Population, Intergenerational Transfers and Macroeconomy: "Demographic Dividends"

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The First Demographic Dividend

- Change in the economic support ratio or the first demographic dividend is influenced by the economic lifecycle
- The economic lifecycle begins and ends with the dependency periods when consumption exceeds earnings (lifecycle deficit), requiring economic flows from working-age adults (the lifecycle surplus ages) to close the gap.

















The Second Demographic Dividend

- Definition: The growth in productivity induced by an increase in the demand for lifecycle wealth.
- Compositional effect: population is concentrated at older, high wealth ages
- Behavioral effect: increase in duration of life and retirement lead to greater accumulation of wealth









Effects of demographic changes on economic growth (1970-2000)					
	Demographic Dividends			Actual	Actual
	First	Second	Total	growth in GDP/N	Dividend
China	0.78	0.70	1.49	7.14	5.65
India	0.27	0.85	1.12	2.66	1.54
Indonesia	0.50	0.72	1.22	4.26	3.04
Iran	0.42	0.34	0.76	-0.36	-1.12
Japan	0.21	1.51	1.72	2.61	0.89
Korea	0.98	1.25	2.22	6.03	3.81
Mongolia	0.48	0.09	0.56	1.72	1.15
Philippine	0.48	0.43	0.91	1.11	0.20
Singapore	1.15	1.08	2.23	5.66	3.43
Thailand	0.99	0.35	1.34	4.61	3.27
Vietnam	0.40	0.09	0.49	4.45	3.96
Notes: based on method by Mason (2005)					

Lessons Learned and Policy Responses

- Demographic changes that brought to economic growth in Thailand and several countries in Asia are approaching the end of the first dividend period
- However, the role of demographic transition on economic growth remains important
- Declining fertility and population aging could lead to higher economic growth if there are policies that
 - Encourage capital accumulation during working ages to support retirement consumption
 - Stimulate human capital investment so as to raise productivity of the future labor force