	Α		В	(2012-2060)	D	E	F	G	Н		J	К	L	М	N
						=A*D*12	•			-F+G+H		=(H+J)/L	= +]	=L-E	
Year	Elderly 65+ Years	% of yearly change	Total Population (15-64 Years)	Employed Persons (15-64 Years)	Suggested Monthly Pension Rate	Annual Pension Payment	Pension subscripti on on Employees (2.5%)	(2.5%)	Pension subscription on Government	Total Pension Subscription	CSSA and OALA to Elders 65+	Total Gov't Contribution as % of Total Contribution	Total Tripartite Contribution	Yearly Surplus/ Deficit	Accumulativ e Surplus
	(,000)		(,000)	(,000)	(\$)	(\$ billions)	(\$ billions)	(\$ billions)	(\$ billions)	(\$ billions)	(\$ billions)		(\$ billions)	(\$ billions)	(\$ billions)
2010	<u>918.3</u>	0.50/	4,982.8	3,185.1											
2011	941.1	2.5%	5,052.6	3,229.9											
2012	<u>979.9</u>	4.1%	5,053.6	3,322.5											
2013	1,026.8	4.8%	5,048.9	3,382.9											1
2014	1,063.3	3.6% 4.9%	5,055.3	3,364.9											
2015	1,115.1		5,048.0	3,383.1											
2016	1,164.5	4.4%	5,047.6	3,402.2	4 000 0	50.2	24.0	24.2	50.0	00.2	20.2	(1.00/	126.5	(0.2	(0.0
2017	1,214.4	4.3%	5,036.0	3,365.3	4,000.0	58.3	24.0	24.2	50.0	98.2	28.3	61.9%	126.5	68.2	68.2
2018	1,265.2	4.2%	5,024.1	3,355.2	4,124.0	62.6	24.8	25.1	0.0	50.0	30.6	38.0%	80.6	18.0	89.6
2019	1,323.1	4.6%	5,000.9	3,339.9	4,251.8	67.5	25.6	25.9	0.0	51.5	32.7	38.8%	84.2	16.7	110.6
2020	1,384.1	4.6%	4,975.1	3,320.0	4,383.7	72.8	26.3	26.6	0.0	52.9	35.3	40.0%	88.2	15.4	131.4
2021	1,450.5	4.8%	4,949.1	3,293.9	4,519.5	78.7	27.0	27.3	0.0	54.3	38.0	41.2%	92.4	13.7	151.5
2022	1,520.3	4.8%	4,921.0	3,263.9	4,659.7	85.0 92.6	28.7	29.0 29.8	29.1	86.8	41.2	55.0%	128.0	43.0	202.0
2023	1,594.1	4.9%	4,895.7	3,230.9	4,841.4		29.5		0.0	59.3	44.7	43.0%	104.0	11.4	
2024	1,667.9	4.6%	4,872.0	3,198.5	5,030.2	100.7	30.5	30.8	0.0	61.3	48.9	44.4%	110.1	9.4	243.7
2025	1,742.9	4.5%	4,851.0	3,167.1	5,226.4	109.3	31.4	31.7	0.0	63.1	52.8	45.6%	115.9	6.6	262.2
2026	1,815.9	4.2%	4,836.6	3,138.5	5,430.2	118.3	32.5	32.7	0.0	65.2	57.3	46.8%	122.5	4.1	279.2
2027	1,884.1	3.8%	4,830.7	3,114.4	5,642.0	127.6	34.8	35.1	35.3	105.2	61.6	58.1%	166.8	39.2	332.1
2028	1,964.4	4.3%	4,800.2	3,089.3	5,884.6	138.7	35.9	36.4	0.0	72.3	67.1	48.1%	139.4	0.7	349.1
2029	2,036.7	3.7%	4,768.2	3,068.8	6,137.6	150.0	37.2	37.7	0.0	74.9	72.7	49.3%	147.6	-2.4	363.8
2030	2,102.2	3.2%	4,742.2	3,053.6	6,401.5	161.5	38.5	39.0	0.0	77.5	78.2	50.2%	155.7	-5.8	375.9
2031	2,159.4	2.7%	4,724.3	3,043.8	6,676.8	173.0	40.1	40.4	0.0	80.6	84.0	51.0%	164.5	-8.5	385.8
2032	2,208.5	2.3%	4,714.3	3,040.5	6,963.9	184.6	43.5	44.0	43.5	130.9	89.3	60.3%	220.2	35.7	440.4
2033	2,258.6	2.3%	4,702.4	3,036.5	7,207.6	195.4	45.1	45.6	0.0	90.7	94.9	51.1%	185.6	-9.8	452.2
2034	2,307.9	2.2%	4,690.6	3,031.2	7,459.9	206.6	46.6	47.2 48.7	0.0	93.8	100.2	51.7%	194.0	-12.6	461.7
2035	2,354.6	2.0%	4,681.1	3,027.1	7,721.0	218.2	48.1	48.7	0.0	96.8	105.6	52.2% 52.6%	202.4	-15.8	468.0
2036	2,400.1		4,672.0		7,991.2	230.2	50.0			100.3	111.2		211.6	-18.6	473.0
2037	2,438.3	1.6%	4,668.7	3,025.6	8,270.9	242.0	53.6	54.3	51.7	159.6	117.2	61.0% 52.4%	276.8	34.8	531.0
2038	2,477.4	1.6%	4,661.4	3,023.8	8,560.4	254.5	55.6	56.2	0.0	111.8	123.3		235.1	-19.4	537.0
2039	2,510.8	1.3%	4,657.7	3,020.6	8,860.0	266.9	57.6	58.3	0.0	115.8	129.5	52.8%	245.3	-21.6	542.3
2040	2,539.3	1.1%	4,656.2	3,019.0	9,170.1	279.4	59.5	60.3	0.0	119.8	135.4	53.1%	255.2	-24.2	544.7
2041	2,557.6	0.7%	4,662.4	3,020.4	9,491.1	291.3	62.0	62.4	0.0	124.4	141.0	53.1%	265.5	-25.8	545.5
2042	2,574.8	0.7%	4,664.6	3,018.9	9,823.3	303.5	66.4	67.1	61.4	194.9	147.4	61.0%	342.3	38.8	611.1
2043	2,589.0	0.6%	4,666.1	3,016.8	10,167.1	315.9	68.8	69.6	0.0	138.4	152.4	52.4%	290.8	-25.0	616.0
2044	2,602.9	0.5%	4,664.9	3,013.9	10,522.9	328.7	71.4	72.2	0.0	143.6	158.0	52.4%	301.5	-27.1	619.0
2045	2,616.9	0.5%	4,659.8	3,009.7	10,891.2	342.0	73.8	74.7	0.0	148.6	163.7	52.4%	312.2	-29.8	619.0
2046	2,629.7	0.5%	4,653.0	3,005.2	11,272.4	355.7	76.8	77.3	0.0	154.2	169.6	52.4%	323.8	-31.9	618.0
2047	2,640.6	0.4%	4,645.7	3,000.9	11,667.0	369.7	82.2	83.2	0.0	165.4	175.8	51.5%	341.2	-28.5	619.8
2048	2,652.1	0.4%	4,634.3	2,995.6	12,075.3	384.3	85.3	86.3	0.0	171.6	182.2	51.5%	353.8	-30.5	619.6
2049	2,658.7	0.2%	4,623.8	2,989.7	12,497.9	398.7	88.5	89.6	0.0	178.1	188.6	51.4%	366.7	-32.0	618.0
2050	2,664.9	0.2%	4,610.1	2,982.3	12,935.4	413.7	91.6	92.7	0.0	184.3	195.4	51.5%	379.7	-34.0	614.

	Α		В	С	D	E	F	G	Н	1	J	К	L	М	N
						=A*D*12				=F+G+H		=(H+J)/L	=l+J	=L-E	
Year	Elderly 65+ Years	% of yearly change	Total Population (15-64 Years)	Employed Persons (15-64 Years)	Suggested Monthly Pension Rate	Annual Pension Payment	Pension subscripti on on Employees (2.5%)	Pension subscriptio n on Employers (2.5%)	subscription on	Total Pension Subscription	CSSA and OALA to Elders 65+	Total Gov't Contribution as % of Total Contribution	Total Tripartite Contribution	Yearly Surplus/ Deficit	Accumulati e Surplus
	(,000)		(,000)	(,000)	(\$)	(\$ billions)	(\$ billions)	(\$ billions)	(\$ billions)	(\$ billions)	(\$ billions)		(\$ billions)	(\$ billions)	(\$ billions)
2051	2,669.1	0.2%	4,595.1	2,973.9	13,388.1	428.8	95.2	95.9	0.0	191.1	202.1	51.4%	393.2	-35.6	608.
2052	2,669.1	0.0%	4,581.6	,	13,856.7	443.8	101.9		0.0	204.9	209.1	50.5%	414.0	-29.8	608.
2053	2,671.5	0.1%	4,564.4	2,955.1	14,341.7	459.8	105.6		0.0	212.4	216.4	50.5%	428.8	-31.0	607.
2054	2,676.6	0.2%	4,543.6	/	14,843.6	476.8	109.4	110.7	0.0	220.1	223.9	50.4%	444.0	-32.7	604.
2055	2,679.1	0.1%	4,524.9		15,363.2	493.9		114.5	0.0	227.6	231.9	50.5%	459.5	-34.4	599.
2056	2,681.1	0.1%	4,506.7	2,921.2	15,900.9	511.6	117.5	118.3	0.0	235.8	240.3	50.5%	476.0	-35.5	593.
2057	2,681.7	0.0%	4,490.4	2,911.0	16,457.4	529.6	125.7	127.1	0.0	252.7	248.5	49.6%	501.3	-28.3	594.
2058	2,682.2	0.0%	4,474.3	2,901.4	17,033.4	548.2	130.2	131.7	0.0	261.9	257.2	49.6%	519.1	-29.1	594.
2059	2,681.4	0.0%	4,459.4	2,892.4	17,629.6	567.3	134.9		0.0	271.4	266.1	49.5%	537.5	-29.7	593.
2060	2,681.8	0.0%	4,443.6	2,883.7	18,246.6	587.2	139.4	141.0	0.0	280.5	275.4	49.5%	555.9	-31.3	591.
Remarks A, B		ures from 2012	s to 2041 are base	ed on the "Hong	Kong Populati		2,866.3	2,897.2	271.0		tment made by Dr Lio				
	The population figu from 2042 to 2060 The projected perc 2012 to 2016 are b	ures from 2012 are also derive entage of empl ased on the for	's to 2041 are bass d from Dr. Ng's j loyed persons (v recast of the Eco	ed on the "Hong population proje vith number of u nomic Research	Kong Populati ction. nemployed pe Analysis Ltd (E	ion Projection 2 ersons being exc iRA) but deducti	2,866.3 012-2041" b luded from ed by 1% wh	2,897.2 by Census and the working hile the rates	271.0 d Statistics Depart population) to tot from 2017 to 206	ment with adjus al population of	tment made by Dr Lio 15-64 years is assume	ous F.K. Ng of th	e University of He	ong Kong. The	figures
А, В	The population figures from 2042 to 2060 The projected percent	ures from 2012 are also derive entage of empl ased on the for rate in 2017: \$	rs to 2041 are bass d from Dr. Ng's j loyed persons (v ecast of the Eco 4,000. Rate adju	ed on the "Hong population proje vith number of u nomic Research isted every year	Kong Populati ction. nemployed pe Analysis Ltd (E according to th	ion Projection 2 ersons being exc :RA) but deduct he pervious yea	2,866.3 012-2041" b luded from ed by 1% wh	2,897.2 ny Census and the working nile the rates	271.0 d Statistics Depart population) to tot from 2017 to 206	ment with adjus al population of	tment made by Dr Lio 15-64 years is assume	ous F.K. Ng of th	e University of He	ong Kong. The	figures
А, В С	The population figu from 2042 to 2060 The projected perc 2012 to 2016 are bo Suggested pension e.g. Suggested pen	ures from 2012 are also derive entage of empl ased on the for rate in 2017: \$ sion rate in 201 on subscriptior	to 2041 are basi d from Dr. Ng's j loyed persons (v ecast of the Eco 4,000. Rate adju 18 is \$4,124 = \$4 in 2017 is base	ed on the "Hong population proje vith number of u nomic Research isted every year ,000 X 103.1% (2 d on the monthly	Kong Populati ction. nemployed pe Analysis Ltd (E according to th 2017 forecaste cemployment	ion Projection 2 ersons being exc (RA) but deduct he pervious yea ed Comp CPI infl earnings of indi	2,866.3 012-2041" b luded from ed by 1% wh r's Comp CPI ation rate is ividual empl	2,897.2 ny Census and the working hile the rates I Inflation rat 3.1%) oyees with \$	271.0 d Statistics Depart population) to tot from 2017 to 206 te	ment with adjus al population of 0 are deducted l	tment made by Dr Lio 15-64 years is assume	ed unchanged a	e University of Ho	ong Kong. The umployment r	figures rates from
	The population figu from 2042 to 2060 The projected perc 2012 to 2016 are bo Suggested pension e.g. Suggested pen Projection of pensi according to numb	ures from 2012 are also derive entage of empl ased on the for rate in 2017: \$ sion rate in 2017 on subscription er of employed required to inj	to 2041 are bass d from Dr. Ng's J loyed persons (v ecast of the Eco 4,000. Rate adju 18 is \$4,124 = \$4 in 2017 is base J persons and Co ect \$50 billion ir	ed on the "Hong population proje with number of u nomic Research sted every year ,000 X 103.1% (2 d on the monthly omp CPI inflation n 2017 and then	Kong Populati ction. nemployed pe Analysis Ltd (E according to th 2017 forecaste vemployment rates. Meanw \$25 billion at 2	ion Projection 2 ersons being exc RA) but deduct he pervious yea ed Comp CPI infl earnings of indi vhile, real wage 2012 constant p	2,866.3 012-2041" b luded from ed by 1% wh e's Comp CPI ation rate is ividual empl s assumed a	2,897.2 ny Census and the working hile the rates I Inflation rat 3.1%) oyees with \$ n increase of	271.0 d Statistics Depart population) to tot from 2017 to 206 te 6,500 and \$80,000 f 1% per annum.	ment with adjus al population of 0 are deducted l 0 as lower and u	tment made by Dr Lio 15-64 years is assume by 0.5%.	ed unchanged a	e University of Ho t 2011 level. The 12 to 2060, proje	ong Kong. The umployment r ctions adjuste	figures rates from d
А, В С	The population figures from 2042 to 2060 The projected percession of the projected percession of the projected percession e.g. Suggested pension e.g. Suggested pension of pensis according to numb The Government is as the accumulative set th	ures from 2012 are also derive entage of empl ased on the for rate in 2017: \$ sion rate in 201 on subscriptior er of employed required to inj e surplus is enco	to 2041 are bass d from Dr. Ng's J loyed persons (v ecast of the Eco 4,000. Rate adju 18 is \$4,124 = \$4 h in 2017 is basee J persons and Co ect \$50 billion ir nugh to cover the I elders remains	ed on the "Hong population proje with number of u nomic Research usted every year 2000 X 103.1% (2 d on the monthly popp CPI inflation n 2017 and then e projected defic unchanged at 20	Kong Populati ction. nemployed pe Analysis Ltd (E 2017 forecaste y employment rates. Meanw \$25 billion at 2 it in the comir D10 level, i.e. 1	ion Projection 2 ersons being exc RA) but deduct he pervious yea ed Comp CPI infl earnings of indi vhile, real wage 2012 constant p ng 20 years. 18.06%, which si	2,866.3 012-2041" b luded from ed by 1% wh r's Comp CPI ation rate is ividual empl s assumed a rice every fit	2,897.2 by Census and the working hile the rates I Inflation rat 3.1%) oyees with \$ n increase of ve years, i.e.?	271.0 d Statistics Depart population) to tot from 2017 to 206 te i6,500 and \$80,000 i 1% per annum. \$29.1 billion in 20. ojection to govern	ment with adjus al population of 0 are deducted 0 as lower and u 22. It will be app	tment made by Dr Lio 15-64 years is assume by 0.5%. pper threshold respec	ed unchanged a ctively. From 20	e University of Ho t 2011 level. The 12 to 2060, proje the lum sum inje	ong Kong. The umployment r ctions adjuste	figures rates from d

T						=A*D*12				=F+G+H		=(H+J)/L	=l+J	=L-E	
Year	Elderly 65+ Years	% of yearly change	Total Population (15-64 Years)	Employed Persons (15-64 Years)	Suggested Monthly Pension Rate	Annual Pension Payment	on on	Pension subscriptio n on Employers (2.5%)	Pension subscription on Government	Total Pension Subscription	CSSA and OALA to Elders 65+	Total Gov't	Total Tripartite Contribution	Yearly Surplus/ Deficit	Accumulati e Surplus
	(,000)		(,000)	(,000)	(\$)	(\$ billions)	(\$ billions)	(\$ billions)	(\$ billions)	(\$ billions)	(\$ billions)		(\$ billions)	(\$ billions)	(\$ billions)
Actual / Prc	ovisional (exclud	ling Foreign D	Domestic Help	pers)	•										
	65+:	Unemploy%		Labor Force:	CPI(%):										
2010	<i>918.3</i>	4.6%	4,982.8	3,364.8	2.4%										
2011	941.1	3.7%	5,052.6	3,407.4	5.3%										
2012	979.9	3.5%	5,053.6	3,453.8	4.1%										
2013		5.1%			4.3%										
2014		4.6%			4.0%										
2015		4.1%			4.6%										
2016		3.6%			4.2%										
2017 - 21		4.5%			3.1%										
2022 - 26		4.5%			3.9%										
2027 - 31		4.5%			4.3%										
2032+		4.5%			3.5%										
Ref. i	Women&Men in HK, Table 1.1A, 4.24A	Table 4.30A	Table 1.1A		HK Statistic	s Table 052									
(GHS 2010Q2	Tables 1.1, 5.1 & A1.1			Fin. Sec. For	recast									
			ERA forecasts forecasts - 0.5		ERA forecas	its									
Up to 2036	43,864.2		131,976.3	· ·		2,631.4			157.9	,	1,274.6		2,840.2		
Up to 206(106,790.8		242,289.0	157,896.4		12,224.8	2,866.3	2,897.2	271.0	6,034.4	5,825.2		11,859.7		

2012	65	15	64	3,000.0	2.5%	2.5%	50.00	65	4.9%	
Based on 2011102	6_OAP_Annex_C_D_eng_2	2								

Annex D : CSSA and OAA (Estimation)

Year	Elderly 65+ Years CSSA rate		' CSSA rate (Inflation		Total allowance (Inflation adjusted)	Total Government Expenditure (D + F)
			18.06%		48 to 49%	
			Elderly 65+		Elderly 65+	
	(,000)	(\$)	(\$ billions)	(\$/\$ billions)	(\$ billions)	(\$ billions)
2011						
2012						
2013	1,026.8	2,935	6.5	12.9	13.4	20.0
2014	1,063.3	3,055	7.0	13.5	14.7	21.7
2015	1,115.1	3,177	7.7	14.3	16.1	23.8
2016	1,164.5	3,323	8.4	14.8	17.5	25.9
2017	1,214.4	3,463	9.1	15.6	19.2	28.3
2018	1,265.2	3,570	9.8	16.4	20.8	30.6
2019	1,323.1	3,681	10.6	16.9	22.1	32.7
2020	1,384.1	3,795	11.4	17.7	23.9	35.3
2021	1,450.5	3,913	12.3	18.5	25.7	38.0
2022	1,520.3	4,034	13.3	19.5	28.0	41.2
2023	1,594.1	4,191	14.5	20.3	30.2	44.7
2024	1,667.9	4,355	15.7	21.4	33.1	48.9
2025	1,742.9	4,525	17.1	22.2	35.7	52.8
2026	1,815.9	4,701	18.5	23.2	38.8	57.3
2027	1,884.1	4,884	19.9	24.0	41.7	61.6
2028	1,964.4	5,094	21.7	25.1	45.4	67.1
2029	2,036.7	5,314	23.5	26.1	49.3	72.7
2030	2,102.2	5,542	25.2	26.9	53.0	78.2
2031	2,159.4	5,780	27.1	27.7	56.9	84.0
2032	2,208.5	6,029	28.9	28.2	60.4	89.3
2033	2,258.6	6,240	30.5	29.0	64.3	94.9
2034	2,307.9	6,458	32.3	29.6	67.9	100.2
2035	2,354.6	6,684	34.1	30.1	71.5	105.6
2036	2,400.1	6,918	36.0	30.6	75.2	111.2
2037	2,438.3	7,160	37.8	31.2	79.4	117.2
2038	2,477.4	7,411	39.8	31.7	83.5	123.3
2039	2,510.8	7,670	41.7	32.2	87.8	129.5
2040	2,539.3	7,939	43.7	32.5	91.7	135.4
2041	2,557.6	8,217	45.5	32.7	95.5	141.0
2042	2,574.8	8,504	47.5		100.0	147.4
2043	2,589.0	8,802	49.4		103.0	152.4

Year	SSA and OAA (Estimation) Elderly 65+ Years		Total allowance (Inflation adjusted)	Old Age Living Allowance rate	Total allowance (Inflation adjusted)	Total Government Expenditure (D + F)
			18.06%		48 to 49%	
			Elderly 65+		Elderly 65+	
	(,000)	(\$)	(\$ billions)	(\$/\$ billions)	(\$ billions)	(\$ billions)
2044	2,602.9	9,110	51.4		106.6	158.0
2045	2,616.9	9,429	53.5		110.2	163.7
2046	2,629.7	9,759	55.6		114.0	169.6
2047	2,640.6	10,100	57.8		118.0	175.8
2048	2,652.1	10,454	60.1		122.1	182.2
2049		10,820	62.3		126.3	188.6
2050	2,664.9	11,199	64.7		130.7	195.4
2051	2,669.1	11,591	67.0		135.0	202.1
2052		11,996	69.4		139.7	209.1
2053		12,416	71.9		144.5	216.4
2054	1	12,851	74.5		149.3	223.9
2055		13,300	77.2		154.7	231.9
2056		13,766	80.0		160.3	240.3
2057	2,681.7	14,248	82.8		165.7	248.5
2058		14,746	85.7		171.5	257.2
2059		15,263	88.7		177.4	266.1
2060	2,681.8	15,797	91.8		183.6	275.4

Annex D : CSSA and OAA (Estimation)

Remarks

1. Proportion of the total number of elderly receiving CSSAat age 65 or above (2009-2010):

= (88% * 187,128) / 911,690 = 18.06%

2. Proportion of the total number of elderly receiving Old Age Living Allowance (OALA) is anticipated to be similar to the current portion of OAA recipients (ordinary rate), OAA recipients (higher rate; a portion only) and Normal Disability Allowance (a portion only) out of the total elderly population, i.e. around 48 to 49% from 2013 to 2041.

3. Rate of CSSA in 2015 and after: adjusted every year according to the pervious year's Comp CPI Inflation rate

4. Total expenditure of OALA from 2013 to 2041 are based on official figures mentioned in "Supplementary information on the responses of the questions raised by some Members of the Legislative Council for the Old Age Living Allowance" [FC47/12-13(01), para.28; Chinese only)]; adjusted every year according to the pervious year's Comp CPI Inflation rate. Number of OALA recipients are adjusted according to changes of elderly population aged 65+ on a yearly basis

Sources

http://www.info.gov.hk/gia/general/200907/08/P200907080142.htm http://gia.info.gov.hk/general/200907/08/P200907080142_0142_54340.doc