





Scientific and Technical Advisory Panel Report to the 46th Meeting of the GEF Council

Rosina Bierbaum

Chair, GEF-STAP



Who is STAP?



Anand Patwardhan, Adaptation



Sandra Diaz, Biodiversity



Ralph Sims, CC Mitigation



Jakob Granit, International Waters



Rosina Bierbaum, Chair



Annette Cowie, Land Degradation



Henk Bouman, Ricardo Barra, Chemicals & Waste



Michael Stocking, Special Adviser



Tom Lovejoy, Special Adviser



Outline of the Report

- STAP Work Programme activities and products
- OPS-5 STAP Evaluation and self-reflection
- ■STAP's role in the GEF-6



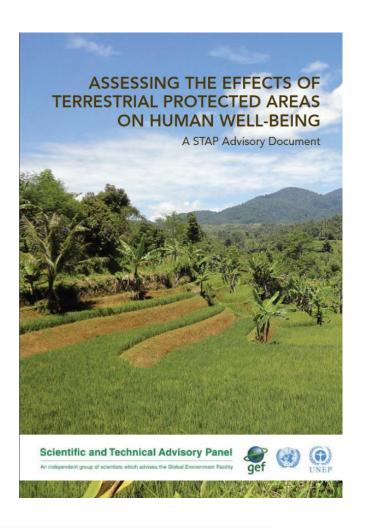
STAP Work Programme Activities and Products







Assessing the Effects of Terrestrial Protected Areas on Human Well-Being



PAs can have positive, neutral, or even negative social effectsBUT...

- The evidence base is insufficient to directly inform policy
- GEF projects can fill this gap . . .



Mainstreaming Biodiversity in Practice

Field experience



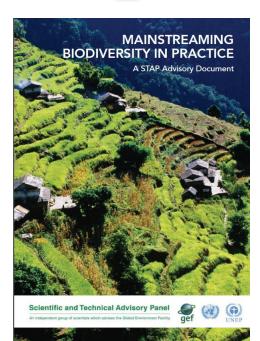
Expert workshop





Recommendations for future mainstreaming





Science



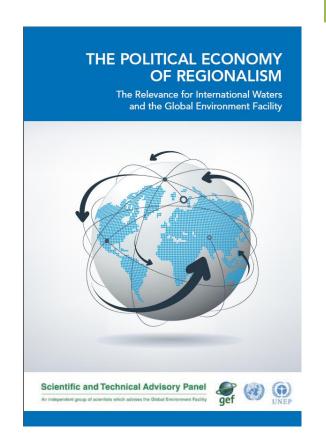
Literature review





The Political Economy of Regionalism

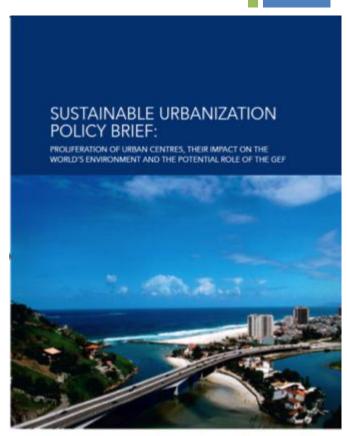
- When addressing transboundary water management systems, it is important to...
 - Synchronize national and regional incentives
 - Assess existing regional institutions and frameworks
 - Consider social and economic contexts



Preliminary thinking on Sustainable Urbanization Opportunities

Provides preliminary thought to improve the implementation of the IAP:

- Refining its objectives and outcomes
- Applying SLM in an urban context
- Seeking opportunities within the City Life Cycle







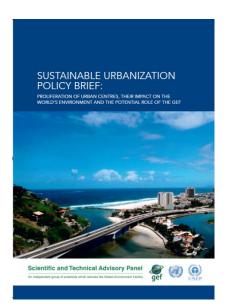




+ Other Activities

- Roundtable discussion on mainstreaming adaptation
- GEF CEO Innovation Forum on Information Communication Technology (ICT)
- Marine Spatial Planning in Practice
- Improving understanding of mercury in the environment
- STAP retreat to develop Assembly Report





Upcoming/Ongoing

- Black carbon
- Biofuels for climate change mitigation
- More on Sustainable urbanization
- The scientific basis for measuring, monitoring, and evaluating adaptation
- Agroecosystem resilience





+ OPS-5 STAP Evaluation and self-reflection

+ Key Findings of OPS-5's Evaluation of STAP

- 1. There are opportunities to improve the flow of knowledge to and from the STAP
- 2. How can science be enhanced in the GEF?
- As demands increase, we need to prioritize







STAP's current role

- Assist in the development of GEF strategies
 - Panel members played an active role in the TAG's
- Advise on cross-cutting thematic areas
 - Products such as the STAP report to the GEF Assembly
- Scope emerging global environmental issues
 - Reports on topics such as marine debris
- Strengthen scientific & technical basis of GEF programming
 - Screening of PIF's, and on-going engagement through participation on the focal area task forces





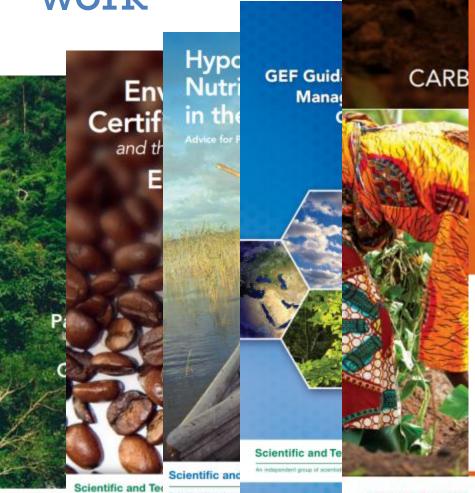
STAP's reflections on its role in the GEF

- For GEF-4 and GEF-5 the majority of STAP's programmatic activities addressed specific focal area requests
- > STAP only occasionally tackled higher-level strategic issues facing the GEF partnership.
- > Screening projects took the lion's share of STAP resources (both Secretariat and Panel members).



Examples of focal area specific

work



Climate Change:

A Scientific Assessment for the GEF









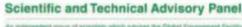




A STAP INFORMATION DOCUMENT NOVEMBER 2012







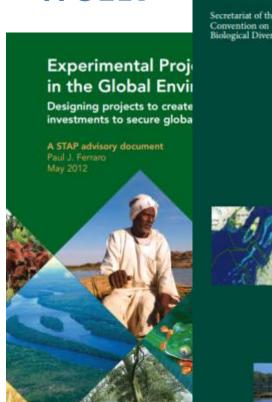






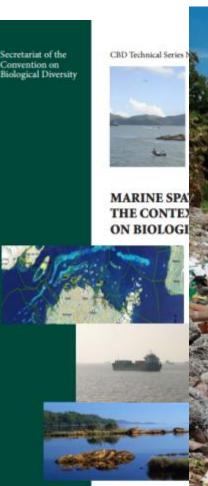
Examples of higher-level strategic

work

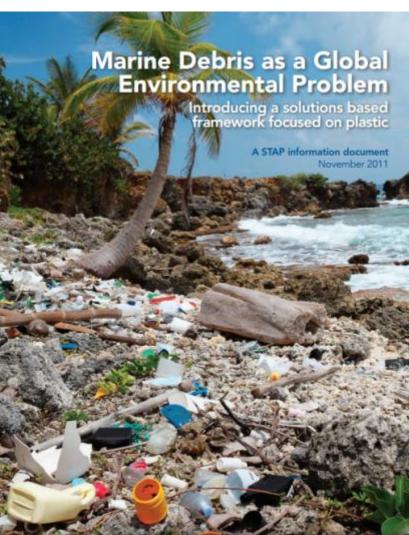




ndent group of scientists which advises the Global



UNEP







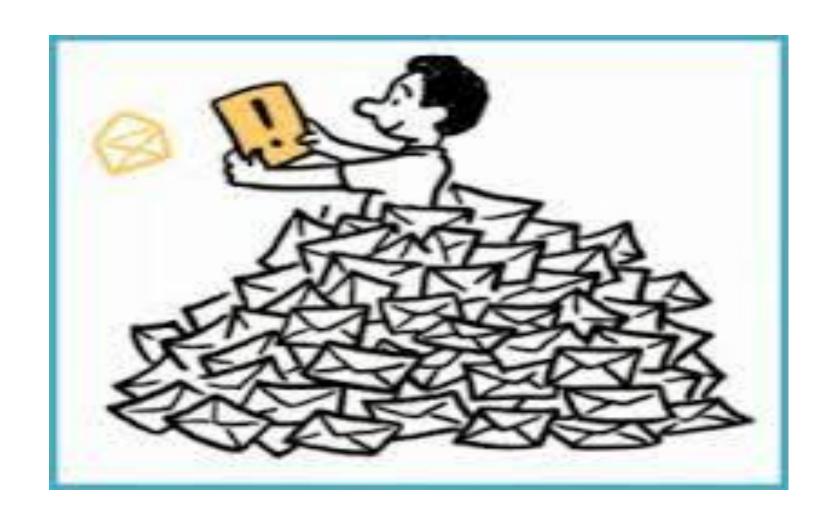






STAP's Role in GEF-6









Strengthening the efficiency and effectiveness of STAP's review in GEF-6

Currently: All full sized projects are reviewed by STAP.

However: Not all projects benefit equally from a STAP review.

Therefore: We are thinking about the possibility of a selective review process.



We would need to have selection criteria – some possibilities for consideration....

- Novel intervention approaches/technologies
- New thematic area, strategic objective
- Integrated Approaches
- Complex, innovative & integrated projects – multiple focal area, multitrust, or programmatic approaches



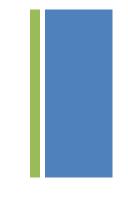


We would absolutely want the partners engaged in the selection process

- GEF (Agencies and Secretariat) identify projects as the work program is assembled
- STAP identifies projects that are scientific/technically challenging and not identified by the GEF
- Council exercises its prerogative to identify projects







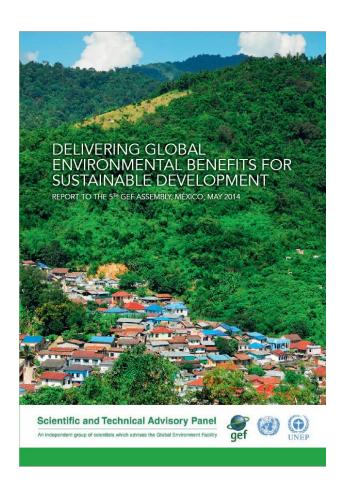
Next step:

Establish a working group to think about selection criteria and process for presentation at the next Council Meeting in November





The STAP Report to the GEF Assembly



- Environmental degradation must be tackled in a more integrated and holistic way
- Sustainable development should be at the core of GEF interventions
- The GEF should continue to be catalytic and innovative while seeking to effect permanent and transformational change





Manage information and knowledge

- Experimental design
- Targeted research
- Systematic scientific reviews
- Efficiency of resource use

FOR EXAMPLE:

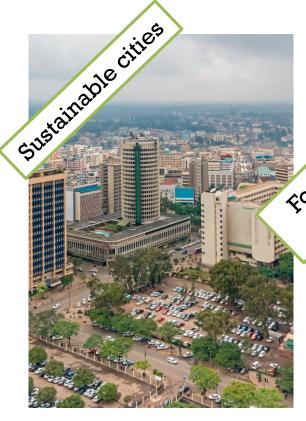
We don't know if Protected Areas enhance livelihoods







Integrated approaches







- + Perhaps some future IAPs?
 Climate resilience
 - As risk management
 - As a co-benefit
 - Integrated into a Multiple Benefits framework





+ STAP can help: Sustainable cities

STAP panel members have strong science networks.

STAP could:

- review work undertaken to date (APEC low-carbon model towns; ICLEI; Covenant of Mayors; C 40; etc);
- provide case studies of current sustainable city activities to illustrate what might be feasible;
- provide key indicators that will enable a city to monitor a more sustainable growth pathway
- with regard to water supply and consumption, waste treatment, air quality, sustainable energy systems, urban design, freight and passenger transport options, land management, chemical use, biodiversity, etc.
- An excellent model for a case study could be the Development Index System produced by Yujiapu Financial District.

Possible indicators for assessing Sustainable Cities.....

- Carbon emissions/person in buildings
- Low-carbon transport share of total journeys
- Renewable energy shares of heat and power supply
- · Ratio of accredited "green buildings"
- Green technology procurement by public utilities
- Outdoor air quality (PM 2.5, SO₂, NO_x levels)
- Carbon emission intensity / GDP
- Green space out of total land area
- Daily water consumption/person
- Waste treatment system efficiency
- Underground space utilisation



Agro-ecosystem resilience

Relevant to:

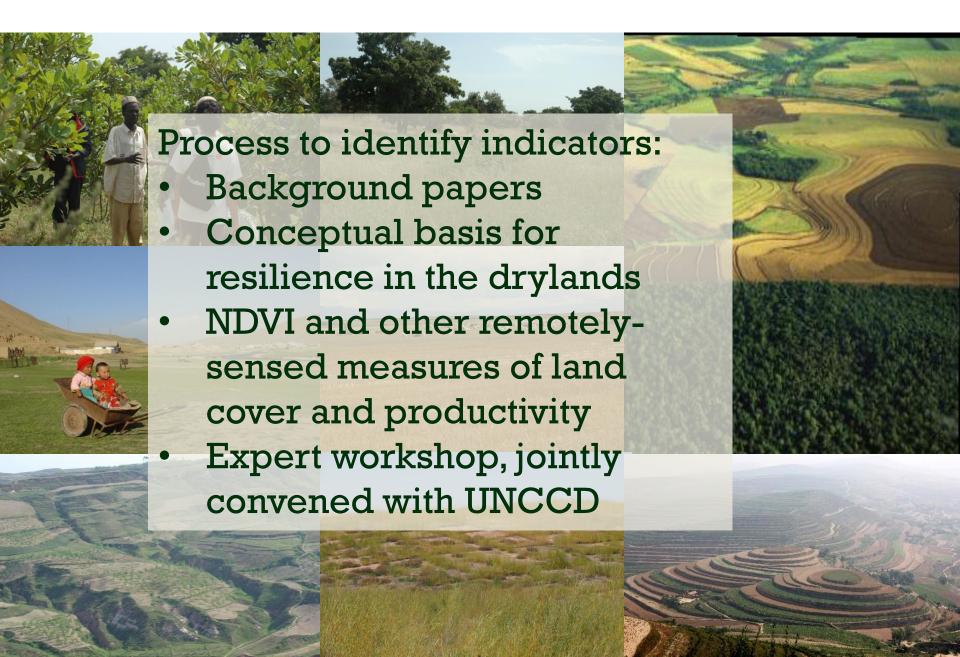
- Climate change adaptation
- Biodiversity conservation
- Managing land degradation
- Food security
- Sustaining livelihoods of the rural poor

Relevant at many scales:

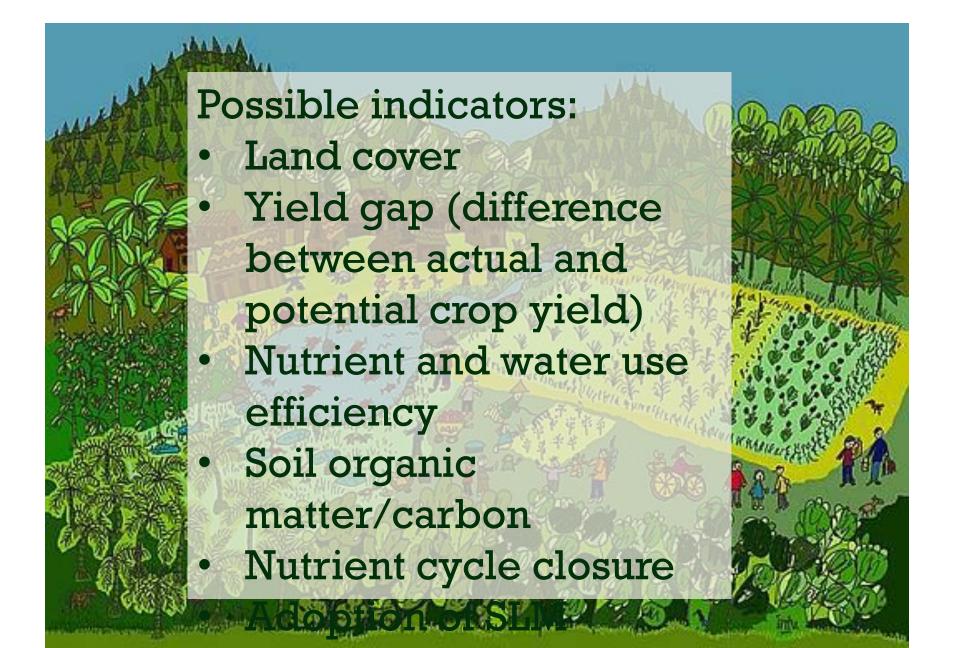
- GEF project
- GEF program (LD RBM, Food Security IAP)
- National (Conventions, SDGs)



Sustainable, resilient agro-ecosystems



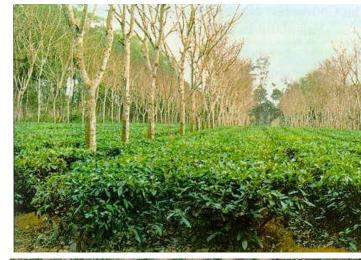
Sustainable, resilient agro-ecosystems

















Questions and comments welcomed



Rosina Bierbaum

Chair

GEF's Scientific and Technical Advisory Panel

www.stapGEF.org

