

Bixby Center for Population, Health & Sustainability

Natural Resources









Population Growth, Climate Change, and Sustainable Development in Africa: The Case of the Sahel

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POPULATION DYNAMICS, CLIMATE CHANGE, AND SUSTAINABLE DEVELOPMENT IN AFRICA

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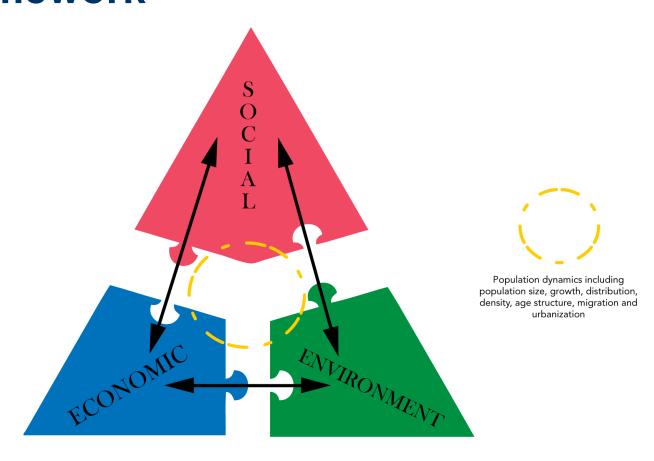
Sustainable Development



"Development that meets the needs of the present without compromising the ability of future generations to meet their own needs"

Population dynamics within sustainable development framework

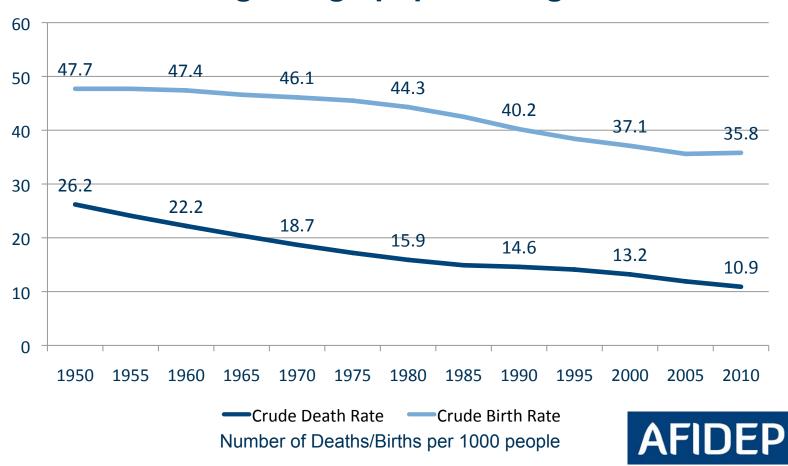








The big gap between birth and death rates has persisted in Africa, resulting in high population growth rates

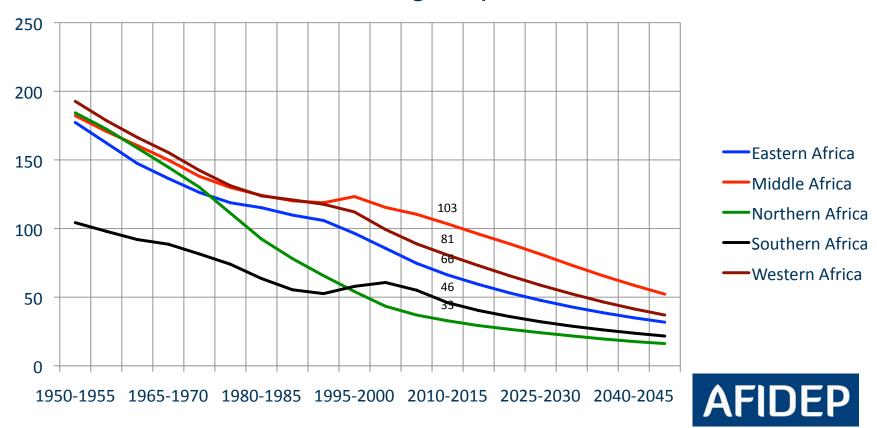


Source: United Nations Population Division



Child mortality rates have steadily declined in Africa since the 1960s

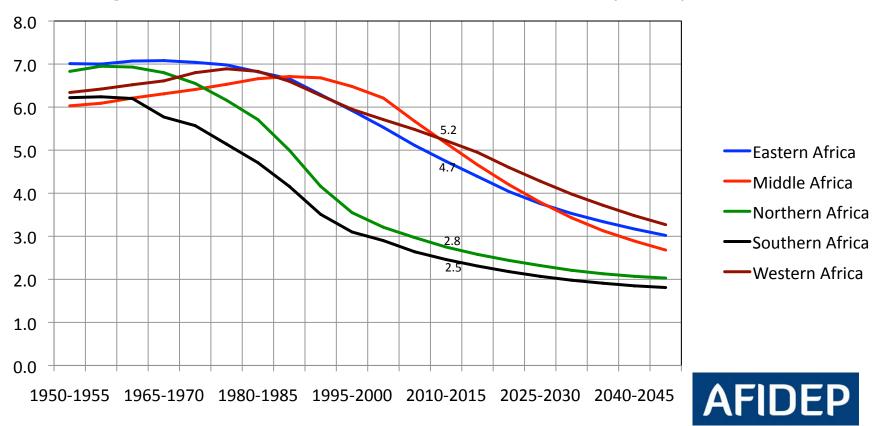
Number of Deaths before Age 1 per 1000 births





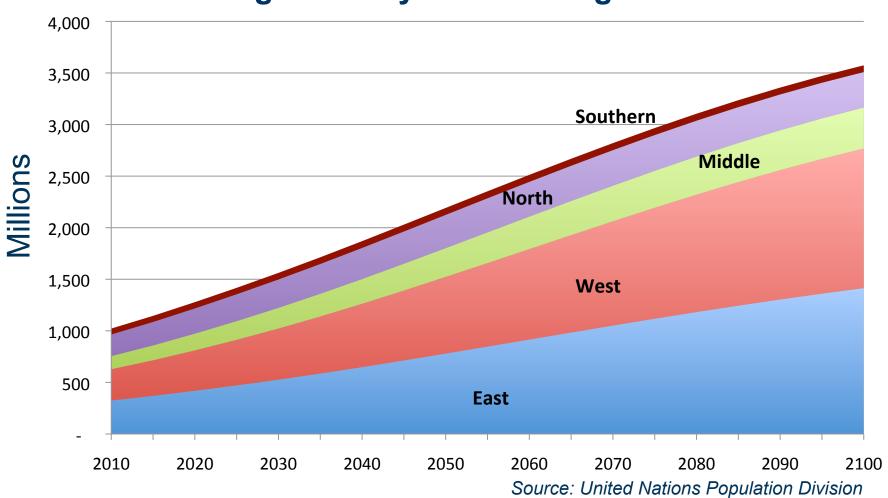
Fertility Rates have declined slowly in East, West and Middle Africa

Average Number of Children per Woman (TFR)



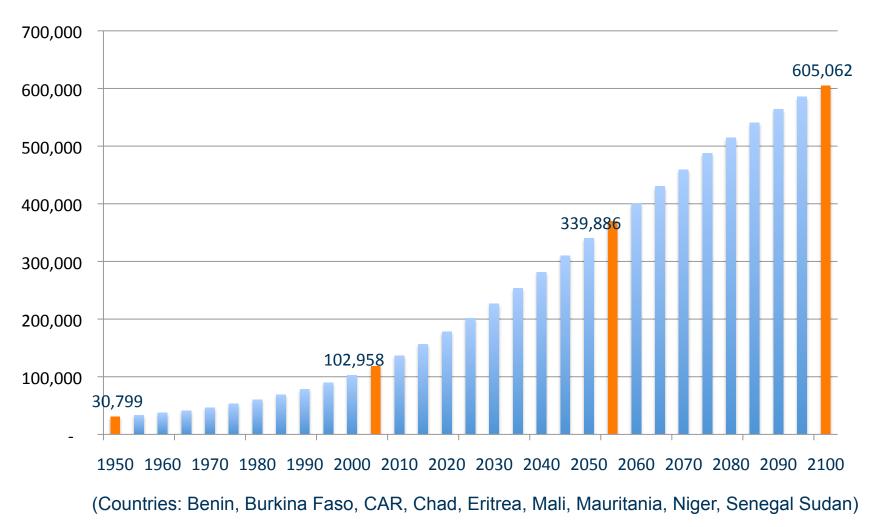


Population growth will mostly be driven by East and West Africa due to High Fertility in these Regions



Past & Projected Population Growth in the Sahel ('000)



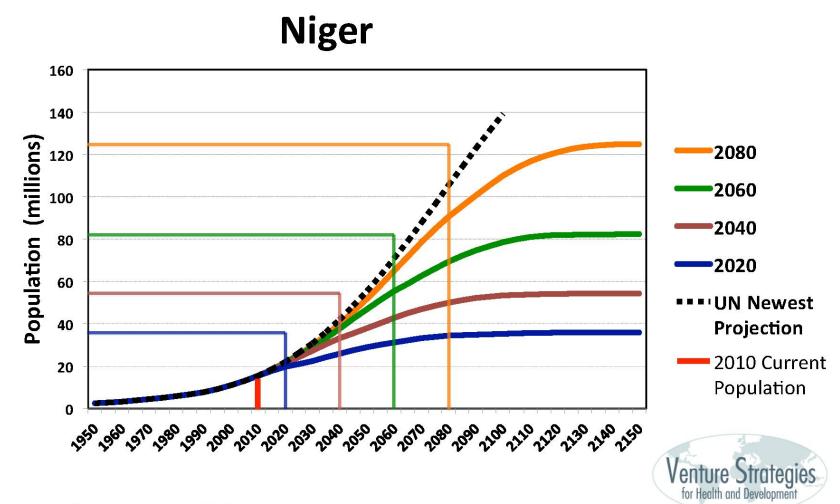


Source: United Nations Population Division

Past and Projected Population Growth in Sahel Countries

Country	1950	2010	2050	2100
Benin	2.3	8.9	21.7	36.8
Burkina Faso	4.3	16.5	46.7	96.4
Mali	4.6	15.4	42.1	80.5
Mauritania	0.7	3.5	7.1	10.4
CAR	1.3	4.4	8.4	11.0
Chad	2.4	11.2	27.3	43.6
Niger	2.5	15.5	55.4	139.2
Senegal	2.4	12.4	28.6	44.1
Sudan	9.2	43.6	91.0	127.6
Eritria	1.1	5.3	11.6	15.5

Source: United Nations Population Division

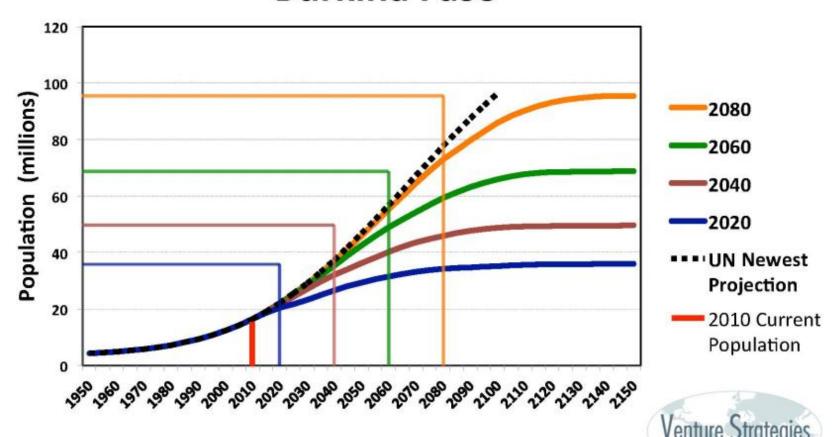


Total fertility rate: 7.4

Unmet need for family planning: 16%



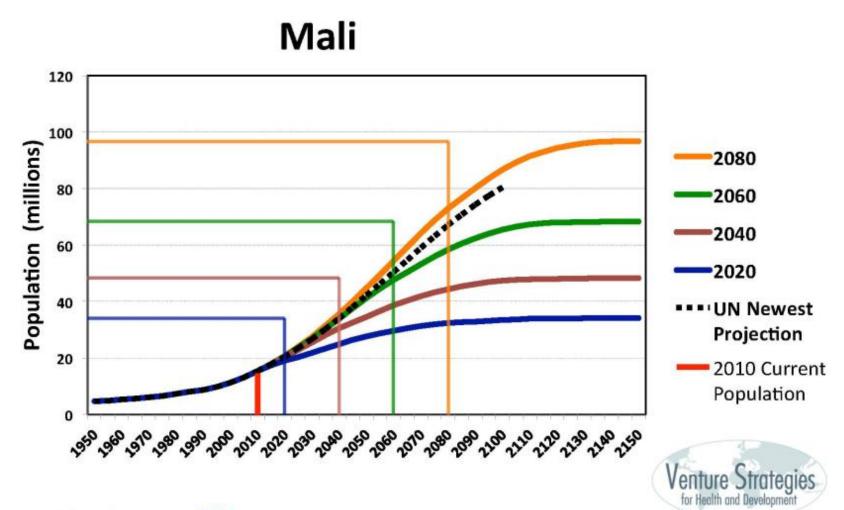
Burkina Faso



Total fertility rate: 6.0

Unmet need for family planning: 29%

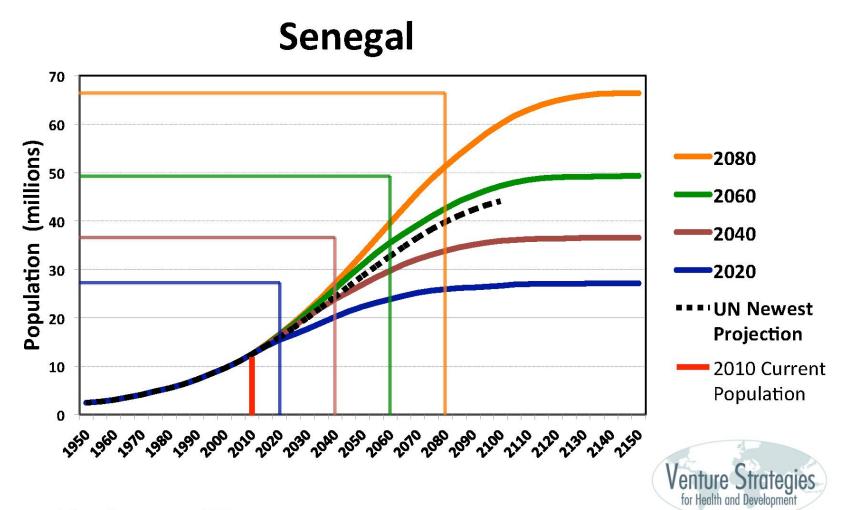




Total fertility rate: 6.6

Unmet need for family planning: 29%





Total fertility rate: 4.9

Unmet need for family planning: 31%



Effects of Rapid Population Growth



High child dependency ratios

Poor health and wellbeing outcomes for mothers and children

Depletion of natural resources such as forests

Fragmentation and overuse of agricultural land

Limited resources to invest in human capital development (education and health)

Undermines poverty alleviation efforts

Key Climate Change Effects

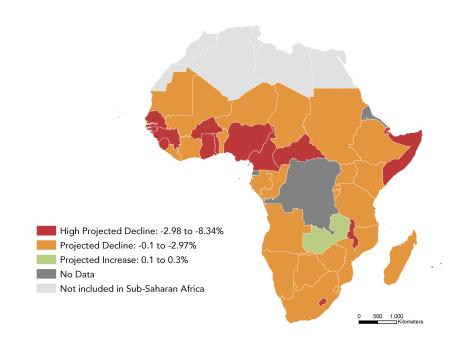


- Increased water scarcity
- Recurring flooding
- Recurring droughts
- Unpredictable start of rainfall
- Short rains & prolonged dry spells during rainy season
- Drying up of rivers and lakes
- Low fish supplies
- Excessive temperatures (heat waves)
- Landslides
- Frequent bush fires
- Increased prevalence of water borne diseases
- Low and unstable hydro-electric production



Pop Growth, Climate & Agricultural production





PROJECTED POPULATION BY CATEGORY

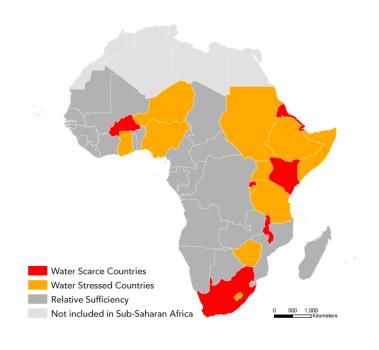




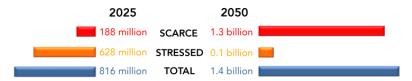


Population growth and water stress and scarcity





PROJECTED POPULATION LIVING IN WATER STRESSED OR SCARCE COUNTRIES





Population growth and climate change resilience

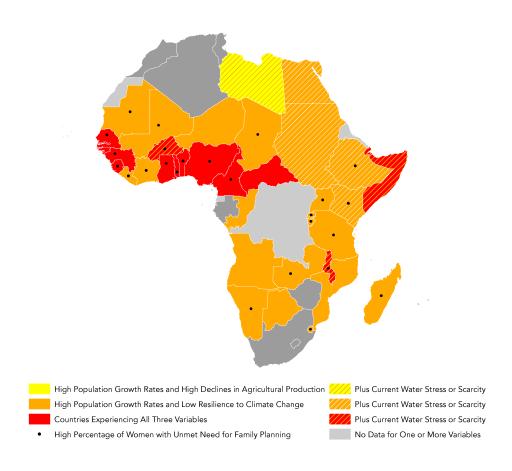




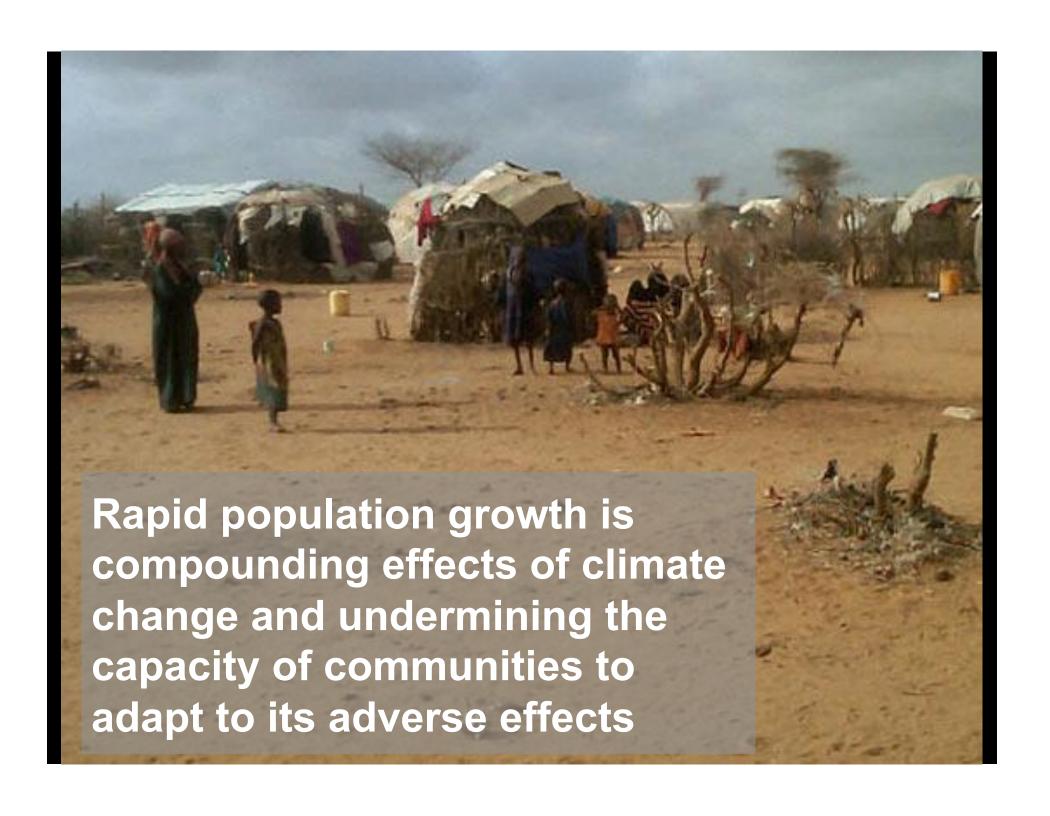


Population growth and climate change hotspots









How well are population policies and programs IN AFRICA REACTING TO AND ADDRESSING THESE LINKED CHALLENGES?



POPULATION DYNAMICS, CLIMATE CHANGE, AND SUSTAINABLE DEVELOPMENT IN MALAWI

Report for the Launch and Consultative Meeting with Stakeholders, 13th September 2012, Lilongwe, Malawi

> Eliya Zulu, James Ciera, Nyokabi Musila, Eunice William (African Institute for Development Policy, Nairobi, Kenya)

> Clive Mutunga and Roger-Mark De Souza (Population Action International, Washington D.C., USA)

> > September 2012





Policy Environment Assessments



- Rapid population growth cited as one of the main barriers to economic development and environmental preservation in virtually all population policies, economic plans, and environmental policies in Kenya and Malawi
 - But limited political leadership and financial resources to family planning and other population programs
- Climate Change increasingly becoming a priority issue policies being developed, and Ministry of Environment and Climate Change Management set up in Malawi
 - Climate change sectors recognizing key role of population growth, but leave family planning promotion and provision to the Ministry of Health



Policy Environment Assessments



 There is limited integration of population dynamics and climate change issues at policy and programme levels, with activities in each area being implemented in silos



Key Barriers to Integrated Approaches



- 1. Weak political will to prioritize population issues and climate change, especially the population side
- 2. Fragmentation of population and climate change policies
- 3. Weak coordination of programs addressing the two issues



Key Barriers to Integrated Approaches



4. Limited local and international financial resources

- 5. Weak local technical capacity in design, implementation and of integrated programs
- Weak local capacity in generation and use of research evidence to guide policy formulation and program design



Presenting the Malawi Report to the Vice President & the Minister of Environment and Climate Change Management









Thank You

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