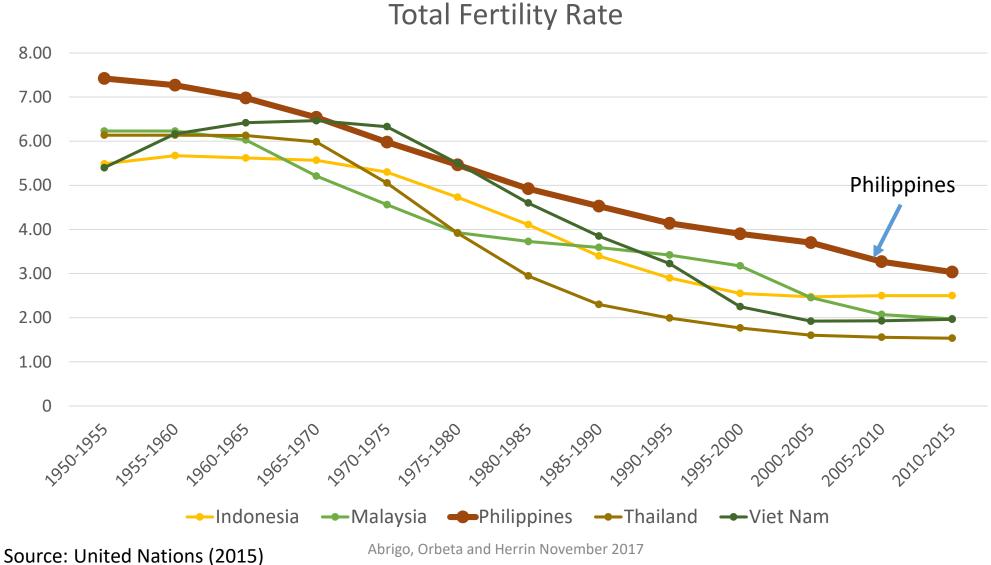
Economic Gains from a More Vigorous Implementation of the RPRH Law

Michael R.M. Abrigo, Aniceto C. Orbeta and Alejandro N. Herrin 12th Global Meeting of the National Transfer Accounts Network 23-27 July 2018

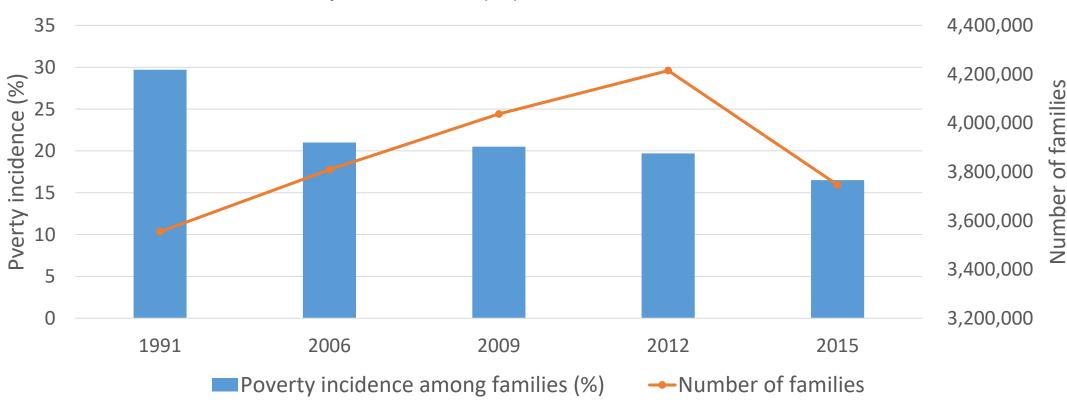
1. Some basic indicators

Progress in RPRH indicators: Total Fertility Rate



Poverty incidence among families (percent)

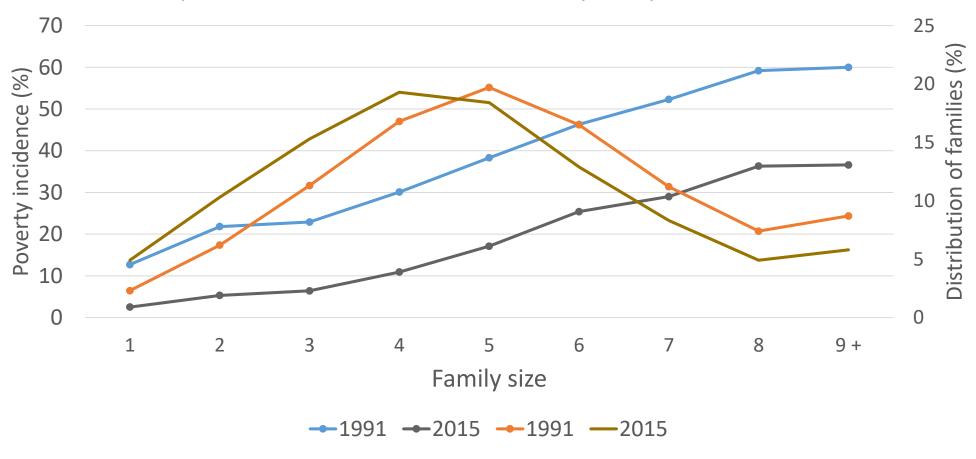




Source: Philippine Statistics Authority (2016). Official Poverty Statistics of the Philippines: Full Year 2015.

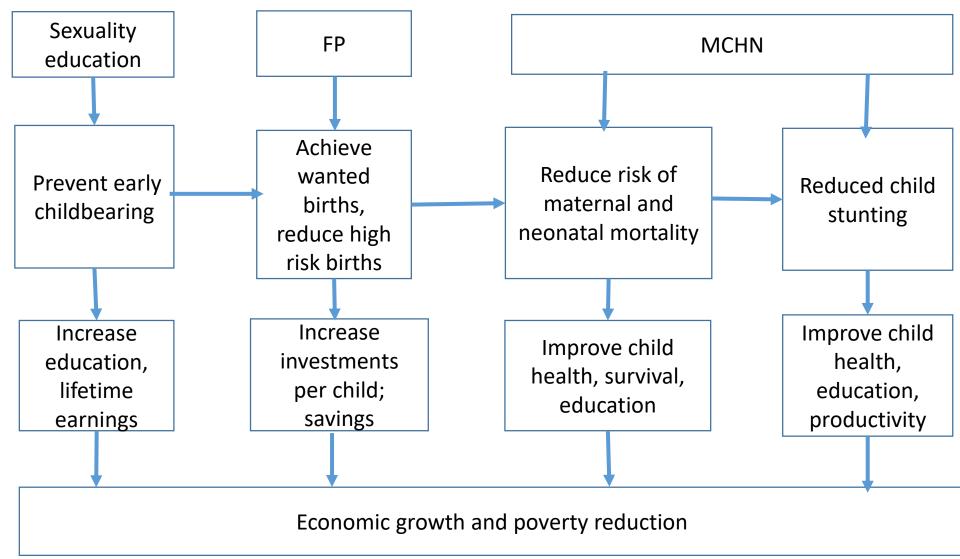
Poverty incidence and distribution of families by family size: 1991 and 2015

Poverty Incidence and Distribution of Families by Family Size, 1991 and 2015



2. Economic gains from RPRH implementation: Key pathways

Economic gains from RPRH implementation: Key pathways



3. Estimating economic gains: RPRH principles and national policy goals, National Transfer Accounts (NTA) framework, and demographic dividends

3a. RPRH principles and national policy goals

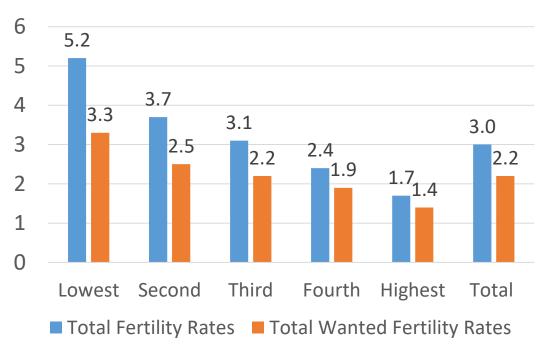
Guiding principles of RPRH implementation

- "The State shall promote programs that enable individuals and couples to have the number and children they desire..." (Sec. 3, (f)). "Each family shall have the right to determine its ideal family size" (Sec. 3, (k))
- "There shall be no demographic or population targets..." (Sec. 3, (I))
- "The provision of reproductive health care, information and supplies giving priority to poor beneficiaries as identified through the NHTS-PR and other measures of identifying marginalization must be the primary responsibility of the national government..." (Sec. 3, (g))

Achieving policy goals: Alternative scenarios

- Achieve wanted total fertility rate of 2.2 births per woman by 2022 (EO No. 12) and total fertility rate of 2.1 births per woman by 2025 (PDP 2017-2022)
- Delayed achievement of wanted total fertility rate of 2.2 per woman by 2032 and replacement fertility by 2035
- Focus RPRH implementation on poor families



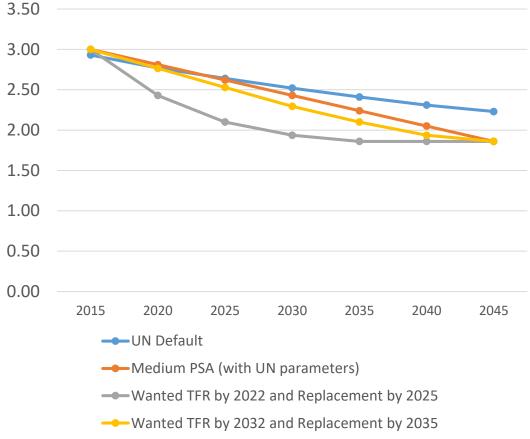


Achieving policy goals: Alternative scenarios

Total Fertility Rate Assumptions

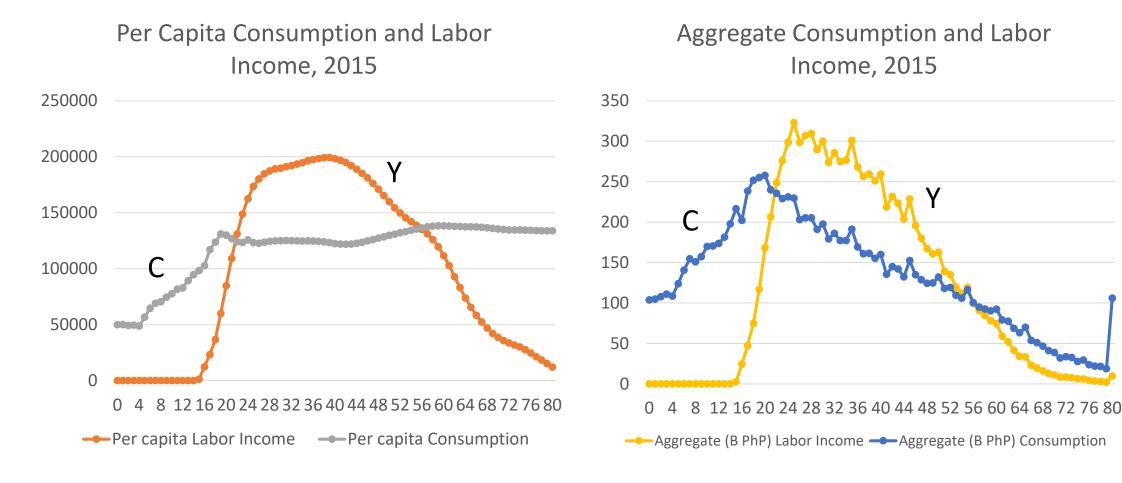
Total Fertilley Nate Assumptions							
			Wanted TFR by	Wanted TFR			
		Medium PSA	2022 and	by 2032 and			
		(with UN	Replacement	Replacement			
	UN Default	parameters)	by 2025	by 2035			
2015	2.93	3.00	3.00	3.00			
2020	2.77	2.81	2.43	2.76			
2025	2.64	2.62	2.10	2.53			
2030	2.52	2.43	1.94	2.29			
2035	2.41	2.24	1.86	2.10			
2040	2.31	2.05	1.86	1.94			
2045	2.23	1.86	1.86	1.86			

Total Fertility Rate (births per woman)



3b. National Transfer Accounts Framework

Economic life cycle: Consumption (C) and labor income (Y), Philippines 2015



Effect of age structure on economic growth

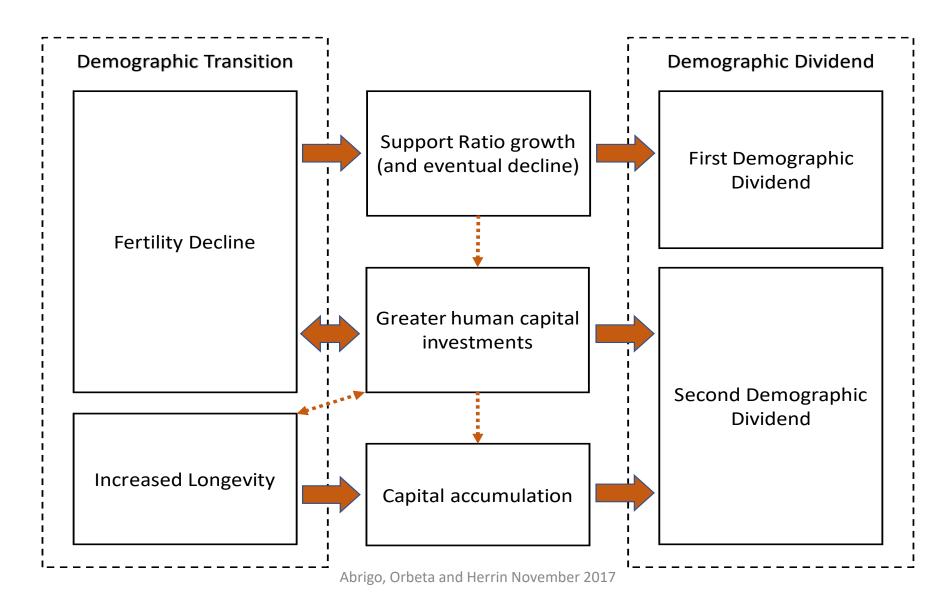
$$\frac{C(t)}{N(t)} = \left[\left(1 - s(t) \right) \frac{Y(t)}{L(t)} \right] \cdot \left[\frac{L(t)}{N(t)} \right]$$

Aggregate consumption per effective consumer depends on labor productivity as affected by different factors, and the support ratio, the ratio of effective workers to effective consumers, which captures the effect of changing age structure on the economy.

In terms of growth rates:

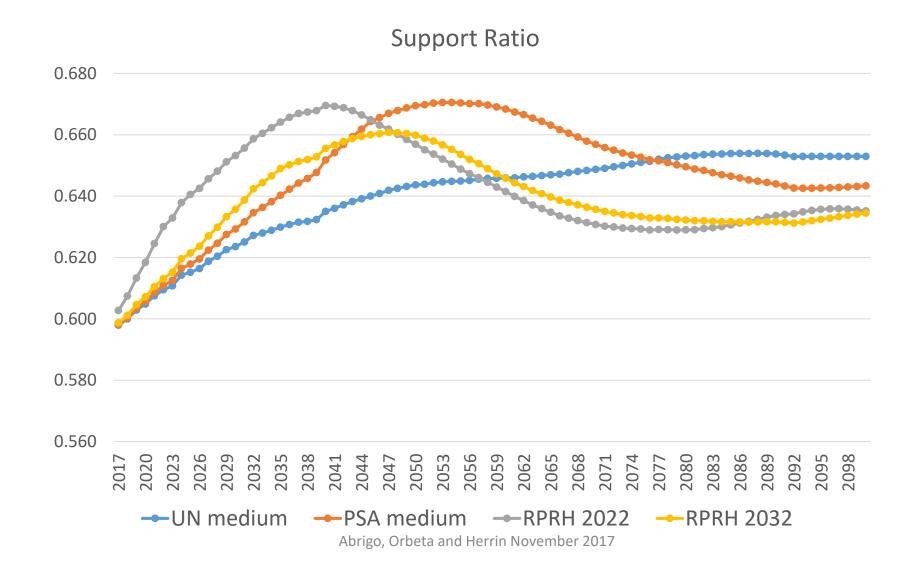
$$g\left[\frac{C(t)}{N(t)}\right] = g\left[\left(1 - s(t)\right)\frac{Y(t)}{L(t)}\right] + g\left[\frac{L(t)}{N(t)}\right]$$

Demographic transition and demographic dividend

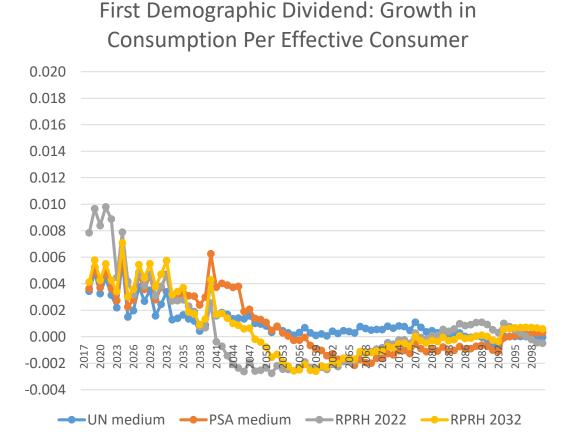


3c: Estimates of economic gain: Demographic dividends and poverty impact

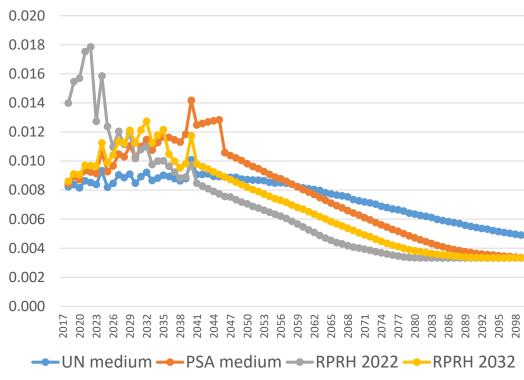
Support ratio: Effective workers per effective consumers



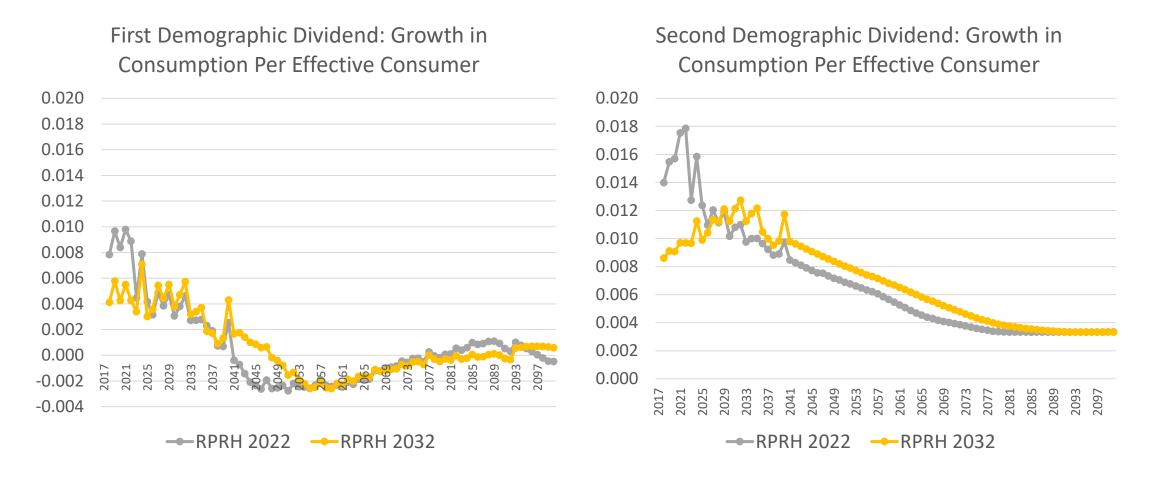
First and second demographic dividends



Second Demographic Dividend: Growth in Consumption Per Effective Consumer

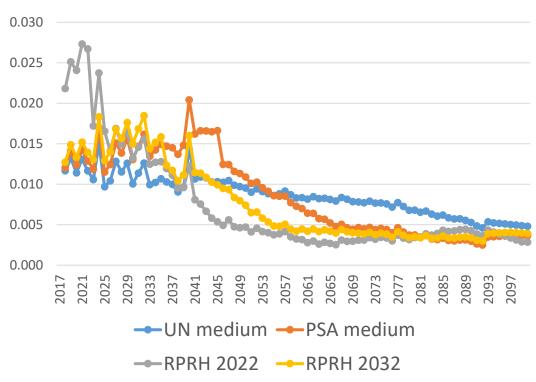


First and second demographic dividends

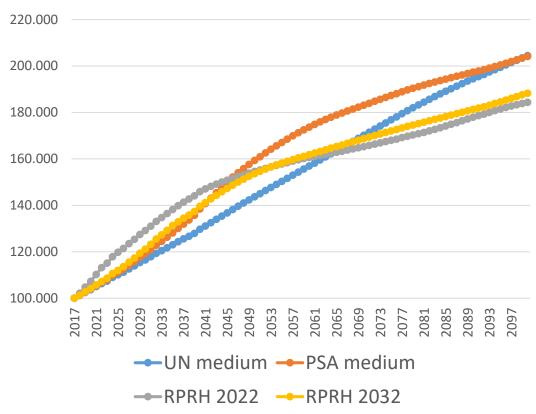


Total demographic dividend



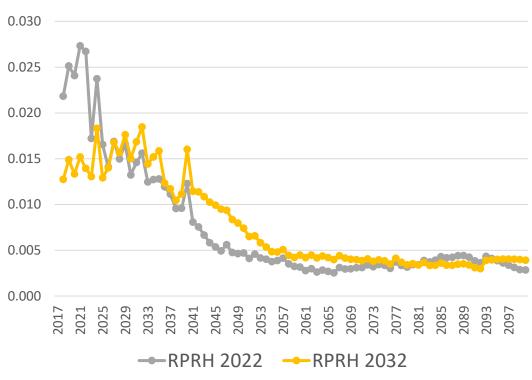


Demographic Dividend Index (2017=100)

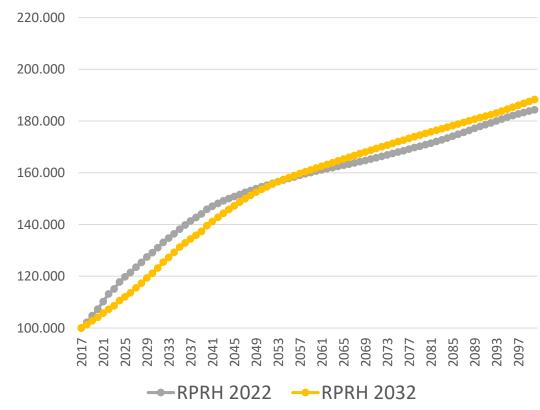


Total demographic dividend





Demographic Dividend Index (2017=100)



Present value of demographic dividend and gain from early transition

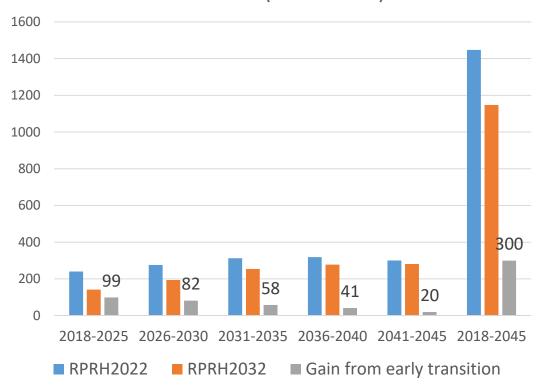
Present Value of Projected Demographic Dividend

(2017 billion USD discounted at 5 percent per annum)

(==== time: o== alebeatical are person per armain)						
	UN-medium	PSA-medium	RPRH2022	RPRH2032		
2018-2025	120.4	131.3	240.4	141.4		
2026-2030	152.7	175.4	275.6	193.9		
2031-2035	187.1	226.4	312.3	253.9		
2036-2040	202.3	259.1	318.5	277.5		
2041-2045	209.8	283.8	300.5	280.9		
2018-2045	872.5	1076.0	1447.3	1147.7		

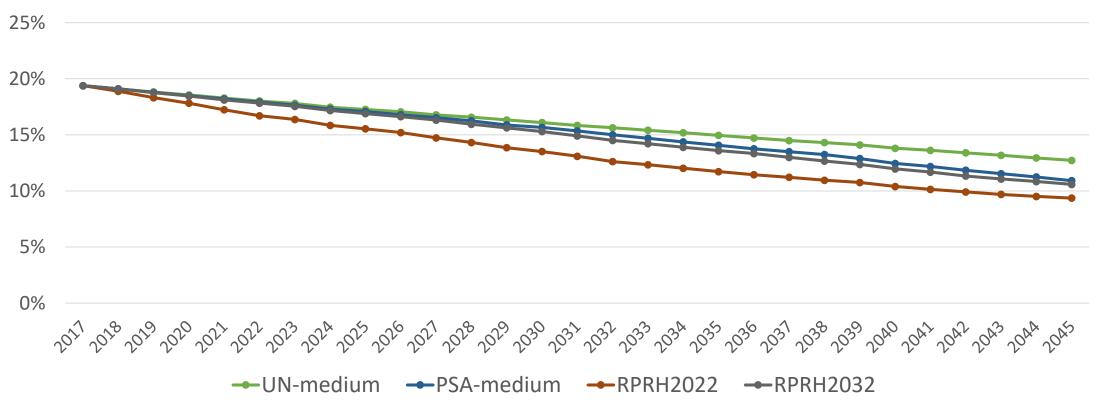
Source: Authors calculation

Present Value of Gain from Early Fertility Transition (Billion USD)



Poverty impact of demographic dividend

Poverty incidence (%) under alternative scenarios of economic gains from demographic dividends



Estimates using Balisacan and Pernia (2001) growth elasticity of poor household income

4. Some operational considerations

Operational considerations

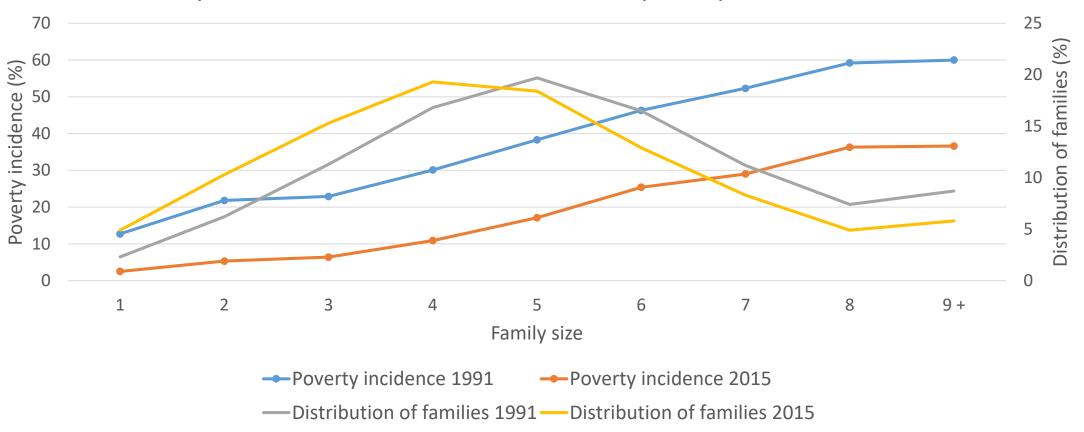
- Design of strategy → implementation/delivery?
- Implementation at scale; do effects of specific interventions, by specific groups, in specific areas add up to achieve policy goals?
- Implementation by LGUs: Need for coordination. Is RPRH law sufficient to generate national-LGU and inter-LGU cooperation?
- Implementation by contracting FP (and MNCHN) services to serve identified beneficiaries, e.g., NHTS families

Mabuhay

Annex: The effect of an additional child on human capital of children, labor supply of parents, and family savings

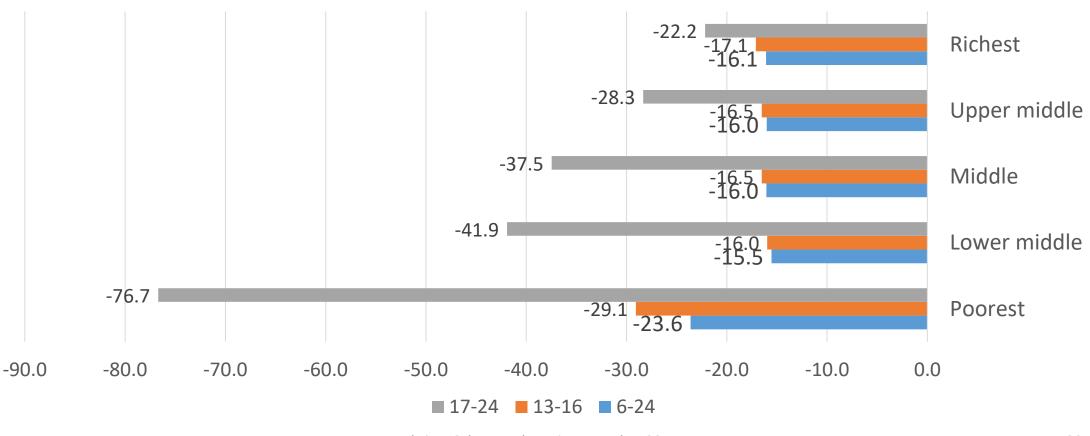
Poverty incidence and distribution of families by family size, 1991 and 2015

Poverty Incidence and Distribution of Families by Family Size, 1991 and 2015



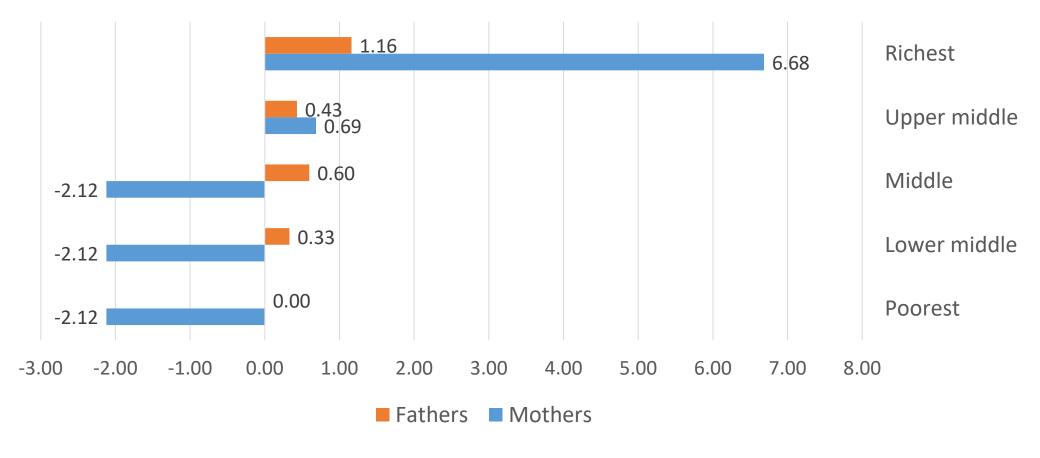
Impact of an additional child on school enrollment by income quintile

Impact of an additional child on school enrollment (%)



Impact of additional child on labor supply of parents

Impact of an additional child on the labor force participation of parents (%)



Impact of an additional child on family savings

