Our Common Future within Planetary Boundaries

GEF General Assembly Da Nang, Vietnam 27 June 2018

Professor Johan Rockström

Executive Director, Stockholm Resilience Centre Professor of Environmental Science, Stockholm University

Photo: Yann Arthus-Bertrand





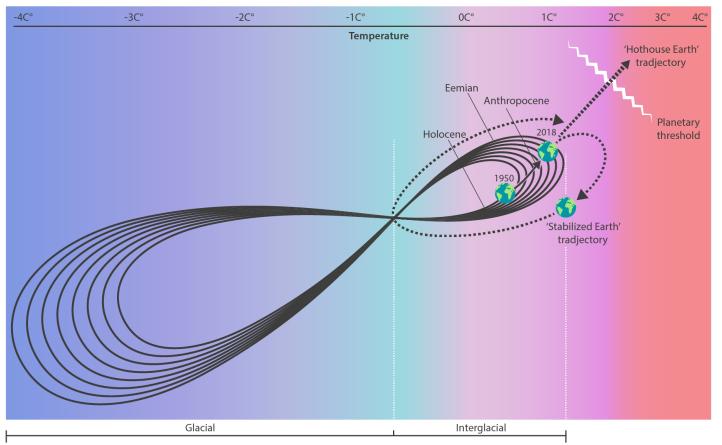




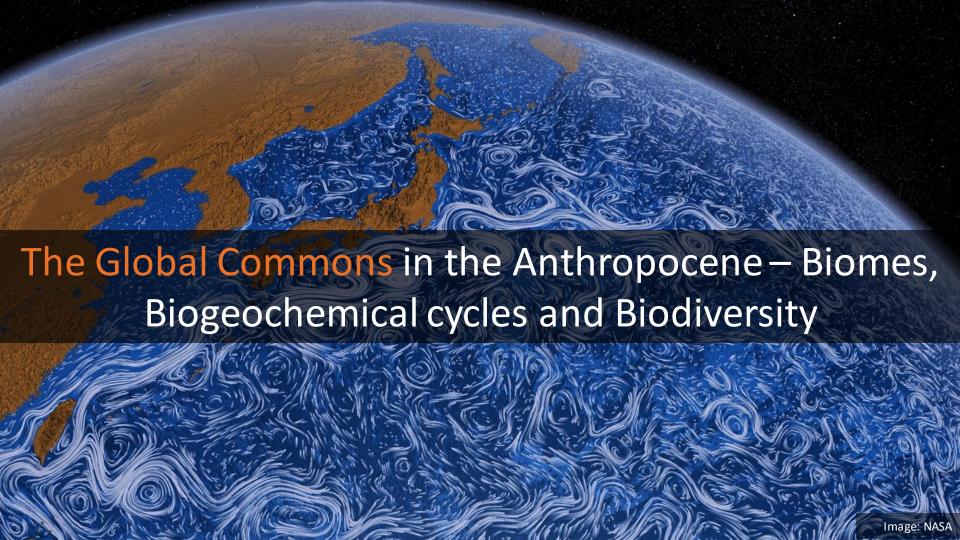
People are embedded parts of the biosphere and shape it, from local to global scales, from the past to the future

At the same time - people are fundamentally dependent on the capacity of the biosphere to sustain human development

Limit cycles of the earth system the last 1.2 million years and potential earth trajectories the coming 100 years

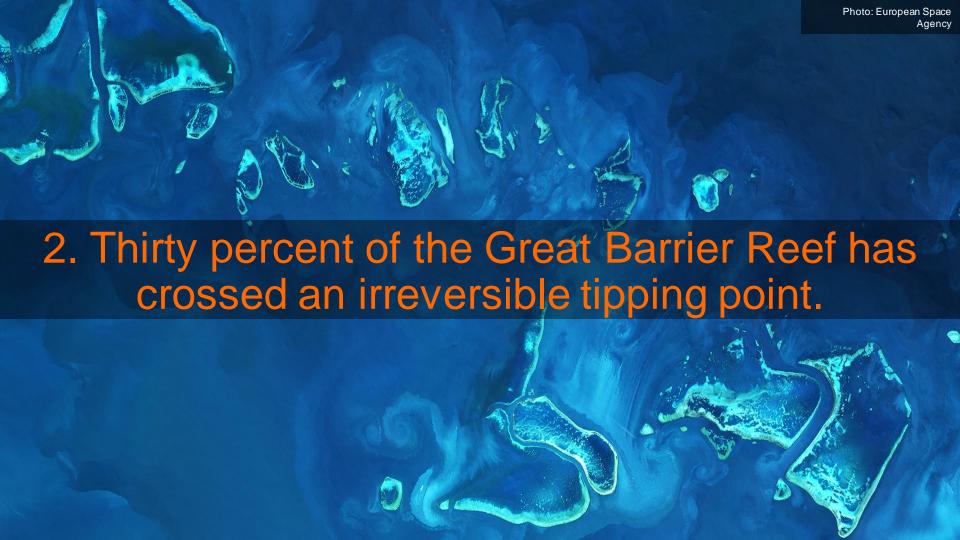


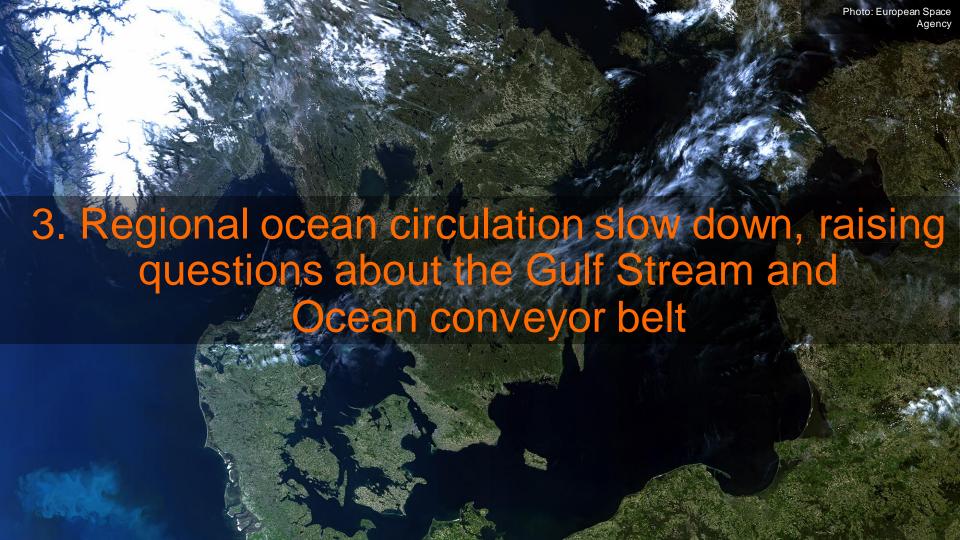








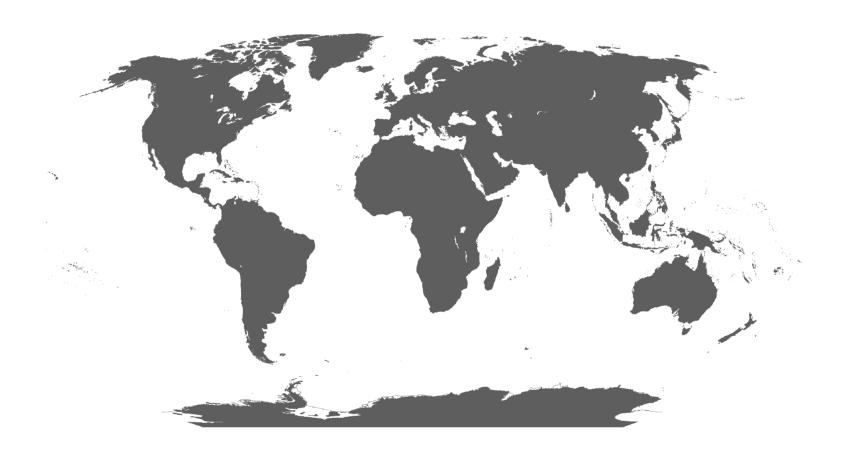






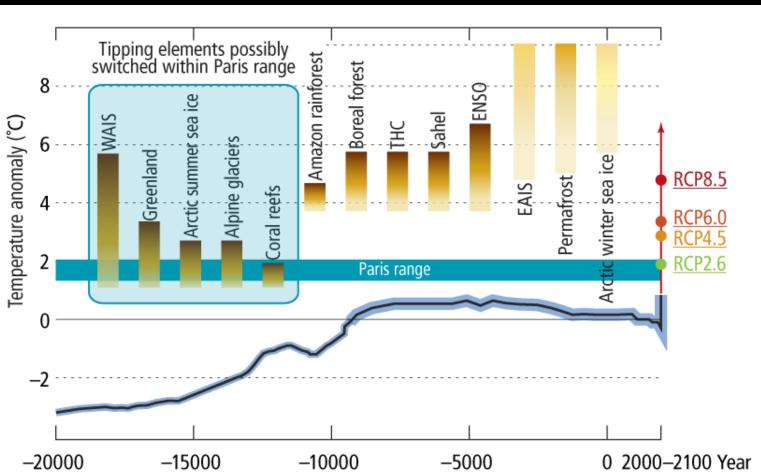


Global Tipping Points

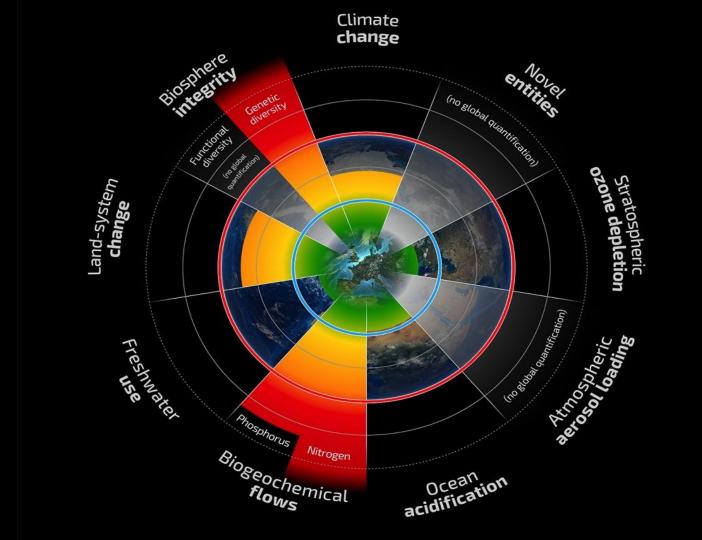


Tipping Points & the Paris Agreement

Sources: Adapted from Schellnhuber et al. (2016). Nature Climate Change



Welcome to the Anthropocene Holocene our Garden of Eden **Tipping Points part of Normality** Human Prosperity within Planetary Boundaries

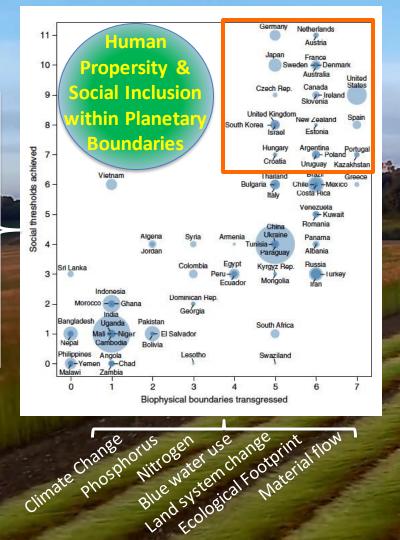


From a small world on a large planet ...



To a large world on a small planet ...

Life Satisfaction
Healthy Life
Expectancy
Nutrition
Sanitation
Income
Access to Energy
Education
Social Support
Democratic quality
Equality
Employment



A good life for al within planetary boundaries

O'Neill, D., et al. (2018). A good life for all within planetary boundaries.

Nature Sustainability, 1, pp. 88-95.



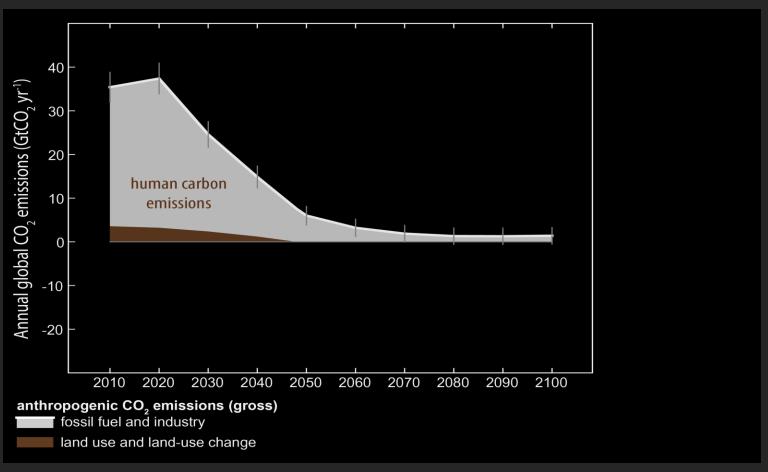
Six Global Transformations that are Necessary and Potentially Sufficient to attain the SDGs

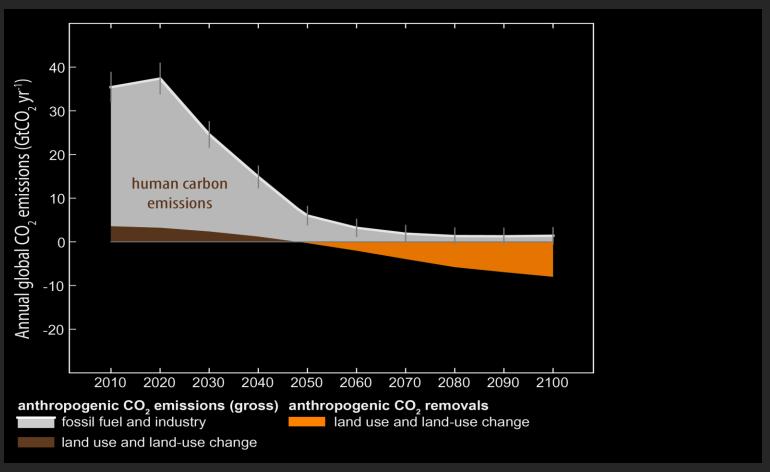
[TWI2050, 2018 report to the HLPF in July 2018, work in progress]

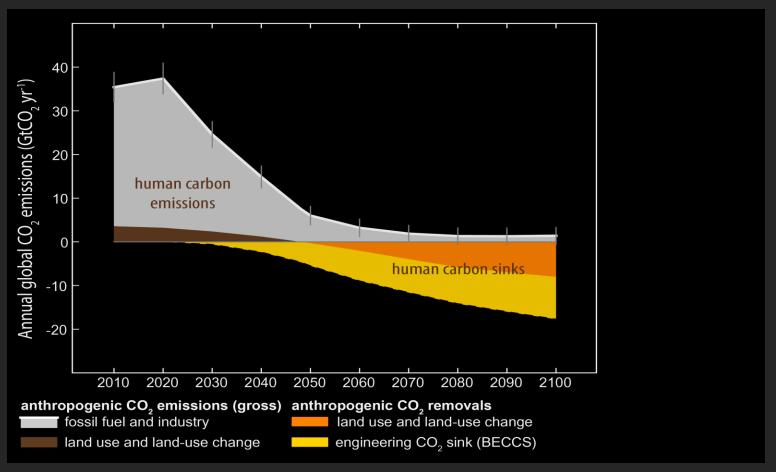


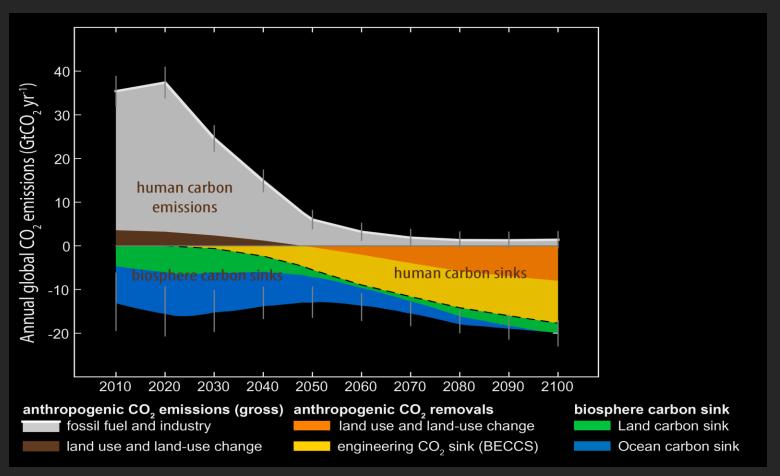
THE CARBON LAW









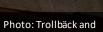


A Global Carbon Law Halving Emissions Every Decade











SUSTAINABLE GALS DEVELOPMENT GALS



























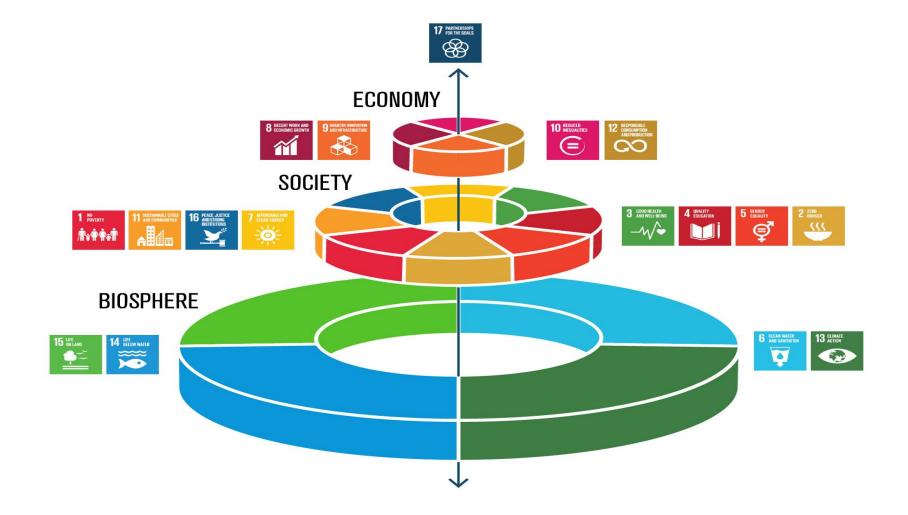












We face unprecedented global environmental risks, but also unprecedented opportunities

Are we at a global sustainability tipping point?

Transformations to human prosperity and social inclusion within Planetary Boundaries Necessary, Possible, and Beneficial

Ecosystems and the biosphere is the fundamental path to Success









