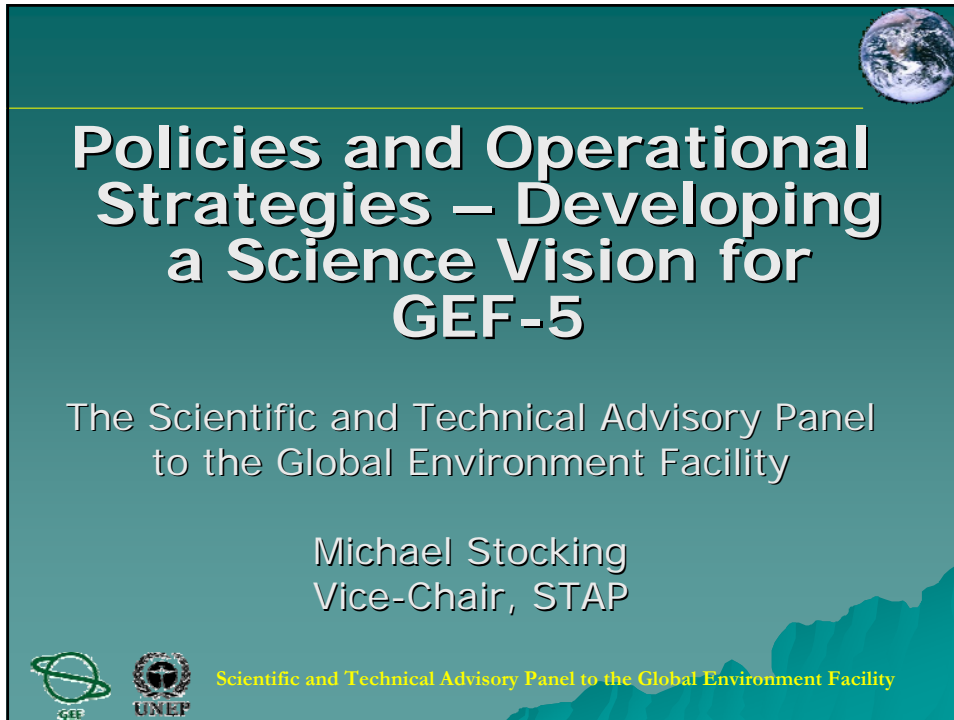


Policies and Operational Strategies – developing a science vision for GEF-5



The cover features a teal background with a globe in the top right corner. The title is in large white font. Below the title, the text 'The Scientific and Technical Advisory Panel to the Global Environment Facility' is centered. The author's name, 'Michael Stocking, Vice-Chair, STAP', is also centered. At the bottom left are the GEF and UNEP logos. At the bottom right, the text 'Scientific and Technical Advisory Panel to the Global Environment Facility' is written in yellow.

Policies and Operational Strategies – Developing a Science Vision for GEF-5

The Scientific and Technical Advisory Panel
to the Global Environment Facility

Michael Stocking
Vice-Chair, STAP

Scientific and Technical Advisory Panel to the Global Environment Facility



The slide features a teal background with stacks of red, orange, and grey coins in the top right corner and a stack of green banknotes in the bottom left corner. The title is in large white font. Below the title, a bullet point describes the funding's purpose. The text 'a project with national benefits' and 'global environmental benefits' are underlined. At the bottom left are the GEF and UNEP logos. At the bottom right, the text 'Scientific and Technical Advisory Panel to the Global Environment Facility' is written in yellow.


GEF provides new and additional funding:

- > to meet the additional costs of transforming
a project with national benefits
into one with
global environmental benefits

Scientific and Technical Advisory Panel to the Global Environment Facility

Policies and Operational Strategies – developing a science vision for GEF-5

Budget




GEF-1: 1994 - 1997 \$2 billion

GEF-2: 1998 - 2001 \$2,75 billion

GEF-3: 2002 - 2006 \$3 billion


GEF-4: 2006-2010 \$ 3 billion

GEF-5: 2010-2014 \$??




Scientific and Technical Advisory Panel to the Global Environment Facility

GEF's Science Panel



The Scientific and Technical Advisory Panel (STAP) is established by the United Nations Environment Programme (UNEP) as an advisory body to the GEF.


The GEF Instrument, revised in November 2007, sets out the basis for the work of the STAP



From the GEF Instrument:
Scientific and Technical Advisory Panel (STAP)

24. UNEP shall establish, in consultation with UNDP and the World Bank and on the basis of guidelines and criteria established by the Council, the Scientific and Technical Advisory Panel (STAP) as an advisory body to the Facility.

UNEP shall provide the STAP's Secretariat and shall operate as the liaison between the Facility and the STAP.



Scientific and Technical Advisory Panel to the Global Environment Facility

Policies and Operational Strategies – developing a science vision for GEF-5

Role

The Panel of appointed experts, supported by UNEP, is an independent body which advises the GEF Council.

STAP's advisory role encompasses strategic and operational matters in partnership with the GEF Agencies and GEF Secretariat.



Source: Country Support Program website



Scientific and Technical Advisory Panel to the Global Environment Facility

Cooperation

STAP interacts in a complementary manner with other relevant scientific and technical bodies, particularly with the subsidiary bodies of:



- the Convention on Biological Diversity,
- the UN Framework Convention on Climate Change,
- the Convention to Combat Desertification
- the Stockholm Convention on Persistent Organic Pollutants, and the Montreal Protocol on Substances that Deplete the Ozone Layer



Scientific and Technical Advisory Panel to the Global Environment Facility

Policies and Operational Strategies – developing a science vision for GEF-5

Expertise



- ◆ Each STAP member is an expert in a GEF focal area –
 - Biodiversity
 - Climate change (mitigation & adaptation)
 - International Waters
 - Persistent Organic Pollutants
 - Ozone Depletion
 - Land Degradation
- ◆ Each member is the principal advisor to the GEF in his/her area of expertise.

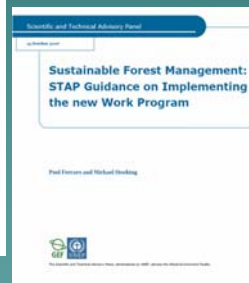
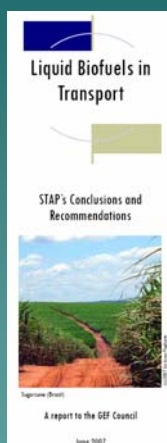


Scientific and Technical Advisory Panel to the Global Environment Facility

Expertise



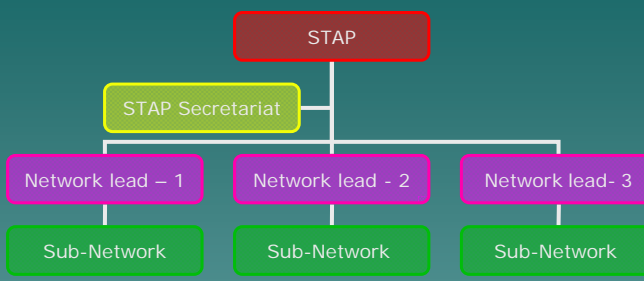
Collectively, STAP advises on cross-cutting thematic areas, such as adaptation to climate change, sustainable forest management, and chemicals management.



Scientific and Technical Advisory Panel to the Global Environment Facility

Policies and Operational Strategies – developing a science vision for GEF-5



Mode of delivery



```


graph TD
    STAP[STAP] --- Secretariat[STAP Secretariat]
    STAP --- NL1[Network lead - 1]
    STAP --- NL2[Network lead - 2]
    STAP --- NL3[Network lead - 3]
    NL1 --- SN1[Sub-Network]
    NL2 --- SN2[Sub-Network]
    NL3 --- SN3[Sub-Network]
  
```

- ◆ STAP members work through scientific networks and direct their expertise to assist the GEF
- ◆ STAP
 - Defines the work
 - Peer-reviews the work
 - Acts as the link between the network (s) and the GEF
 - Delivers the advice to the GEF/Council




 Scientific and Technical Advisory Panel to the Global Environment Facility

The Panel


Present composition – until end June 2008




Yolanda Kakabadse




Michael Stocking




N.H. Ravindranath (Ravi)



Meryl Williams





Paul Ferraro



Anthony Nyong

Panel Members of STAP - Lead advisors to the GEF on science and technology



 Scientific and Technical Advisory Panel to the Global Environment Facility

Policies and Operational Strategies – developing a science vision for GEF-5

Panel responsibilities



Yolanda Kakabadse, Chair + lead on **Cross-Cutting**,
Ecuador

Paul Ferraro, **Biodiversity** –Georgia State University,
U.S.A.

N.H. Ravindranath, **Climate Change** (mitigation) – Indian
Institute of Science, India

Anthony Nyong, **Climate Change** (adaptation),
International Development Research Center, Nigeria

Meryl Williams, **International Waters**, former Director of
World Fish Center (CGIAR), Australia

Michael Stocking, **Land Degradation**, University of East
Anglia, UK



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Project Cycle



- ◆ STAP's work is more upstream – screens every CEO approved project concept to increase strategic impact of GEF
- ◆ STAP to analyze each work program to identify scientific gaps and the need for innovation
- ◆ STAP suggests improved attention in GEF's work program to:
 - Baselines
 - Global environment benefits
 - Evidence base or scientific logic



Scientific and Technical Advisory Panel to the Global Environment Facility

Policies and Operational Strategies – developing a science vision for GEF-5

Science stock-take for GEF-4

Purpose was to:

- ◆ Examine the state of science within the current phase of the GEF
- ◆ Opportunities and gaps arising
- ◆ Issues to take forward to increase the impact of the GEF



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Science stock-take for GEF-4

Biodiversity

- ◆ Challenge of turning ecosystem framework into an operational approach for Global Environmental Benefits
- ◆ Protected area approaches based on strong science



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Policies and Operational Strategies – developing a science vision for GEF-5

Science stock-take for GEF-4

Climate Change

- ◆ Opportunities to explore the potential synergies between adaptation and mitigation
- ◆ GEF's influence in market transformation in energy efficiency based on sound and appropriate science



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Science stock-take for GEF-4

- ◆ Risks and mitigation measures need to be more informative (Standard statements on risks, technologies, country-specific)
- ◆ Supplementing the avoided CO₂ metric with a more socially relevant measure for adaptation
- ◆ How can technologies be opened to developing countries?



Scientific and Technical Advisory Panel to the Global Environment Facility

Policies and Operational Strategies – developing a science vision for GEF-5

Towards a Science Vision

- ◆ With its GEF partners, STAP looked at some of the major science and technology drivers that are likely to influence the development of the strategies for the Fifth phase of the GEF
- ◆ A selection of the emerging issues that will drive a Science Vision are presented



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Emerging issues for GEF-5

Cross-cutting

- ◆ Prioritize cross-cutting issues
- ◆ Synergies between climate and NRM (both NRM effect on climate and climate effect on NRM)





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Policies and Operational Strategies – developing a science vision for GEF-5

Emerging issues for GEF-5

Climate Change

- ◆ IPCC and Bali Action Plan provide guidance for innovation in GEF-5: e.g. integration of mitigation and adaptation
- ◆ Technology transfer in adaptation and mitigation





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Emerging issues for GEF-5

Climate Change

- ◆ Differentiation of GEF climate strategies according to regional needs – on a scientific basis
- ◆ Climate proofing the GEF portfolios

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Policies and Operational Strategies – developing a science vision for GEF-5

Emerging issues for GEF-5

Land degradation

- ◆ Stronger science for assessment and measurement of land degradation indicators.



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Policies and Operational Strategies

To be based on

- ◆ Sound science
- ◆ A knowledge of the drivers
- ◆ The potential for synergies – environmental and developmental
- ◆ A stakeholder analysis – who is affected? How? Trade-offs?
- ◆ Cost-efficiency and effectiveness
- ◆ Global benefits



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