

Office of the Superintendent of Financial Institutions Canada Bureau du surintendant des institutions financières Canada

Office of the Chief Actuary

Bureau de l'actuaire en chef

Long-Term Economic Challenges: Perception or Reality? - Changing Demographics: Are We Ready?

33^e congrès de l'Association des économistes québécois 15 May 2008





Presentation

- Mandate of the Office of the Chief Actuary
- Canadian Retirement Income System
- Canadian and Global Aging
- CPP and OAS Financing
- OECD Countries Comparisons
- Efficient Retirement Systems



Canadian Retirement Income Security

Canadian retirement system with mixed funding approaches is well recognized in the world for its capacity to adapt rapidly to changing conditions.

- Full funding (RPP/RRSP)
- Partial funding (CPP/QPP)
- Pay-as-you-go funding (OAS/GIS)

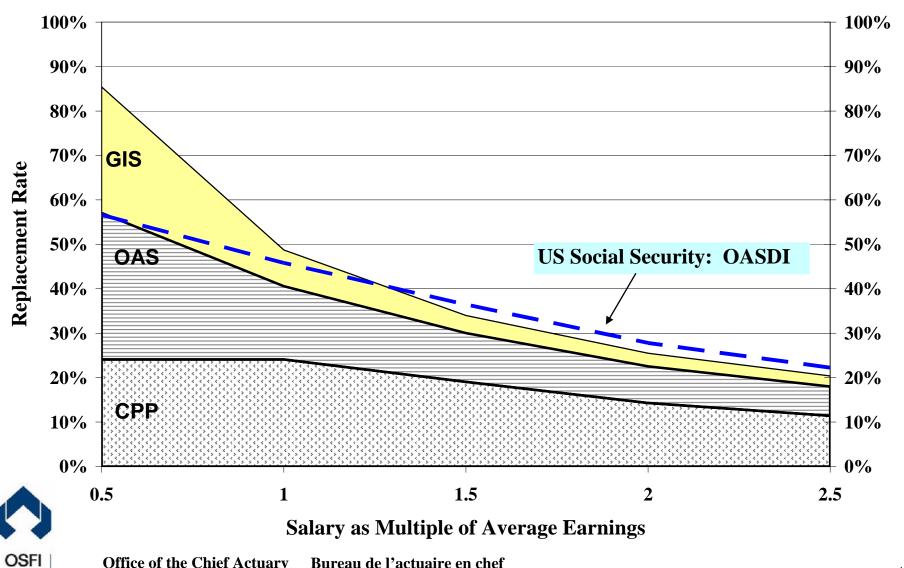








Income Replacement Rate of Public Pension Plans (Canada and United States, 2006)



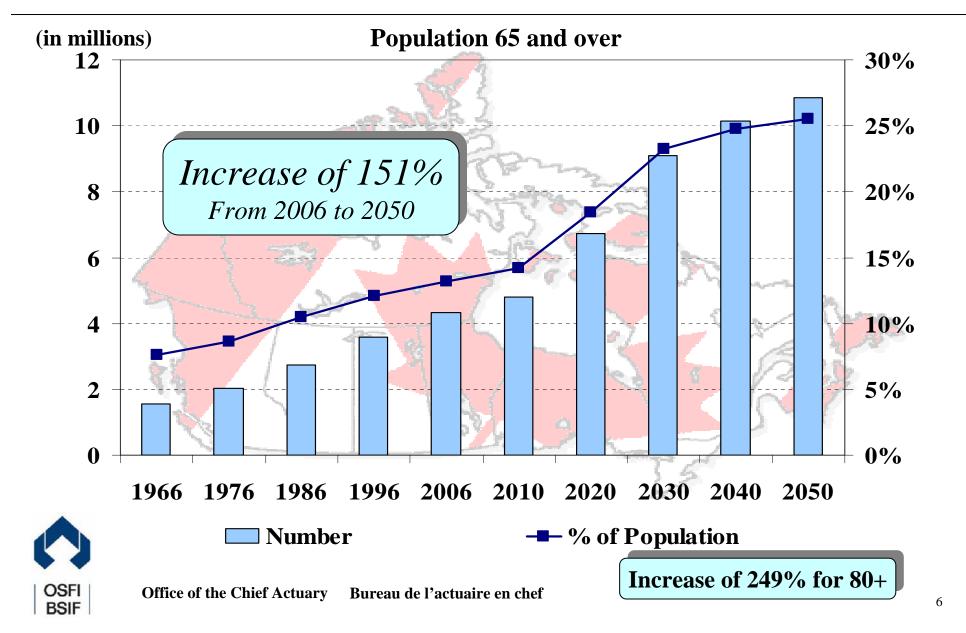
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Provision of Retirement Income Security – What is Required?

- A retirement system built on the principles of:
 - >Intergenerational equity
 - Solidarity: society protects all individuals and collectively ensures a basic level of assistance/standard of living for low-income retirees
 - Responsibility: retirement income security is a shared responsibility between the government, society, employers and individuals
- Incentives to remain in the labour force

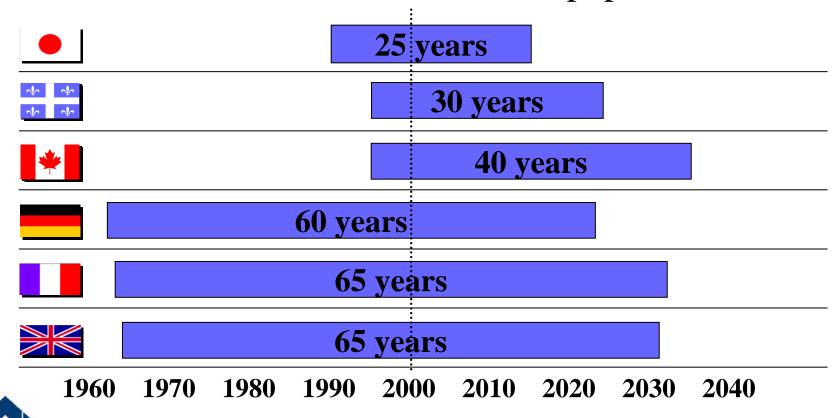


Aging of the Canadian Population



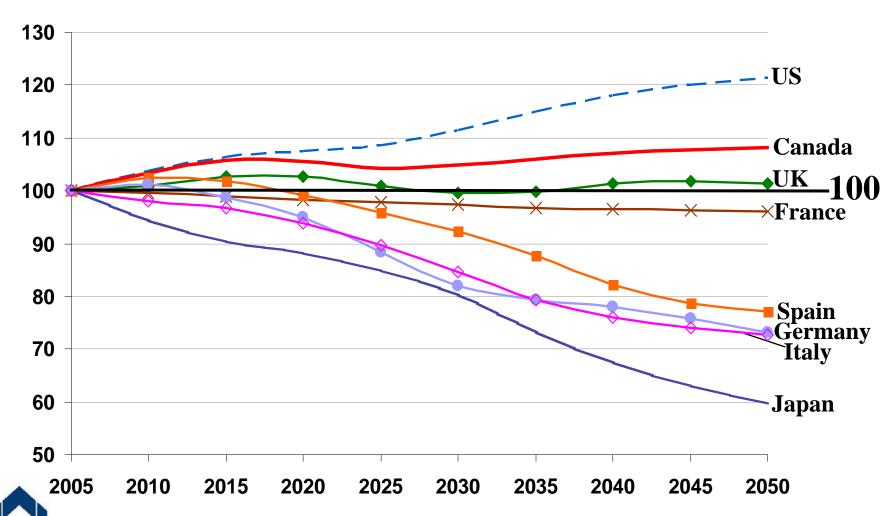
Global Aging

Projected number of years needed to go from 12% to 24% of 65 and over as a % the total population





Working Age Population (ages 20-59) (indexed 2005=100)





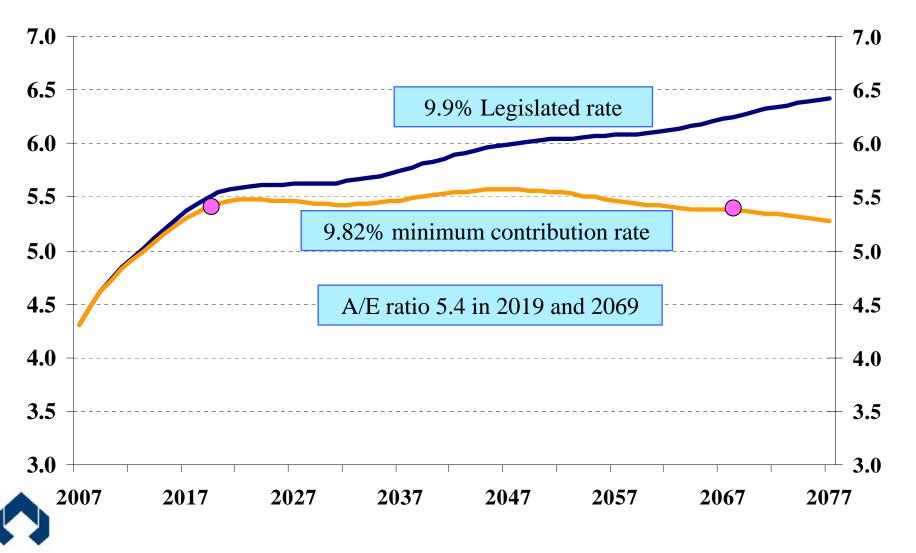


CPP Financing

- Steady-state funding: replaces the original pay-as-you-go financing to build a reserve of assets equivalent over time to about five and a half years of benefit expenditures or about 25% of Plan liabilities.
- *Incremental full funding*: requires that changes to the CPP that increase benefits or add new benefits be fully funded (eg: increase in eligibility for disability benefits for longterm contributors).
- The *minimum contribution rate* is the sum of the steady-state and incremental full funding rates.
- The *legislated contribution rate* is currently 9.9%, same as for the QPP.

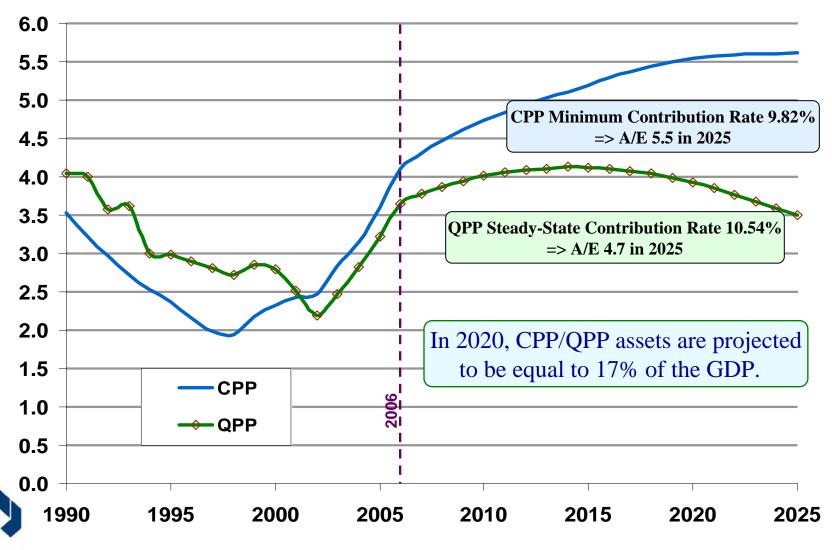


CPP Evolution of Asset/Expenditure Ratio

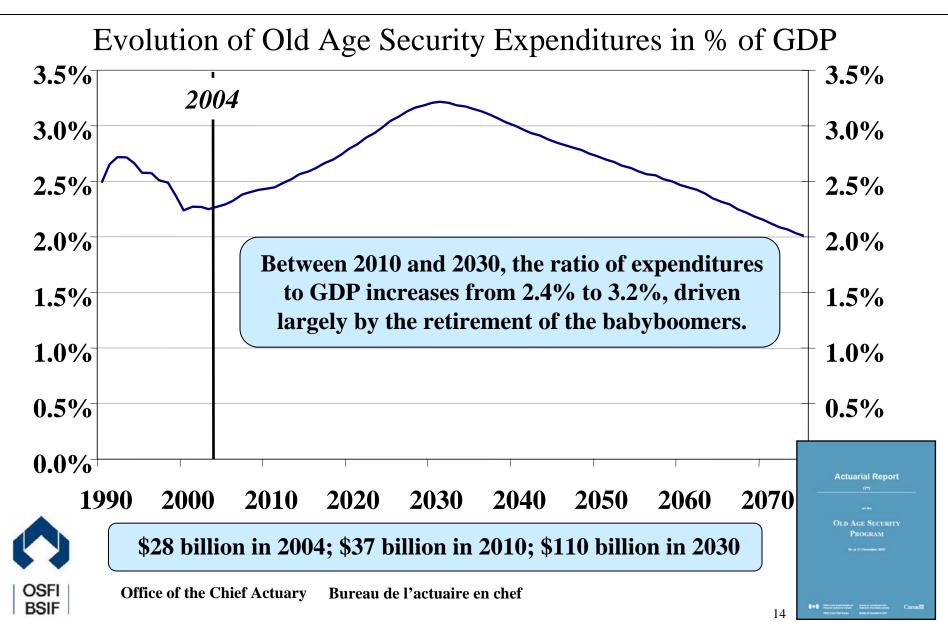




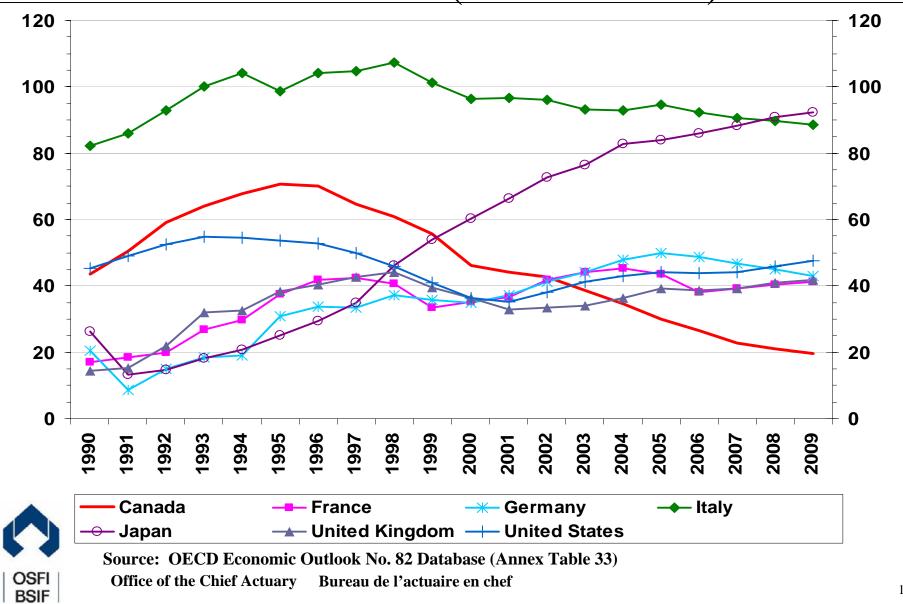
C/QPP Evolution of Asset/Expenditure Ratios 9.9% Contribution Rate



OAS Program Financing



Government Net Financial Liabilities as % of GDP (G7 Countries)



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OECD Countries – Increases in Normal Retirement Ages of State Pension Plans

	From	To	Transition Period
Austria	60 (F)	65 (F)	2024-2033
Belgium	60 (F)	65 (F)	by 2009
Czech Republic	57 (F) 60 (M)	65	by 2030 (proposed)
Denmark	65	67	2024-2027
Germany	65	67	2012-2029
Iceland	$67 \rightarrow 65 \rightarrow 67$		late 1980s – early 2000s



OECD Countries – Increases in Normal Retirement Ages of State Pension Plans

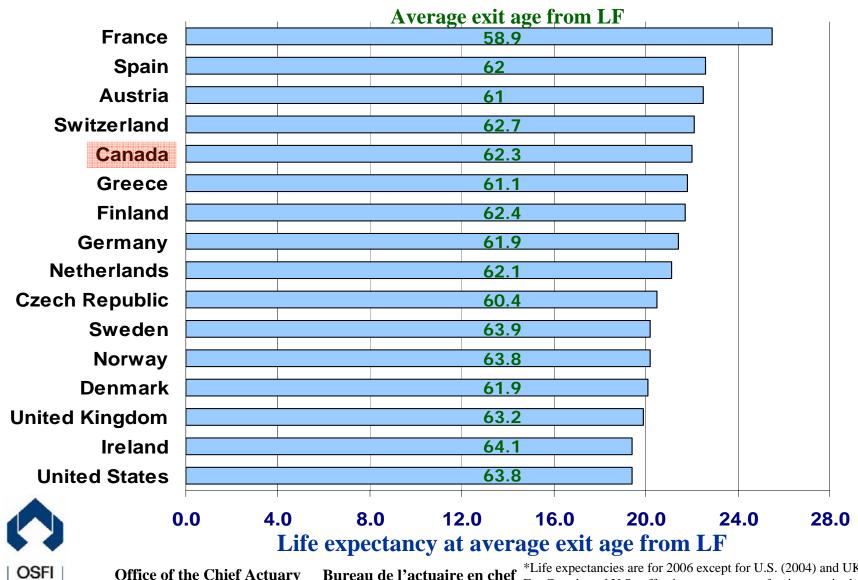
...(cont'd)

	From	To	Transition Period		
Ireland	Social insurance pensions: retirement pension paid from 65,				
	old age contributory pension paid from 66				
Japan	60	65	2000-2025 (M) / 2030 (F)		
Norway	70	67	1973		
	(maxy ED A 62)		(proposed as part of		
		(new ERA 62)	new pension system 2010)		
South Korea	60	65	2013-2033		
UK	60 (F)	65 (F)	2010-2020		
	65 (M, F)	68 (M, F)	2024-2046		
U.S.	65	66	2002-2008 (year attained 65)		
	66	67	2020-2026 (year attained 66)		



OECD Countries –

Life Expectancy at Average Exit Age from Labour Force*



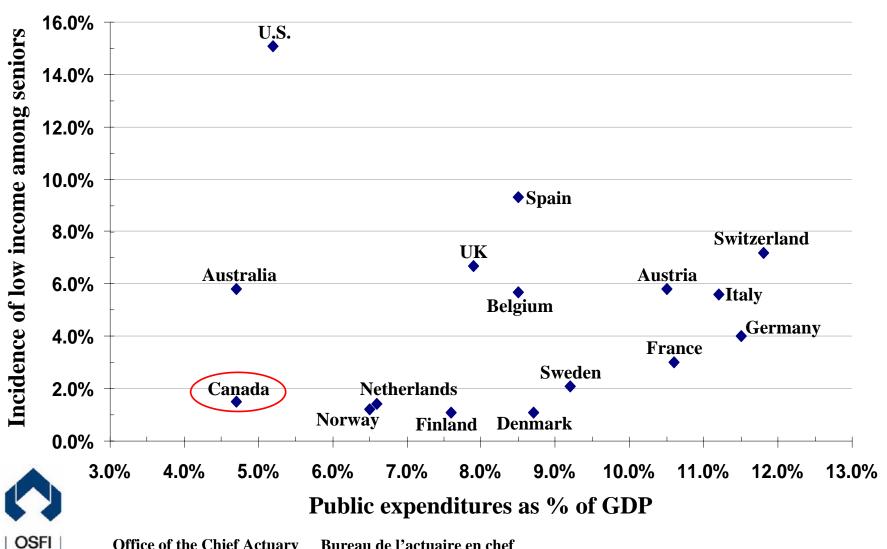
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*Life expectancies are for 2006 except for U.S. (2004) and UK (2005). For Canada and U.S., effective average age of retirement is shown. 16 Sources: Eurostat, OECD, OCA, U.S. National Center for Health Statistics.

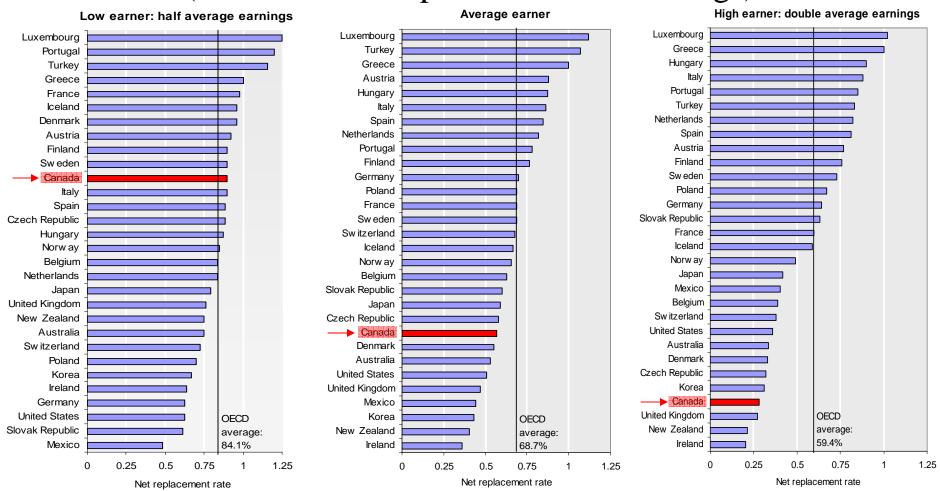
OECD Countries – Incidence of Low Income Among Seniors vs. Old Age Income Security Program Expenditures, as % GDP





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OECD Countries – Net Replacement Rates at Different Earnings Levels (% of individual pre-retirement earnings)





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Source: OECD pension models.

OECD Policy Brief: Solving the Pensions Puzzle, March 2005

Note: Chart reproduced by the OCA

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An Efficient Retirement System Provides:

• Diversification of sources of retirement income



- Diversification of funding approaches
- Reasonable economic cost of public pensions (% of GDP)



Reduction of poverty among seniors



Reduction of income inequalities



• Maintenance of standard of living at retirement







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Thank you

