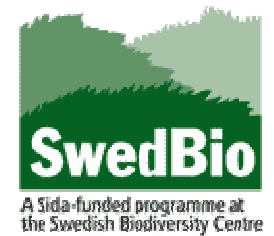


Swedish International Biodiversity Programme (SwedBio)

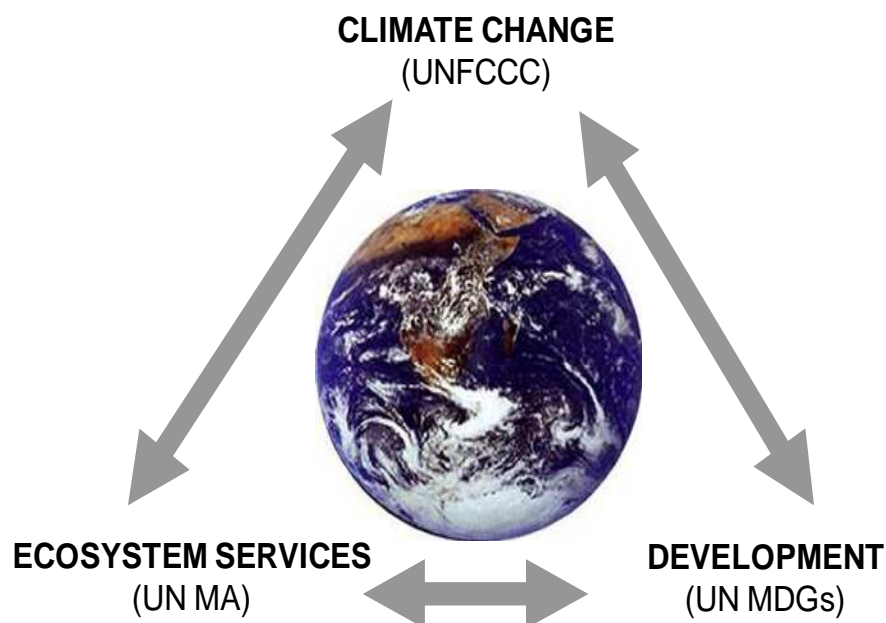
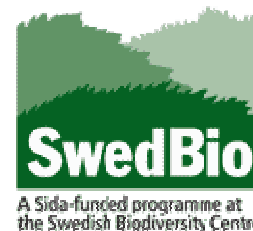
Maria Schultz



Swedish Biodiversity Centre



Challenge – Biodiversity and Ecosystem services is key for human well-being



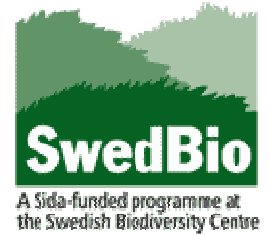
Resilience

- The ability of a system (social and/or ecological) to cope over the long-term with substantial stressors such as climate change.
- Strong correlation between biodiversity and ecosystem resilience, and its ability to deliver ecosystem services.

“There is no such thing as separate climate adaptation strategies, there are only sustainable development policies.”

Sunita Narain, *Director, Centre for Science and Environment, India*

Cross cutting issues linked to BD



Democracy/HR

- Indigenous and local communities, human/tenure rights
- Community based management
- Role of civil society

Trade and globalisation

- Gene politics
- Biosafety
- Markets and certification
- Trade- and agriculture

Health

- Nutrition
- Medicines
- Control of diseases

Climate

- Resilience
- Adaptation
- "Mitigation" – e.g. deforestation 20 %*

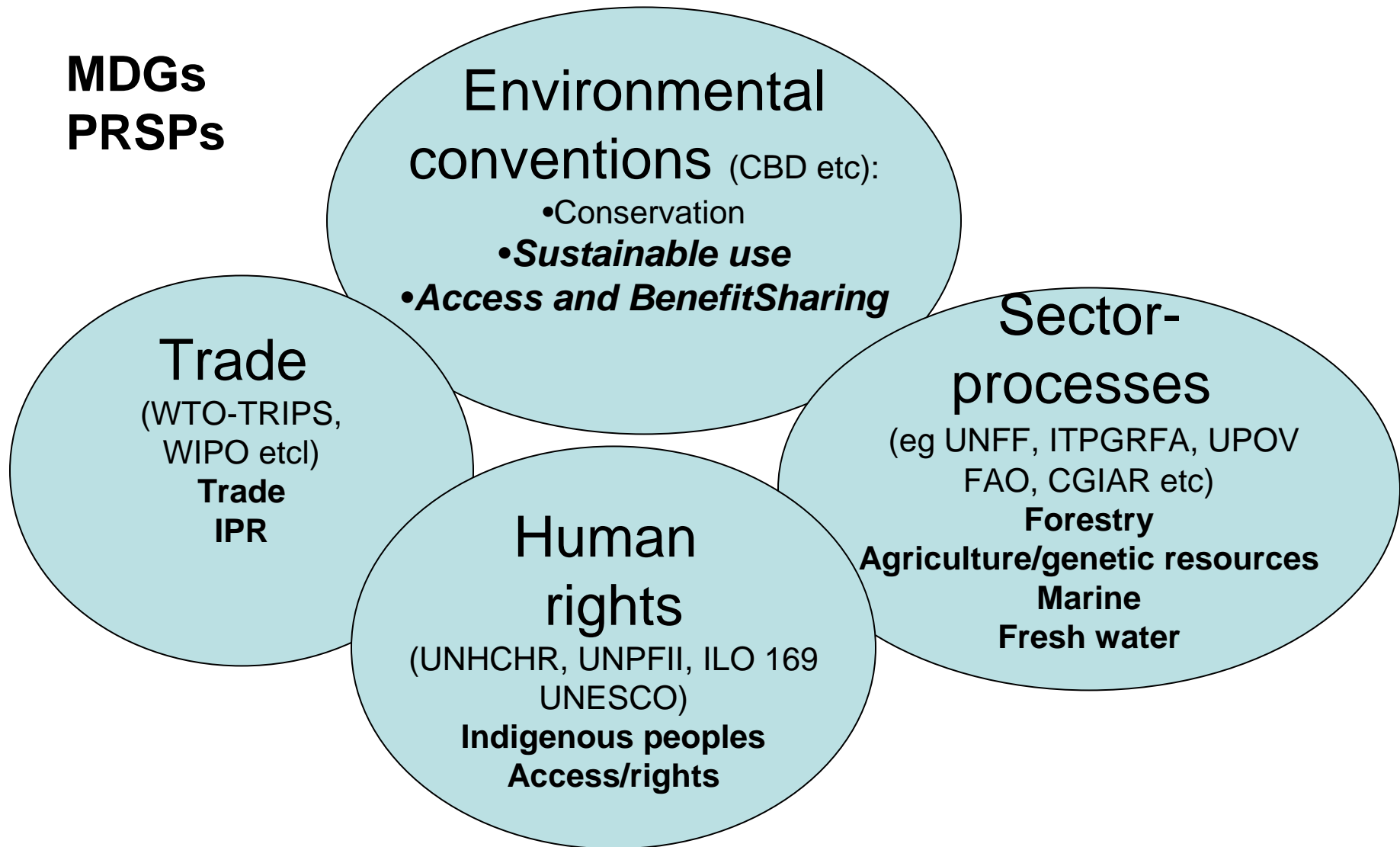
Sustainable production

- Sustainable productions systems
- Ecotourism
- Seed availability, improved varieties, genebanks

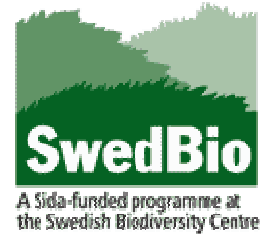
Knowledge and education

- Environmental education, information
- Capacity development

"The Policy Landscape"



SwedBio programme components

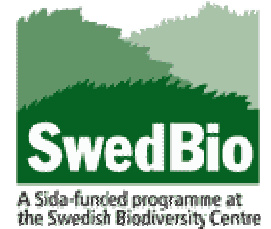


Development objective: *“contribute to poverty alleviation and improved livelihoods through equitable, sustainable and productive management of biodiversity resources at all levels – genes, species and ecosystems”*



- 1) Collaborative programme**
- 2) Integration of biodiversity aspects in Swedish development cooperation**
- 3) International dialogue and policy development**

1. Collaborative Programme



- **Strategic support:**
 - Methods- and policy development**
 - Local-global linkages**
 - Promote dialogue and learning**
 - Promote civil society engagement in international biodiversity processes**
 - Complimentary to other Sida support**
- **Learning and experiences brought back to Sweden for inclusion of biodiversity aspects within Swedish international development cooperation.**



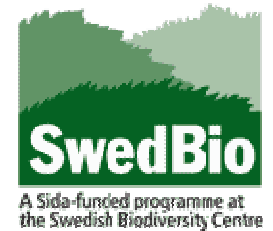
Results and conclusions

- Increased participation and influence IP organisations, and NGOs in international policy processes
- Supported issues highlighted on the international agenda – in relation to e.g. the CBD, UNFCCC and ITPGRFA.
- Affirm that biodiversity is fundamental to human well-being and poverty alleviation, and for adaptation to and mitigation of climate change.
- Access and rights to biodiversity resources, and ensured ecosystem services, is a critical human rights issue.
- Good governance of biodiversity resources fundamental.
- Deficiencies in existing policy frameworks - need for addressing root causes of biodiversity loss
- Lack of integration of biodiversity-livelihoods concerns in sector policies and development planning, and that investment in climate initiatives can have severe unintended impacts if not assessed
- Maintaining biological diversity and maintaining cultural identity are closely linked.
- Contributed to the fulfillment of Sweden's Policy for Global Development



A Sida-funded programme at
the Swedish Biodiversity Centre

2. Integration in Swedish development cooperation



Biofuels – Potential and Challenges for Developing Countries

Biofuel production is expanding outlook of rising prices of fossil emissions, primarily in develop- ing countries. The expansion is taking place scale production for export are a scale and pace is extra challenge

Developing countries with a e.g. forest, plant and other biomass energy source to plant large scale production. Sugar cane, jatropha and oil palm are the most common. Such biofuels have a multi-levelled social and environmental impact. Carefully planned, biofuels

Bioenergy

Bioenergy is a broad term that covers all types of energy produced from biomass. It includes biofuels, biogas, and other bio-based energy sources. Bioenergy is a renewable energy source that can help reduce greenhouse gas emissions and improve energy security.

Challenges

One of the main challenges for developing countries is the competition for land between biofuel production and food production. This can lead to food insecurity and increased prices for food. Another challenge is the need for sustainable management of biomass resources to ensure long-term availability.

Opportunities

Despite the challenges, bioenergy offers significant opportunities for developing countries. It can provide a source of income for rural communities and create jobs in the bioenergy sector. Additionally, it can help diversify the economy and reduce dependence on fossil fuels.

Climate change and ecosystem services

The poorest countries and the poorest people are those most vulnerable to the effects of climate change. Changes in the climate also impact biological diversity and thereby an ecosystem's ability to deliver goods and services for human well-being. Moreover, ecosystem services play a central role in both adaptation to and mitigation of climate change. Sustaining biological diversity and ecosystem services are hence important both in our efforts to deal with climate change and to reach the UN's Millennium Development Goals. Such measures are in other words both cost-effective and have the capacity to create many potential synergies.

Impacts of climate change on biodiversity, ecosystem services and food security

- Increased vulnerability and reduced resilience. About 20-30 percent of all species are at risk of extinction if the global average temperature rises by 1.5 to 2.5 degrees. As a result, ecosystems are becoming more vulnerable and their long-term capacity to deliver is decreasing drastically.
- Loss of ecosystem services. Ecosystem services are the benefits that people derive from ecosystems. Climate change is expected to reduce the ability of ecosystems to provide these services, such as food, water, and timber.
- Increased food insecurity. Climate change is expected to reduce crop yields and increase the risk of food shortages, particularly in the tropics and subtropics.

Biodiversity and mitigation to climate change

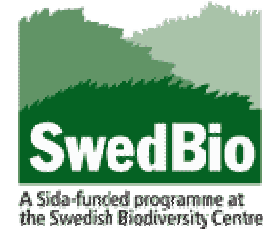
- Biodiversity is a key component of ecosystem resilience. Maintaining biodiversity can help ecosystems adapt to climate change and continue to provide ecosystem services.
- Protecting biodiversity can also help reduce greenhouse gas emissions. For example, forests store large amounts of carbon, and protecting them helps keep that carbon stored.

- Helpdesk function: Increase integration of biodiversity aspects at Sida.
- Strengthen international development cooperation and poverty alleviation perspectives in Sweden's international work related to biodiversity.
- Increase capacity among Swedish organisations and actors regarding the role of biodiversity for poverty alleviation and improved livelihoods.

Results and conclusions

- SwedBio has functioned as support and general resource to Sida-staff; comments on Sida's policies and the Swedish Governments Policies, e.g. Sweden's Policy for Global Development, MA Follow-Up, IAASTD, REDD; comments and support on projects and programmes, text, comments and input to reports and documents, e.g. Sida's publication on Tenure; comments and support - tools as EIA/SEA or indicators; comments and support - educational material, e.g. e-learning material
- SwedBio has also conducted pro-active work, including information and training; e.g climate coaching talks
- The understanding of the importance of securing ecosystem services, and hence biodiversity, for poverty alleviation has increased at Sida
- Ecosystem services have got higher attention, mainly due to the strong connections and options to lessen the impacts, and strengthen resilience, in relation to climate adaptation and mitigation
- Experience tells that the best effects on integration work comes from interaction through on the job training

3. International dialogue and policy development



Involvement by SwedBio staff in relevant international policy and methods development processes

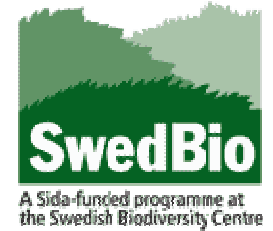
Increased Swedish involvement in, and contribution to, international policy and methods development on biodiversity management from a development cooperation and livelihoods perspective.



Results and conclusions

- **SwedBio staff has participated and contributed in a number of international initiatives - OECD-DAC SEA Ecosystem Guidance Note and Power Point, PEP – Pro Poor REDD, MA, Plant Genetic Resources, ex ITPGRFA**
- **Advice to Government Offices and participation in CBD-meetings as part of the Swedish Delegation**
- **Inputs, comments and advice provided by SwedBio have strengthened the development and poverty perspective related to biodiversity in Swedish positions and the effects of decisions taken on developing countries and e.g. the MDGs and the Paris agenda.**
- **Important that Sida is involved and work is conducted on behalf of Sida, for integration at Sida and capacity building at Sida, and to incorporate knowledge generated at Sida in SwedBio's work with international processes, to reach the best possible result.**

Support to MA follow-up



- Collaborative program
- Integration at Sida
- Policy support

