

# Welcome to the German Workshop



# SUSTAINABLE ECOLOGICAL DESIGN OF SCHOOLS BY INCREASING BIODIVERSITY ON SCHOOL GROUNDS

Urban – Gardening and the “Eh-da”- concept



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# THE CONCEPT OF SUSTAINABILITY

- The term sustainability is now 300 years old and was coined in forestry. There, sustainable management means not cutting down more trees than will grow back.
- Sustainable development is thus understood as an integrated approach that always takes into account ecological, economic and social developments - the three dimensions of sustainability - as well as the countless interactions between these dimensions.
- Accordingly, sustainability does not designate a subject area, in contrast to, for example, nature conservation or climate change. Sustainability is rather **a principle of action** that can be applied to all areas.





# THE CONCEPT OF BIODIVERSITY



World Day For Biological Diversity

- Biodiversity is the biological variety and variability of life on Earth.
- Biodiversity is a measure of variation at following levels:
  - the diversity of different species as well as within a species (**taxonomic diversity**)
  - the genetic diversity within individual species as well as the diversity of all organisms in a habitat (**genetic diversity**)
  - the diversity of biotopes and ecosystems as well as of ecosystem functions such as pollination and seed dispersal (**ecological and functional diversity**)
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*Max Planck Society*

# CONSERVING BIODIVERSITY - ENSURING SURVIVAL



World Day For Biological Diversity

The conservation of biological diversity is indispensable for food security, the protection of the environment and the climate, and for the economic, social and cultural development of present and future generations.

Worldwide, one million animal and plant species are threatened with extinction, many of which could disappear within the next few decades.

# HOW THE WORLD WANTS TO BECOME SUSTAINABLE!

The 17 sustainable development goals (SDGs) to transform our world:

The United Nations adopted 17 Sustainable Development Goals in 2015. The goals are the core of the so-called **Agenda 2030** and are to be achieved by the year 2030.



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## SDG 15: LIFE ON LAND

The protection of biodiversity is expressed in particular in the fifteenth sustainable development goal (SDG):

- Protect, restore and promote sustainable use of terrestrial ecosystems
- manage forests sustainably
- combat desertification
- end and reverse land degradation and halt biodiversity loss.

If SDG 15 is not achieved, this will also jeopardise the achievement of about 80 per cent of all other SDGs, for example food security, clean water or combating climate change. Without the conservation of tropical forests, the 1.5 degree target cannot be achieved.



Erasmus+

# PROPOSALS FOR MORE BIODIVERSITY IN SCHOOLS

## URBAN GARDENING – KITCHEN GARDEN

The idea of common gardening in the city could be implemented as common gardening in the school.

Vegetables, fruit, espaliered shrubs, kitchen herbs or cut plants and even a small vineyard not only promote sustainable green space planning, but also increase the biodiversity on the school grounds by growing regional and rare varieties.



# THE „EH DA“- CONCEPT



- The basic idea of the "Eh da" initiative is to use existing land resources as efficiently as possible for promoting insect biodiversity in particular.
- “Eh da” (just there) surfaces are open space areas which are neither commercially used nor maintained for nature conservation. They are located in agricultural landscapes and settlements area.
- The „Eh da“ initiative startet in 2012 in Rhineland-Palatine.
- At the end of 2018, the „Eh da areas“ concept was recognized as official project of the UN decade on Biodiversity.



## THE „EH DA“- CONCEPT



- Eh da areas can be used specifically to **promote flower-seeking insects** and create new **habitats**.
- This is important because the biomass of flying insects in Germany has declined by at least 75 percent since 1989.
- This can be seen in more detail for Europe in the IPBES report (Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services) they wrote for policy makers.

How can we use “Eh da “ areas on the school grounds to improve insect biodiversity?

Discovering, planning and designing available spaces



- Find "Eh da" surface.
- Create a digital map of your school grounds and draw an "Eh da" area on the map.

➤ Google Earth

[https://www.google.com/intl/de\\_de/earth/](https://www.google.com/intl/de_de/earth/)



- Describes the ecological value of the Eh da area.
- Carries out ecological enhancement measures.

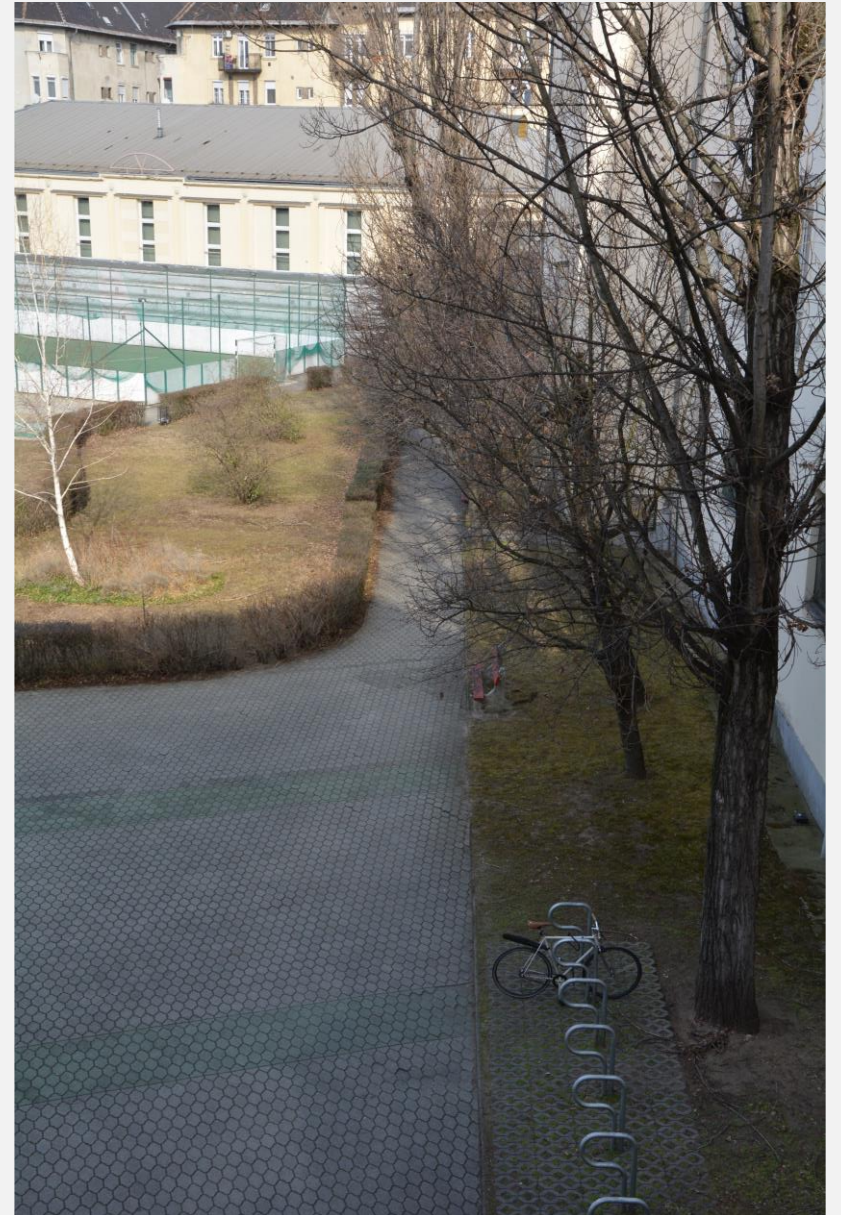












# POLLINATOR APP

<http://eh-da-flaechen.de/index.php/maps-apps/wildbienen-app>



# REFERENCES

- <https://www.mpg.de/biodiversitaet>
- <https://www.bmz.de/de/agenda-2030>
- <https://www.globalgoals.org>
- [https://www.de-ipbes.de/files/IPBES\\_Broschuere\\_ECA\\_2019.pdf](https://www.de-ipbes.de/files/IPBES_Broschuere_ECA_2019.pdf)
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- <http://eh-da-flaechen.de/index.php/maps-apps/wildbienen-app>

THANK YOU FOR YOUR ATTENTION!

