
Trondheim Conferences on Biodiversity
The Eighth Conference
Trondheim 31 May – 3 June 2016

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**Food systems for a sustainable future:
*Interlinkages between biodiversity and agriculture***

The Eighth Trondheim Conference on Biodiversity
Clarion Hotel, Trondheim, Norway, 31 May – 3 June 2016

Detailed Programme

The Conference, hosted by the Norwegian Government in partnership with the Convention on Biological Diversity (CBD), the Food and Agriculture Organization of the United Nations (FAO), the Global Environment Facility (GEF), the United Nations Development Programme (UNDP), the United Nations Environment Programme (UNEP), the United Nations Educational, Scientific and Cultural Organisation (UNESCO) and the World Bank, is by invitation and will bring together up to 350 experts from governments, United Nations bodies and other international organizations, academia, private organizations and the non-governmental sector. Each country is invited to send two experts, one from the biodiversity sector and one from the food production sector. In Norway the Ministry of Climate and Environment, the Ministry of Foreign Affairs, the Ministry of Agriculture and Food, the Ministry of Finance and the Norwegian Environment Agency are cooperating in organizing the Conference.

Rationale and Orientation

In 2010, governments adopted the 20 Aichi Biodiversity Targets as part of the *Strategic Plan for Biodiversity 2011-2020* and progress and actions in addressing these targets will be reviewed at CBD COP13. However, five years after their adoption, it is widely recognised that further efforts are needed in order to achieve these targets and to reverse the effects of biodiversity loss. Fully understanding the drivers behind such loss, and ways to reverse them, are of fundamental importance in addressing this.

The Aichi Biodiversity Targets are also highly relevant for the achievement of the Sustainable Development Goals (SDGs) adopted by governments in September 2015 as part of the *2030 Agenda for Sustainable Development*. The SDGs address the complex challenges we face in our interconnected world, and are a call to action that will shape the next 15 years of policies, programmes and funding. They are equally relevant to all countries, and across all sectors. Agriculture is strongly connected to achieving the goals. Investing in the agricultural sector can address not only hunger and malnutrition, but also other challenges related to poverty, loss of biodiversity, water and energy use, climate change, and unsustainable production and consumption patterns.

The Eighth Trondheim Conference therefore aims to bring together decision-makers and experts from governments, private sector, academia, UN agencies and other non-governmental organisations from around the globe to discuss interrelationships between agriculture for food (with a special focus on crops and livestock) and biodiversity, and to identify approaches for the achievement of mutually beneficial and sustainable outcomes. It is intended that the deliberations and report of the Conference will amongst other things provide inputs to the high-level segment of the Conference of the Parties to the Convention on Biological Diversity to be held in Mexico in December 2016 (CBD COP13).

A significant determining factor for the future status of terrestrial, coastal and freshwater biodiversity is the agricultural sector. This sector faces significant challenges in meeting the needs for increased quantity and quality of food for a growing world population, and is at the same time trying to address other dimensions of sustainability, including environmental impact. Biodiversity and ecosystem services are a critical foundation for food production, and the agricultural and food sector is also an important provider of ecosystem services and contributor to human well-being.

Better integration of biodiversity and agriculture in policies and actions will help provide solutions for the challenges we will face between now and 2030. Efforts to meet an increasing demand for food while conserving biodiversity can be mutually supportive, with tools and approaches that can help in advancing both agendas. Building on the outcomes of the Seventh Trondheim Conference on Biodiversity "*Ecology and Economy for a Sustainable Society*", the Eighth Conference will explore the role of agriculture and food systems in building a sustainable future, and how biodiversity and agricultural policies can be mutually supportive to address shared challenges and to provide shared solutions.

Expanding opportunities for constructive dialogue with a broad range of stakeholders is one of the basic steps in integrating biodiversity and agriculture considerations into each other's operations. This will be essential to the delivery of both the Aichi Biodiversity Targets and the SDGs. Since 1993 the Trondheim Conferences on Biodiversity have provided opportunities for dialogue and capacity enhancement amongst stakeholders on current issues relating to the biodiversity agenda. They intend to provide a forum for open and constructive dialogue, leading to a transparent and scientifically sound basis for addressing each of the chosen issues. The partners of the 8th Trondheim Conference are: the Norwegian Government, the Secretariat of the Convention on Biological Diversity (CBD) the Food and Agriculture Organization of the United Nations (FAO), the Global Environment Facility (GEF), the United Nations Development Programme (UNDP), the United Nations Environment Programme (UNEP), the United Nations Educational, Scientific and Cultural Organization (UNESCO) and the World Bank.

Programme Outline

Tuesday 31 May

Session 1 – *Opening session and setting the scene*

Following a cultural performance and welcoming remarks, this opening session will include presentations from Ministers and other dignitaries who will set the scene for the Conference, and prepare the participants for substantive debate. These presentations will be complemented by introductions to key issues by selected experts.

Masters of ceremony: Ms Tone Solhaug, Ministry of Climate and Environment, and **Ms Nina Vik**, Norwegian Environment Agency

09:30-09:40 **Cultural performance**

09:40-09:55 **Food systems for a sustainable future – Mr Vidar Helgesen**, Minister of Climate and Environment, Norway

09:55-10:10 **Addressing the global agenda: achieving the Sustainable Development Goals – Mr Nik Sekhran**, Director, Sustainable Development Bureau for Policy and Programme Support, United Nations Development Programme (UNDP)

10:10-10:25 **Towards COP13: ‘Mainstreaming’ biodiversity into agriculture – Mr. Cuauhtémoc Ochoa Fernández**, Under-Minister for Environmental Promotion and Regulation, Ministry of Environment and Natural Resources, Mexico

10:25-10:35 **Welcome to Trondheim and the Eighth Trondheim Biodiversity Conference – Ms Rita Ottervik**, Mayor of Trondheim

10:35-11:05 Break

11:05-11:20 **Transformation of the global food system to sustainably feed a healthy population – Dr Sudhvir Singh**, Director of Policy, EAT initiative

11:20-11:35 **The importance of national government policy for an enabling environment for sustainable agriculture: a company perspective – speaker to be decided**, (TBC)

11:35-11:50 **Sustainable agriculture and advancing the Aichi Biodiversity Targets – Mr Braulio F. de Souza Dias**, Executive Secretary of the Convention on Biological Diversity

11:50-12:05 **Achieving sustainable food systems – Ms. Maria Helena Semedo, Deputy Director-General, Coordinator Natural Resources**, Food and Agriculture Organization of the United Nations (FAO)

12:05-12:20 **The role of science in meeting the SDGs – Prof. Dr Gebisa Ejeta**, 2009 World Food Prize Laureate

Session 2 – *Conference organization*

Short session to ensure mutual understanding of what the Eighth Trondheim Conference aims to achieve, and to explain the format of the Conference.

12:20-12:30 **Overview of past Trondheim Conferences – Ms Ellen Hambro**, Director General of the Norwegian Environment Agency

12:30-12:55 **Objectives and organisation of the Eighth Trondheim Conference Co-Chairs – Ms Tone Solhaug**, Ministry of Climate and Environment and **Ms Nina Vik**, Norwegian Environment Agency

12:55-14:00 Lunch

Session 3 – *Interlinkages between biodiversity and agriculture: Part I - Imperatives and implications*

In the first of several sessions exploring interlinkages between biodiversity and agriculture, the Conference will consider the potential pathways for sustainable intensification in agriculture, and the impacts that this might have on food security and on biodiversity and ecosystem services. This session will discuss the current status of three different areas (pollination, soil formation/nutrient cycling and genetic resources) where the benefits of agriculture from biodiversity and ecosystem services are evident. At the same time, different types of agricultural production contribute in various degrees to the sustainable management of these ecosystem services.

- 14:00-14:15 **Preserving biodiversity through active agriculture – Ms. Hanne Maren Blåfjelldal**, State Secretary, Ministry of Agriculture and Food
- 14:15-14:35 **How agroecological intensification relates to key ecosystem services (pollination, soil, genetic resources) – M. Ann Tutwiler**, Director General, Bioversity International
- 14:35-14:55 **Key ecosystem services for food and agriculture – the status of world genetic resources – Dr Irene Hoffmann**, Secretary, Commission on Genetic Resources for Food and Agriculture, Food and Agriculture Organization of the United Nations (FAO)
- 14:55-15:25 Questions and answers
- 15:25-15:55 Break
- 15:55-16:15 **Key ecosystem services for food and agriculture – the state of knowledge on pollinators, pollination and food production in the world – Dr Joseph 'Dino' Martins Visitacao**, Nature Kenya
- 16:15-16:35 **Key ecosystem services for food and agriculture – the status of world soil resources – Mr Ronald Vargas Rojas**, Land Resources Officer and Secretary of the Global Soil Partnership, Land and Water Division, Food and Agriculture Organization of the United Nations (FAO)
- 16:35-16:55 **Ecosystem Services in Smallholder Production Systems in Western Zambia – Dr Natalia Estrada Carmona**, Post-Doctoral Fellow, Agricultural biodiversity and Ecosystem Services, Bioversity International
- 16:55-17:15 **Exploring the impacts of agriculture on biodiversity – Mr Neville Ash**, Director, UNEP World Conservation Monitoring Centre (UNEP-WCMC)
- 17:15-17:45 Questions and answers
- 18.30 -- Conference Dinner --

Wednesday 1 June

Session 4 – *Interlinkages between biodiversity and agriculture: Part II – Policies and institutions*

The SDGs provide multiple objectives that countries will need to pursue, which will require identifying priorities sector by sector and analysing trade-offs between and within them. This session will therefore enter into more detailed discussions on what the priorities are for the biodiversity and agriculture sectors, with a view to identifying common priorities. Examples of national policies and institutional arrangements that are being used by countries for alignment of those priorities will then be profiled. Spatial planning and environmental-economic accounting for agriculture will be examined

as some of the approaches that countries use to explore policy options that can support the realisation of different objectives.

- 09:00-09:30 **Aligning the biodiversity and agriculture priorities identified in the SDGs**
- 09:00-09:15 **Efforts to mainstream biodiversity into the agricultural sector: Examples from the GEF portfolio – Dr Devra I. Jarvis**, Principal Scientist, Bioversity International, Adjunct Faculty, Washington State University, and Adjunct Professor, Institut Agronomique et Veterinaire Hassan II, Morocco
- 09:15-09:30 **The role of institutions in delivering the dual agenda of conservation and food security: the case of Ethiopia - Dr Gemedo Dalle Tussie**, Director General, Ethiopian Biodiversity Institute
- 09:30-09:50 **Spatial planning as a tool to mainstream biodiversity in agriculture and related sectors by identifying conservation priorities – Mr Nagulendran Kangayatkarasu**, Malaysia
- 09:50-10:10 **Environmental-economic accounting for agriculture and biodiversity – Mr Carl Obst**, Director, Institute for the Development of Environmental-Economic Accounting, and Honorary Fellow, University of Melbourne
- 10:10-10:25 **Food from the ocean: Sustainable use and biodiversity considerations in fisheries and aquaculture management – Ms Elisabeth Norgård Gabrielsen**, Director of Section for Fisheries Management, Norwegian Ministry of Trade, Industry and Fisheries
- 10:25-10:55 Questions and answers
- 10:55-11:25 Break

Session 5 – *Interlinkages between biodiversity and agriculture: Part III – Planning for a changing climate*

After an overview of some of the challenges of conserving biodiversity and satisfying food demand, this session will reflect on the relevance of considering climate change for achieving both objectives. The importance of the use of scenarios in informing planning will be explored, particularly in the context of participatory scenario development. Different approaches analysing agriculture, biodiversity and climate change in a holistic manner will be discussed, with the aim of identifying a range of challenges and opportunities that would enable the alignment of different policy objectives.

- 11:25-11:45 **Global models and scenarios for agriculture, biodiversity and climate – Prof Paul Leadley**, Université Paris-Sud
- 11:45-12:05 **Impacts of climate change on ecosystem services that support agriculture – The role of bio-cultural assessments – Mr Alejandro Argumedo**, ANDES Programme Director and International Coordinator Indigenous Peoples' Biocultural Climate Change Assessment Initiative (IPCCA)
- 12:05-12:25 **Conserving local varieties and landraces: Agrobiodiversity in climate change adaptation – Ms Asta Tamang**, Head of the Plant Genetic Resources Program, National Biodiversity Centre, Ministry of Agriculture and Forests of Bhutan
- 12:25-12:45 Questions and answers
- 12:45-12:55 Explanation of session 6 by the Co-Chairs
- 12:55-14:00 Lunch

- 14:00-14:20 **The role of biodiversity in climate-smart agriculture – Mr Marc Sadler**, Global Lead on climate-smart agriculture, World Bank
- 14:20-14:40 **Linkages between trade, climate change, agriculture and biodiversity conservation – Dr Alexander Kasterine**, Head of the Trade and Environment Programme, International Trade Centre
- 14:40-14:50 Questions and answers

Session 6 – *Roundtable discussions on interlinkages between biodiversity and agriculture*

The primary purpose of the roundtable discussions is to increase the engagement of meeting participants through work in smaller groups to identify and develop options and potential pathways to enhance the transition towards a sustainable agriculture. Discussions would draw on the earlier presentations and on the experience of Conference participants. The intention is that these discussions will identify ways of helping to support national planning/policy development in contributing to an enabling environment for sustainable agriculture, and thereby inform inputs to the high-level segment of the thirteenth session of the CBD Conference of the Parties (COP) to be held in Mexico in December 2016. Tables of approximately 10 participants will each consider a set of identical questions, with the objective of producing a list of elements under each question that can be used as a basis to build on in the roundtable discussions on the next day.

- 14:50-15:10 Explanation of how this session and the roundtable session the following day will work
- 15:10-17:15 Working group discussions
- 17:15-17:30 Wrap-up

A formal break is not scheduled for this session. It is expected that groups will decide when they need to take a break and will do so independently.

-- Conference Dinner --

Thursday 2 June

Session 7 – *Panel session on ‘Practical examples of building interlinkages between biodiversity and agriculture’*

This panel session aims to foster dialogue among different stakeholders involved in managing the use of biodiversity for agricultural production. Consequently, it will include panelists from governments, private sector/civil society, expert panels and smallholder organisations that will briefly present what is being done in their respective areas of work to contribute to sustainable agriculture. A selection of sustainable agricultural practices (e.g. mixed production systems such as agroforestry, tillage approaches, precision agriculture, conservation agriculture, organic farming) and ways of promoting them (from the point of view of policy, science, business and civil society) will be briefly presented by panellists and they will be asked to identify key benefits, challenges and limitations associated with those based on their experience. Further experience will be sought from meeting participants, who will be invited to further explore the issues with the panel.

- 09:00-09:45 Introduction by the moderator and initial remarks from panellists
- 09:45-10:30 Question and answer session managed by the moderator

- 10:30-10:50 Final remarks by moderator and panellists
- 10:50-11:20 Break

Session 8 – *Interlinkages between biodiversity and agriculture – Part IV: Changing practices*

Identification of mutual interests and improved alignment between the agriculture and biodiversity sectors concerns not only agricultural production, but also other related issues such as food distribution and consumption. In order to provide further context for the following session which will profile practical examples of building interlinkages between biodiversity and agriculture, this session will draw upon some of the content of the previous sessions to discuss ways to promote a change to biodiversity-friendly practices for both producers and consumers, and why this is important to all those involved.

- 11:20-11:40 **Economics of ecosystems and biodiversity for agri-food systems – Mr Alexander Müller**, TEEBAgFood Study Leader
- 11:40-12:00 **Behavioural economics – Dr Ben D’Exelle**, Senior Lecturer in Economics, University of East Anglia (TBC)
- 12:00-12:20 **Promoting positive incentive measures for biodiversity conservation in the agriculture sector – Ms Rina Maria P. Rosales**, Resource Economist, Resources Environment Economic Center for Studies, The Philippines (TBC)
- 12:20-12:40 **Addressing food waste – the benefits to biodiversity – Ms Margaux Denis**, Directorate General for Food, Ministry of Agriculture, Food and Forestry, France
- 12:40-12:55 Questions and answers
- 12:55-14:00 Lunch
- 14:00-14:20 **Agricultural extension to attain changes in practices – speaker to be defined**, Instituto Nacional de Tecnología Agropecuaria (National Institute of Agricultural Technology), Argentina (TBC)
- 14:20-14:40 **Transformation of food systems – Dr Emile Frison**, International Panel of Experts on Sustainable Food Systems (IPES-Food) Member, Former Director General of Bioversity International
- 14:40-14:50 Questions and answers

Session 9 – *Roundtable discussion*

Building on the outputs produced in the previous roundtable discussion in Session 6, and drawing upon the presentations and discussions from Sessions 7 and 8, this roundtable discussion will aim to move towards development of roadmaps or pathways towards transition to sustainable agriculture. This session will encourage participants to have an open dialogue on those elements that should be considered when planning the design and implementation of national policies to enable sustainable agriculture.

- 14:50-15:05 Report back on the outcomes from Session 6 (summarizing the list of elements developed by the groups) and introduction to what is expected from this session.

- 15:05-16:30 Add to/elaborate the list of elements produced during Session 6 by reconsidering the questions considered in Session 6 in the context of what was learnt/discussed during Sessions 7 and 8.
- 16:30-17:15 Addressing questions relating to developing pathways/roadmap.
- 17:15-17:30 Wrap-up

As for Session 6, there will be no formal break during this session. It is expected that groups will decide when they need to take a break and will do so independently.

-- Conference Dinner --

Friday 3 June

Session 10 – *Outlook 2030*

This session will explore how the national implementation of the SDGs will provide a platform for further consideration of the linkages between biodiversity and agriculture, the role of science in support of this process, and how to communicate the biodiversity challenge to different stakeholders related to the agricultural and food sector.

- 09:00-09:15 **National implementation of the Sustainable Development Goals: an opportunity for breaking down the silos and delivering sustainable agriculture** – Ministry of Foreign Affairs, Norway, speaker to be confirmed
- 09:15-09:30 **Building partnerships for sustainable agriculture and food security** – Ms Lorin Fries, Associate Director, Food Security and Agriculture Initiatives at the World Economic Forum
- 09:30-09:45 **Integrating efforts to achieve Aichi Biodiversity Targets into cross-sectoral planning** – Mr David Cooper, CBD Secretariat
- 09:45-10:00 **UNEP’s support to countries to integrate biodiversity and ecosystem services into agricultural planning in the context of the SDGs** – Ms Mette Løyche Wilkie, Director, Division of Environmental Policy Implementation, UNEP (TBC)
- 10:00-10:15 **How UNDP will be supporting the implementation of Agenda 2030 in the context of sustainable agriculture** – Ms Midori Paxton, Senior Technical Adviser, Biodiversity and Ecosystems, Global Environment Finance Unit, UNDP
- 10:15-10:45 Break
- 10:45-11:00 **How FAO will be supporting the implementation of the 2030 Agenda** – Dr Irene Hoffmann, Secretary, Commission on Genetic Resources for Food and Agriculture, Food and Agriculture Organization of the United Nations (FAO)
- 11:00-11:20 **Communicating complex biodiversity messages** – speaker to be defined

Session 11 – *Consideration of the draft Report by the Co-Chairs*

The intention is that a Co-Chairs’ summary report will be prepared during the Conference based on the presentations and discussions that take place, and this will be presented by the Chief Rapporteur. A discussion on the Conference report will follow, which will be taken into account in the final report. This report will be prepared as an information document for Parties for CBD COP13.

- 11:20-11:35 **Presentation of draft Co-Chairs Report** – by rapporteur
- 11:35-11:50 **Preparing for CBD COP13 and discussion on the draft report and feedback on the meeting** – led by Co-Chairs

Session 12 – *Closing session*

Following completion of the work of the Conference, this session will hear a few short closing addresses before participants depart.

11:50-12:00 **The pathway to CBD COP13 – Mr Hesiquio Benítez Díaz**, General Director of International Cooperation and Implementation, CONABIO, Mexico, on behalf of the upcoming CBD COP13 Presidency

12:00-12:10 **Closing addresses**

-- Conference programme to close at 13:00 followed by Lunch --

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