

"Shaun the Sheep" aired 2006-2016, and was broadcast in over 180 countries.

STAP Panel Members and Advisers



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International Waters



Ferenc Toth *Climate Change Adaptation*

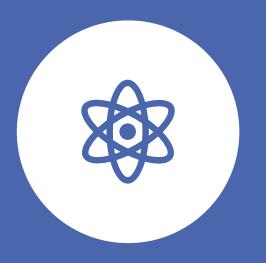
New science

Impact Programs

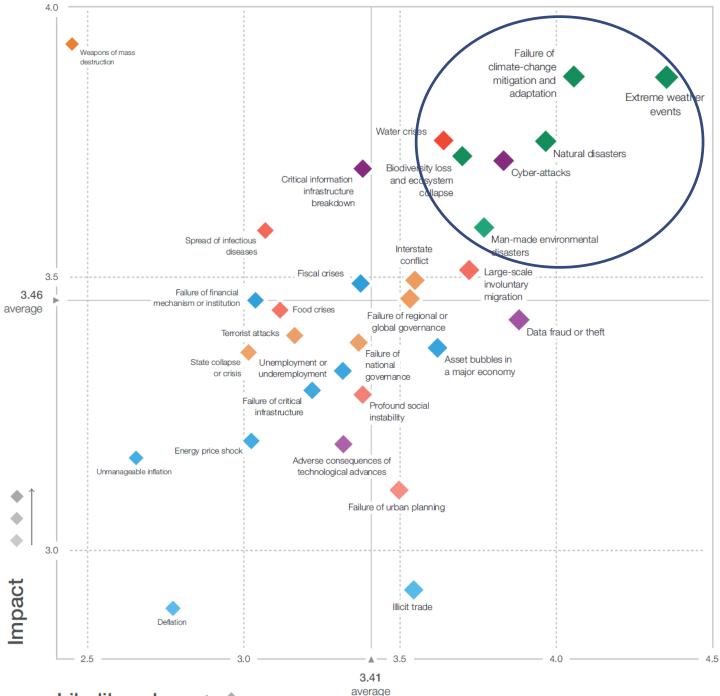
Four papers

STAP work program

Observations on GEF work program



NEW SCIENCE



The Global Risks Landscape 2019

IPBES: Key findings

1 million species at risk of extinction

 Key drivers: land/sea use change; exploitation; climate change; pollution, and invasive species

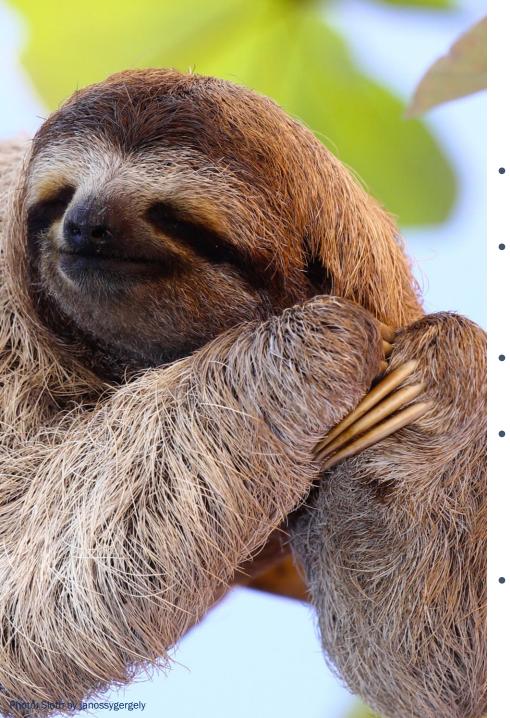
 As production of food, fiber, and energy increase, other services of nature (such as regulating climate) are decreasing

75% of land area and 66% of oceans significantly altered

• Indigenous Peoples and Local Communities important in the conservation and sustainable use of biodiversity



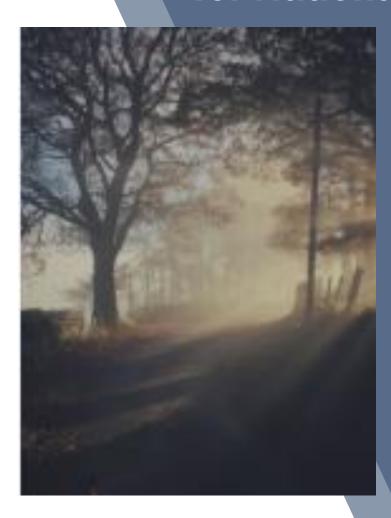




IPBES: Key findings

- Most of the Aichi Biodiversity Targets likely to be missed
- Continuing loss of biodiversity, coupled with climate change, threaten achieving most of the UN SDGs
- Business-as-usual scenarios show worsening loss of biodiversity
- Nature-based solutions for climate change can be beneficial for biodiversity (e.g., restoration with native species), but can be detrimental (large scale bioenergy replacing native vegetation)
- Transformative changes need inclusive governance systems, evolution of economic systems, multi-sectoral planning, incentives for sustainable production and consumption, etc.

IPCC: May 2019: Refinement to the 2006 Guidelines for National Greenhouse Gas Inventories



Mainly an update of the 2006 guidelines. Examples relevant to the GEF:

- calculation of soil carbon stock and storage under different management regimes, emission factors for rice cultivation
- methane emissions estimation from landfills at solid waste disposal sites
- methane, nitrous oxide and CO₂ from incineration and open burning of waste

The IPCC agreed to develop methodologies for short-lived climate forcers like black carbon and other air pollutants





IPCC: Climate Change and Land; Ocean and Cryosphere in a Changing Climate

August 2019: Climate Change and Land

• September 2019: Ocean and Cryosphere in a Changing Climate

GCA Commissioners met May 21; Next meeting July 9-10

GCA MESSAGE:

Adaptation is about integrating climate risk into growth and development It is about pursuing growth and development differently and better





GCA Products

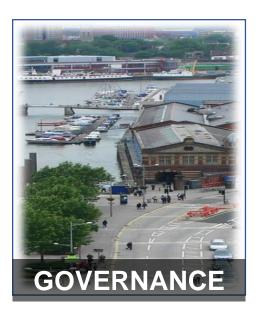
- 50 p. Synthesis (high-level document for policymakers); UNGA September 2019
- 150 p. Technical document, delivered at the UNFCCC COP, November 2019

Synergy with GEF directions:

 nature-based solutions, cities, water, food, and an increased focus on knowledge, Innovation, governance, and finance











Global Chemicals Outlook II (GCO-II)

Suggested GEF Actions



Support projects that address regulatory and institutional gaps



Promote the integrated approach in GEF investments



Increase engagement with the private sector



Invest in projects focused on the life cycle and circular economy



Photo: Camilo Bruno

6 STAP Criteria to promote innovation, integration, and transformation in the IPs

- Innovation
- Barriers to transformation
- Maximize GEBs, manage trade-offs, including climate risk
- Multi-stakeholder processes
- Theory of change
- Monitoring, evaluation, learning, and knowledge management

6 IP Criteria: innovation; and barriers

Innovation

- + All IPs identified innovations
- More types of innovation? How to scale? All scalable?

Barriers to transformation

- + Barriers usually described
- Implications for program design? Vested interest barriers?

6 IP Criteria: risks; and stakeholder engagement

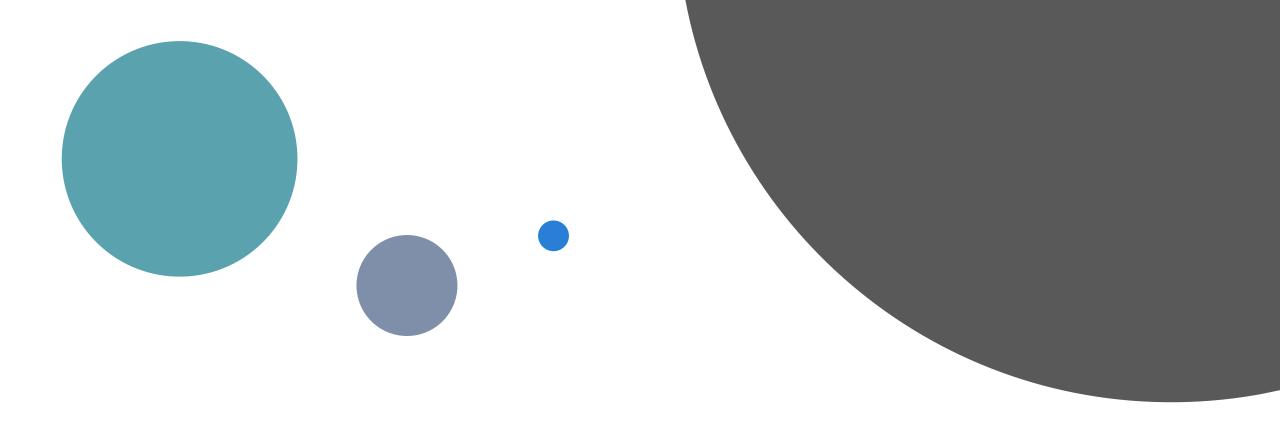
- Maximize GEBs, manage trade-offs, including climate risk
 - + Risks usually well-described
 - Explicitly addressed? How to manage trade-offs? Implications for design?
- Multi-stakeholder processes
 - + All had a strong emphasis on multi-stakeholder processes
 - Child projects engaged? Barriers to engagement?

6 IP Criteria: theory of change; and MEL/KM

Theory of Change

- + TOCs generally strong on goals
- Causal links clear? TOCs for value chains, child projects? Pathways identified? Assumptions spelt out?
- Monitoring, evaluation, learning, knowledge management
 - + Central element of all IPs
 - Metrics and indicators? How will learning support adaptive management? How to track M&E outcomes to KM?



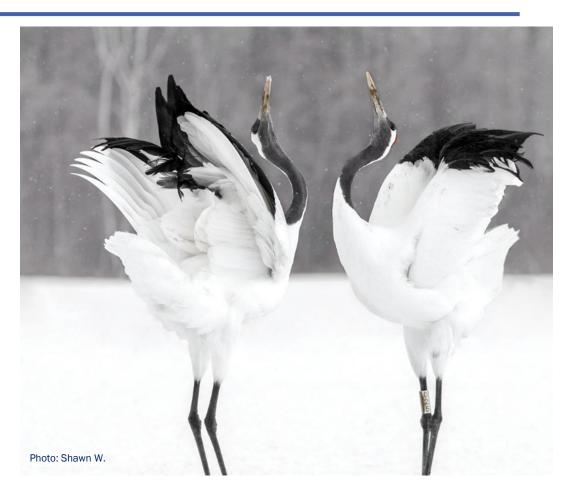


FOUR PAPERS

Durability
Climate risk screening
Local commons
Land degradation neutrality

Achieving More Enduring Outcomes From GEF Investments

- A request from the GEF secretariat
- Build on STAP's findings on 'integration' and climate risk screening.
- A comprehensive analysis of the literature is on the STAP website.

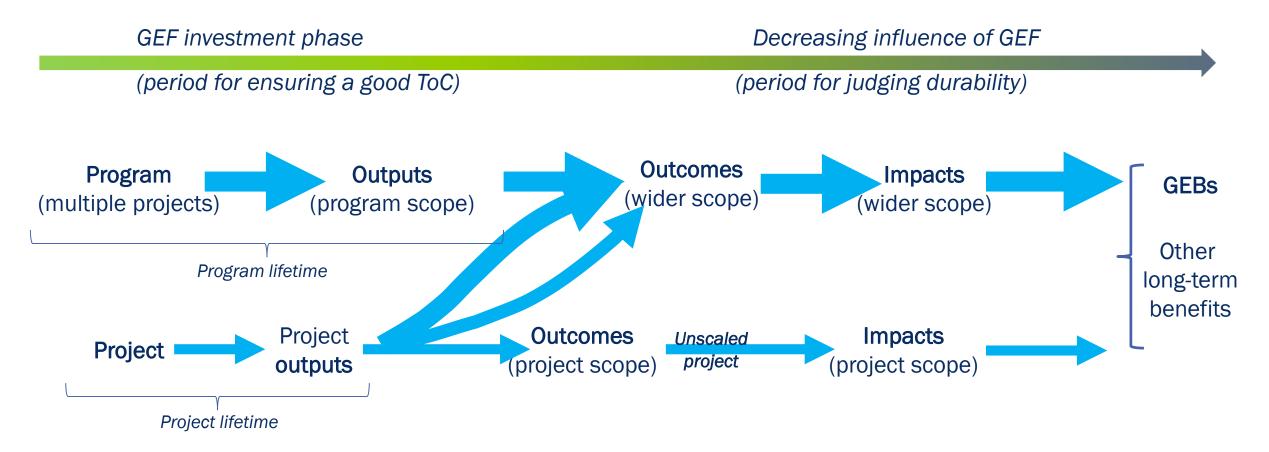


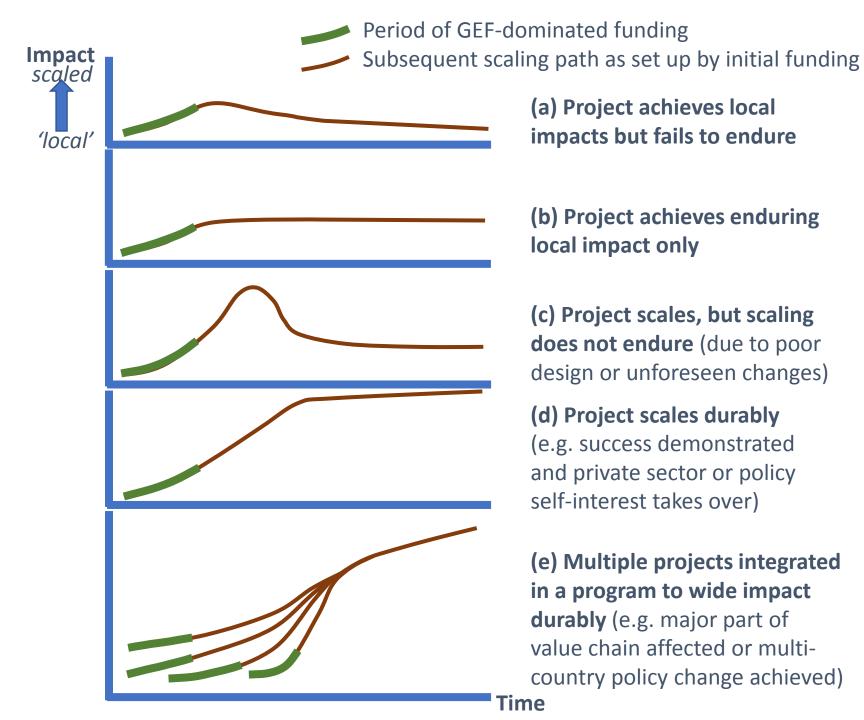
http://www.stapgef.org/achieving-more-enduring-outcomes-gef-investment

Why a focus on Durability is warranted

- Enduring impacts need to persist in the face of long-term external changes, e.g. climate
- Transformational change does not necessary imply greater durability
- Larger investments do not necessarily guarantee transformational success
- Transformation needs to be embedded in planning from the outset
- Systems change for transformation requires innovation
- Greater innovation brings the likelihood of higher failure rates

Relationship between some terms



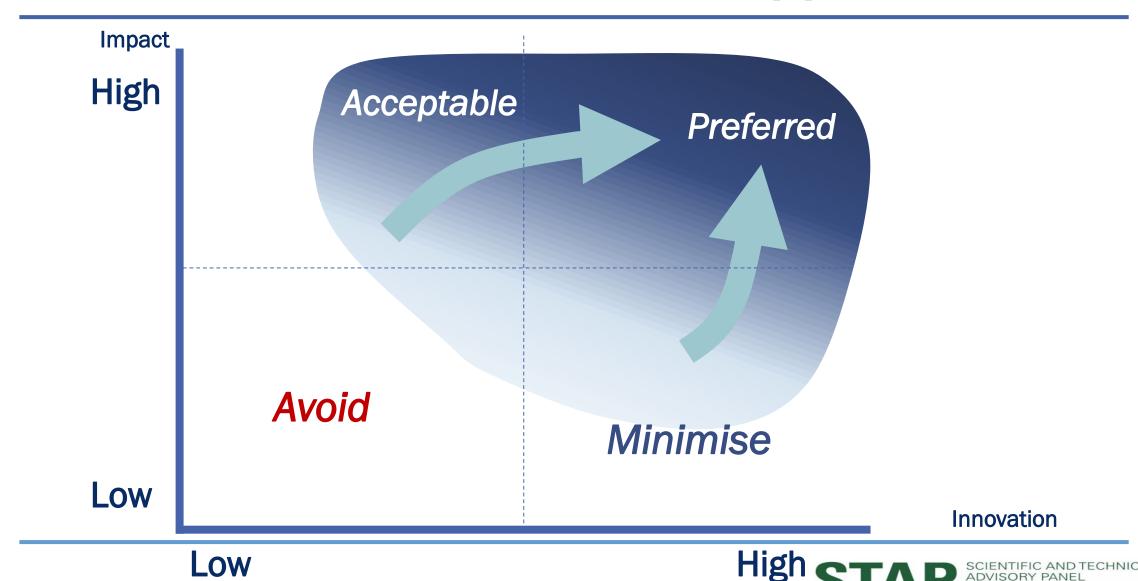


From outputs to

enduring impacts

and delivery of GEBs

Council needs to decide on its appetite for risk



STAP's recommendations on Durability

- 1. Council needs to articulate an explicit risk appetite
- 2. Apply systems thinking
- 3. Develop a clear rationale and robust theory of change
- 4. Choose the innovations
- 5. Analyze the barriers to, and enablers of, transformation
- 6. Maximize GEBs, manage trade-offs, including climate risk
- 7. Develop multi-stakeholder platforms
- 8. Establish a monitoring, evaluation, learning, and knowledge management process



STAP guidance on climate risk screening

- The importance of addressing climate risk was recognized by the GEF Council in 2010
- In December 2018, the Council approved a new safeguard policy which said that, "short- and long-term risks posed by climate change ...[should be]... considered systematically in screening, assessment and planning processes..."
- This guidance builds on climate questions in STAP's screening guidelines (June 2018)



Climate risk screening: review of GEF agency methods

STAP review indicates that risk screening is variable across GEF agencies

		Criteria	
Agency	Identifies climate risks	Considers how risks might affect project's objectives	Recommends action to ameliorate climate risk
1			
2			
3			
4			
5			
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7			
8			
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10			
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Climate risk screening: 4 steps

Four steps in a climate risk assessment (IPCC):

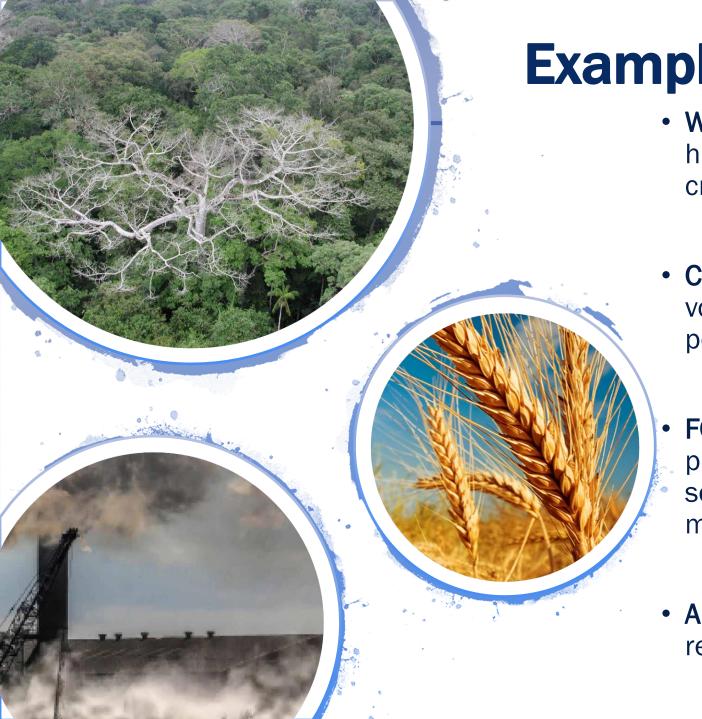
Hazard Identification

Evalaution of
Vulnerability
and Exposure

Risk Rating
Management

N.B. Assessing climate risk is an integral part of designing a project, not a risk treatment post-design, after which options are likely to have narrowed





Examples of climate risks

 Water: ranges of marine organisms shifting to higher latitudes (up to 40 km per year) creating novel ecosystems

• Chemicals: +1°C estimated to increase the volatility of POPs by 10-15%, e.g. polychlorinated biphenyls (PCBs)

 FOLUR: significant reductions in global production of wheat, rice, maize, and soybeans, for each 1°C increase in global mean temperature

• Amazon: global warming of 3° – 4°C may result in a significant dieback of the forest

Climate risk screening: next steps

- Environmental and social safeguards: June and December 2019 GEF
 Secretariat will assess agencies against new policy
- STAP will convene a workshop with the GEF Secretariat and agencies to promote learning, compare screening efforts, and discuss best practices
- STAP will be reporting on climate risk screening for each work program.

Local commons for global benefits: indigenous and communitybased management of wild species, forests and drylands

- A discussion at the International Dialogue on the Global Commons in 2016
- Based on an extensive review of literature related to outcomes of community-based natural resource management and environmental outcomes



Local commons for global benefits

- A large portion of the Earth's land area is communally managed or used by local communities
- Governance is often weak
- Lack of legally recognized tenure
- De facto "open access" areas susceptible to destruction and degradation
- Strengthening community rights to manage land and resources is a promising approach



STAP's recommendations

- Assess the presence of IPLCs and current rights to use and manage land resources
- Problem analysis should pay particular attention to tenure issues driving negative environmental outcomes
- Consider how shifting rights, incentives and capacity could be transformative
- Some fundamental design characteristics including: encourage secure land and resolve tenure for IPLCs; enable communities to gain from sustainable use of wild resources; and, support inclusive, equitable and effective community governance



Land Degradation Neutrality:

 Fundamental aim for LDN is to ensure no net loss of healthy and productive land

 LDN will be achieved through a combination of avoid, reduce, reverse land degradation

122 countries have committed to LDN

GEF supporting countries on LDN

Offer practical guidance for LDN projects

Guidelines at UNCCD COP 14 Delhi

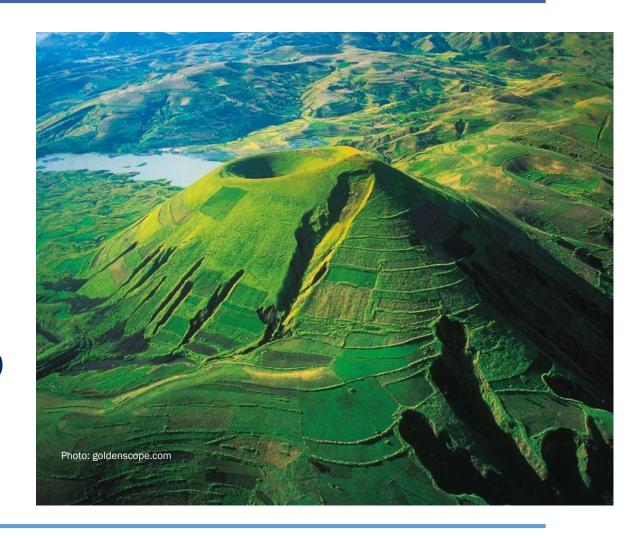




Land Degradation Neutrality: draft guidelines

Support of LDN in the land degradation focal area and the IPs for FOLUR and Drylands. STAP agreed with the GEF secretariat that guidelines should be developed

Guidelines will be presented at the UNCCD COP 14th in September 2019

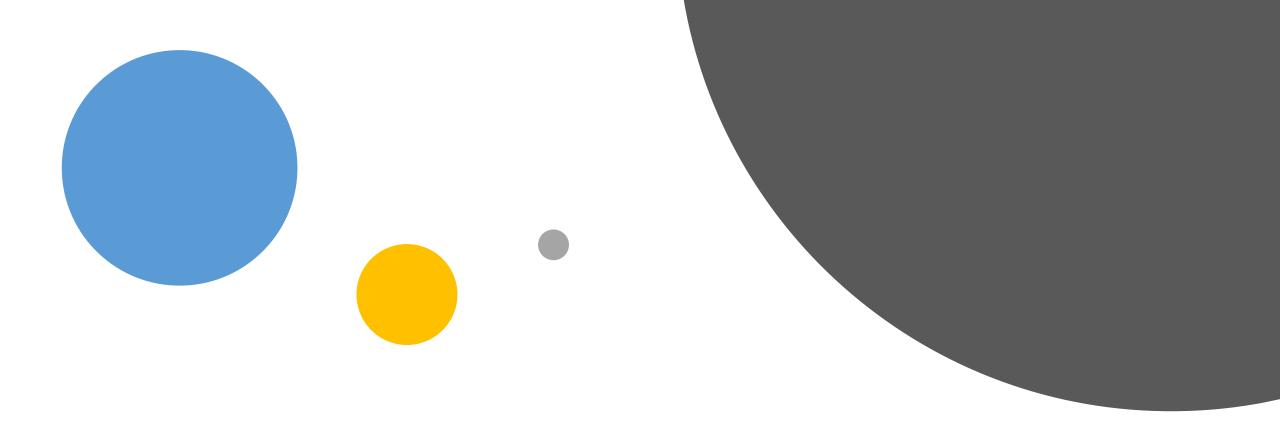


STAP's work program



STAP's work program

- Land degradation neutrality guidelines: September 2019
- Remote sensing
- Climate risk screening workshop
- Blockchain workshop
- Multi-stakeholder dialogues
- Theory of change
- Implications of the Global Commission on Adaptation for the GEF



Observations on the GEF's work program

Observations on the June work program

On climate risk:

- Some projects contained preliminary climate risk screening
- Some projects did not consider how future climate change would affect project objectives or durability
- Some projects considered climate risk only in terms of hazards or extreme events
- Some identified climate risks, but did not present ameliorative measures
- In LDCF/SCCF projects, there is scope to build adaptive (natural resource and livelihood investments), absorptive (disaster risk management), and transformative (improved governance and enabling conditions) capacity

