



Green Growth in Action at the World Bank

Richard Damania
Chief Economist, Sustainable Development
The World Bank

KGID KOREA GREEN INNOVATION DAYS
CAIRO OCTOBER 17-19, 2023
LEVELING UP
GREEN GROWTH IMPACTS

A defining challenges of the 21st century



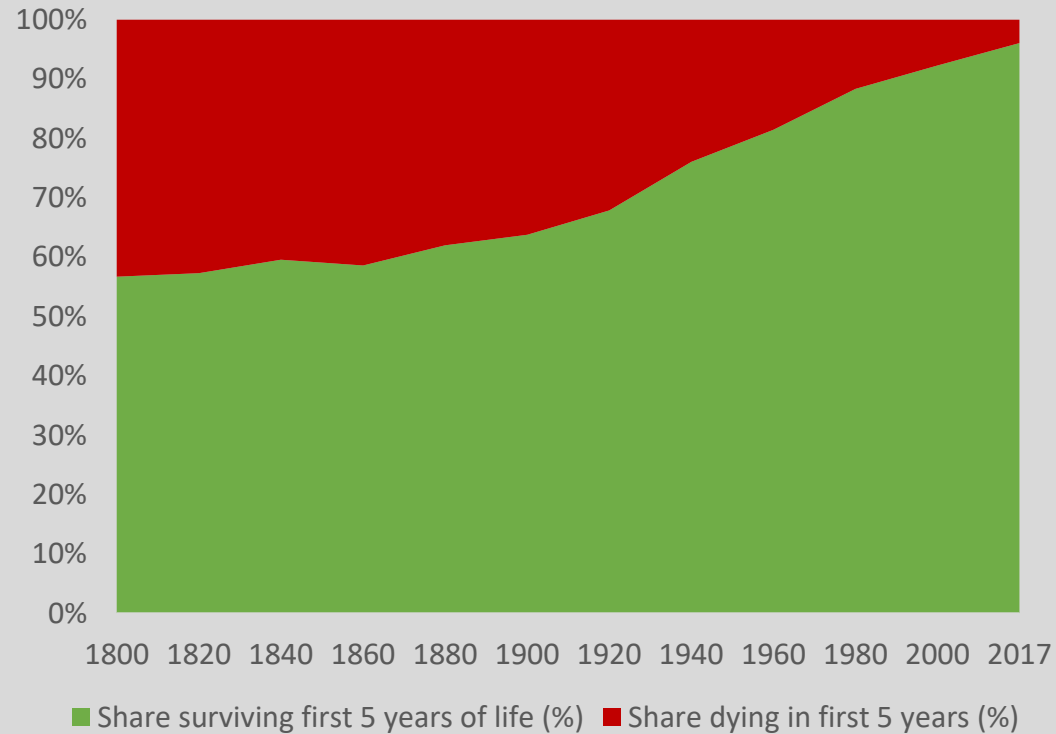
Challenge of sustainability

Can we grow by enhancing the environment, rather than degrading it?

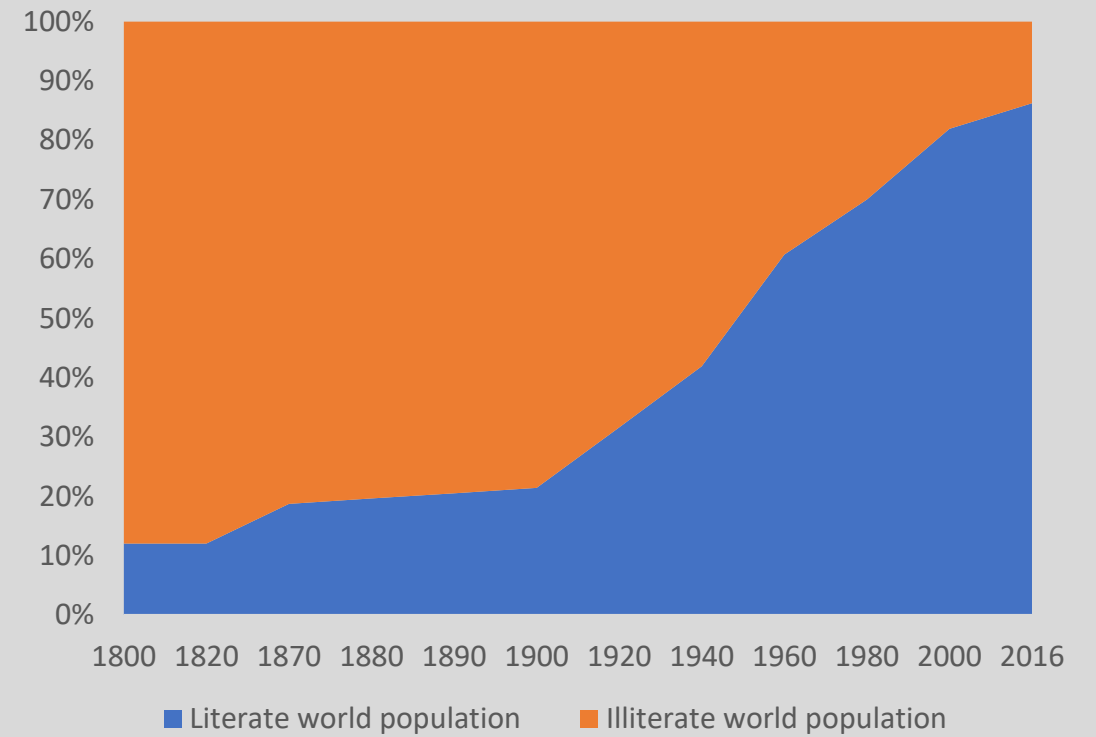


ENORMOUS PROGRESS MEASURED BY HUMAN AND PHYSICAL CAPITAL

Plummeting Child (<5 years) Mortality Rates

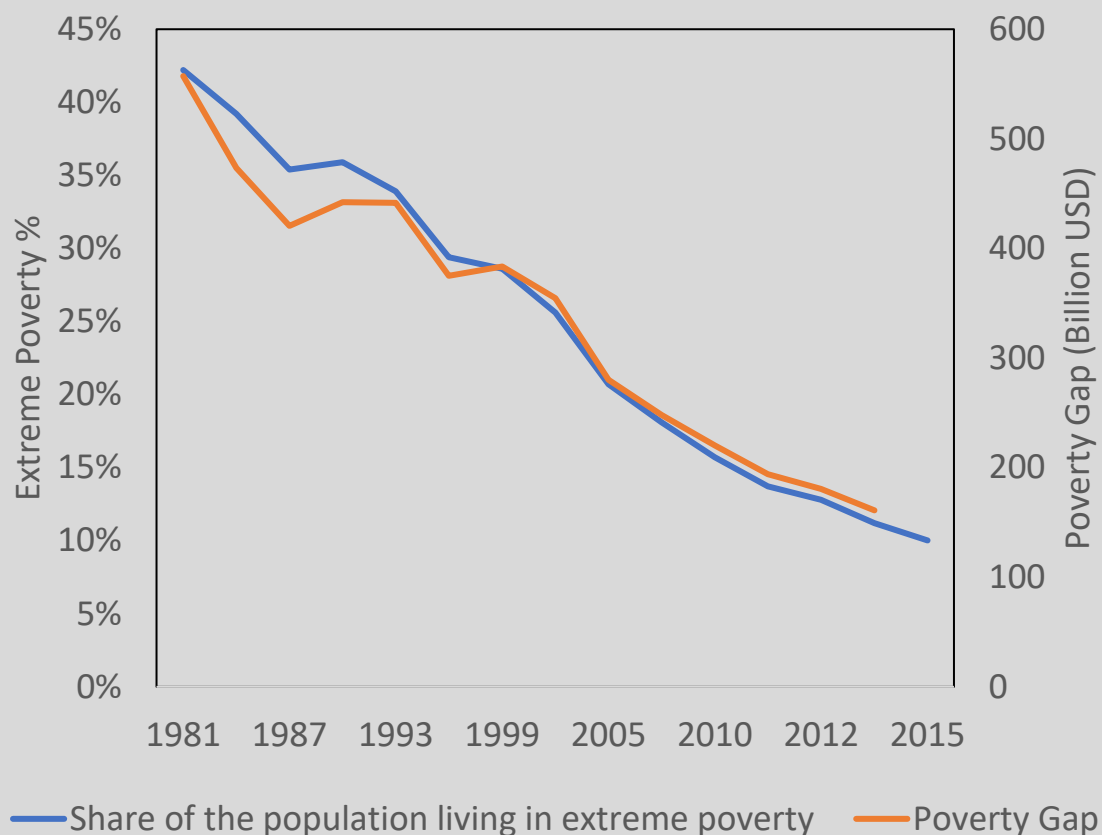


Rising Literacy

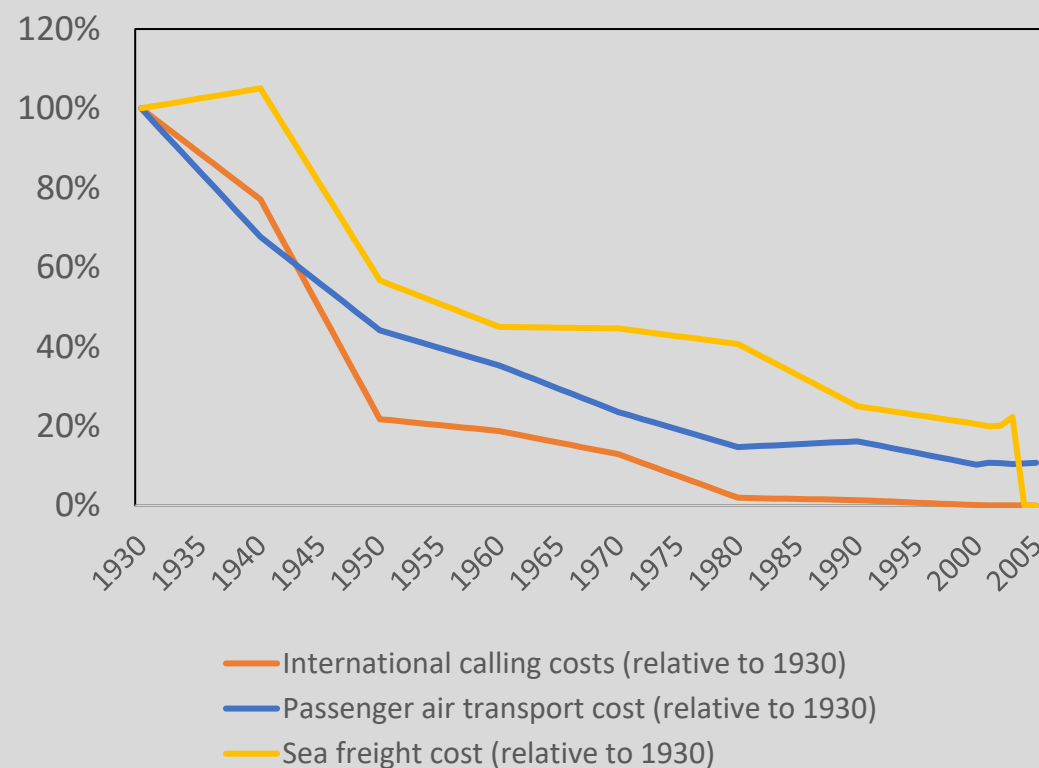


PROGRESS IN HUMAN AND PHYSICAL CAPITAL

Declining Poverty Rates



Declining Transport and Communication Costs



ALL MEASURES OF NATURAL CAPITAL IN SECULAR DECLINE



Air



Land



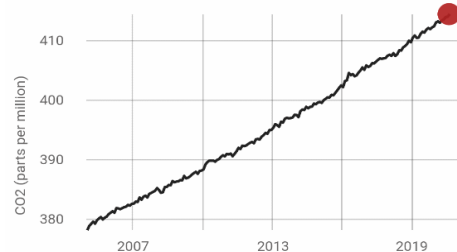
Water

CLIMATE CHANGE – PLANET'S VITAL SIGNS DETERIORATING

Carbon Dioxide

DIRECT MEASUREMENTS: 2005-PRESENT

Data source: Monthly measurements (average seasonal cycle removed). Credit: [NOAA](#)



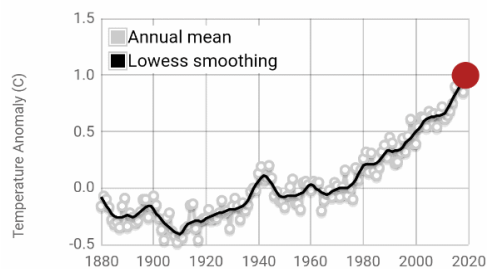
CARBON DIOXIDE

↑ **414** parts per million

Global Temperature

GLOBAL LAND-OCEAN TEMPERATURE INDEX

Data source: NASA's Goddard Institute for Space Studies (GISS). Credit: NASA/GISS



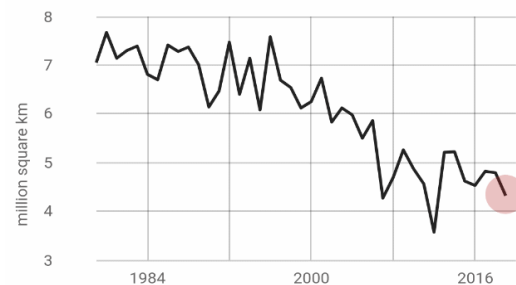
GLOBAL TEMPERATURE

↑ **2** °F since 1880

Arctic Sea Ice

AVERAGE SEPTEMBER EXTENT

Data source: Satellite observations. Credit: [NSIDC/NASA](#)



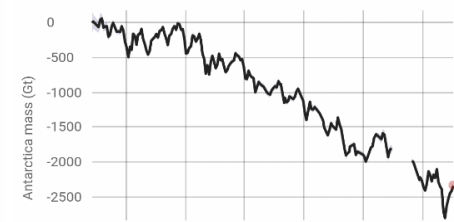
ARCTIC ICE MINIMUM

↓ **12.85** percent per decade

Ice Sheets

ANTARCTICA MASS VARIATION SINCE 2002

Data source: Ice mass measurement by NASA's GRACE satellites. Gap represents time between missions. Credit: NASA



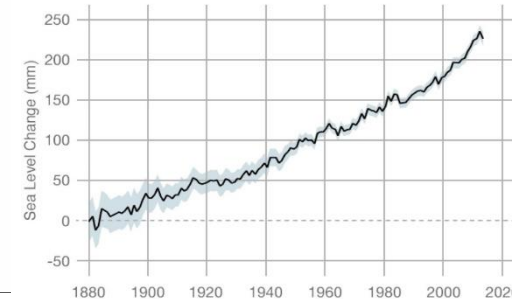
ICE SHEETS

↓ **427** Gigatonnes per year

Sea Level

GROUND DATA: 1870-2013

Data source: Coastal tide gauge records. Credit: [CSIRO](#)

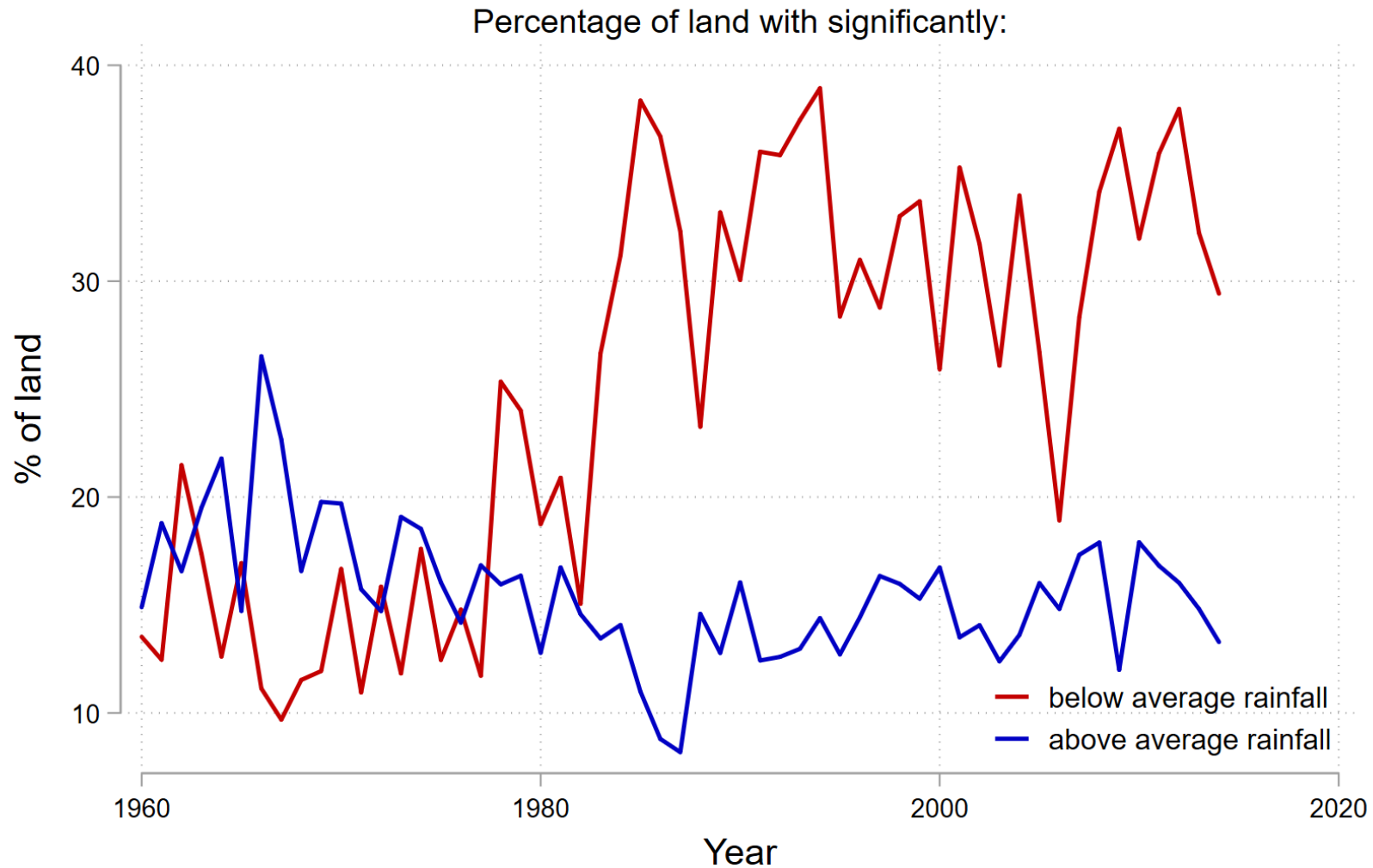


SEA LEVEL

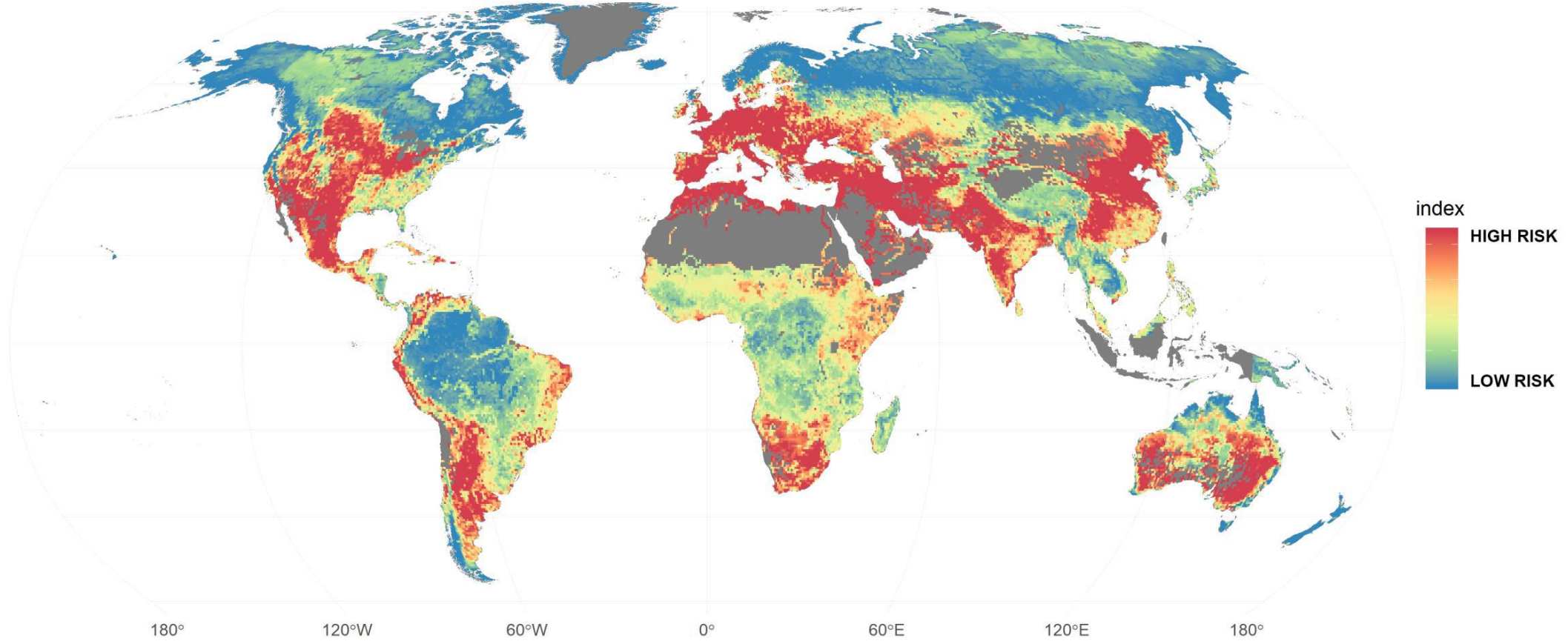
↑ **3.3** millimeters per year

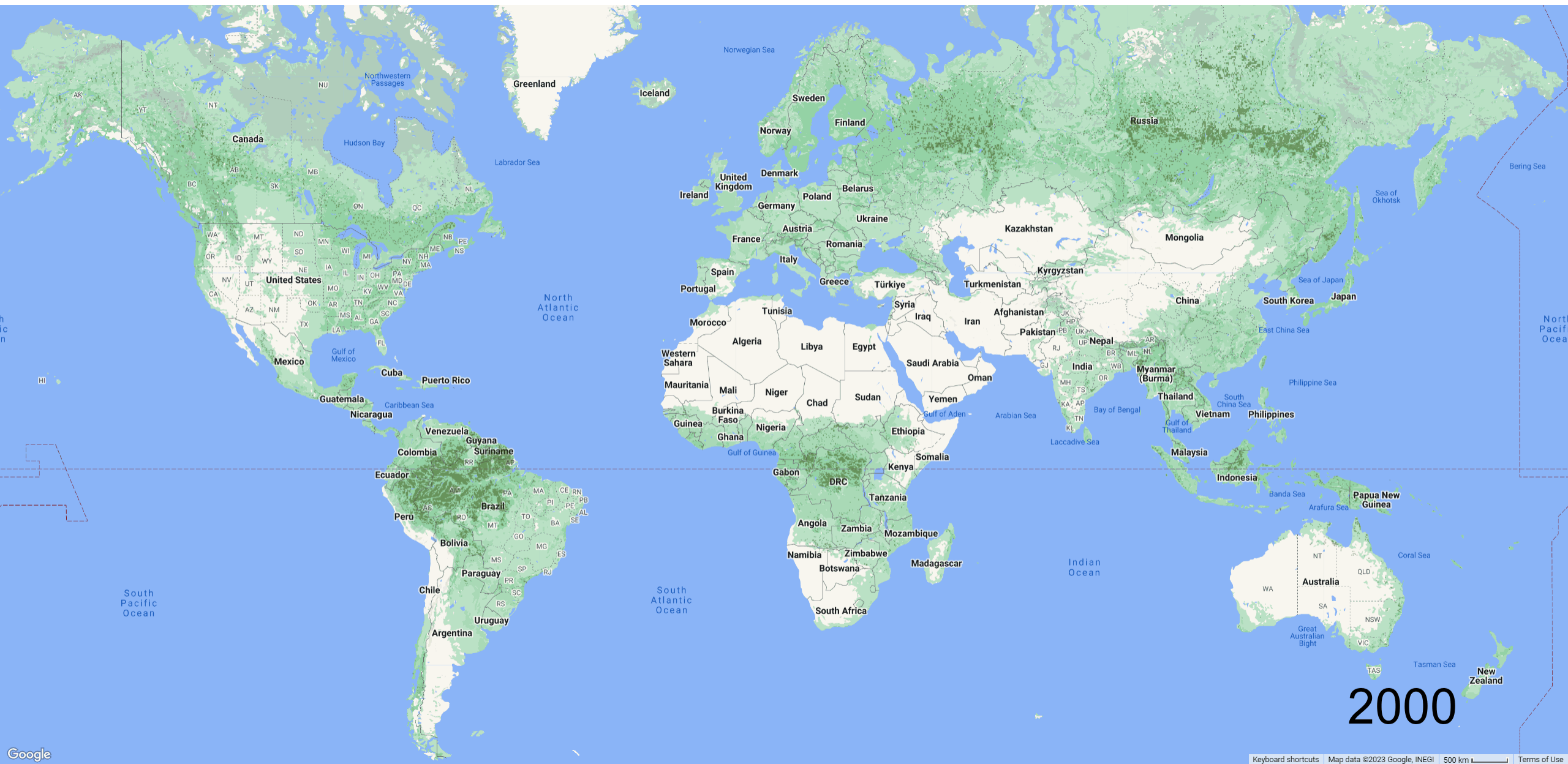
Source: NASA GISS

DRYING TREND HAS INCREASED (by > 200% in some regions)



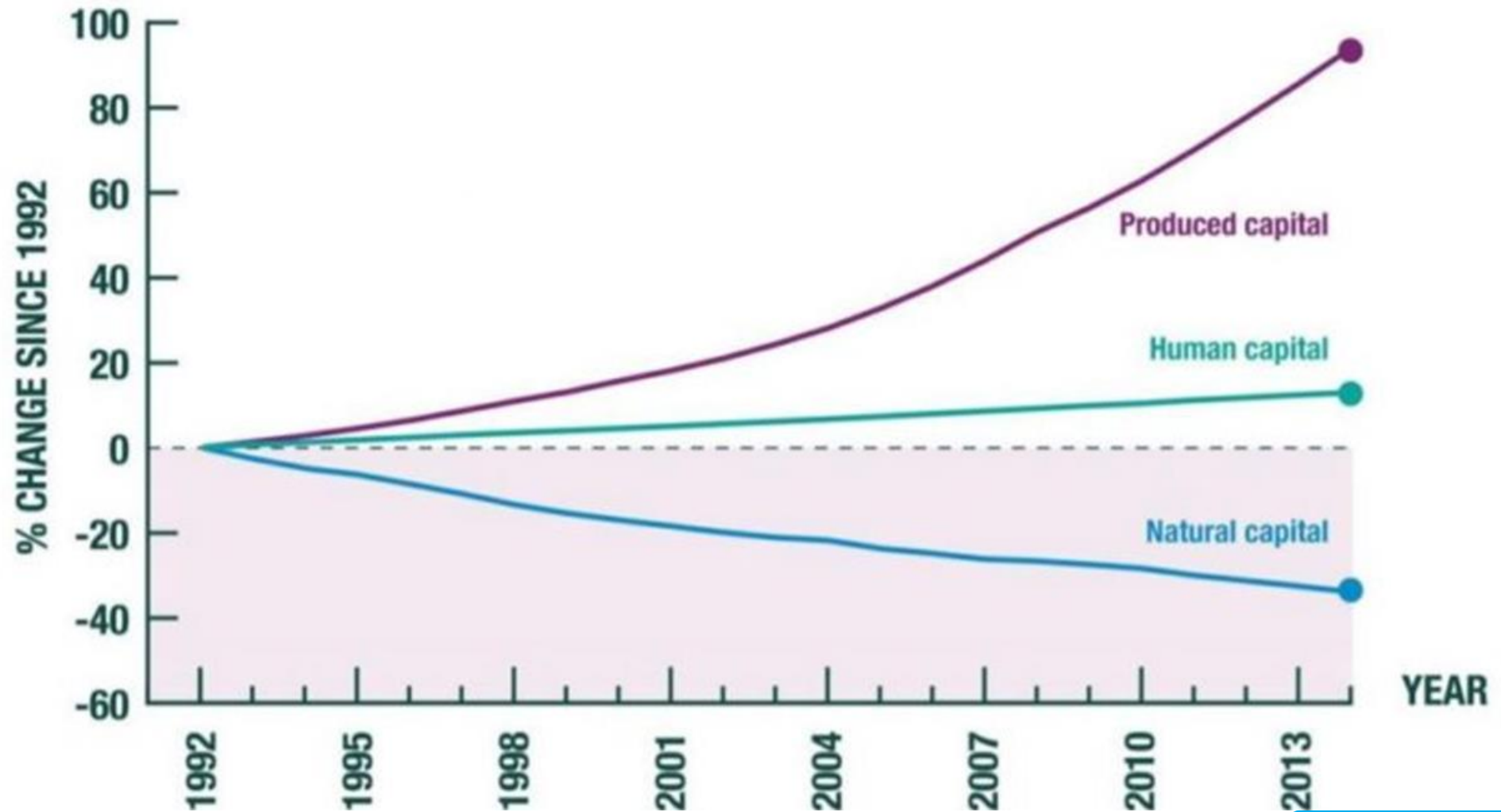
WATER QUALITY (SDG 6.3) IN DECLINE IN COUNTRIES RICH AND POOR ALIKE





2000

GLOBAL CAPITAL STOCKS PER CAPITA





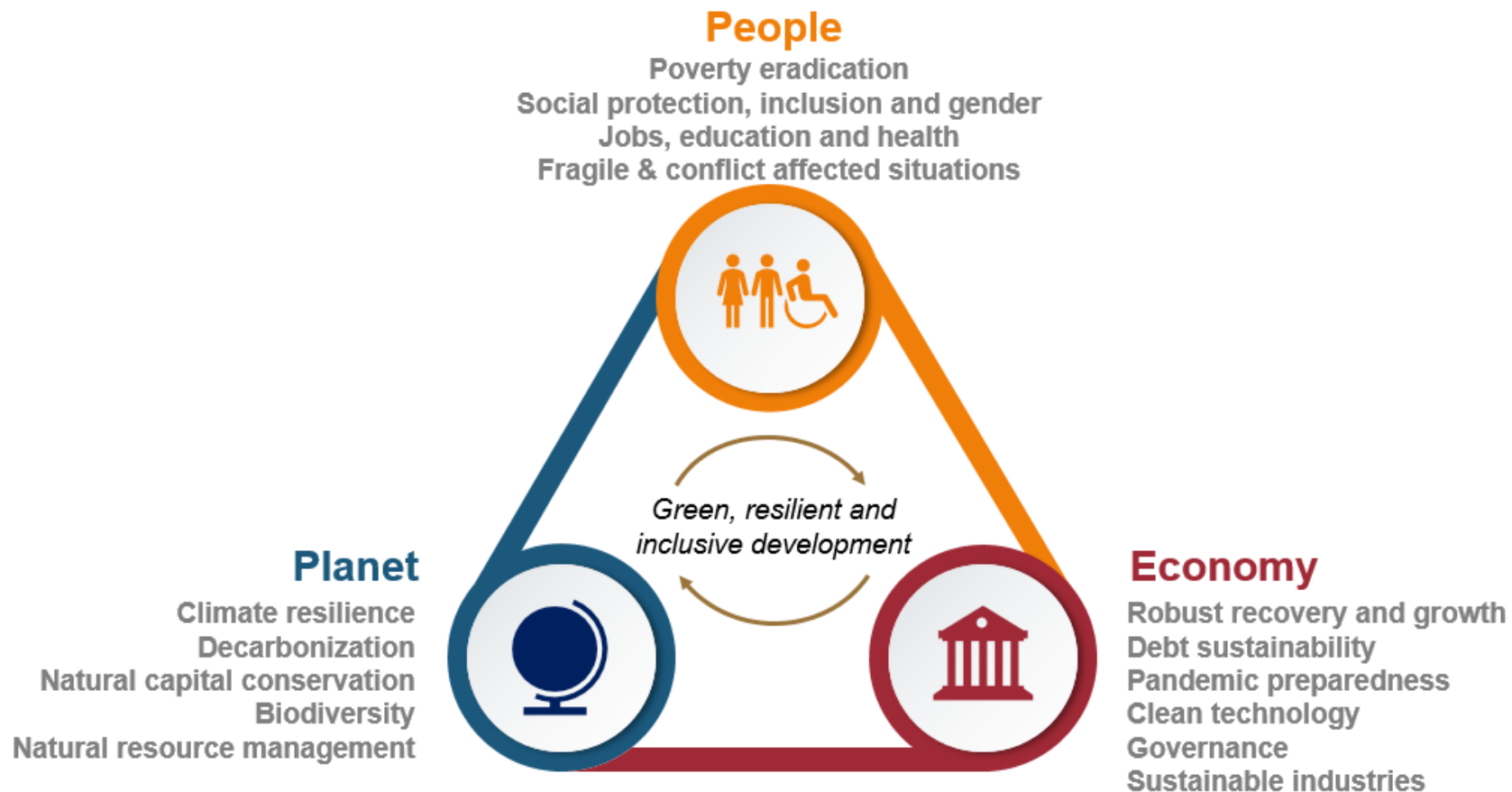
Deliver development that is sustainable and just.

- “Just transformation” that is green
- “Green transformation” that is just

DEVELOPMENT ON A LIVABLE PLANET MUST RECOGNIZE INTERDEPENDENCIES

Not taking into account this interdependence leads to unbalanced development

Interrelated set of global challenges



THE WORLD BANK IS TRANSFORMING

A NEW VISION & MISSION

Our vision is to create a world free of poverty on a livable planet.

Our mission is to end extreme poverty and boost shared prosperity on a livable planet.

ACHIEVE THIS AIM – BY GREENING SECTORS THROUGH



DIAGNOSTICS AND ANALYTICAL WORK



COUNTRY ADVISORY SERVICES



LENDING ('OPERATIONS')

- **Path to Development on a Livable Planet:** *policies, capacity building, knowledge, and partnerships, as embraced by KGGTF.*
- **Investment financing alone will not be sufficient** for developing countries to embark on a sustainable development path.
- **Crucial Role of Global Partnerships:** Forging partnerships across the globe for knowledge sharing and capacity building is essential to conquer the defining challenges of the 21st century.

Thank you