Transformative climate scenarios and global futures

Aditi Kapoor Alternative Futures

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International Panel of Futurists Rabat July 13, 2016





Contents

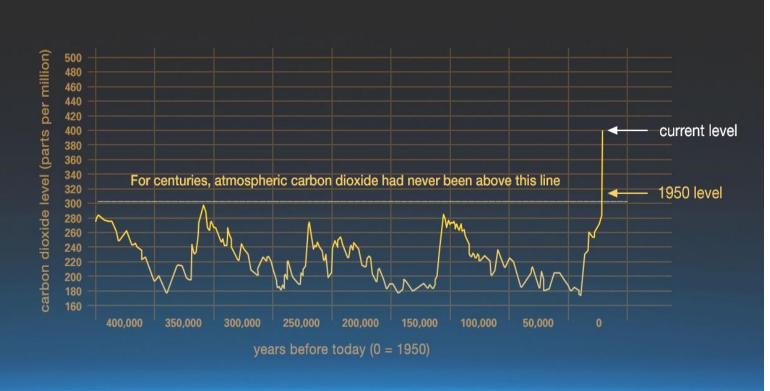
- Context
- Trends
- Future Scenario





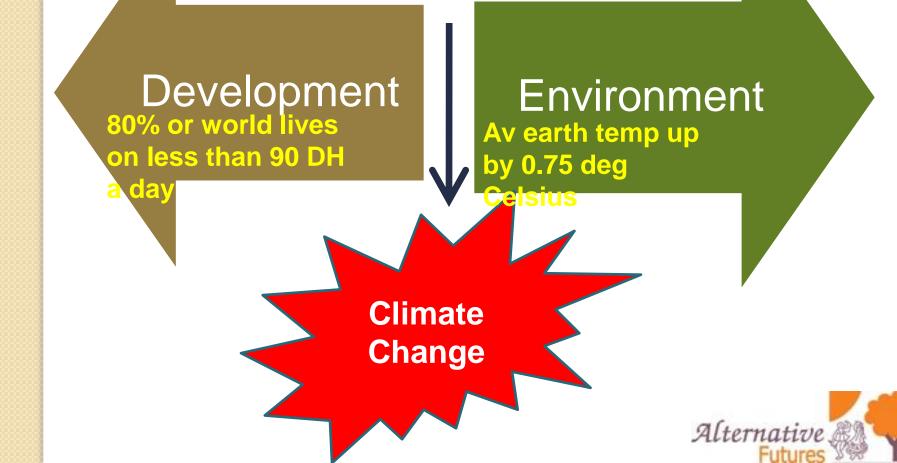


Carbon dioxide peaked after 1950

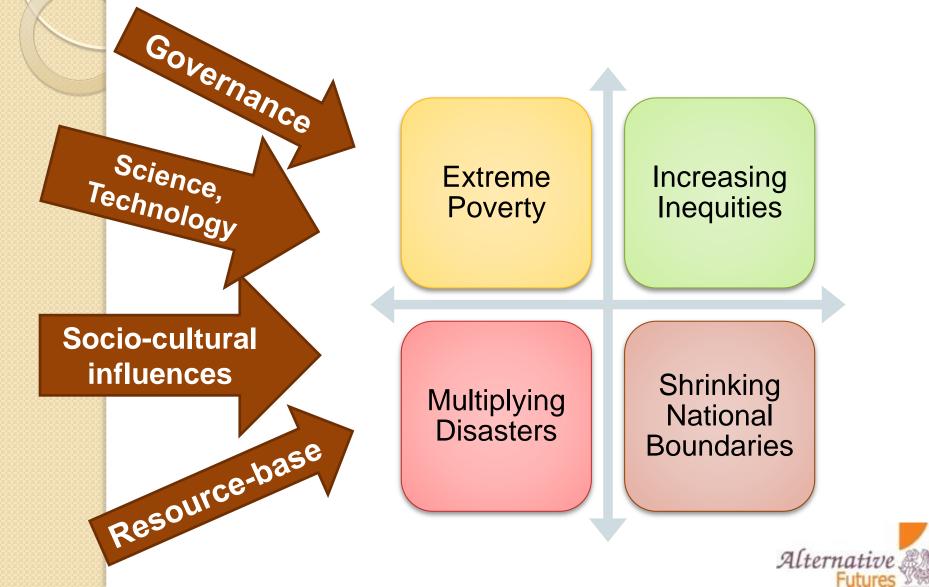


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Trade-offs To Grow or to Conserve?



Climate Change: Deepening Challenges Drivers of Change







Looming Food and Water Crisis





" Changes in crop area may include substitution for other crops as well as area expansion

of H7) India (29)

China (%) China (15) U.L.(18)

Sugar cane 57 15 55

Plantation 343 91

forestry

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Climate change-induced civil wars



Lack of rain, ecological crisis and the first climate war in Darfur

> Water, Drought, Climate Change and Conflict in Syria



Climate Refugees 2050: Up to 1 billion!



Yet to be recognised by UN for assistance.



Changing energy base



Campaign by global youth at <350.org>

Hong Kong: first zerocarbon emission building began in 2012

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Annex: main groupings of developing countries active in climate negotiations

Political Commitment

LEAST DEVELOPED COUNTRIES

Guinea

Haiti

Kiribati

Liberia

Mali

Nepal

liger

Afghanistan Angola Bangladesh Benin Bhutan **Burkina** Faso Burundi Cambodia **Central African** Republic Chad Cornoros Democratic **Republic of** Congo Djibouti Equatorial Guinea Eritrea

Ethiopia Gambia Rwanda São Tomé and Príncipe Guinea-Bissau Senegal Sierra Leone Solomon Lao People's Democratic Islands Republic Somalia Lesotho South Sudan Sudan Madagascar Tanzania Malawi **Timor Leste** Togo Mauritania Tuvalu Mozambigue Uganda Vanuatu Myanmar Yemen Zambia

AFRICAN GROUP

LIKE-MINDED DEVELOPING COUNTRIES Bolivia

China

Cuba

Dominica

Ecuador

India

Iran

Iraq

Mali

Malaysia

Nicaragua

Sri Lanka

Venezuela

(membership

fluctuates)

Sudan

Philippines Saudi Arabia

Egypt El Salvador

Costa Rica Suatemala Panama Paraguay Peru

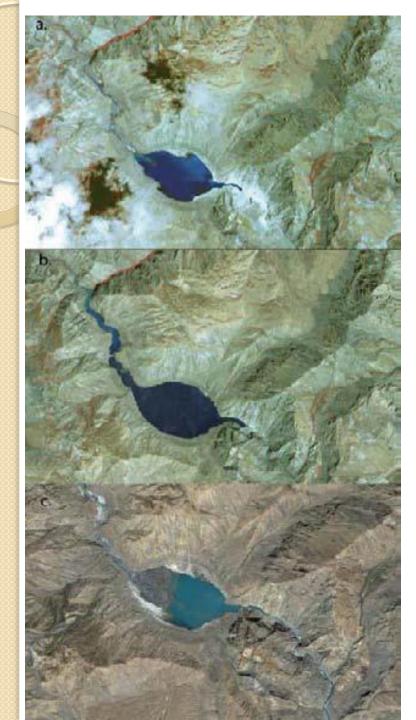
INDEPENDENT ASSOCIATION **OF LATIN AMERICA** AND THE CARIBBEAN Chile Colombia

Brazil South Africa India China

BASIC

Saudi Arabia commitment to solar PV, solar thermal, wind and geothermal energy and waste to energy

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Nations break political barriers to save people from climate impacts

Data sharing policy between India and China since 2003

22 June 2004: Landslide blocked the Pareechu River in Tibet, the upper reaches of India's Sutlej River.

Chinese authorities communicated to their Indian counterparts well before breach occurred.

India identified 56 risk villages.

Dam burst on 25 June 2005

Direct cost of flood damage - approx USD 200 million

No human casualties because of prior communication from the upstream country

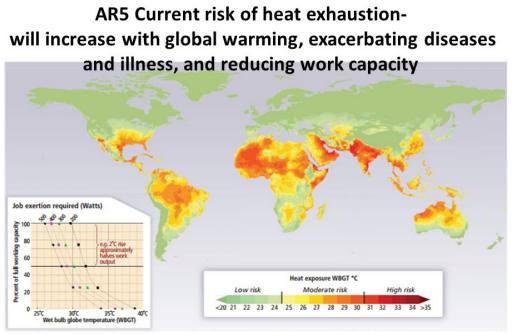


Future Scenarios - 2050



Scenario1: Business-as-Usual

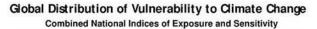


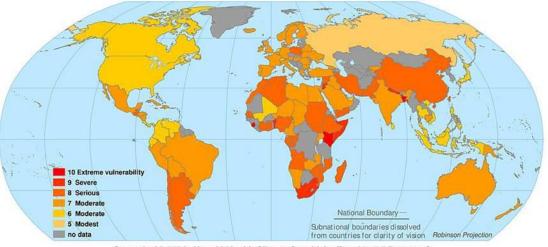


Today

IPCC AR5 WG2 Figure 11-5 | The 1980–2009 average of the hottest months globally, mea combines temperature, humidity, and other factors into a single index of the impact on v that some parts of the world already exceed the level for safe work activity during the h¢ every 1° C that Tmax goes up, the WBGT goes up by about 0.9° C, leading to more part: with consequent impacts on productivity, heat exhaustion.

2050 World wars driven by scarcity of natural



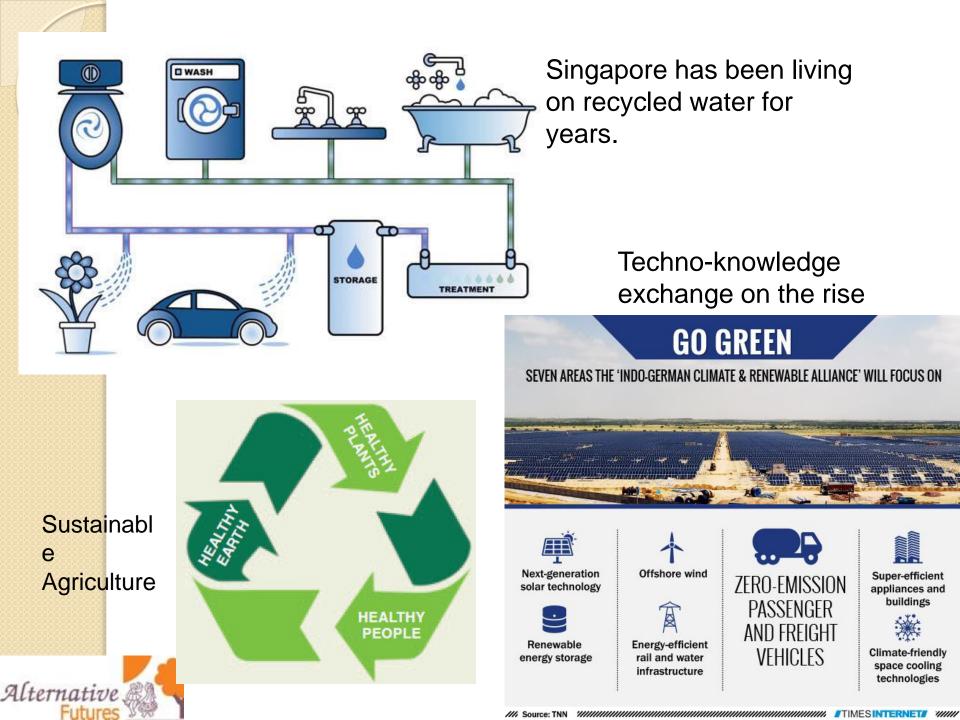


Scenario A2-550 in Year 2050 with Climate Sensitivity Equal to 5.5 Degrees C Annual Mean Temperature with Extreme Events Calibration

http://ciesin.columbia.edu/data/climate

Scenario 2 Technological and Cultural Revolution





Scenario 3: Two worlds

Rising Inequalities despite climate solutions





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SDGs will remain unmet even beyond 2030

Equality will remain a vision



Thank you www.alternativefutures.org.in

