Sustainable agriculture and advancing the Aichi Biodiversity Targets

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Executive Secretary of the Convention on Biological Diversity
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Without biodiversity, there is no food, no life.
Without biodiversity, there is no food, no life

Agenda

Overview of the status of agriculture

The Strategic Plan and Aichi Biodiversity Targets

Linkages with the Sustainable Development Agenda

Leading to COP-13
Major indirect drivers of pressures on biodiversity

- Population growth and food demand
- Food trends and consumption patterns
- Food waste
- Food losses
Major direct drivers of pressures on biodiversity: unsustainable agricultural practices

- Deforestation and fragmentation
- Natural resources depletion
- Improper use of agro-chemicals
- Simplification of livestock and cropping systems
Loss of biodiversity: direct impact on agriculture
Innovation and Technology

Drought-resistant rice variety

Seedless

Regular seeded
Solution: sustainable agriculture and food systems

- Reduce waste and losses
- Increase nutritional value of food
- Increase agricultural productivity
- Limit expansion into natural areas and reduce impacts on biodiversity
Transition towards more sustainable agriculture and food systems

Agriculture shapes the status of biodiversity

Image Source: Building a common vision for sustainable food and agriculture – Principles and Approaches, FAO 2014
Transition towards more sustainable agriculture and food systems

Drivers of biodiversity loss are identified.

Consensus on appropriated solutions.

Implementation: what actions are needed to reflect biodiversity considerations in the management of agricultural systems?

Address consumer demand, require effective policy frameworks and supporting financing and incentives mechanisms.

Image Source: Building a common vision for sustainable food and agriculture – Principles and Approaches, FAO 2014
Strategic Plan for Biodiversity 2011 – 2020

Vision
By 2050, biodiversity is valued, conserved, restored and wisely used, maintaining ecosystem services, sustaining a healthy planet and delivering benefits essential for all people

Mission
Take effective and urgent action to halt the loss of biodiversity

Strategic Goal A
Address the underlying causes of biodiversity loss

Strategic Goal B
Reduce the direct pressures and promote sustainable use

Strategic Goal C
Safeguard ecosystems, species and genetic diversity

Strategic Goal D
Enhance the benefits to all from biodiversity and ecosystem services

Strategic Goal E
Enhance implementation

Implementation Support Mechanisms

Source: Global Biodiversity Outlook 4
Sustainable agriculture and the Aichi Biodiversity Targets
Sustainable agriculture and the Aichi Biodiversity Targets

T14: Ecosystem services conservation

T8: Pollution control

T13: Genetic diversity conservation

T7: Agriculture, aquaculture and forestry sustainable management

T9: IAS control and eradication

Source: Global Biodiversity Outlook 4
Sustainable agriculture and the Aichi Biodiversity Targets

T14: Ecosystem services conservation

T13: Genetic diversity conservation

T7: Agriculture, aquaculture and forestry sustainable management

T8: Pollution control

T9: IAS control and eradication

Source: Global Biodiversity Outlook 4

The graphic shows the results for genetic diversity of wild relatives.
CBD Programme of Work on Agricultural Biodiversity* and the International Initiatives**

* COP 5 decision V/5 adopted a programme of work on agricultural biological diversity under the Convention.
** COP 9 decision IX/1 agreed that the programme of work on agricultural biodiversity and its main elements of assessment, adaptive management, capacity building and mainstreaming, including its three international initiatives on pollinators, soil biodiversity and biodiversity for food and nutrition, continues to provide a relevant framework to achieve the objectives of the Convention.
Agricultural Biodiversity and Ecosystem Functions and Services

- Land restoration
- Genetic resources diversity
- Ecological intensification
- Biodiversity conservation

SDG icons: 1, 4, 5, 7, 8, 10, 11, 12, 13, 15
Agricultural Biodiversity and Ecosystem Functions and Services

- Pest and disease control
- Pollination and pollinator habitat
- Water cycling conservation
- Soil fertility and erosion regulation
Farmers Traditional Knowledge

For human well-being and to poverty reduction:
Agroforestry, family farming and pastoralism to promote sustainable production, genetic diversification *in situ*, fair and equitable sharing of benefits and biodiversity conservation efforts
Rio Conventions, Ramsar and other agreements
The biodiversity-agriculture-sustainable development nexus

FAO Strategic Framework (Objective 2)

2015 International Year of Soils

2016 International Year of Pulses

Aichi Biodiversity Targets

2016-2025
UN Decade of Action on Nutrition

2015-2030
Sendai Framework for Disaster Risk Reduction

Sustainable Development Goals (SDGs)
The biodiversity-agriculture-sustainable development nexus

FAO Strategic Framework (Objective 2)

Aichi Biodiversity Targets

2016-2025
UN Decade of Action on Nutrition

2015-2030
Sendai Framework for Disaster Risk Reduction

Sustainable Development Goals (SDGs)

1. NO POVERTY
2. ZERO HUNGER
3. GOOD HEALTH AND WELL-BEING
6. CLEAN WATER AND SANITATION
12. RESPONSIBLE CONSUMPTION AND PRODUCTION
13. CLIMATE ACTION
15. LIFE ON LAND
<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBSTTA 19</td>
<td>Recommendation XIX/6</td>
<td>Biodiversity and human health</td>
</tr>
<tr>
<td>SBSTTA 20</td>
<td>Recommendation XX/9</td>
<td>Implications of the IPBES assessment on pollinators, pollination and food production for the work of the Convention</td>
</tr>
<tr>
<td>SBSTTA 20</td>
<td>Recommendation XX/15</td>
<td>Mainstreaming of biodiversity across sectors including agriculture, forests, fisheries and aquaculture</td>
</tr>
<tr>
<td>SBI 1</td>
<td>Recommendation I/4</td>
<td>Strategic actions to enhance implementation of the Convention and the Strategic Plan for Biodiversity 2011-2020 including the mainstreaming of biodiversity within and across sectors</td>
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</tbody>
</table>
Inputs for CBD COP 13

Identify the key constraints to achieving sustainability.

Discussion on actions.

Output: unique opportunity to bring to attention these constraints and offer concrete solutions to the high-level segment of COP13.
Outcome: sustainable agriculture and food systems

Supporting the achievement of all Aichi Biodiversity Targets and SDGs

Convention on Biological Diversity
Thank you!