Pathways to Sustainability: Virtual Workshop for African Early Career Researchers

9 - 10 September 2020











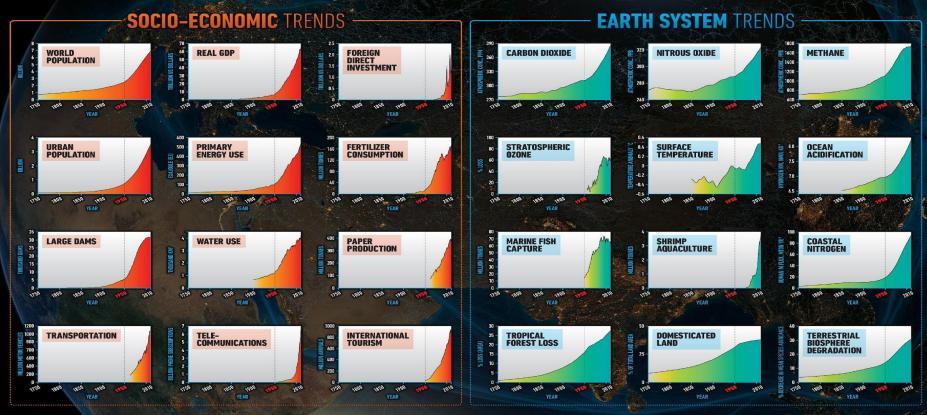




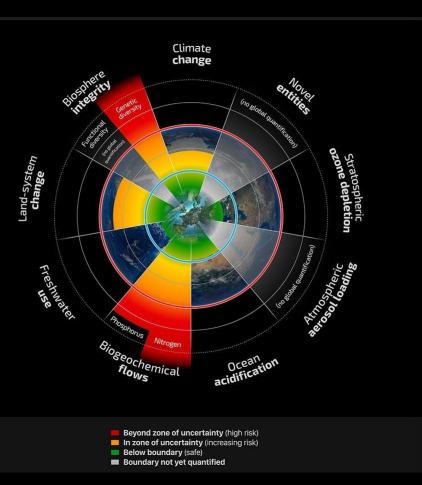
Pathways for Sustainability

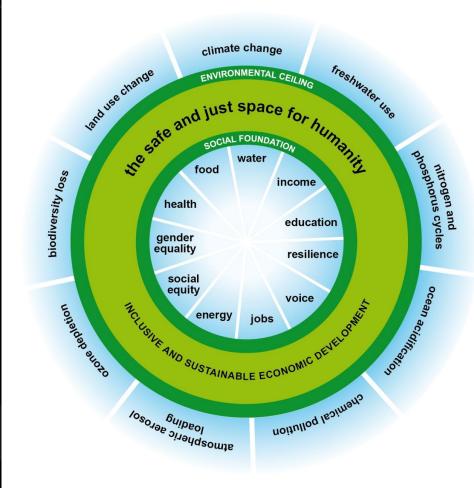
Maria Uhle Co-Chair, Belmont Forum Program Director for International Activities Directorate for Geosciences National Science Foundation

THE GREAT ACCELERATION



REFERENCE: Stelfen, W., W. Broadgate, L. Deutsch, O. Gaffney and C. Ludwig, The Trajectory of the Anthropocene: the Great Acceleration, The Anthropocene Review, 16 January 2015. MAP & DESIGN: Félix Pharand-Deschênes / Globaïa







Pathways to Sustainability: Africa Early Career Workshop



SUSTAINABLE DEVELOPMENT GOALS 17 GOALS TO TRANSFORM OUR WORLD





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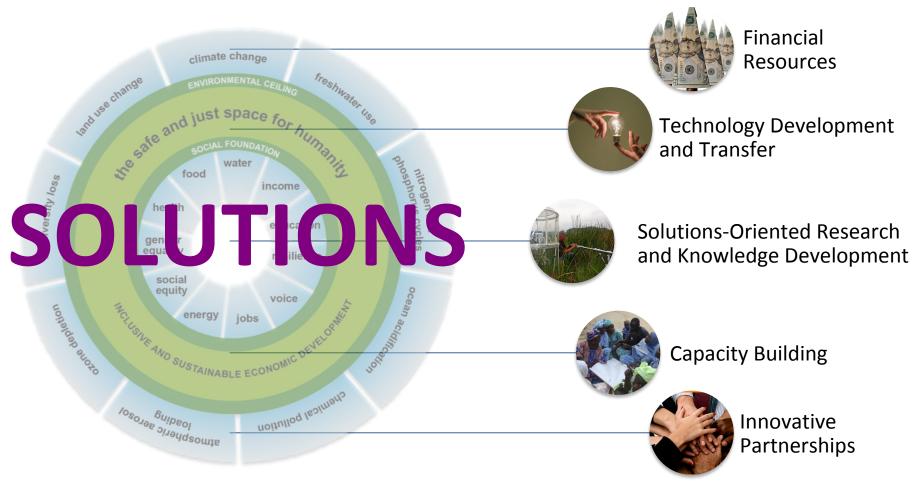


Photo: Fishing at sunset on the Mekong river, Vientiane, Laos; Michèle Dépraz / WWF-Canon

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SUSTAINABLE DEVELOPMENT GOALS

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Dual Accountability

Begins with User Needs

Systems Approach

Holistic

Knowledge Co-Production

2-way Information Flow

Photo: Fishing at sunset on the Mekong river, Vientiane, Laos; Michèle Dépraz / WWF-Canon **Dual Accountability**

Begins with User Needs

Evidence

Boundary Organizations & Funders Direction and Focus

Knowledge

Base

Policy / Practice Capacity

Knowledge Co-Production

2-way Information Flow

Photo: Fishing at sunset on the Mekong river, Vientiane, Laos; Michèle Dépraz / WWF-Canon



Overarching Goal of CRA

Develop a network of cutting edge transdisciplinary scientific capacity addressing multiple Sustainable Development Goals at once that:

- 1. provides information useful to decision-makers
- 2. improves understanding and addresses risks and vulnerabilities across multiple time scales
- 3. develops robust modeling and prediction at useful temporal and spatial scales
- 4. stimulates innovative solutions and the use of new technologies
- 5. facilitates sustained partnerships that develop, deliver and communicate useful science

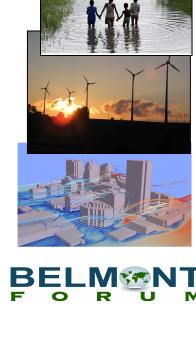


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Example Questions

Sustainable development pathways address complex questions encompassing several SDGs, at local, national, regional and global scales.

- 1. How do we meet multiple SDGs (e.g., hunger, poverty, energy, growth) while meeting global environmental goals?
- 2. We need to identify essential targets and indicators, clearly define target spaces and proceed to quantify these target and indicators.
- 3. What are the synergies and trade-offs between the proposed pathways and different SDGs?
- 4. What are the costs of pursuing social goals without meeting sustainability goals and vise verse?



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