

Biodiversity management – tools and initiatives

„Sustainable Coffee Day II“

27.05.2021



Loss of biodiversity – one of the biggest challenges of our time!

We don't know how many organisms are living on our planet and how many we lose every year. Today only about 1,8 million plants and animals are described. But we know that species loss driven by human activities is occurring 1,000 times faster than it would under natural circumstances. The dramatic loss of biodiversity is not just happening in the so called hotspots of biodiversity, but all over the world.



Genetic diversity



Diversity of ecosystems



Diversity of species

...and interrelation between species = Biodiversity - basis for life!

Main drivers for loss of biodiversity



Destruction of ecosystems



Contamination



Invasive species



Overexploitation of natural resources



Climate Change

Intensive agriculture is one of the main drivers of destruction of ecosystems, overexploitation of natural resources and contamination!



DRIVERS

INDIRECT DRIVERS

Values and behaviors

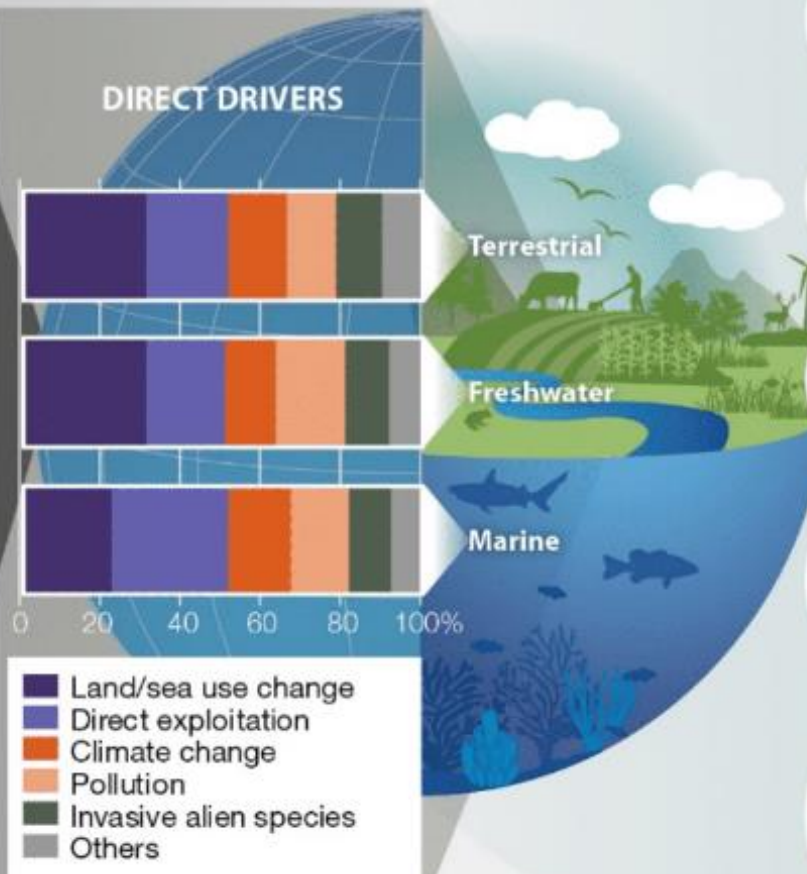
Demographic and sociocultural

Economic and technological

Institutions and governance

Conflicts and epidemics

DIRECT DRIVERS



EXAMPLES OF DECLINES IN NATURE

ECOSYSTEM EXTENT AND CONDITION

47%

Natural ecosystems have **declined by 47 per cent** on average, relative to their earliest estimated states.

SPECIES EXTINCTION RISK

25%

Approximately **25 per cent of species** are **already threatened with extinction** in most animal and plant groups studied.

ECOLOGICAL COMMUNITIES

23%

Biotic integrity—the abundance of naturally-present species—has **declined by 23 per cent** on average in terrestrial communities.*

BIOMASS AND SPECIES ABUNDANCE

82%

The global biomass of wild mammals has **fallen by 82 per cent**.^{*} Indicators of vertebrate abundance have declined rapidly since 1970

NATURE FOR INDIGENOUS PEOPLES AND LOCAL COMMUNITIES

72%

72 per cent of indicators developed by indigenous peoples and local communities show **ongoing deterioration** of elements of nature important to them

* Since prehistory



Good arguments for improving biodiversity performance



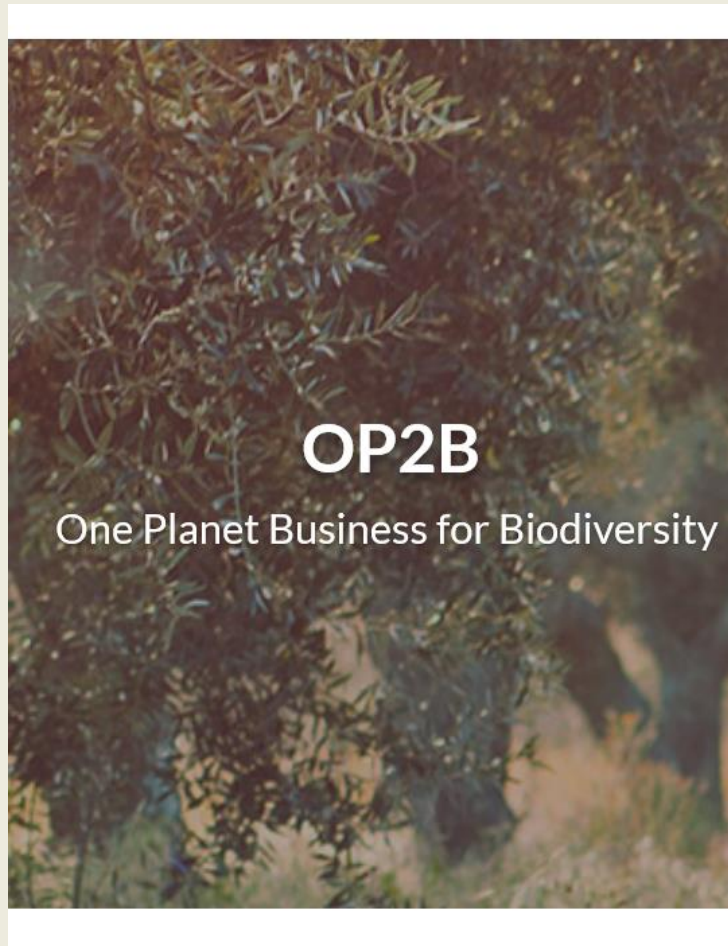
New /improved legislation of the European Union
to achieve the biodiversity aims by 2030

EU Biodiversity Strategy 2030

EU Green Deal Strategy

EU Farm to Fork Strategy

EU CAP



Food for Biodiversity initiative



Germany

Initiative members of the food sector, agriculture, NGOs, academia, associations

Founded: March 2021

Members: 19, growing

Aim:

- Anchoring the protection of biodiversity as a central concern of the food industry and its upstream value chains.
- Contributing to the transformation to sustainable and future-proof food systems



Food for Biodiversity initiative



Further members are welcome

Commitment



Effective biodiversity
criteria (basic set) in
purchasing and
standard specifications

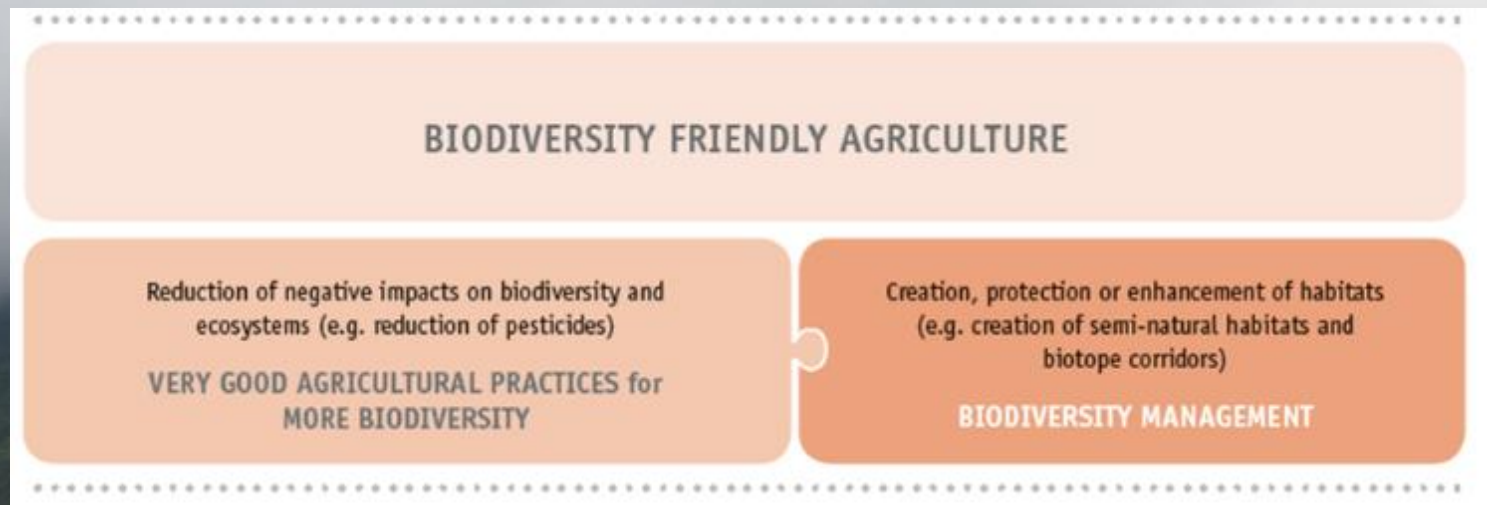
Support for farmers in
the implementation of
the criteria and
measures

Monitoring the
development of
biodiversity on farms

Anchoring biodiversity in
strategies, policies and
projects

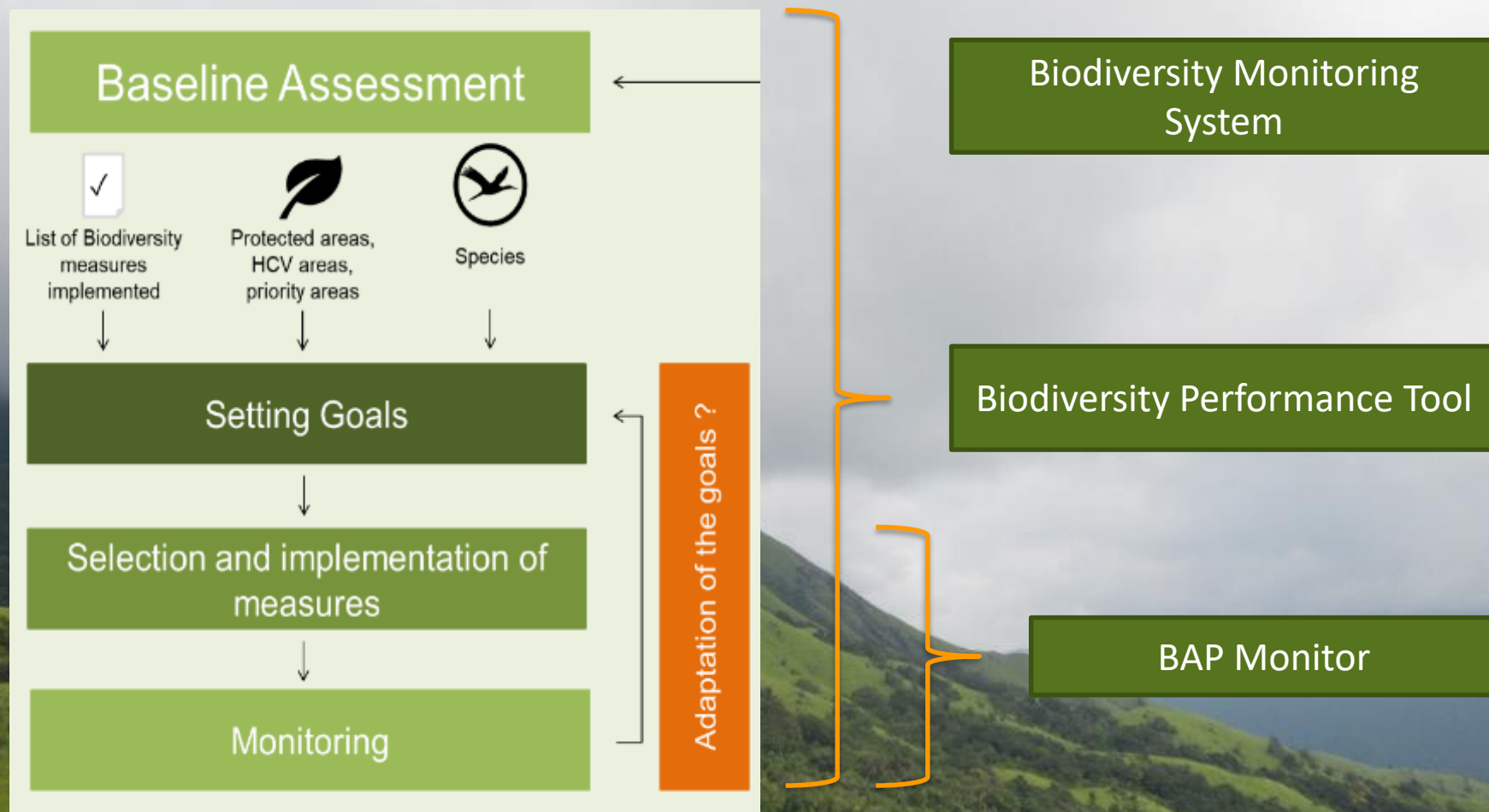
Protection of
biodiversity in the
food sector

Biodiversity protection requires two lines of action



Creating potential for biodiversity

Biodiversity protection requires management: Biodiversity Action Plan





Biodiversity Performance Tool (BPT)

Instrument to improve biodiversity management on farm – level

Biodiversity Monitoring System (BMS)

Instrument to visualize change in biodiversity parameter on aggregated level



Biodiversity Performance Tool

Target groups:
Farmers, consultants, auditors

Target:
Preparation of the biodiversity action plan.
Monitoring of the biodiversity performance of the farm

78 Key figures and indicators
Overview of potentials for biodiversity on the farm plus in the immediate surroundings

Authorized access for
farmers/consultants/auditors. From 2021 User fee

Biodiversity Monitoring System

Target groups: standard organizations, companies, producer groups

Target:
Monitoring biodiversity performance of certified farms, suppliers, members.

25 Key figures and indicators
Aggregated data for a country, region, product, production type

Authorized access for persons responsible for
data entry and for evaluation.
From 2022 User fee

BPT – Anwendungsbereiche



- ✧ Applicable in 4 European climate zones
- ✧ Applicable in different types of farms:
 - ✧ Cereal farming
 - ✧ Animal husbandry: dairy cattle and meat production
 - ✧ Perennial production: e.g. fruit growing, olives
 - ✧ Vegetable production
- ✧ Possibility to adapt BPT to (sub)tropical regions as well as specific products. Examples:
 - BPT Café mit Rainforest Alliance
 - BPT Bananen und Ananas mit GIZ
 - BPT Spices mit GIZ
 - BPT Cocoa mit Fairtrade
- ✧ BPT Kaffee mit 4C (Vietnam)



Thanks for your attention



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