

Balancing Adequacy and Sustainability in an Aging World

Insights from the Global Aging Preparedness Index

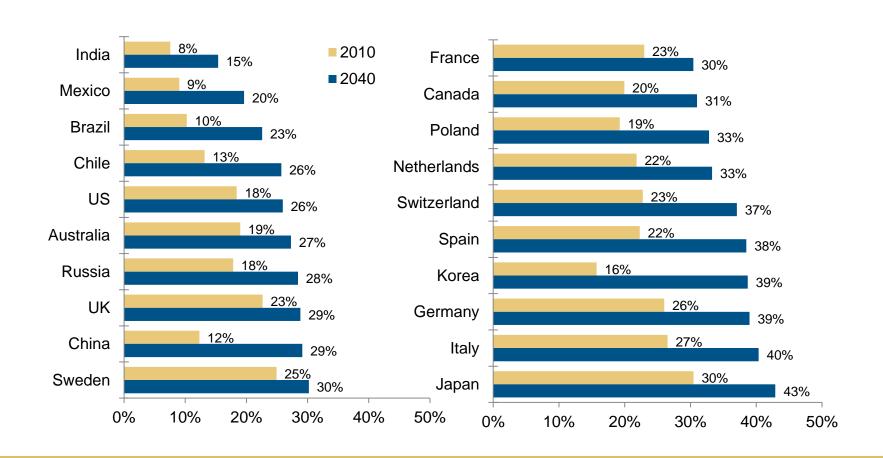
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GAPINDEX.CSIS.ORG

The Global Age Wave

Elderly (Aged 60 and Over), as a Percent of the Population in 2010 and 2040



Some developed countries have made deep cuts in the future generosity of state retirement provision.

Public Pension Benefits to the Elderly (Aged 60 & Over) as a Percent of GDP in 2010 and 2040 under Alternative Projections*

		2010	"Current Deal" in 2040	"Current Law" in 2040	Current-Law % Reduction in 2040
1	Netherlands	4.6%	9.0%	8.6%	-4.7%
2	Sweden	7.5%	10.4%	8.4%	-19.1%
3	US	4.8%	8.2%	6.4%	-21.8%
4	Australia	3.7%	6.2%	4.7%	-24.2%
5	UK	7.5%	10.6%	7.9%	-25.9%
6	Canada	4.0%	8.1%	5.4%	-32.7%
7	France	12.6%	20.4%	13.6%	-33.5%
8	Germany	10.3%	19.9%	12.4%	-37.4%
9	Japan	9.3%	17.4%	10.5%	-39.5%
10	Italy	13.9%	28.0%	15.0%	-46.3%

^{*}The "current-deal" projection assumes that average retirement ages and replacement rates remain unchanged in the future.

Note: Countries are ranked from lowest to highest according to the current-law percent reduction in 2040.

Informal support networks in many emerging markets will come under intense pressure from declining family size.

Average Number of Surviving Children of the Elderly: 2010-2040 and Change from 2010 to 2040

		2010	2020	2030	2040	Change			2010	2020	2030	2040	Change
1	Sweden	2.0	1.7	1.8	2.0	-0.1	11	Australia	2.7	2.1	2.0	2.0	-0.8
2	Poland	2.3	2.3	2.2	2.0	-0.3	12	Italy	2.2	2.1	1.4	1.4	-0.9
3	Russia	1.9	1.7	1.7	1.5	-0.4	13	Canada	2.6	1.8	1.6	1.7	-0.9
4	UK	2.3	1.8	1.8	1.9	-0.4	14	Chile	3.4	2.7	2.5	2.4	-1.0
5	France	2.4	1.9	1.8	1.9	-0.4	15	India	3.8	3.7	3.2	2.6	-1.1
6	Japan	2.0	1.9	1.7	1.5	-0.5	16	Spain	2.7	2.2	1.5	1.4	-1.2
7	Germany	1.9	1.4	1.4	1.4	-0.5	17	Korea	3.6	2.6	1.7	1.8	-1.7
8	Switzerland	2.0	1.6	1.5	1.6	-0.5	18	Brazil	3.9	3.1	2.4	2.1	-1.7
9	US	2.5	1.9	1.8	1.9	-0.6	19	China	4.3	3.3	2.2	2.0	-2.3
10	Netherlands	3 2.3	1.6	1.6	1.6	-0.6	20	Mexico	5.0	4.1	3.1	2.6	-2.4

Note: Countries are ranked from lowest to highest according to the projected change from 2010 to 2040.

The GAP Index

- The GAP Index provides a comprehensive quantitative assessment of the progress that countries worldwide are making in preparing for the "old-age dependency" dimension of the global aging challenge.
- The GAP Index projections extend through the year 2040 in order to capture the full impact of the demographic transformation now sweeping the world.
- The GAP Index covers twenty countries, including both developed economies and emerging markets.
- The GAP Index consists of two separate subindices—a fiscal sustainability index and an income adequacy index.

GAP Index Countries

Australia

Brazil

Canada

Chile

China

France

Germany

India

Italy

Japan

Korea

Mexico

Netherlands

Poland

Russia

Spain

Sweden

Switzerland

UK

US

GAP FISCAL SUSTAINABILITY INDEX

FISCAL ROOM CATEGORY

Measures each country's ability to accommodate the growth in

its public old-age dependency

burden by raising taxes, cutting

PUBLIC BURDEN CATEGORY

Measures the magnitude of each country's projected public old-age dependency burden

BENEFIT LEVEL **INDICATOR**

Total public benefits to the elderly in 2040 as a percent of **GDP**

BENEFIT GROWTH INDICATOR

Growth in total public benefits to the elderly from 2010 to 2040 as a percent of **GDP**

other spending, or borrowing

TAX ROOM INDICATOR Total government

revenue in 2040 as a percent of GDP. assuming taxes are raised to pay for all growth in public benefits

BUDGET ROOM INDICATOR

Total public benefits to the elderly in 2040 as a percent of government outlays, assuming cuts in other spending pay for all growth in public benefits

BORROWING ROOM INDICATOR

Net public debt in 2040 as a percent of GDP. assuming borrowing pays for all growth in public benefits

BENEFIT DEPENDENCE CATEGORY

Measures how dependent the elderly in each country are on public benefits, and thus how politically difficult it may be to reduce those benefits

BENEFIT SHARE **INDICATOR**

Public benefits as a percent of the cash income of the medianincome elderly: Average for 2010 to 2040

BENEFIT CUT **INDICATOR**

Percent of elderly households that would be pushed into poverty by an immediate 10 percent cut in public benefits

GAP INCOME ADEQUACY INDEX

INCOME VULNERABILITY

CATEGORY

Measures income adequacy for

"middle -income" elders and the

extent of elderly poverty in each

country

TOTAL INCOME CATEGORY

Measures the overall level of and trend in the income of the elderly relative to the nonelderly in each country

TOTAL INCOME TREND INDICATOR

2040

Per capita Percentage change in the ratio of average afterper capita tax elderly to ratio of average afternonelderly total income tax elderly to in 2040 nonelderly total income from 2010 to

TOTAL

INCOME

LEVEL

INDICATOR

Per capita ratio of median aftertax elderly to nonelderly cash income in 2040

MEDIAN

INCOME

LEVEL

INDICATOR

MEDIAN INCOME

TREND

INDICATOR

Percentage change in the per capita ratio of median after-tax elderly to nonelderly cash income from 2010 to 2040

POVERTY LEVEL INDICATOR

Percent of the elderly with incomes beneath 50 percent of the median income for all persons in 2010 or the most recent available year

FAMILY SUPPORT CATEGORY

Measures the strength of family support networks in each country

FAMILY TIES INDICATOR

Percent of the elderly living in households with their adult children in 2010 or the most recent available year

FAMILY SIZE INDICATOR

Change in the average number of surviving children of the elderly from 2010 to 2040

GAP Index Country Rankings and Change from First Edition Rankings

F	iscal Sustainabili	ity Index	Income Adequacy Index					
1	India	-	1	Netherlands	-			
2	Mexico	-	2	US	+1			
3	Chile	-	3	Brazil	-1			
4	China	-	4	Australia	+2			
5	Russia	-	5	Germany	-1			
6	Australia	+1	6	Sweden	+1			
7	Sweden	+3	7	UK	-2			
8	Canada	+1	8	Chile	-			
9	Poland	-3	9	Canada	+2			
10	Korea	+2	10	France	+6			
11	US	-	11	Italy	+6			
12	Switzerland	+1	12	Spain	-3			
13	UK	+2	13	China	+5			
14	Brazil	+4	14	Japan	-2			
15	Japan	-7	15	India	-5			
16	France	+3	16	Switzerland	-2			
17	Netherlands	-	17	Mexico	+3			
18	Germany	-4	18	Russia	-3			
19	Italy	-3	19	Korea	-			
20	Spain	-	20	Poland	-7			

In most countries, the elderly are highly dependent on public benefits.

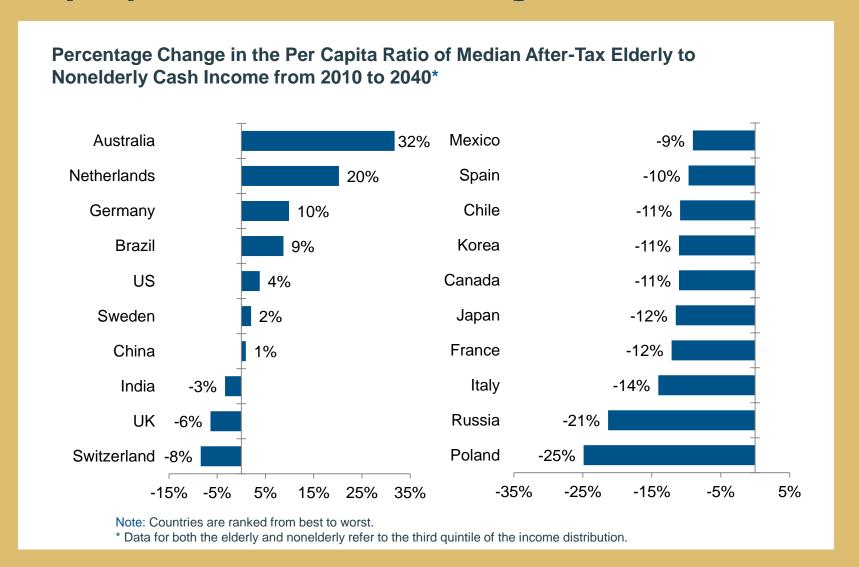
Public Benefits as a Percent of the Cash Income of the Median-Income Elderly, 2010-2040*

		2010	2020	2030	2040	Average 2010-40			2010	2020	2030	2040	Average 2010-40
1	India	25	25	22	19	23	11	Japan	60	57	54	54	56
2	Mexico	32	30	28	23	29	12	Sweden	63	62	59	58	60
3	Switzerland	33	32	30	32	32	13	UK	66	62	61	62	62
4	Korea	26	30	35	40	33	14	Russia	69	66	63	55	63
5	US	39	35	36	37	37	15	Germany	73	66	60	60	64
6	Chile	55	39	30	26	37	16	Brazil	75	65	62	63	65
7	China	34	37	37	41	37	17	France	73	71	70	71	71
8	Canada	39	39	39	39	39	18	Italy	78	74	70	68	72
9	Netherlands	50	50	50	51	50	19	Spain	79	75	71	71	74
10	Australia	64	56	50	46	54	20	Poland	94	89	85	79	87

Note: Countries are ranked from best to worst according to the projected averages for 2010 to 2040.

^{*} Data refer to the third quintile of the elderly income distribution.

Under current law, the elderly in many countries may experience a decline in living standards.





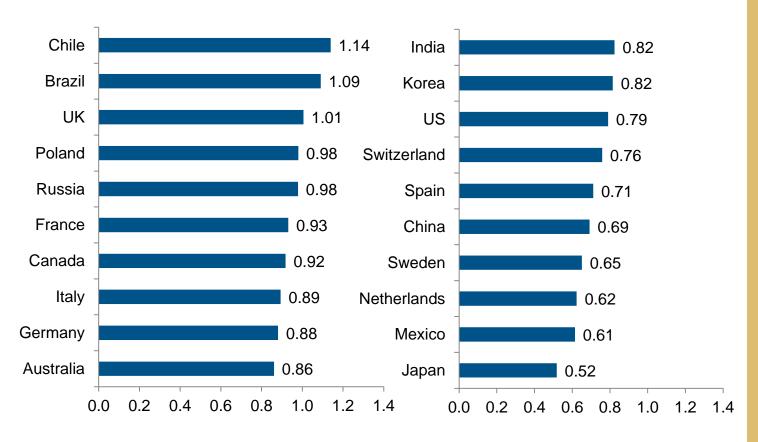
Directions for Reform

Five Policy Imperatives

- Reduce the rising fiscal burden of pay-as-you-go state retirement provision.
- Strengthen old-age safety nets through social pensions and/or means-tested supplements.
- Increase funded retirement provision.
- Promote productive aging and ensure that work spans rise along with life spans and health spans.
- Refashion the overall role of the state in retirement provision so that it serves less as a retirement income floor for all of the elderly and more as a retirement income backstop for the "old elderly."

Old Elderly versus Young Elderly: Lower Incomes

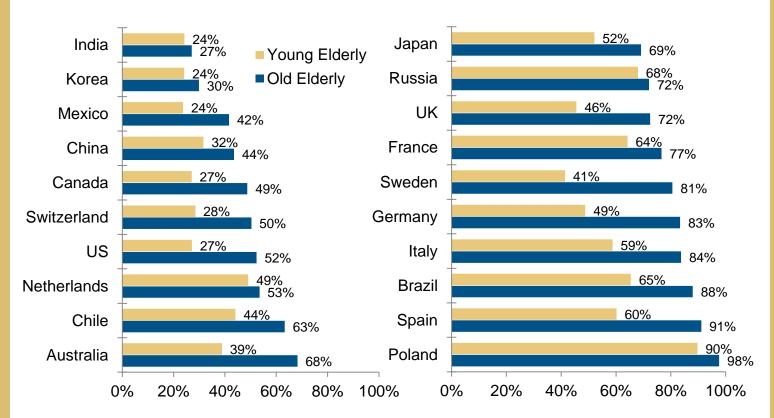




Note: Countries are ranked from best to worst.

Old Elderly versus Young Elderly: Higher Benefit Dependence

Public Benefits as a Percent of the Cash Income of the Median-Income Young Elderly (Aged 60-69) and Median-Income Old Elderly (Aged 70 & Over) in 2010*



Note: Countries are ranked from best to worst according to the public benefit share of the old elderly.

^{*} Data refer to the third quintile of the elderly income distribution.