On Long-Term Fiscal Planning

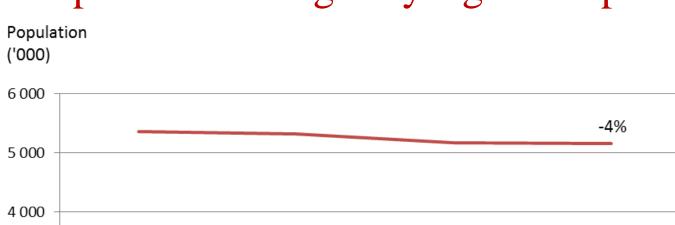
25 March 2014

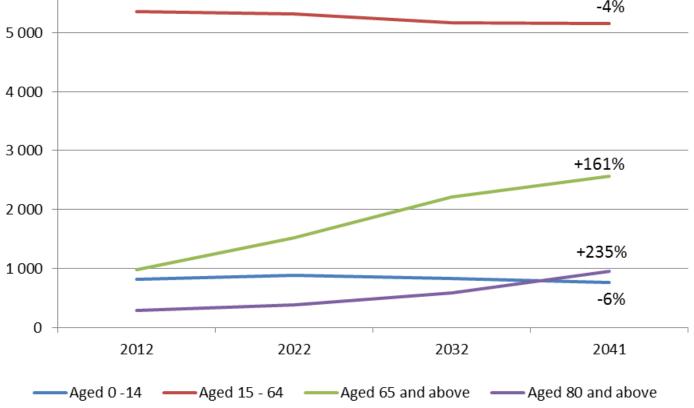
Our Tasks

- Projections up to 2041
 - > Economic growth
 - > Government revenue
 - > Government expenditure
- Overseas reference
- Fiscal measures

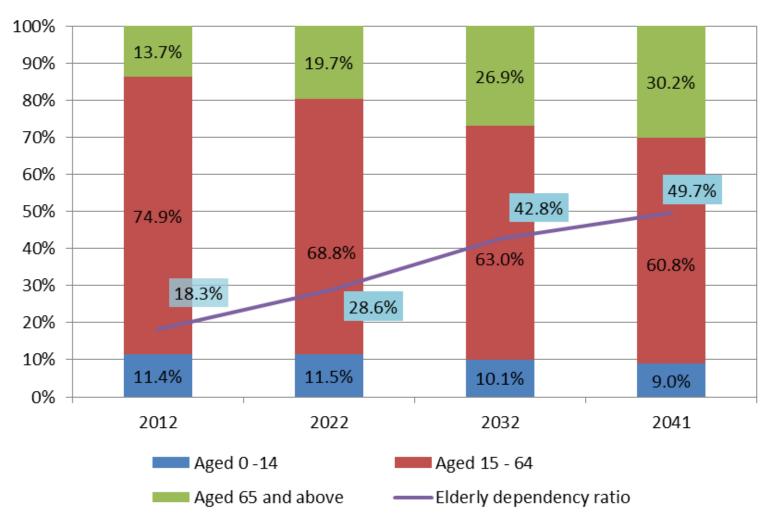
Population Ageing

Population Changes by Age Groups

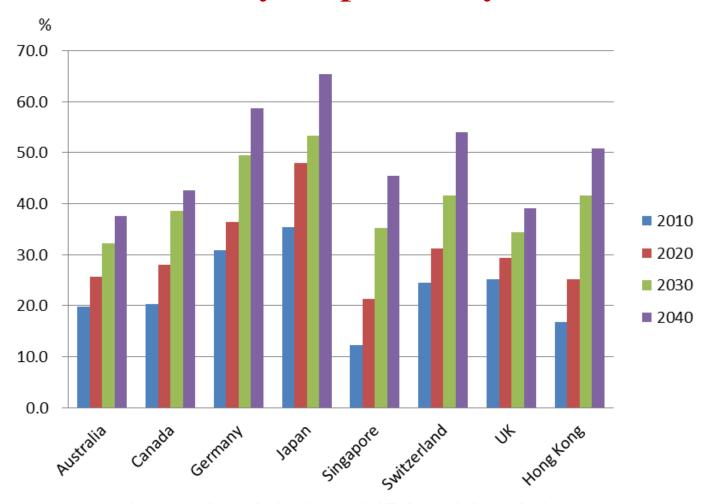




Proportion of Different Age Groups to Total Population and Elderly Dependency Ratio

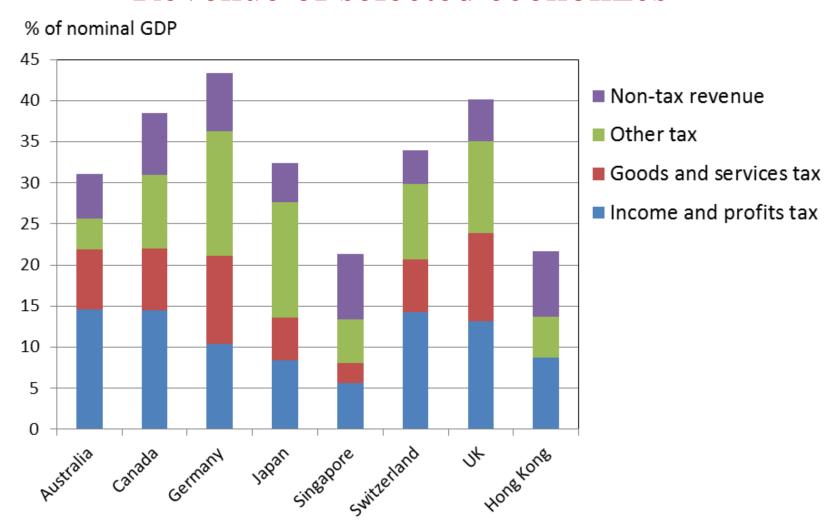


Elderly Dependency Ratio



Source: Other economies - United Nations Probabilistic Population Projections Singapore - Department of Statistics, Singapore Government

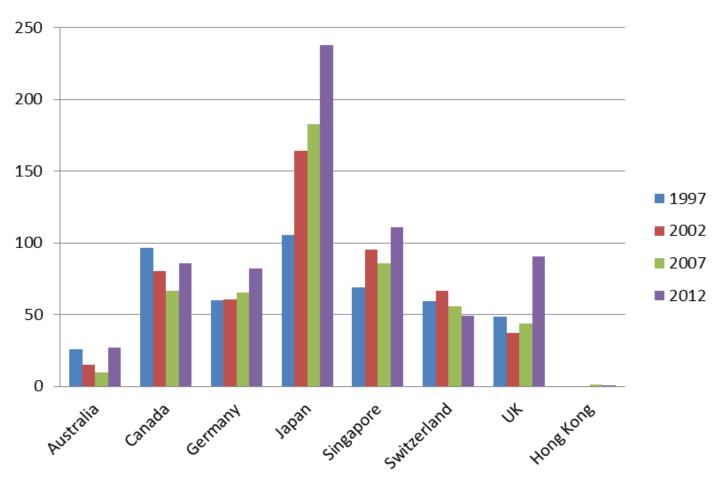
Revenue of selected economies



Sources: Other countries - OECD (for 2010)
Singapore - Singapore 2013 Budget
Hong Kong - Government's figures for 2012-13

Debt level of selected economies

% of Nominal GDP

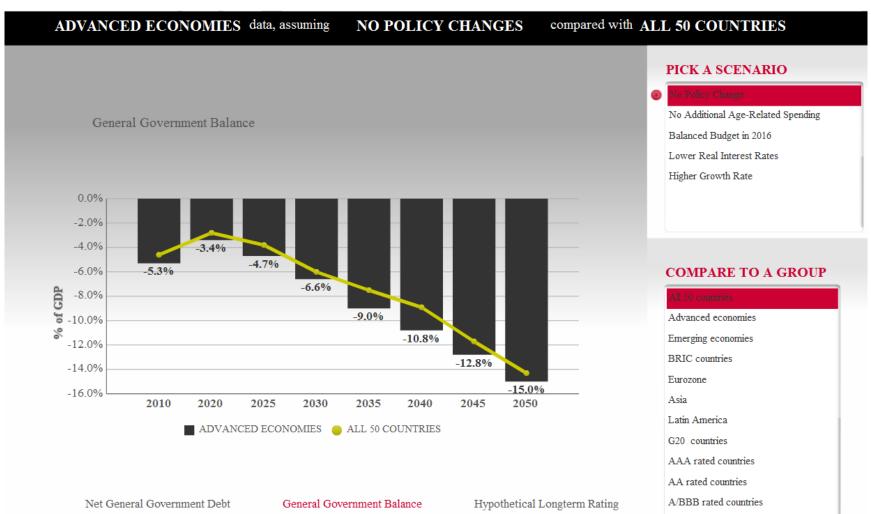


Source: IMF WEO Database



GLOBAL AGING IN 2013

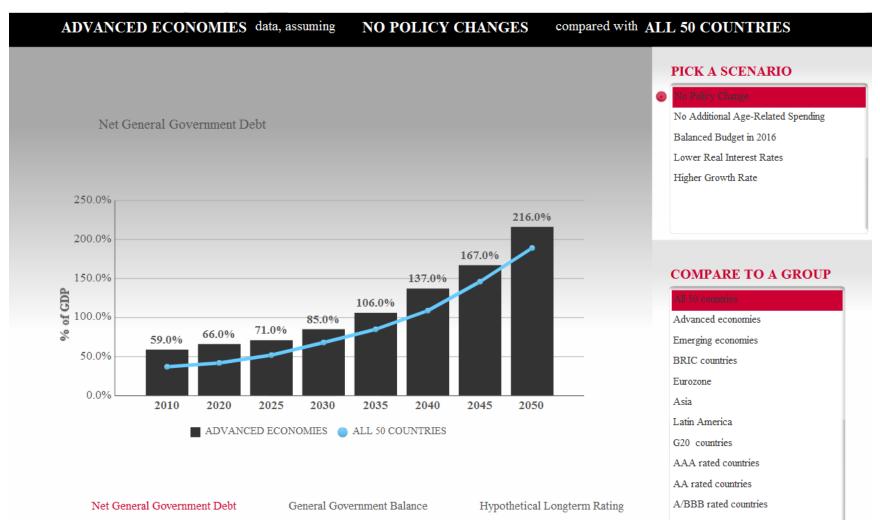
In the absence of appropriate budgetary adjustment and reform, population aging will lead to profound changes in economic growth prospects for countries around the world, with the future fiscal burden increasing significantly across the board.





GLOBAL AGING IN 2013

In the absence of appropriate budgetary adjustment and reform, population aging will lead to profound changes in economic growth prospects for countries around the world, with the future fiscal burden increasing significantly across the board.



No Policy Change Scenario

	General government balance (% GDP)			
	2010	2040f	2050f	
Australia	(5.3)	(8.1)	(12.5)	
Canada	(5.4)	(7.6)	(10.5)	
China	(1.7)	(12.1)	(18.7)	
France	(7.1)	(11.2)	(14.8)	
Germany	(4.1)	(8.7)	(12.9)	
Greece	(10.7)	(12.1)	(16.4)	
India	(8.3)	(8.9)	(11.2)	
Indonesia	(0.7)	(5.5)	(7.9)	
Japan	(8.5)	(24.3)	(30.8)	
Korea	1.0	(17.0)	(31.3)	
Netherlands	(5.1)	(19.7)	(27.1)	
Russia	(3.5)	(24.1)	(37.8)	
Spain	(9.7)	(11.1)	(17.0)	
U.K.	(10.2)	(15.5)	(19.6)	
U.S.	(9.7)	(21.2)	(27.8)	
Advanced economies	(5.3)	(10.8)	(15.0)	

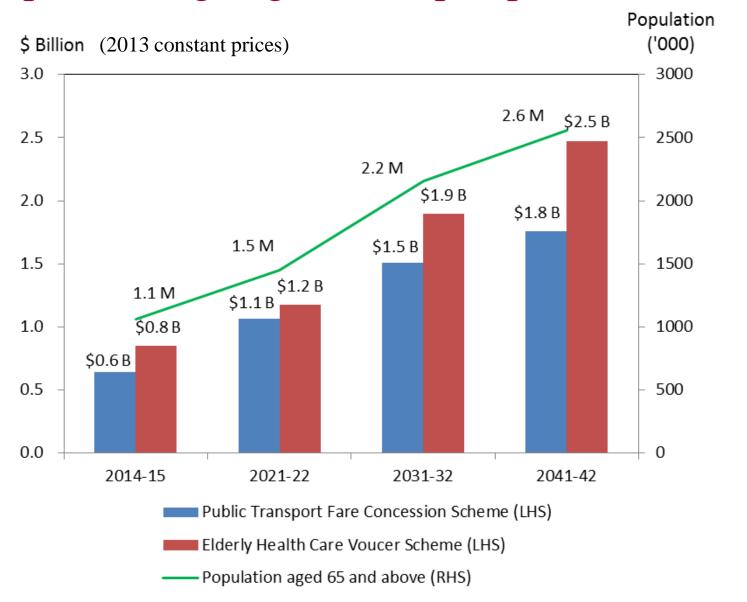
Source: Standard & Poor's Ratings Services

No Policy Change Scenario

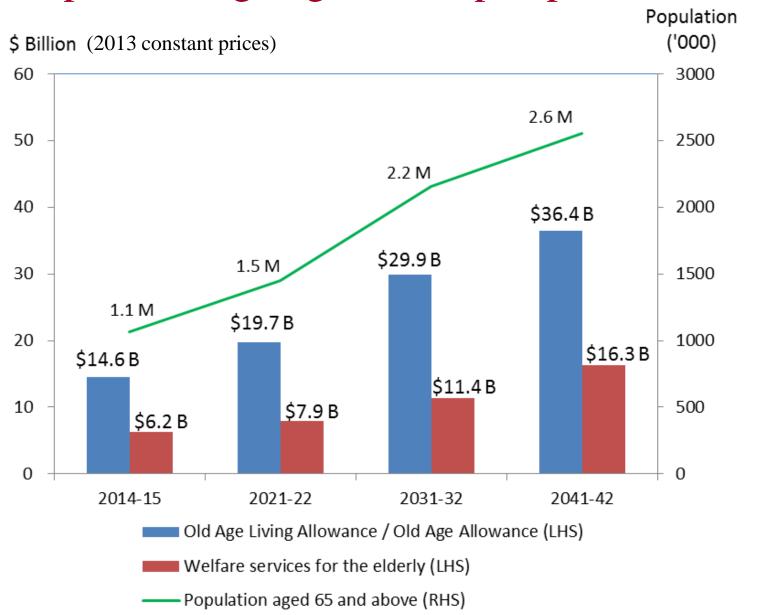
	Net general government debt (% GDP)			
	2010	2040f	2050f	
Australia	16.0	78.0	139.0	
Canada	48.0	101.0	147.0	
China	14.0	108.0	199.0	
France	77.0	163.0	228.0	
Germany	80.0	130.0	195.0	
Greece	143.0	239.0	303.0	
India	75.0	109.0	145.0	
Indonesia	24.0	55.0	87.0	
Japan	105.0	375.0	494.0	
Korea	20.0	136.0	313.0	
Netherlands	59.0	243.0	380.0	
Russia	1.0	215.0	444.0	
Spain	51.0	164.0	247.0	
U.K.	76.0	223.0	302.0	
U.S.	71.0	258.0	366.0	
Advanced economies	59.0	137.0	216.0	

Source: Standard & Poor's Ratings Services

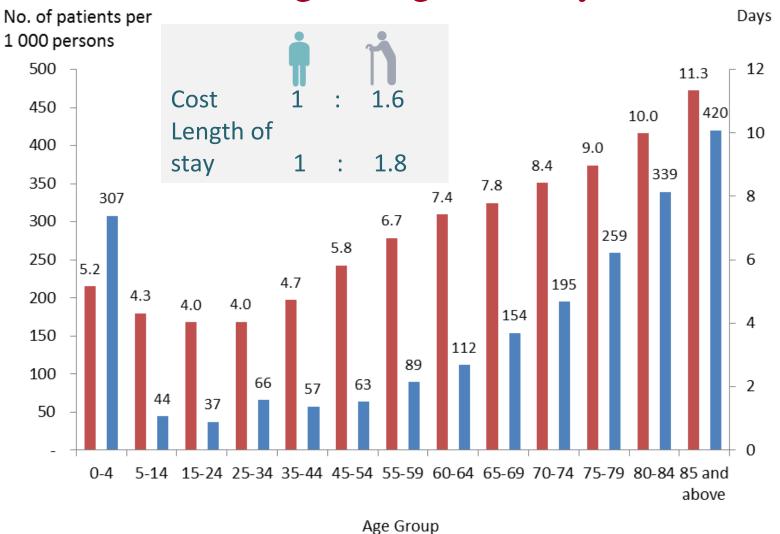
Population ageing drives up expenditure



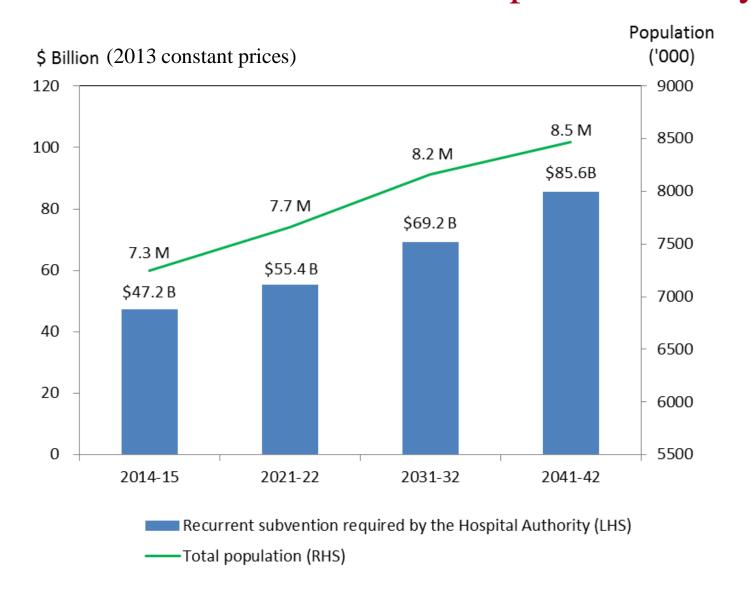
Population ageing drives up expenditure



Hospitalisation Rates and Average Length of Stay

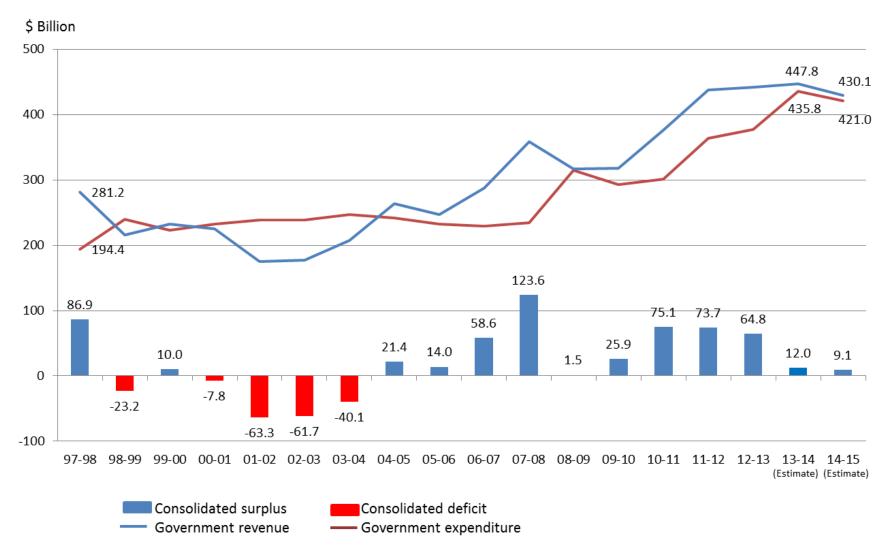


Recurrent Subvention to Hospital Authority

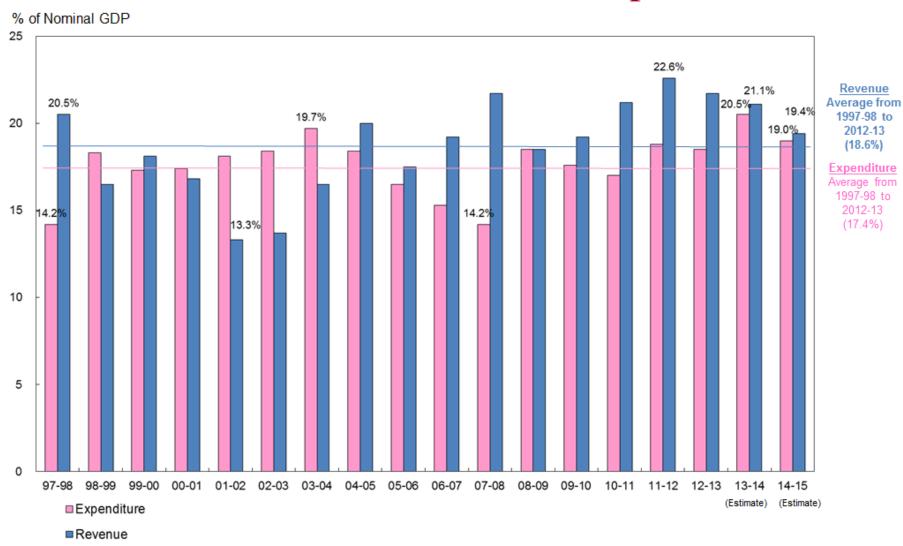


Fiscal Health Check

Fiscal Performance

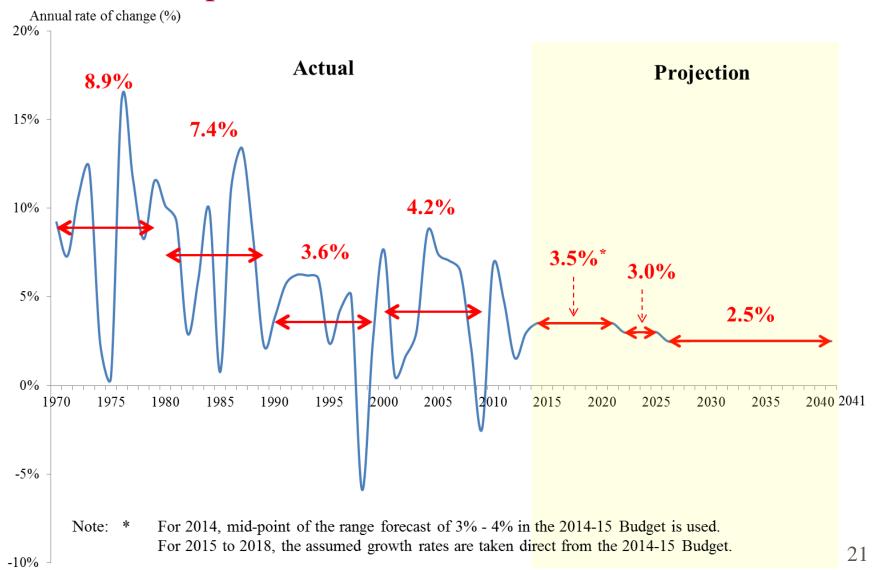


Government Revenue and Expenditure

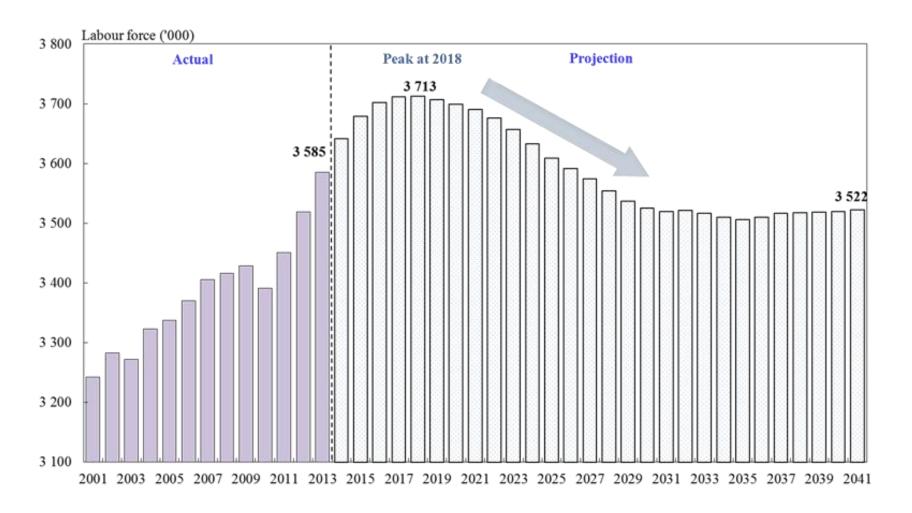


Macroeconomic Assumptions

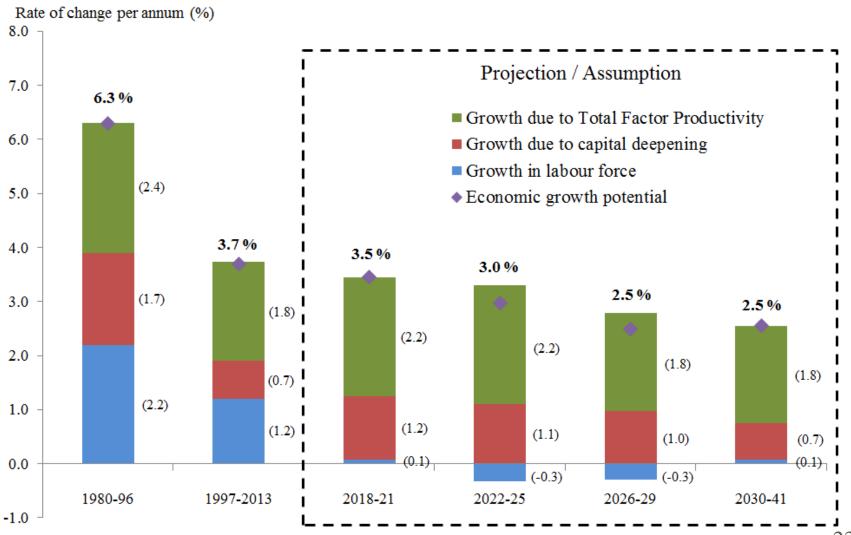
Economic growth is expected to settle at a slower pace



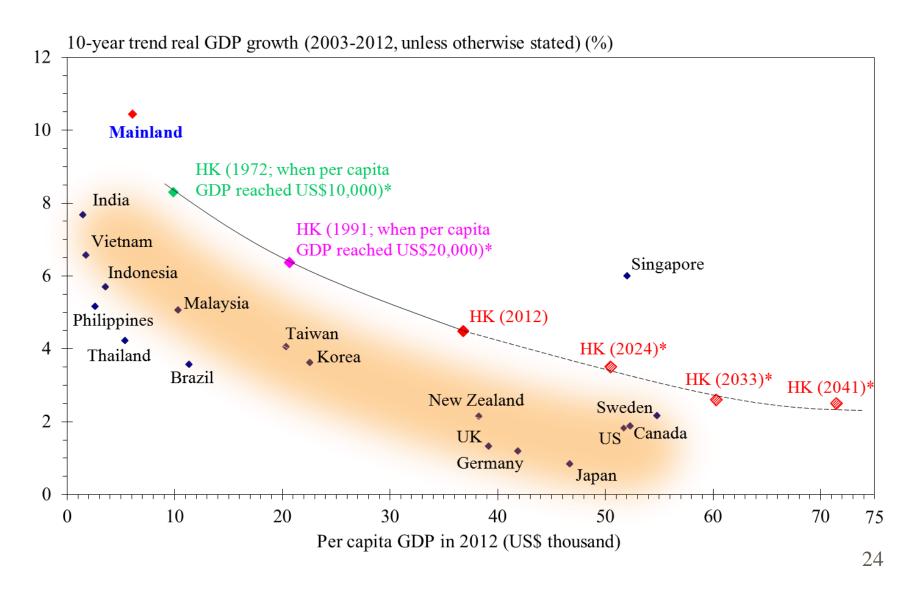
Labour force is expected to decline after 2018, only to stabilise in the 2030s



Economic growth potential looks set to decelerate over the long term as labour force starts to stagnate

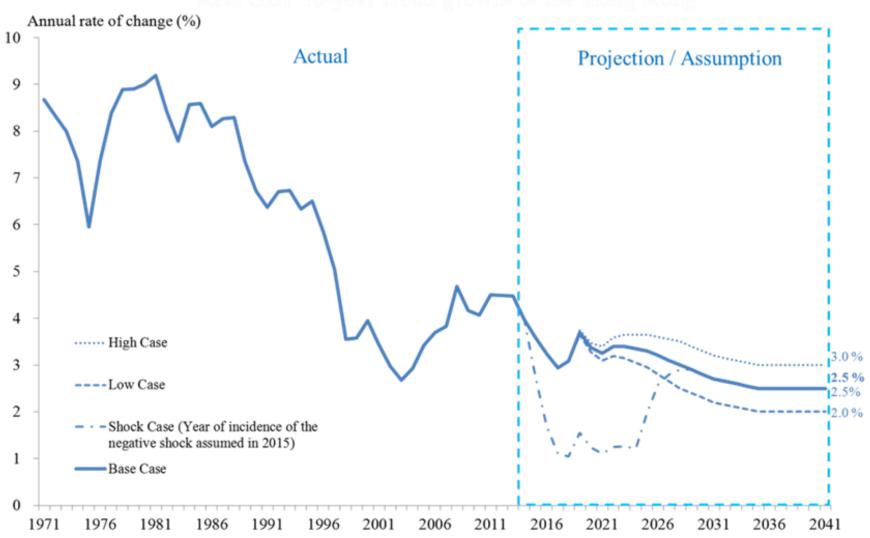


Economic growth bound to go lower as the economy becomes more mature

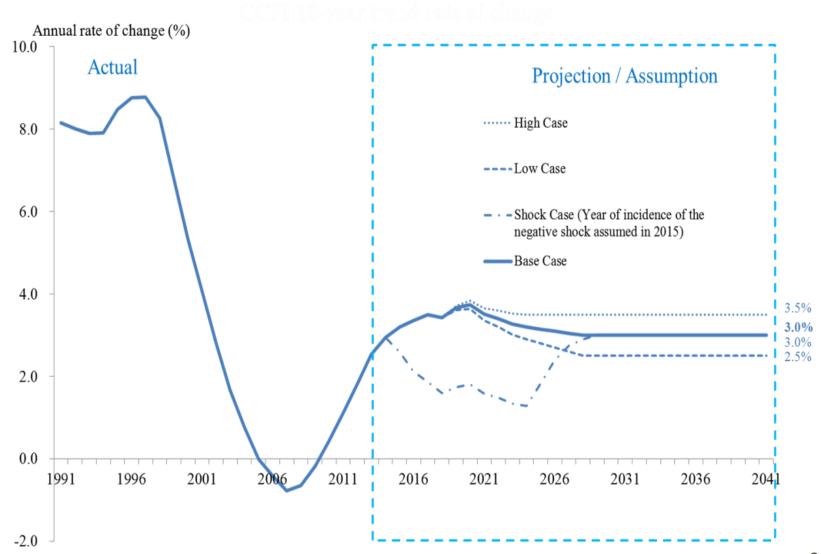


Real GDP 10-year trend growth rates

Real GDP 10-year trend growth of the Hong Kong

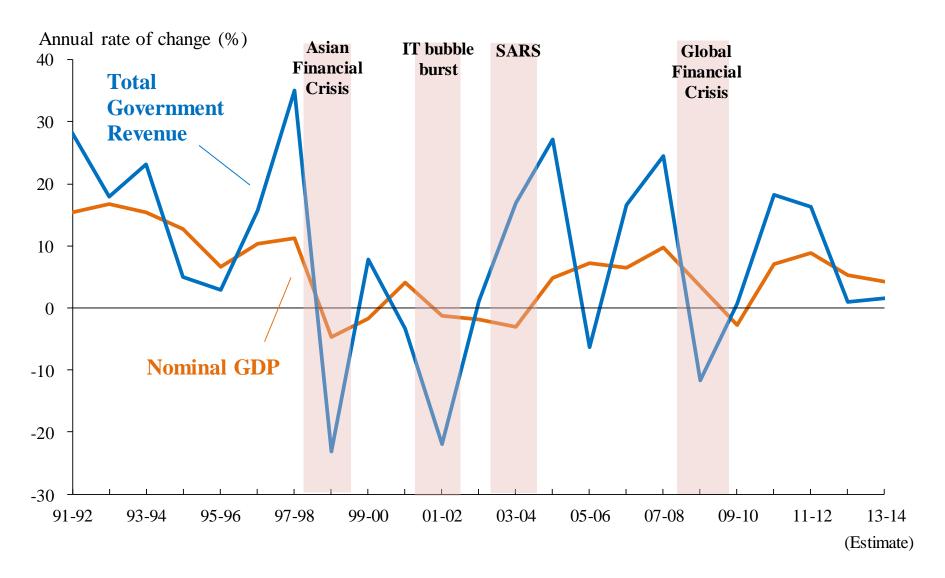


Consumer price inflation 10-year trend rates of change

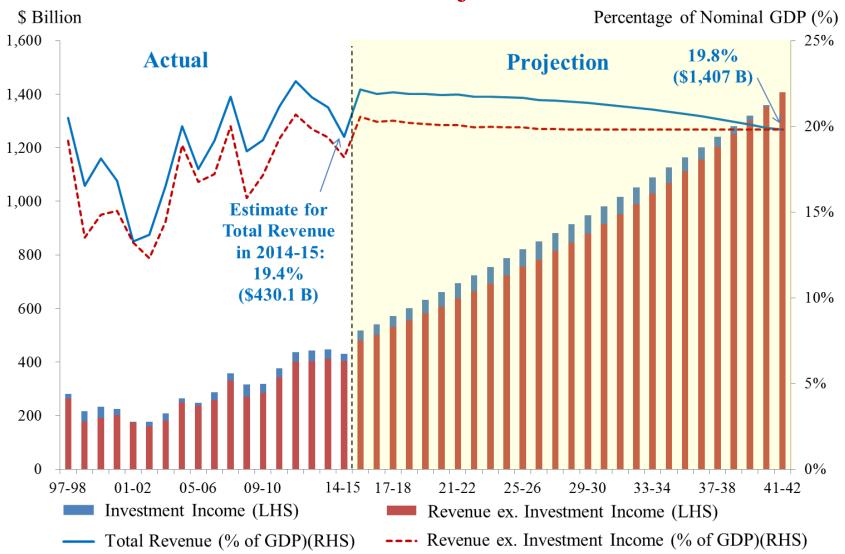


Revenue Projections

Government Revenue



Revenue Projection



Expenditure Projections

Projection for recurrent expenditure on Education, Social Welfare and Health

- No Service Enhancement
- Service Enhancement at
- > 1%
- > 2%
- Historical Trend

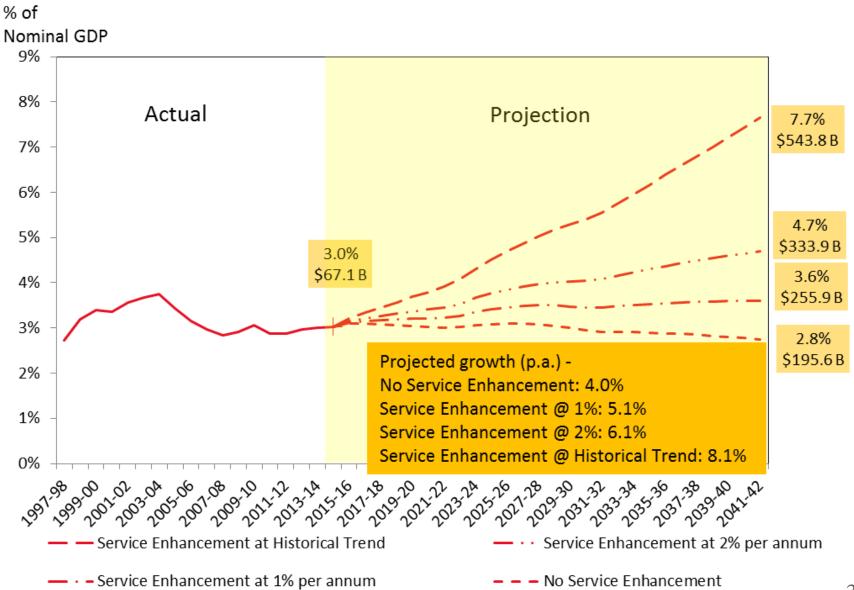
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Education – 3.86%

Social Welfare – 2.8%

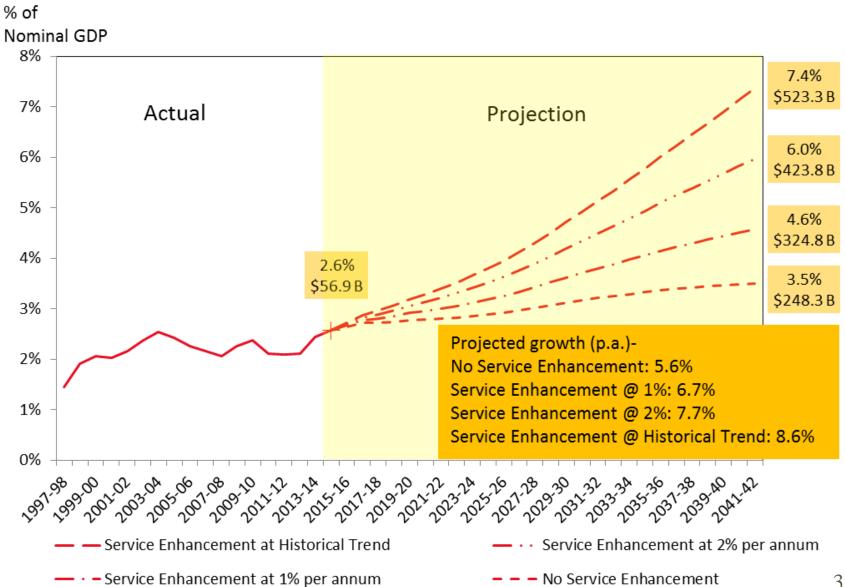
Health – 2.63%

on ⇒erage – 3%
```

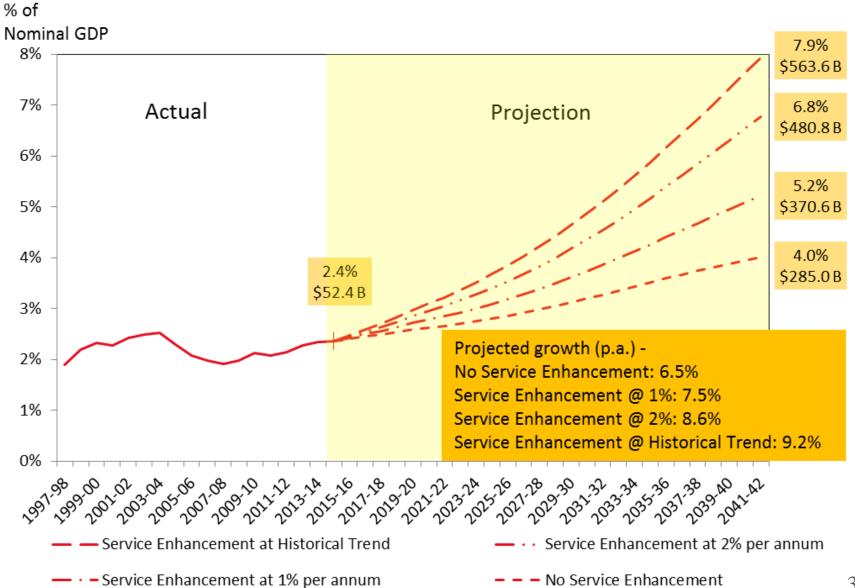
Education



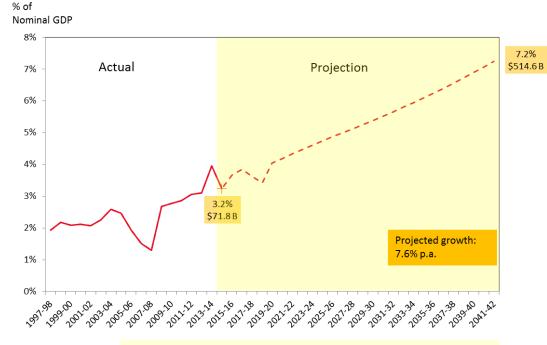
Social Welfare

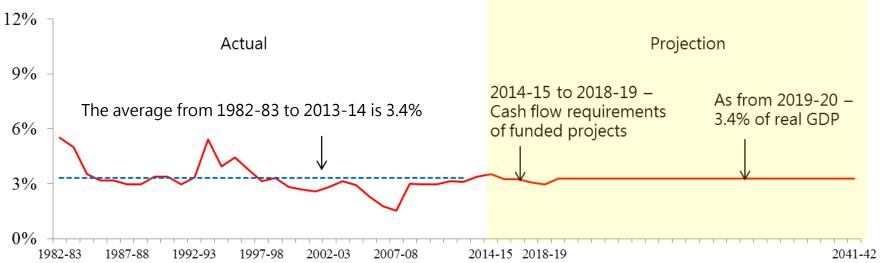


Health



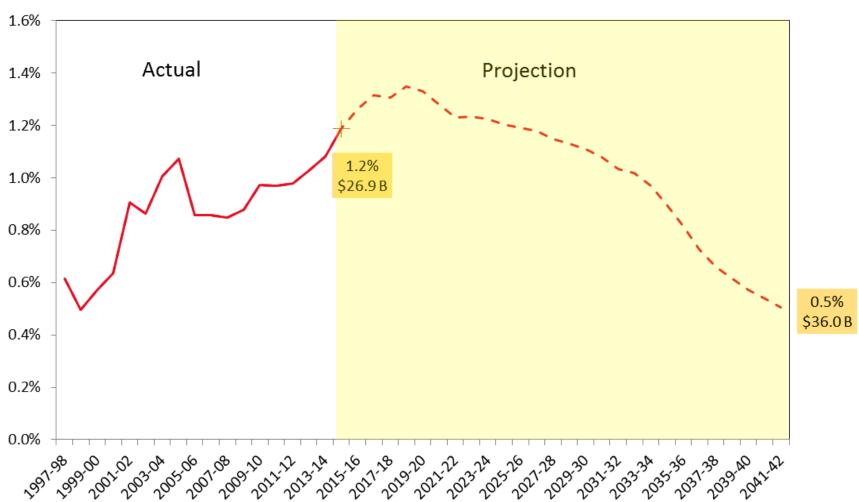
Capital Works





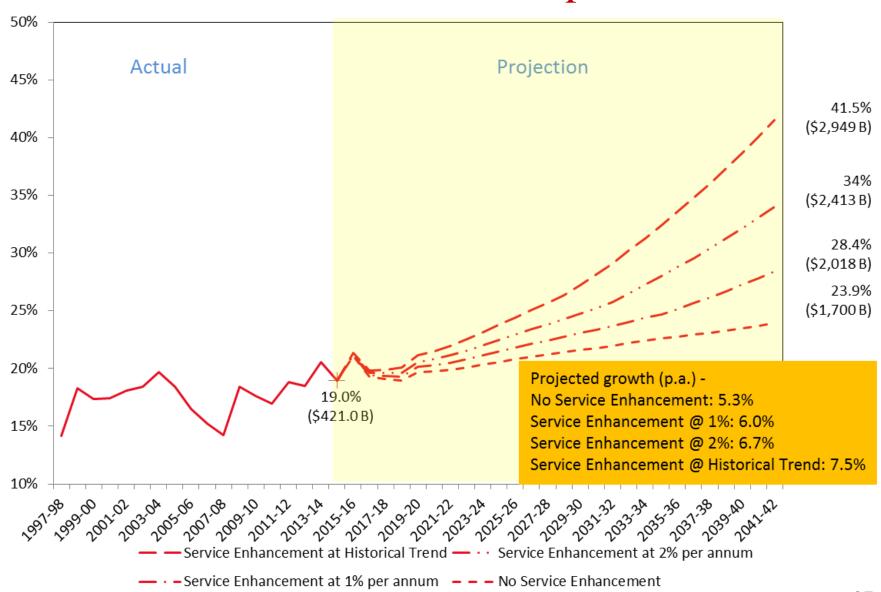
Pensions





% of Nominal GDP

Total Government Expenditure



Trend Growth

	Projected Trend Growth (Base Case, No Service Enhancement)	Trend Growth in recent years	
(Annual rate of change)	2014-15 to 2041-42	1997-98 to 2014-15	2009-10 to 2014-15
Real GDP	2.8%	3.4%	3.9%
Nominal GDP	4.4%	2.9%	6.0%
Government revenue	4.5%	2.5%	6.2%
Government expenditure	5.3%	4.7%	7.5%

Housing Authority

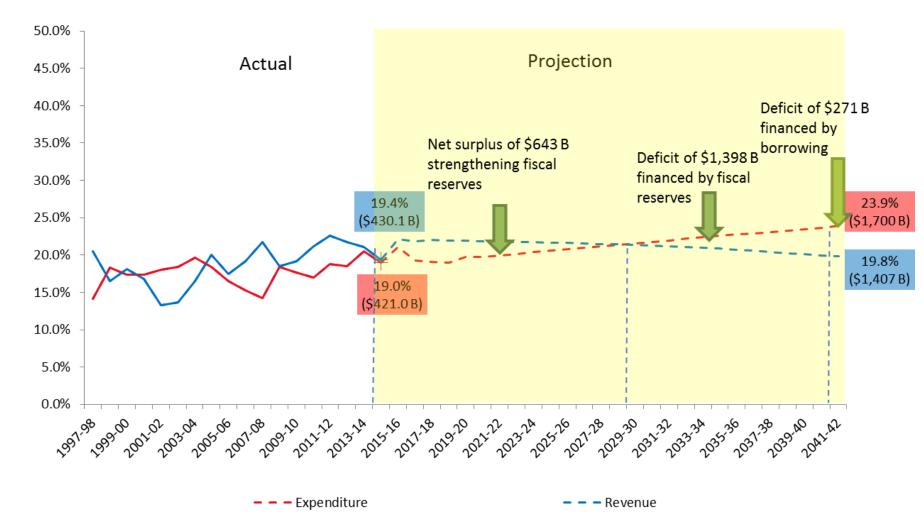
- Flats production
 - $ightharpoonup PRH 20\ 000\ p.a.\ (unit cost : $0.54\ M^{\#})$
 - \rightarrow HOS 5 000* p.a. (unit cost: \$0.99 M*)
- Cash shortfall
 - > \$490 B (rent increase @ 5% biennially)
 - > \$130 B (rent increase @ 10% biennially)

- * 8 000 p.a. announced in 2014 Policy Address
- # Figures provided to FC of LegCo in April 2013 based on HA's June 2012 Construction Cost Yardstick

Fiscal Sustainability

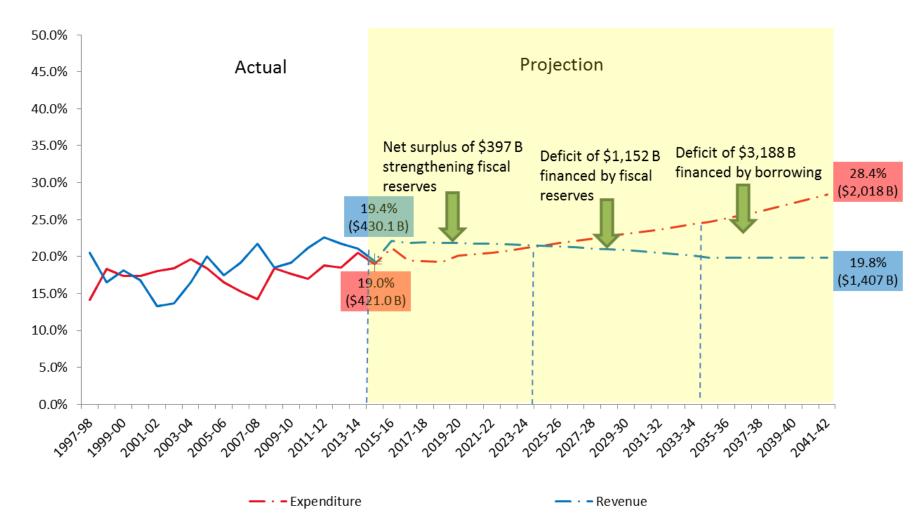
(Base Case, No Service Enhancement)

% of Nominal GDP



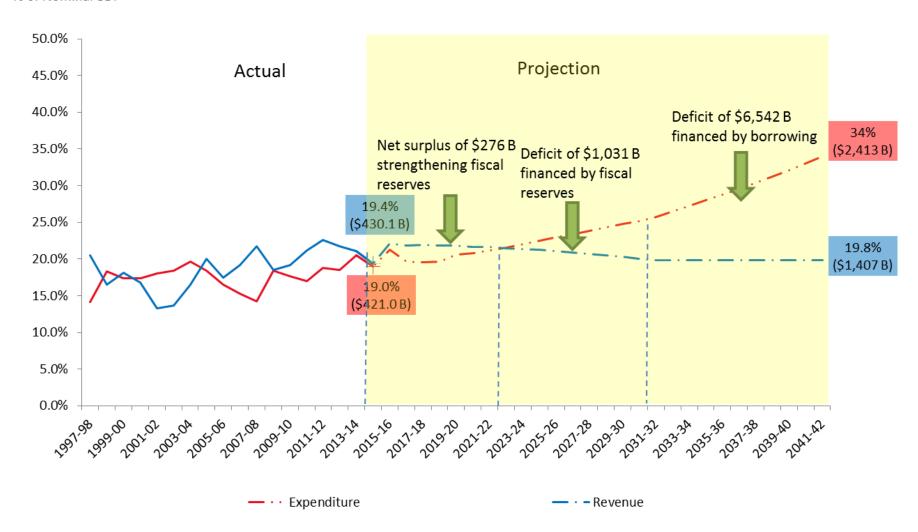
(Base Case, Service Enhancement @ 1%)

% of Nominal GDP

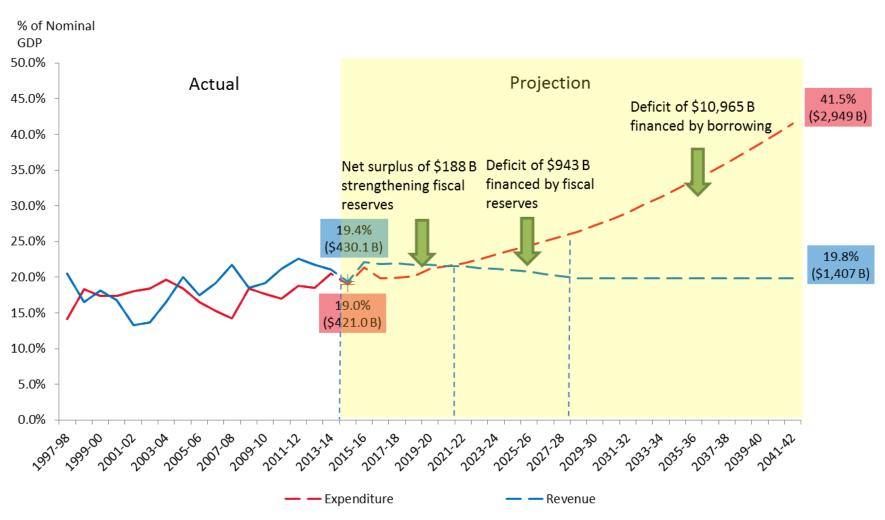


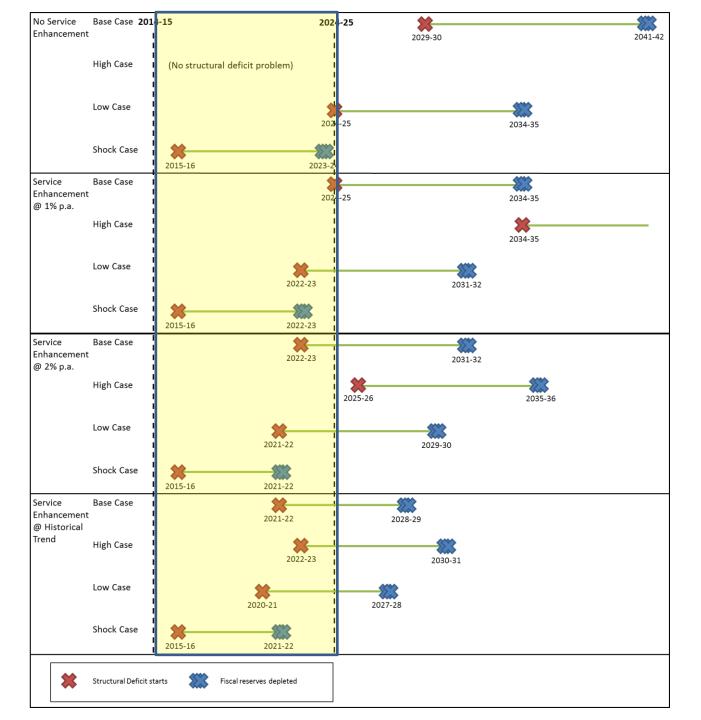
(Base Case, Service Enhancement @ 2%)

% of Nominal GDP



(Base Case, Service Enhancement @ Historical Trend)





Projections of Government Revenue and Expenditure Results of Sensitivity Analyses

	2041-42			
	Base Case	High Case	Low Case	Shock Case
Revenue in \$ billion (% of GDP)				
No Service Enhancement	1,407 (19.8%)	2,285 (25.8%)	937 (16.5%)	943 (19.8%)
Service Enhancement at 1% per annum	1,407 (19.8%)	2,135 (24.1%)	937 (16.5%)	943 (19.8%)
Service Enhancement at 2% per annum	1,407 (19.8%)	2,076 (23.5%)	937 (16.5%)	943 (19.8%)
Service Enhancement at Historical Trend	1,407 (19.8%)	2,076 (23.5%)	937 (16.5%)	943 (19.8%)
Expenditure in \$ billion (% of GDP)				
No Service Enhancement	1,700 (23.9%)	2,010 (22.7%)	1,544 (27.1%)	1,393 (29.3%)
Service Enhancement at 1% per annum	2,018 (28.4%)	2,258 (25.5%)	1,829 (32.1%)	1,646 (34.6%)
Service Enhancement at 2% per annum	2,413 (34.0%)	2,660 (30.1%)	2,186 (38.4%)	1,965 (41.3%)
Service Enhancement at Historical Trend	2,949 (41.5%)	3,253 (36.8%)	2,670 (46.9%)	2,398 (50.4%)
Structural deficit starts				
No Service Enhancement	2029-30	n.a.	2024-25	2015-16
Service Enhancement at 1% per annum	2024-25	2034-35	2022-23	2015-16
Service Enhancement at 2% per annum	2022-23	2025-26	2021-22	2015-16
Service Enhancement at Historical Trend	2021-22	2022-23	2020-21	2015-16

Projections of Government Revenue and Expenditure Results of Sensitivity Analyses

	2041-42			
	Base Case	High Case	Low Case	Shock Case
Fiscal Reserves depleted				
No Service Enhancement	2041-42	n.a.	2034-35	2023-24
Service Enhancement at 1% per annum	2034-35	n.a.	2031-32	2022-23
Service Enhancement at 2% per annum	2031-32	2035-36	2029-30	2021-22
Service Enhancement at Historical Trend	2028-29	2030-31	2027-28	2021-22
Debt level as at end-March in \$ billion (%	of GDP)			
No Service Enhancement	271 (3.8%)	n.a.	3,480 (61.1%)	4,226 (88.8%)
Service Enhancement at 1% per annum	3,188 (44.9%)	n.a.	6,097 (107.1%)	6,440 (135.3%)
Service Enhancement at 2% per annum	6,542 (92.1%)	2,676 (30.2%)	9,180 (161.3%)	9,088 (191%)
Service Enhancement at Historical Trend	10,965 (154.3%)	7,497 (84.7%)	13,274 (233.2%)	12,624 (265.2%)

Proposed Fiscal Measures

Economic growth needed to avoid structural deficit

No Service
 Enhancement

3.1% p.a.

Service Enhancement@ 1% per annum

3.6% p.a.

Service Enhancement@ 2% per annum

4.4% p.a.

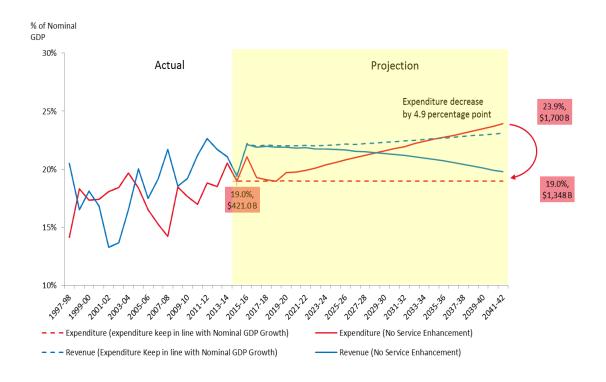
Service Enhancement@ Historical Trend

5.4% p.a.

Recommendations

(A) Containing expenditure growth

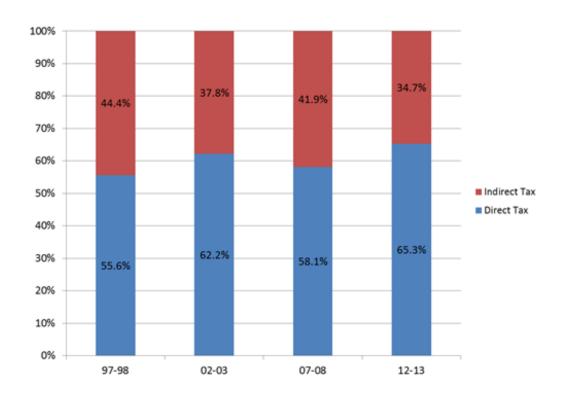
contain expenditure growth within nominal GDP growth



- keep public expenditure at 20% of GDP
- assess fiscal sustainability of new initiatives

(B) Preserving, stabilising and broadening the revenue base

avoid excessive reliance on direct taxation



- step up tax enforcement
- reinforce user pays principles

(C) Saving for the future

- "freeze" the Land Fund
- not account for as fiscal reserves
- endowment, withdrawal and operation
- consult stakeholders

(D) Segregating and balancing the Operating and Capital Accounts

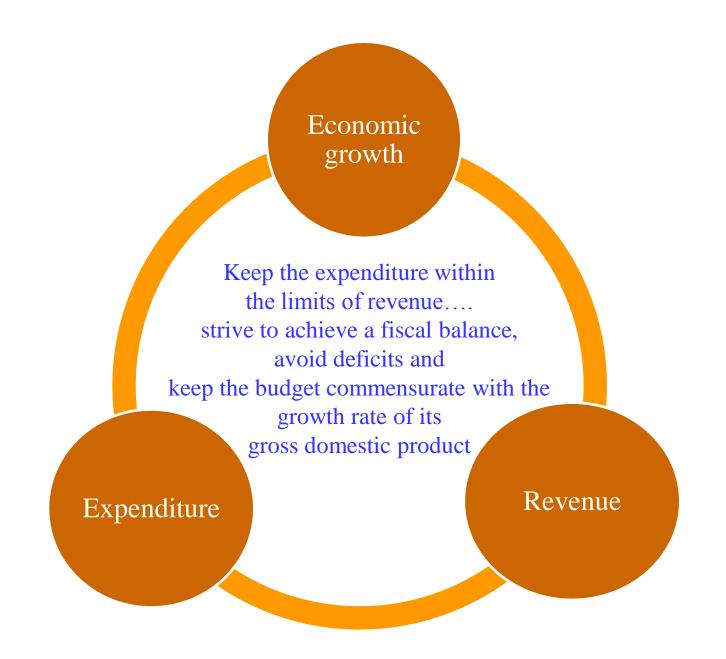
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(\$ Billion)	2013-14	2014-15	2015-16
	Estimate	Estimate	Forecast
Operating Account			
Operating revenue	347.9	348.9	392.3
Less: Operating expenditure	(338.8)	(325.0)	(388.8)
Operating surplus	9.1	23.9	3.5
Capital Account			
Capital revenue	99.9	81.2	70.0
Less: Capital expenditure	(97.0)	(86.2)	(101.7)
Capital surplus/(deficit)	2.9	(5.0)	(31.7)
Bond repayment	-	(9.8)	-
Consolidated surplus/(deficit)	12.0	9.1	(28.2)
Fiscal reserves at 31 March	745.9	755.0	726.8
Represented by:			
Operating Account balance			
Opening balance		394.2	413.1
Operating surplus		23.9	3.5
Transfer to Capital Account		(5.0)	-
Closing balance	394.2	413.1	416.6
Capital Account balance			
Opening balance		351.7	341.9
Capital deficit		(5.0)	(31.7)
Bond repayment		(9.8)	-
Transfer from Operating Account		5.0	
Closing balance	351.7	341.9	310.2
0		2 := *>	

(E) Making clear what the fiscal reserves cover

	2013–14
(\$ million)	Revised Estimate
General Revenue Account	394,241
Funds with designated use	131,957
Capital Works Reserve Fund	78,679
Capital Investment Fund	1,992
Civil Service Pension Reserve Fund	27,029
Disaster Relief Fund	29
Innovation and Technology Fund	1,801
Loan Fund	1,357
Lotteries Fund	21,070
Land Fund	219,730
Total	745,928

- (F) Stepping up the management of the Government's assets
 - disposal or securitization
 - operational and management cost effectiveness

- (G) Sustaining the financial health of the Housing Authority
 - review the business mode



End