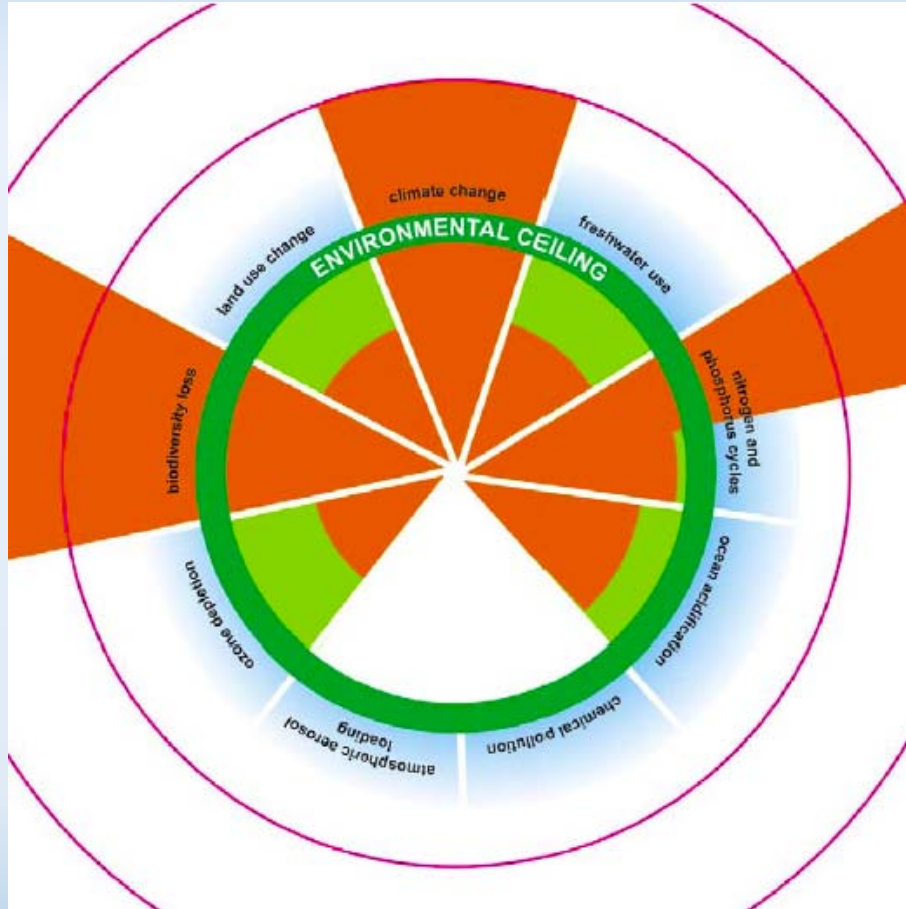


# Future Earth, Sustainable Development and (Southern) Africa

Mark New



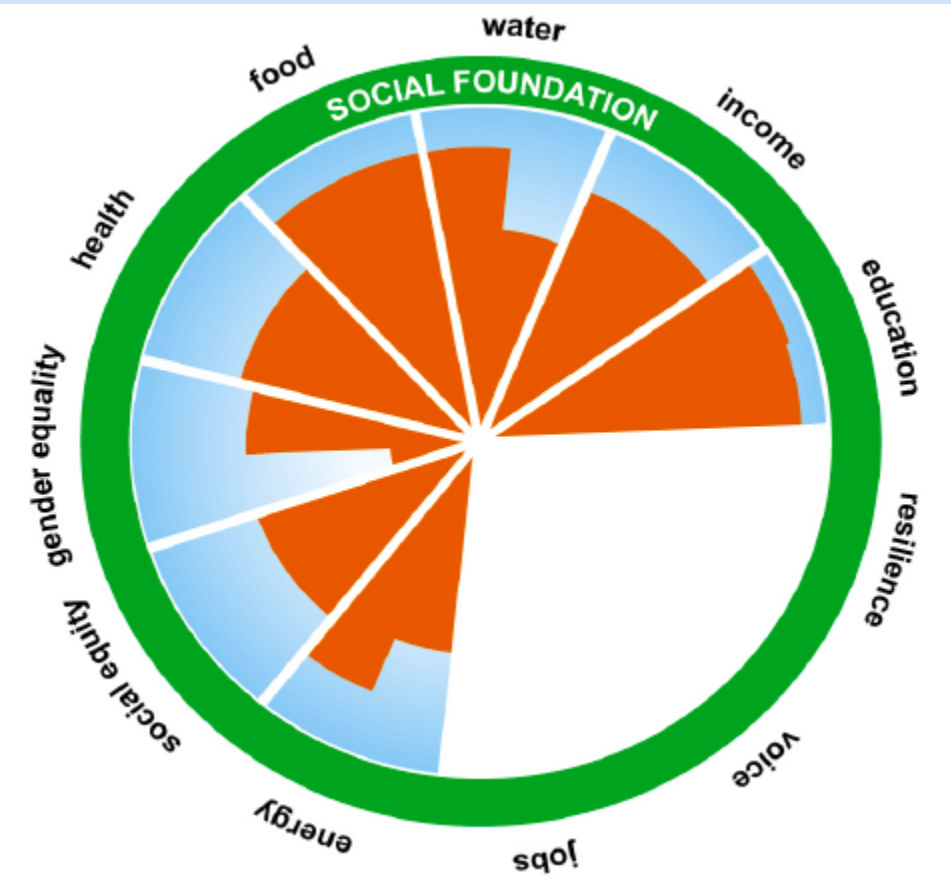
# Anthropocene & Planetary Boundaries



	Boundary	Current
CO <sub>2</sub>	350	393
Water	4000	2600
Land Cover	15	12
Biodiversity Loss	10	>100
Ocean Acidity	2.75	2.90
Nitrogen Cycle	35	121
Phosphorous	11	~10
Ozone Depletion	276	283
Aerosols	?	?
Chemical Pollution	?	?

After Rockström, 2009, Nature

# Global Sustainability & Human Development



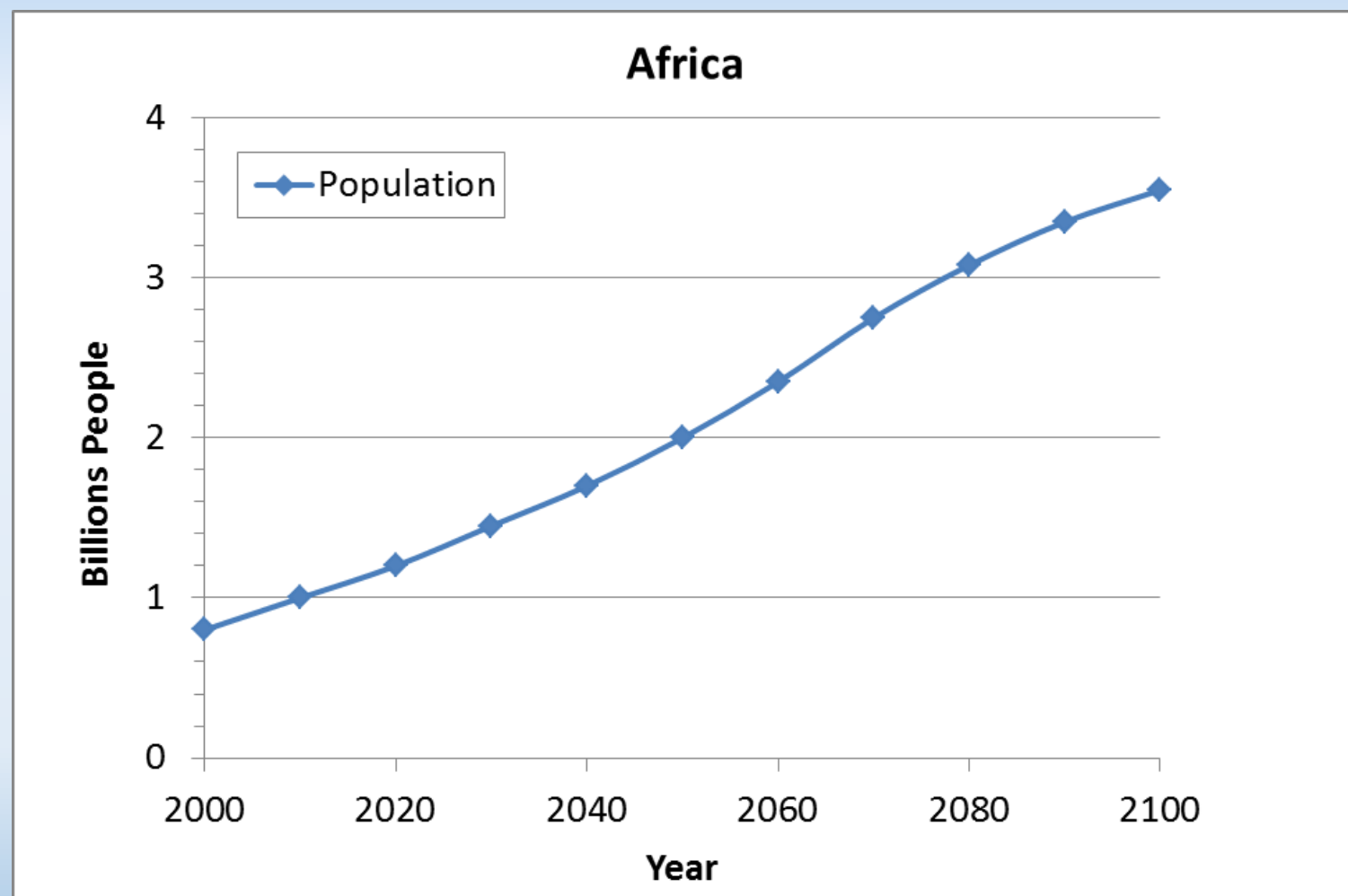
	% Global Population
Food Security	15
Water	13
Sanitation	39
Healthcare	30
Education	11
Energy	19-39
Gender Equality	34-77
Social Equity	33
Voice	?
Jobs	?
Resilience	?

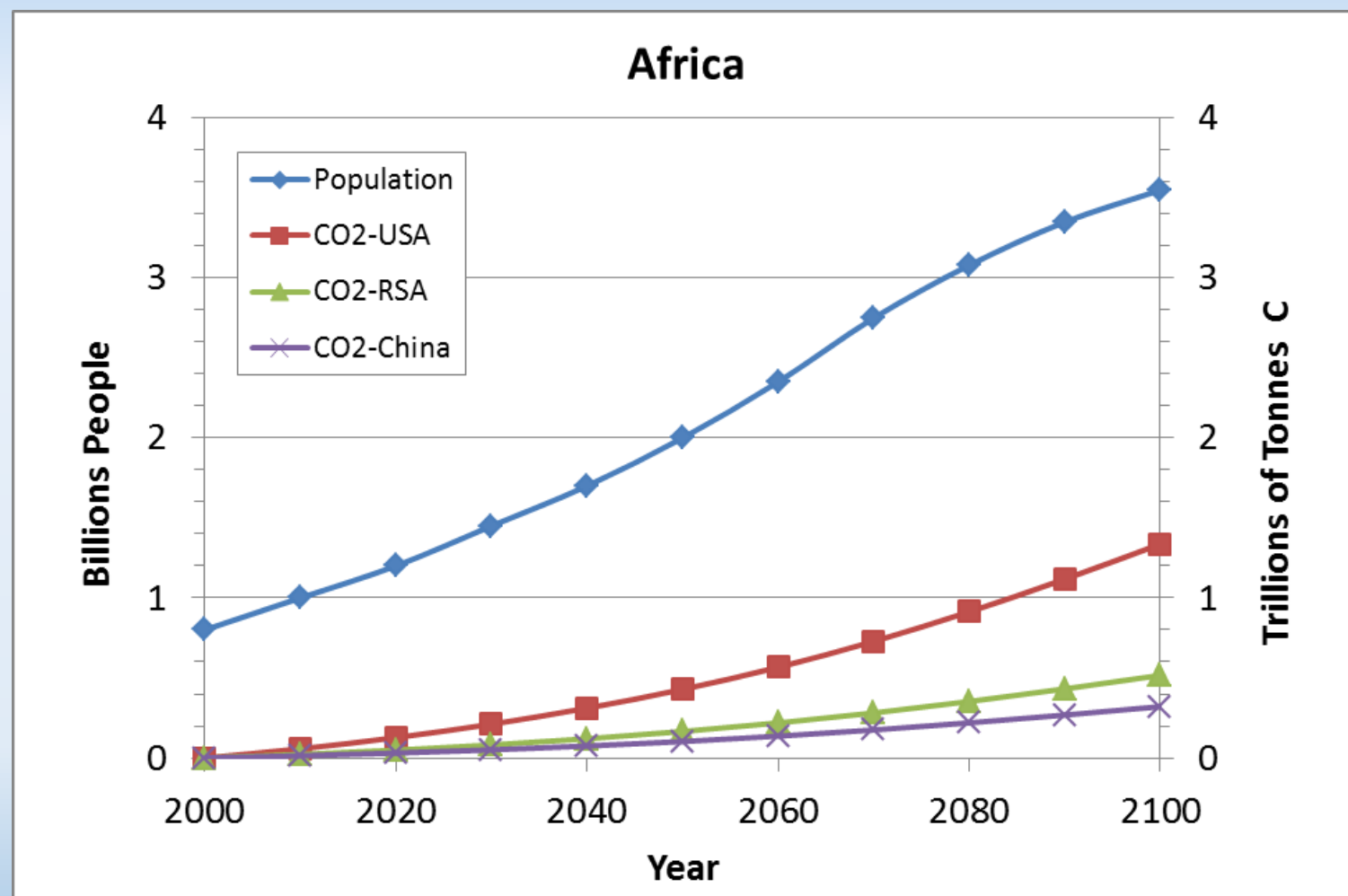
# A Sustainable, Safe & Just Space

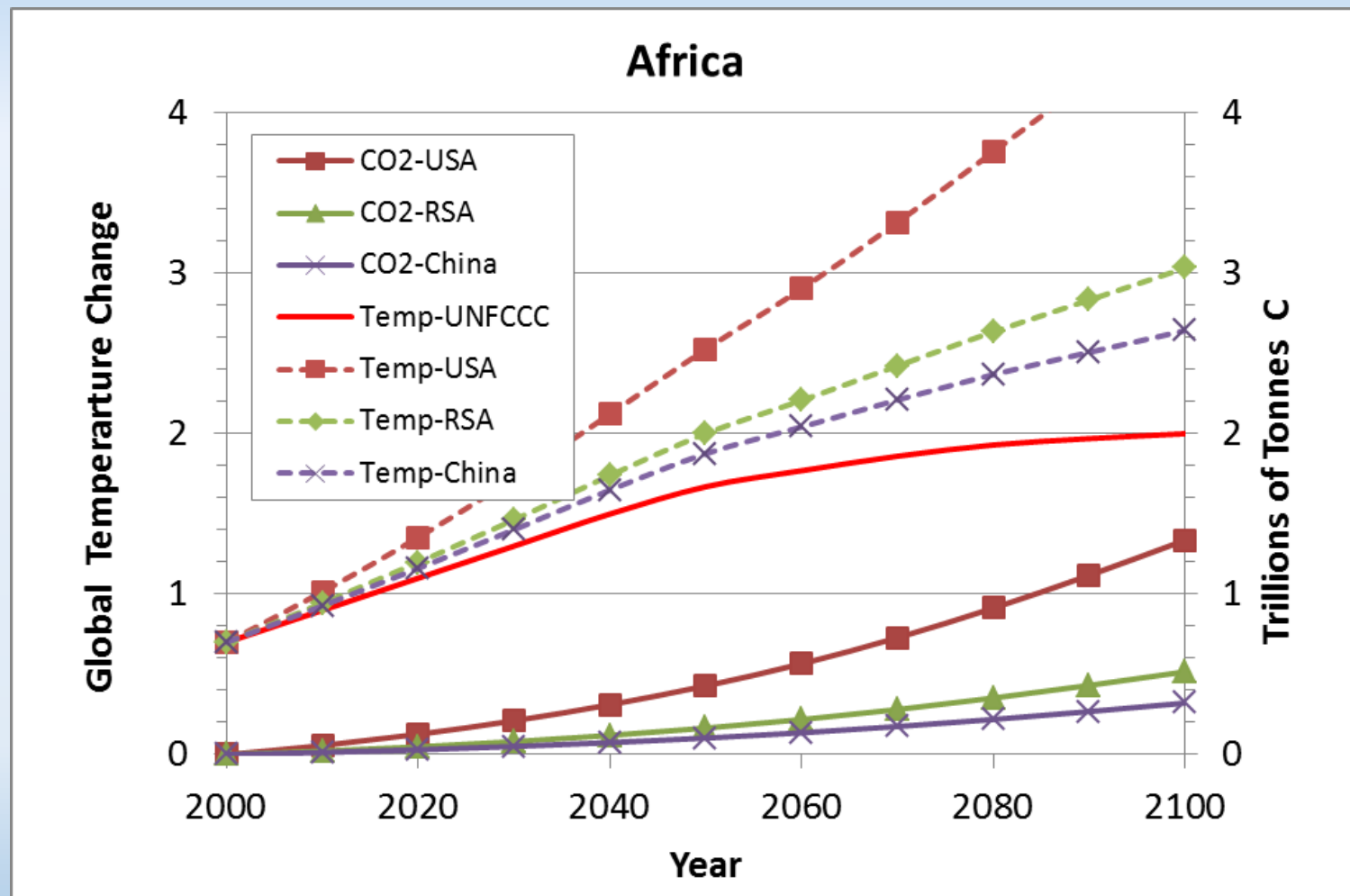


- Keep below the environmental ceiling
- Move above the social foundation





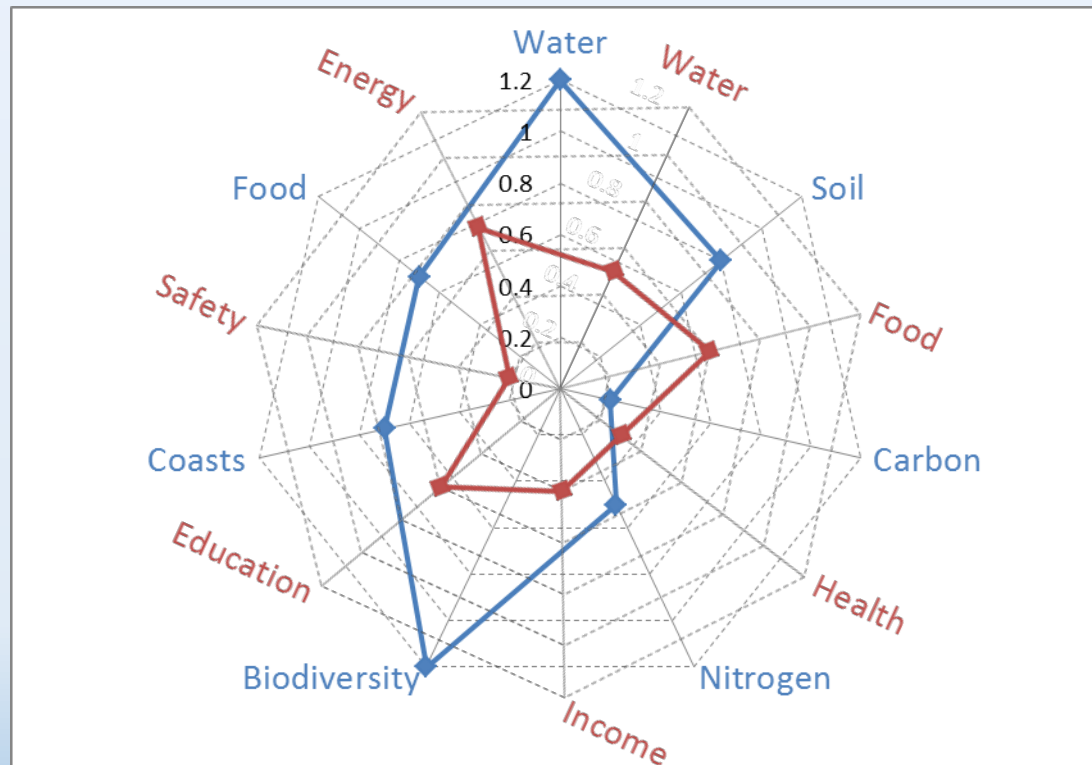








# Regional & National “Doughnuts”



# Disaggregating the Wedges

