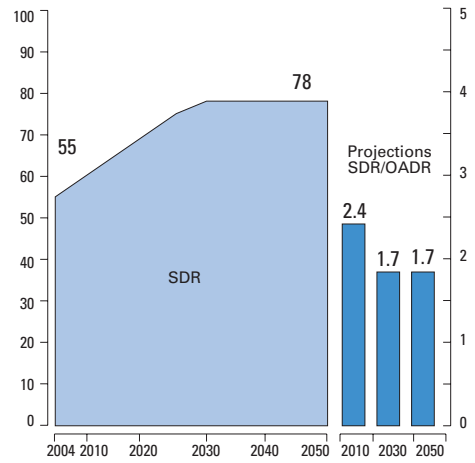


# Old Age and System Dependency Ratio

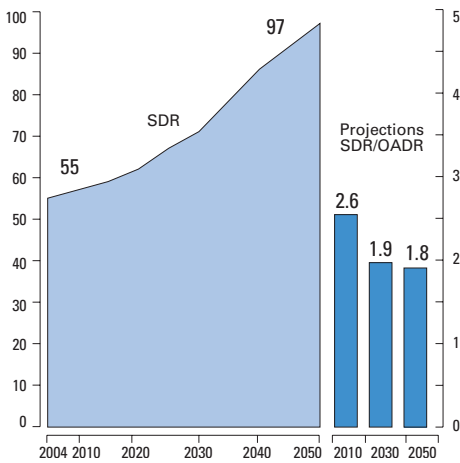
## Belgium



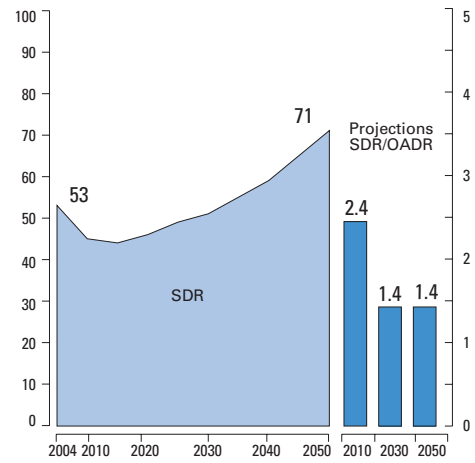
## Finland



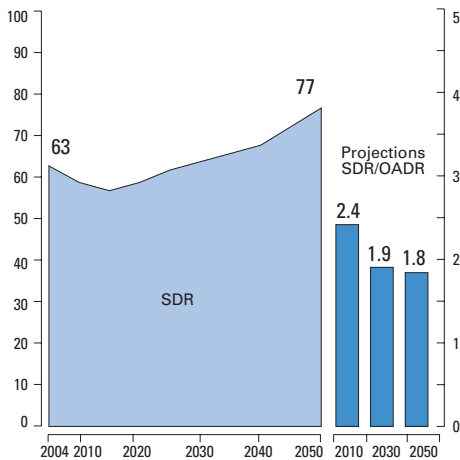
## Czech Republic



## Poland



## Estonia



## Lithuania

