



Red Fox moving North into the range of the Arctic Fox



## **STAP Panel Members**



**Michael Stocking** Senior Advisor to Chair



Rosina Bierbaum Chair, USA



**Thomas Lovejoy** Senior Advisor to Chair



Blake Ratner International Waters USA



**Brian Child** *Biodiversity*South Africa



**Ricardo Barra** *Chemicals & Waste*Chile



Annette Cowie

Land Degradation

Australia



**Ferenc Toth** *Climate Change Adaptation*Hungary



Ralph Sims
Climate Change
Mitigation
New Zealand

Integration

Assembly Papers: Circular Economy - Food, and Plastics

Other STAP Assembly Papers



Integration

Assembly Papers: Circular Economy - Food, and Plastics

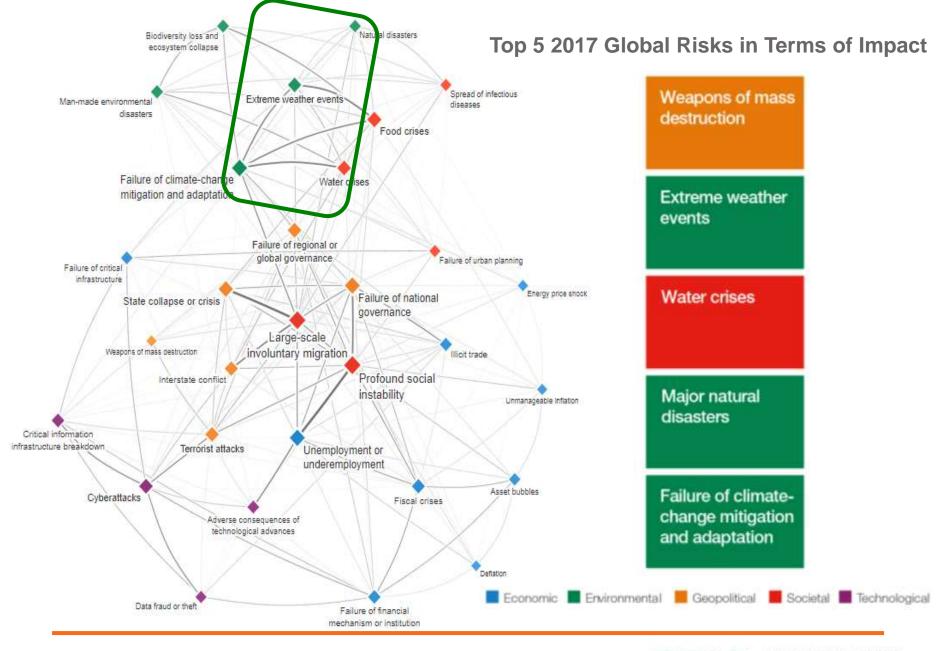
Other STAP Assembly Papers



## Integration in the GEF

- 1992: GEF established to support biodiversity, climate change, and desertification conventions
- 2000: OP 12 combined LD, BD, IW and CC
- 2002: multifocal area portfolio initiated
- 2014: Integrated Approach Pilot programs
- 2015: SDGs







## **Benefits of System Integration**

- Understanding complexity
- Addressing multiple issues simultaneously
- Assessing feasibility of multiple goals



- Identifying policies and strategies
- Maximizing gains and minimizing costs

Source: https://www.thegef.org/council-meeting-documents/draft-stap-working-paper-why-scientific-community-moving-toward



## **OPS6: Examples of focal area integration**

- Mainstreaming biodiversity associated with better outcomes & evaluations better ratings
- International waters a catalyst for integration emphasizing learning & knowledge
- Land degradation delivers GEBs in multiple FAs, and socio-economic benefits

Source: http://www.gefieo.org/evaluations/ops6-gef-changing-environmental-finance-landscape



#### **Essential characteristics of good MFA projects**

- The project objective would not be achievable by addressing a single focal area.
- There are linkages and drivers of environmental degradation common to several focal areas.
- Integration maximizes global environmental benefits and minimizes trade-offs.
- A theory of change allows robust monitoring and assessment of outputs and specific indicators.

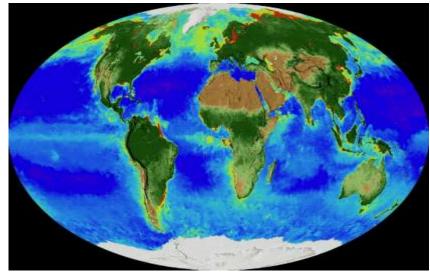
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## The GEF has two unique assets

- 1. Scale
- 2. Access to Governments





Credits: NASA

## Integration: IAPs







Good Growth Partnership: Cultivating Sustainability in the Global Supply Chain

Sustainable
Cities –
Harnessing
Local Action
for Global
Commons

Fostering
Sustainability
and Resilience
for Food
Security in
Sub-Saharan
Africa

## 6 key elements for successful integration

- 1. Apply systems thinking
- 2. Articulate a theory of change
- 3. Engage stakeholders
- 4. Assess resilience



6. Develop good quality KM and learning



Source: https://www.thegef.org/council-meeting-documents/draft-stap-working-paper-why-scientific-community-moving-toward



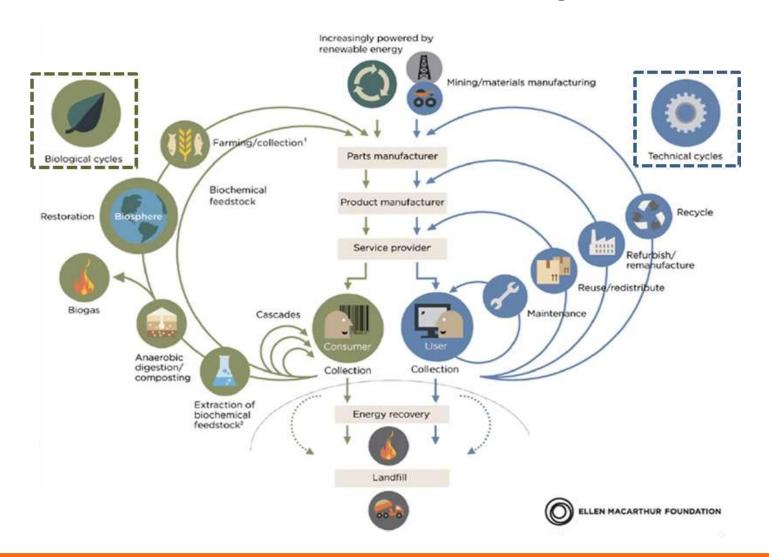
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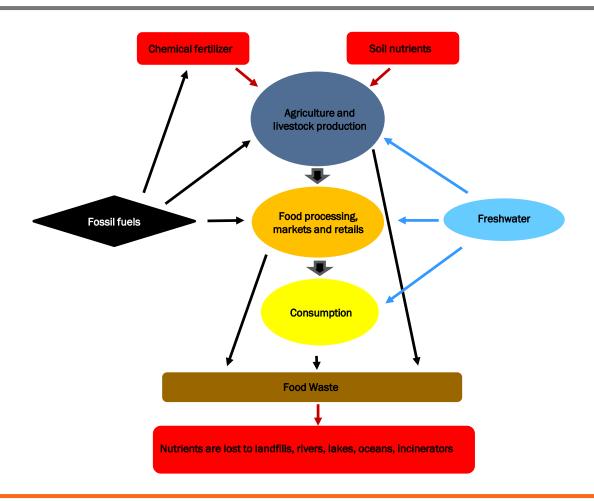


## **Circular Economy**





## **Agri-food Systems**



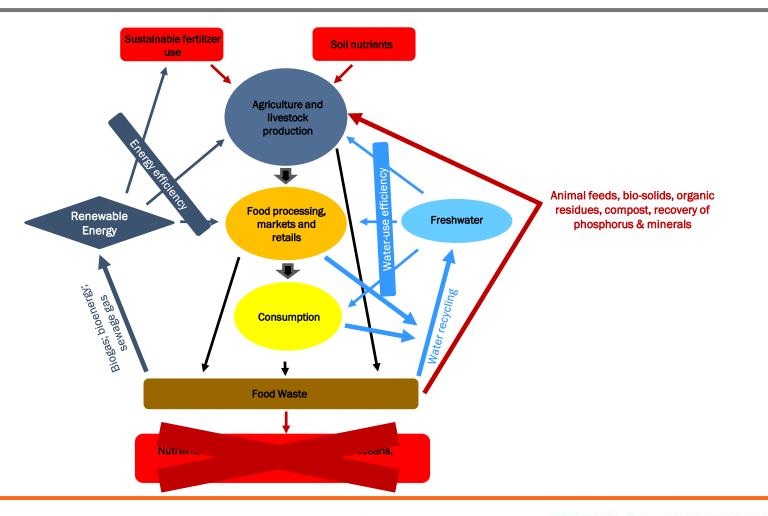


## What is the issue?

- 1/3 of total end-use energy
- 1/4 of total GHG emissions
- 2/3 of terrestrial biodiversity loss
- 1/3 of land degradation
- depletion of 2/3 of commercial fish stocks
- over-exploitation of 1/5 of the world's aquifers



## Agri-food Systems - more sustainable





## What is the solution?

- Closing the nutrient cycle
- Reducing competition for productive land
- Reducing chemical fertilizers
- Reducing freshwater use
- Maintaining sustainable agro-ecological systems
- Deploying low-carbon energy, waste for energy
- Producing food within the urban landscape



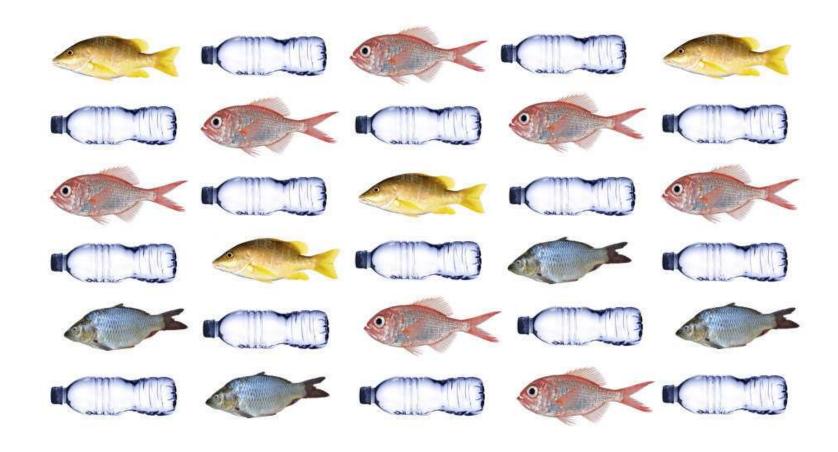
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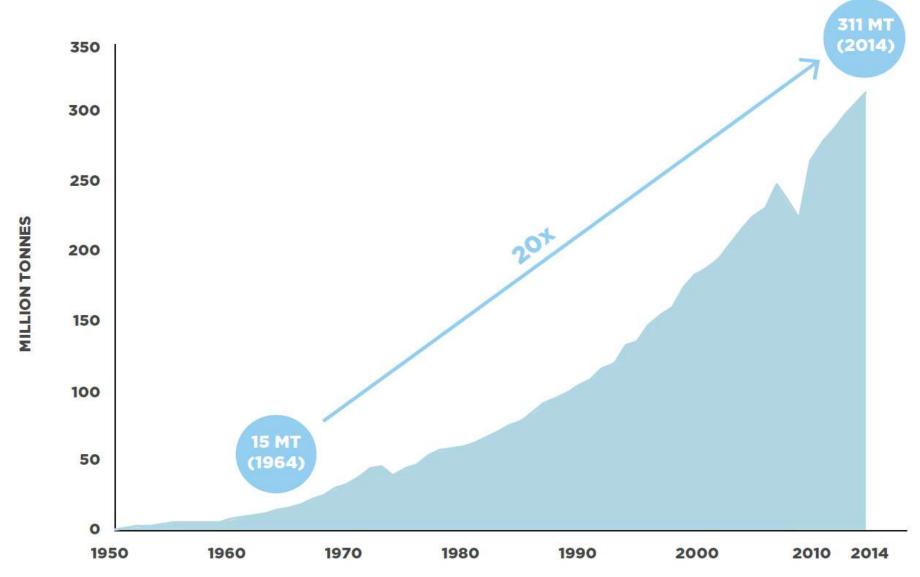
Assembly Papers: Circular Economy - Food, and **Plastics** 

Other STAP Assembly Papers



## **Plastics**





Source: World Economic Forum: http://www3.weforum.org/docs/WEF\_The\_New\_Plastics\_Economy.pdf



## What is the issue?

- Plastic production increased 20x 1964 -2015
- Expected to double in 20 yrs; quadruple 2050
- Some contain toxic chemicals (POPs)
- Stay in environment for up to 500 yrs
- End up in the food chain
- Projected to use 1/5 of oil by 2050







## What is the solution?

Design for longevity, reusability, waste prevention

- Encourage production from biodegradable materials
- Use waste as a resource
- Recover for reintroduction back to the economy
- Provide incentives for recycling and reuse
- Support innovative research
- Create a supportive policy environment



Integration

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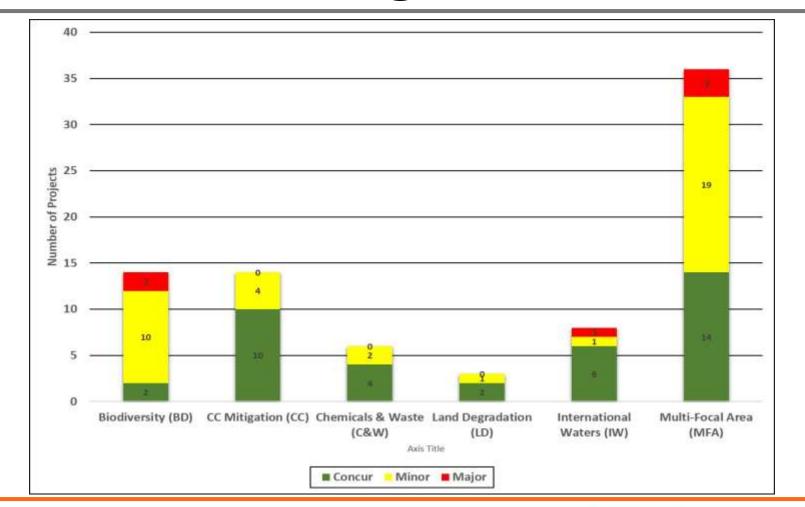
## 2018 STAP Assembly Papers

#### Five other papers for GEF Assembly:

- 1. Environmental Security
- 2. Novel Entities
- 3. Innovation
- 4. Local Commons/Global Benefits
- 5. Key interactions between MEAs and SDGs
- 6. Science of integrated approaches
- 7. Knowledge Management
- 8. Circular Economy: Food and Plastics



# Observations on the GEF Work Program





## **Observations from Work Program**

- 82 projects screened representing about \$500m.
- 6 majors (7%), slightly lower % than usual.
- Good projects: clearly described, with a good theory of change; demonstrate strong understanding of the social-ecological system; build on strong baselines; well-designed interventions; engage all stakeholders; and capture learning.
- Some projects would benefit from: a clearer logic; assumptions substantiated; clearly defined strategies to address key drivers; resilience and adaptive management.



## Questions?

