SPRING SERIES ON DEMOGRAPHY

SESSION 3: THE DEMOGRAPHIC DIVIDEND

MAY 4, 2022 POPULATION CONNECTION

POPULATION & ENVIRONMENT



Data sources: Our World in Data based on HYDE, UN, and UN Population Division [2019 Revision] This is a visualization from OurWorldinData.org, where you find data and research on how the world is changing.

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Annual total CO, emissions, by world region



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Note: Chart shows growth in per capita emissions, by emissions percentile Source: World Inequality Lab



THE DEMOGRAPHIC TRANSITION



The demographic transition is really a set of transitions



health & mortality transition fertility transition age transition migration transition urban transition family and household transition

fertility transition

Average number of children vs child mortality, 2019 Child mortality measures the share of children that die before their fifth birthday.



Source: UN Population Division (2019 Revision)

OurWorldInData.org/fertility-rate • CC BY

Our World in Data

Fertility and female labor force participation

The labor force participation rate corresponds to the proportion of the population ages 15 and older that is economically active. Fertility corresponds to the number of children that would be born to a woman if she were to live to the end of her childbearing years and bear children in accordance with the age-specific fertility rates of the specific year.



Our World in Data

Source: International Labour Organization (via World Bank), United Nations – Population Division (2019 Revision) OurWorldInData.org/female-labor-force-participation-key-facts • CC BY

shift from high fertility to low fertility

age transition





decline in mortality, then decline in fertility



Schematic representation of the demographic transition

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Source: Calculations by the United Nations (2019).

Notes: (1) The crude birth (or death) rate is the annual number of live births (or deaths) divided by the population size at the midpoint of the observation period. Both rates are expressed as the number of births or deaths per 1,000 population per year. (2) The schematic representation of the demographic transition refers to a population that is closed to migration, in which growth is due entirely to the gap between births and deaths.

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Population age distribution: Schematic representation before and after the demographic transition, and as observed for the world in 2020



Source: Calculations by the United Nations (2019).

	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	
Birth rate	High	High	Falling	Low	Yet to be seen (Possibly falling further, possibly rising again)	
Death rate	High	Falls rapidly	Falls more slowly	Low	Low	
Natural increase	Stable or slow increase	Rapid increase	Increase slows down	Falling and then stable	Little change	
Population Pyramid						
	Men Women	Men Women	Men Women	Men Women	Men Women	
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Changing Age Structure of Thai Population

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Calculated from population census, 1970, 1990 and 2010 and population projection for Thailand, 2010-2040, NESDB



Figure 2 Source: https://so03.tci-thaijo.org/index.php/jpss/article/view/119341











THE DEMOGRAPHIC DIVIDEND