UNITED NATIONS
ECONOMIC COMMISSION FOR EUROPE

WORKING GROUP ON AGEING

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

MAINTREAMING AGEING:
INDICATORS TO MONITOR IMPLEMENTATION

SELECTED CHARTS ON MAINSTREAMING AGEING INDICATORS

Annex to informal document 2:
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

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Population Size, 1950 - 2050

**Russia**
- 1950: 102.7 million
- 2000: 148.9 million
- 2050: 111.7 million

**Germany**
- 1950: 68.4 million
- 2000: 82.7 million
- 2050: 78.8 million

**Turkey**
- 1950: 21.5 million
- 2000: 68.2 million
- 2050: 101.2 million

**France**
- 1950: 41.8 million
- 2000: 60.5 million
- 2050: 63.8 million

**Great Britain**
- 1950: 49.8 million
- 2000: 58.7 million
- 2050: 67.1 million
Population by Age and Sex, 2005

Russia

USA

Germany

Turkey

Armenia

Israel
Median Age, 1950 - 2050

**Germany**

- 1950: 35.4
- 2000: 42.1
- 2050: 47.4

**USA**

- 1950: 30.0
- 2000: 36.1
- 2050: 41.1

**Italy**

- 1950: 29.0
- 2000: 42.3
- 2050: 52.5

**Turkey**

- 1950: 19.4
- 2000: 26.3
- 2050: 39.5

**Armenia**

- 1950: 22.4
- 2000: 31.7
- 2050: 47.6

**Great Britain**

- 1950: 34.6
- 2000: 39.0
- 2050: 42.9
Population Changes: Natural Growth, Overall Growth, Migration 1950-2005

Ireland

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Israel

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Italy

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Kyrgyzstan

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Latvia

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Lithuania

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

Spain

1950-2005

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

Total demographic dependency ratio
Young age dependency ratio
Old age dependency ratio

Turkey

Total demographic dependency ratio
Young age dependency ratio
Old age dependency ratio

Great Britain

Total demographic dependency ratio
Young age dependency ratio
Old age dependency ratio

Spain

Total demographic dependency ratio
Young age dependency ratio
Old age dependency ratio

Albania

Total demographic dependency ratio
Young age dependency ratio
Old age dependency ratio

Slovakia

Total demographic dependency ratio
Young age dependency ratio
Old age dependency ratio
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.
Healthy Life Expectancy*

*Estimated values

**LE**=Life expectancy  
**DFLE** = Disability-free life expectancy, as calculated by EuroReves

**HALE** = Healthy life expectancy as calculated by W.H.O.

**Life expectancy at 60 is the projected value for 2000-2005, as calculated by the UN Population Division**

---

**Finland**

- **At Birth**: LE 81.8, DFLE 56.5, LE 69.1%, DFLE 40.9%
- **At 65**: LE 75.1, DFLE 57.3, LE 76.3%, DFLE 43.7%

**Slovenia**

- **At Birth**: LE 80.5, DFLE 72.3, LE 89.8%, DFLE 51.7%
- **At 65**: LE 72.7, DFLE 66.6, LE 91.6%, DFLE 58.4%

---

**Switzerland**

- **At Birth**: LE 83.1, DFLE 74.4, LE 89.5%, DFLE 49.5%
- **At 60**: LE 77.4, DFLE 71.1, LE 91.9%, DFLE 56.1%

**Italy**

- **At Birth**: LE 82.9, DFLE 74.4, LE 89.7%, DFLE 51.4%
- **At 60**: LE 76.9, DFLE 70.9, LE 92.1%, DFLE 58.0%

---

**Germany**

- **At Birth**: LE 81.3, DFLE 64.7, LE 79.6%, DFLE 57.7%
- **At 65**: LE 75.5, DFLE 65.0, LE 86.1%, DFLE 59.9%

**Spain**

- **At Birth**: LE 83.7, DFLE 70.2, LE 93.8%, DFLE 69.6%
- **At 65**: LE 77.2, DFLE 66.8, LE 88.6%, DFLE 66.2%
Survival Rates up to Age 20, 60, 65, 80, 1995-2005

Great Britain

Russia

Sweden
Pension Duration of People Retiring Today

Germany

Women
- Life expectancy at effective retirement age: 83.9
- Expected pension duration: 23.5
- Statutory retirement age
- Effective retirement age: 60.4

Men
- Life expectancy at effective retirement age: 80.9
- Expected pension duration: 19.1
- Statutory retirement age
- Effective retirement age: 60.9

Great Britain

Women
- Life expectancy at effective retirement age: 87.0
- Expected pension duration: 25.1
- Statutory retirement age
- Effective retirement age: 61.9

Men
- Life expectancy at effective retirement age: 84.4
- Expected pension duration: 20.4
- Statutory retirement age
- Effective retirement age: 64.0

France

Women
- Life expectancy at effective retirement age: 85.4
- Expected pension duration: 27.4
- Statutory retirement age
- Effective retirement age: 58.0

Men
- Life expectancy at effective retirement age: 80.7
- Expected pension duration: 22.5
- Statutory retirement age
- Effective retirement age: 58.2
Pension Duration of People Retiring Today

**Austria**

- **Women**
  - Life expectancy at effective retirement age: 83.7
  - Duration of pension receipt: 25.1
- **Effective Retirement Age**: 58.6
- **Statutory Retirement Age**:
  - 1910: 55
  - 2003: 60

**Estonia**

- **Women**
  - Life expectancy at effective retirement age: 81.6
  - Expected pension duration: 19.6
- **Effective Retirement Age**: 62.0
- **Statutory Retirement Age**:
  - 1990: 55
  - 2002: 64.0

**Sweden**

- **Women**
  - Life expectancy at effective retirement age: 84.7
  - Expected pension duration: 22.8
- **Effective Retirement Age**: 61.9
- **Statutory Retirement Age**:
  - 2003: 65

- **Men**
  - Life expectancy at effective retirement age: 82.0
  - Expected pension duration: 19.9
- **Effective Retirement Age**: 62.1
- **Statutory Retirement Age**:
  - 2003: 65
Pension Duration of People Retiring Today

Italy

- Women
  - Life expectancy at effective retirement age: 85.4
  - Expected pension duration: 26.2
  - Statutory retirement age: 60
  - Effective retirement age: 59.2

- Men
  - Life expectancy at effective retirement age: 81.0
  - Expected pension duration: 21.4
  - Statutory retirement age: 65
  - Effective retirement age: 59.6

Spain

- Women
  - Life expectancy at effective retirement age: 85.5
  - Expected pension duration: 22.6
  - Effective retirement age: 62.9

- Men
  - Life expectancy at effective retirement age: 80.6
  - Expected pension duration: 19.1
  - Effective retirement age: 61.5

Portugal

- Women
  - Life expectancy at effective retirement age: 83.6
  - Expected pension duration: 22.1
  - Effective retirement age: 61.5

- Men
  - Life expectancy at effective retirement age: 79.4
  - Expected pension duration: 17.4
  - Effective retirement age: 62.0
Total Fertility Rate, 1950 - 2005

Great Britain

Replacement Level 2.1

Denmark

Replacement Level 2.1

Slovenia

Replacement Level 2.1

Armenia

Replacement Level 2.1

Azerbaijan

Replacement Level 2.1

Estonia

Replacement Level 2.1
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)
Mean Equalised Net Household Income

**Great Britain**

**Finland**

**Belgium**
Relative Disposable Income

Belgium

Danmark

Great Britain
S80/S20 Ratio of disposable Income

**Czech Republic**

- Women: 2.3, 3.8
- Men: 2.1, 3.9

**Estonia**

- Women: 3.2, 6.3
- Men: 2.8, 6.8

**Switzerland**

- Women: 3.6, 3.4
- Men: 3.7, 3.4
Relative Income Poverty Rate, 2004

Cyprus

Belgium

Czech Republic

Denmark

Estonia
Median Income Poverty Gap

**Finland**
- **65+**: Women 17, Men 19
- **16-64**: Women 24, Men 25

**Great Britain**
- **65+**: Women 19, Men 15
- **16-64**: Women 21, Men 25

**Lithuania**
- **65+**: Women 14, Men 11
- **16-64**: Women 22, Men 24

**Poland**
- **65+**: Women 15, Men 16
- **16-64**: Women 23, Men 24

**Switzerland**
- **65+**: Women 28, Men 25
- **16-64**: Women 33, Men 32
Persistent Income Poverty Rates

Belgium

Denmark

Finland

Great Britain

Persistent Income Poverty Rates

Belgium

Denmark

Finland

Great Britain
Net Replacement Rates by Earnings Level

**Belgium**

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<td>82.7</td>
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<td>53.3</td>
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**Czech Republic**

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<td>58.2</td>
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**Denmark**

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<td>% of Individual Pre-retirement Earnings</td>
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<td>54.1</td>
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**Estonia**

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Net Replacement Rates

Finland

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Great Britain

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Poland

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Switzerland

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<th>% of individual pre-retirement earnings</th>
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<td>71.4 68.9 67.3 53.0 41.4 34.3</td>
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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**

- Women 25-54
- Men 25-54
- Women 55-64
- Men 55-64

**Great Britain**

- Women 25-54
- Men 25-54
- Women 55-64
- Men 55-64

**Poland**

- Women 25-54
- Men 25-54
- Women 55-64
- Men 55-64

**Switzerland**

- Women 25-54
- Men 25-54
- Women 55-64
- Men 55-64
Employment Rates, 1983-2005

**Finland**

- Men 26-54
- Women 25-54
- Women 55-64

**Great Britain**

- Men 25-54
- Women 25-54
- Women 55-64

**Poland**

- Men 25-54
- Women 25-54
- Women 55-64

**Switzerland**

- Men 25-54
- Women 25-54
- Women 55-64
Employment Rates, 1983-2005
Share of Workers aged 55-64 in Employment and Population, 1983-2005

**Finland**

**Great Britain**

**Poland**

**Switzerland**

Women

Men

Employed aged 55-64 as % of total employment in working age (15-64)

Population aged 55-64 as % of population in working age (15-64)
Share of Workers aged 55-64 in Employment and Population, 1983-2005

Belgium

- Employed aged 55-64 as % of total employment in working age (16-66)
- Population aged 55-64 as % of population in working age (16-66)

Czech Republic

- Employed aged 55-64 as % of total employment in working age (16-66)
- Population aged 55-64 as % of population in working age (16-66)

Denmark

- Employed aged 55-64 as % of total employment in working age (16-66)
- Population aged 55-64 as % of population in working age (16-66)

Estonia

- Employed aged 55-64 as % of total employment in working age (15-64)
- Population aged 55-64 as % of population in working age (15-64)
Median Age of Population and Workforce

**Belgium**

- **Women**
  - Employed: 40
  - Labour Force: 40
  - Population: 38

- **Men**
  - Employed: 37
  - Labour Force: 40
  - Population: 37

**Czech Republic**

- **Women**
  - Employed: 40
  - Labour Force: 40
  - Population: 42

- **Men**
  - Employed: 39
  - Labour Force: 39
  - Population: 34

**Denmark**

- **Women**
  - Employed: 41
  - Labour Force: 41
  - Population: 39

- **Men**
  - Employed: 40
  - Labour Force: 39
  - Population: 36

**Estonia**

- **Women**
  - Employed: 42
  - Labour Force: 42
  - Population: 42

- **Men**
  - Employed: 40
  - Labour Force: 35
  - Population: 35

**Great Britain**

- **Women**
  - Employed: 40
  - Labour Force: 40
  - Population: 40

- **Men**
  - Employed: 41
  - Labour Force: 41
  - Population: 38

**Switzerland**

- **Women**
  - Employed: 41
  - Labour Force: 41
  - Population: 44

- **Men**
  - Employed: 44
  - Labour Force: 41
  - Population: 44
Unemployment Rates, Prime Age and Workers 55-64, 1983 - 2005

**Belgium**

**Czech Republic**

**Denmark**

**Estonia**

**Finland**

**Great Britain**
Time Spent in Paid vs. Unpaid Work Activities

**Denmark**

- **Women in full-time paid work**
- **Women in part-time paid work**
- **Women mainly at home**
- **Men**

**Finland**

- **Women in full-time paid work**
- **Women in part-time paid work**
- **Women mainly at home**
- **Men**

**Great Britain**

- **Women in full-time paid work**
- **Women in part-time paid work**
- **Women mainly at home**
- **Men**
Share of Non-Employed Disability Benefit Recipients

**Belgium**
- Women as % of population aged 40-65: 1.14
- Men as % of population aged 40-65: 1.81

**Denmark**
- Women as % of population aged 40-65: 4.1
- Men as % of population aged 40-65: 1.7

**Czech Republic**
- Men as % of population aged 40-65: 80
- Men as % of retired population aged 40-65: 70
- Women as % of population aged 40-65: 50
- Women as % of retired population aged 40-65: 40

**Estonia**
- Men as % of population aged 40-65: 5.7
- Men as % of retired population aged 40-65: 23.0
- Women as % of population aged 40-65: 10.8
- Women as % of retired population aged 40-65: 48.0

**Great Britain**
- Women as % of population aged 40-65: 2.7
- Men as % of population aged 40-65: 2.8
Average Effective Labour Market Exit Age

Belgium
- 25% retire before the age of 58
- 25% retire after the age of 66
- Statutory retirement age 2001: 57.8, 2003: 58.6
- Statutory retirement age 2003: 55.9, 2005: 58.7

Denmark
- 25% retire after the age of 70 (in 2001)
- 25% retire before the age of 62
- Statutory retirement age 2003: 63.7, 2005: 63.6
- Statutory retirement age 2003: 61.6, 2005: 62.0

Estonia
- 25% retire before the age of 52
- Statutory retirement age 2001: 60.0, 2003: 62.2

Finland
- 25% retire after the age of 64
- Statutory retirement age 2003: 61.5, 2001: 60.7
- Statutory retirement age 2003: 61.3, 2005: 60.0

Great Britain
- 25% retire after the age of 67
- 25% retire before the age of 56 (in 2001)
- Statutory retirement age 2003: 63.0, 2004: 62.9
- Statutory retirement age 2001: 61.0, 2004: 61.4

Switzerland
- Statutory retirement age 2003: 64.6, 2001: 63.6
Early / Late Retirement

Belgium

- 59.5% Retiring before statutory age
- 40.5% Retiring at or after statutory age

Austria

- 72.2% Retiring before statutory age
- 27.8% Retiring at or after statutory age

Denmark

- 42.6% Retiring before statutory age
- 57.4% Retiring at or after statutory age

Estonia

- 0.8% Retiring before statutory age in 2003
- 3.2% Retiring before statutory age in 2005
- 99.2% Retiring at or after statutory age in 2003
- 96.8% Retiring at or after statutory age in 2005

Finland

- 72.3% Retiring before statutory age
- 27.7% Retiring at or after statutory age

Great Britain

- 47.8% Retiring before statutory age
- 52.2% Retiring at or after statutory age
Effective Age of Entry into Employment, 2000

- **Belgium**
  - Women: 21.7
  - Men: 21.7

- **Czech Republic**
  - Women: 22.8
  - Men: 19.8

- **Denmark**
  - Women: 20.8
  - Men: 17.8

- **Finland**
  - Women: 21.6
  - Men: 20.3

- **Great Britain**
  - Women: 20.8
  - Men: 17.4

- **Austria**
  - Women: 20.2
  - Men: 19.6
Implicit Tax on Continuing Working

Belgium

- Age of continuing work for 5 years
- Retired at age 55: 8%
- Retired at age 60: 46%
- Retired at age 65: 53%

Finland

- Age of continuing work for 5 years
- Retired at age 55: 12%
- Retired at age 60: 30%
- Retired at age 65: 53%

Great Britain

- Age of continuing work for 5 years
- Retired at age 55: 11%
- Retired at age 60: 14%
- Retired at age 65: 22%
Individual Replacement Rates at Average Earnings, 2005-2050

Belgium

Czech Republic

Denmark

Finland

Great Britain

Poland
Replacement Rates at 2/3rd of Average Earnings Level, 2005-2050

Belgium

Danmark

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

2004: 31.3%
2050: 40.7%

Poland

2004: 59.1%
2010: 45.8%
2030: 37.4%
2050: 32.8%

Sweden

2004: 25.7%
2010: 25.0%
2030: 27.6%
2050: 28.5%

Portugal

2004: 36.5%
2010: 39.4%
2030: 58.8%
2050: 78.9%

Estonia

2004: 22.4%
2050: 15.1%

Malta

2004: 31.3%
2010: 39.0%
2030: 57.7%
2050: 63.8%
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

- Demographic: 10.5
- Employment: -0.3
- Entitlement: -3.5
- Benefit Level: -0.6
- P.P. Change Total: 5.6

Estonia

- Demographic: 3.1
- Employment: -0.8
- Entitlement: -1.5
- Benefit Level: -3.8
- P.P. Change Total: -3.0

Denmark

- Demographic: 7.2
- Employment: -0.4
- Entitlement: -2.8
- Benefit Level: -0.5
- P.P. Change Total: 3.2

Finland

- Demographic: 8.8
- Employment: -0.9
- Entitlement: -3.1
- Benefit Level: -0.9
- P.P. Change Total: 3.3

Great Britain

- Demographic: 4.7
- Employment: -0.1
- Entitlement: n.a.
- Benefit Level: n.a.
- P.P. Change Total: 1.9

Poland

- Demographic: 10.4
- Employment: -3.2
- Entitlement: -5.7
- Benefit Level: -6.3
- P.P. Change Total: -5.7
**Sustainability Gap Indicators**

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

**Belgium**

- S1: -0.7
- S2: 0.4
- Required Primary Balance: 5.1

**Czech Republic**

- S1: 7.0
- S2: 10.7
- Required Primary Balance: 6.6

**Denmark**

- S1: -1.2
- S2: -0.4
- Required Primary Balance: 3.0

**Estonia**

- S1: -3.7
- S2: -2.9
- Required Primary Balance: -1.4

**Finland**

- S1: -1.4
- S2: 0.1
- Required Primary Balance: 3.2

**Poland**

- S1: 0.2
- S2: 1.3
- Required Primary Balance: -1.7
Old Age and System Dependency Ratio

Belgium

Czech Republic

Estonia

Finland

Poland

Lithuania