

On food production, pollinators and our landscapes

Koos Biesmeijer
Hien Ngo



Session Aim:

**Towards synergies
between
Food production
Pollinators &
Landscapes**



**from global
to national
to regional
to integrated**



Pollinators



Landscapes

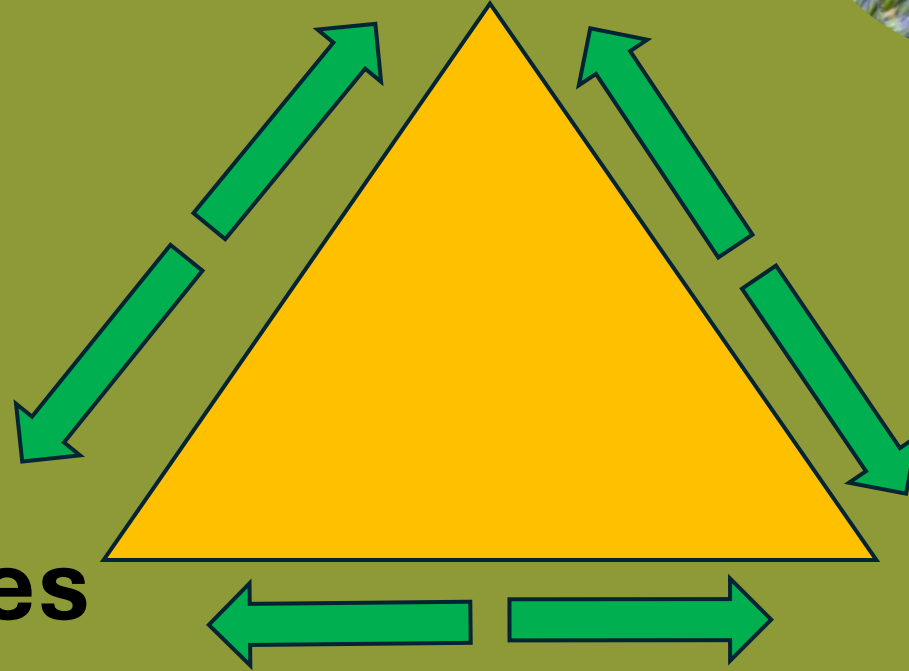


Agriculture



FULL SYNERGY

Pollinators



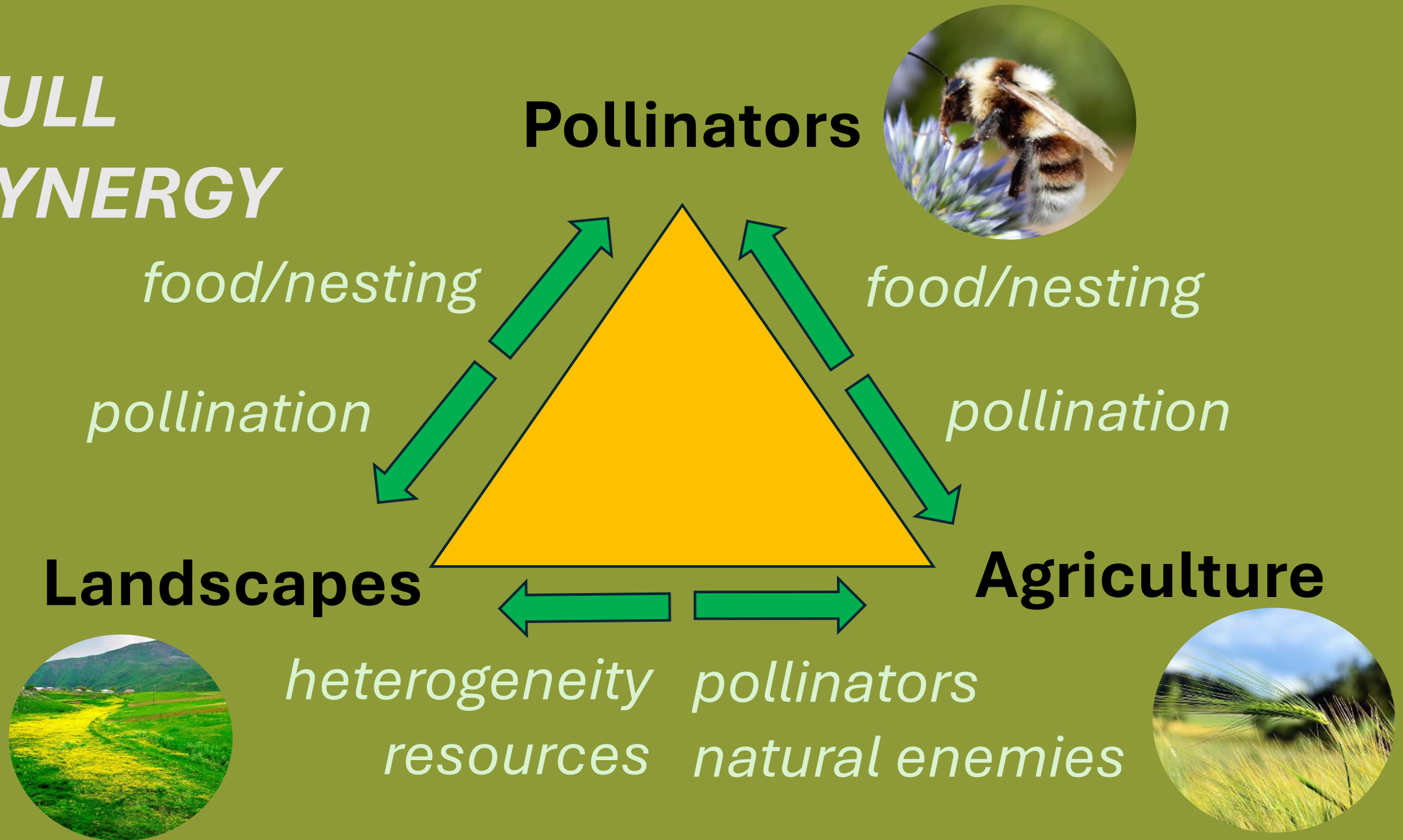
Landscapes



Agriculture

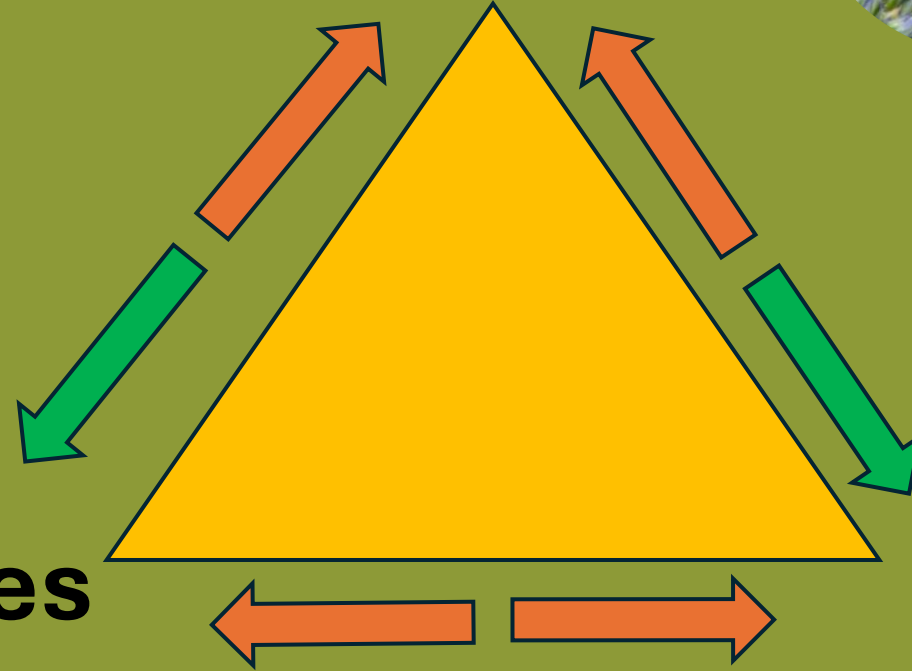


FULL SYNERGY



REALITY

Pollinators



Landscapes



Agriculture



REALITY

Pollinators



*fragmentation
<habitat*

*chemicals
weed removal*

Landscapes

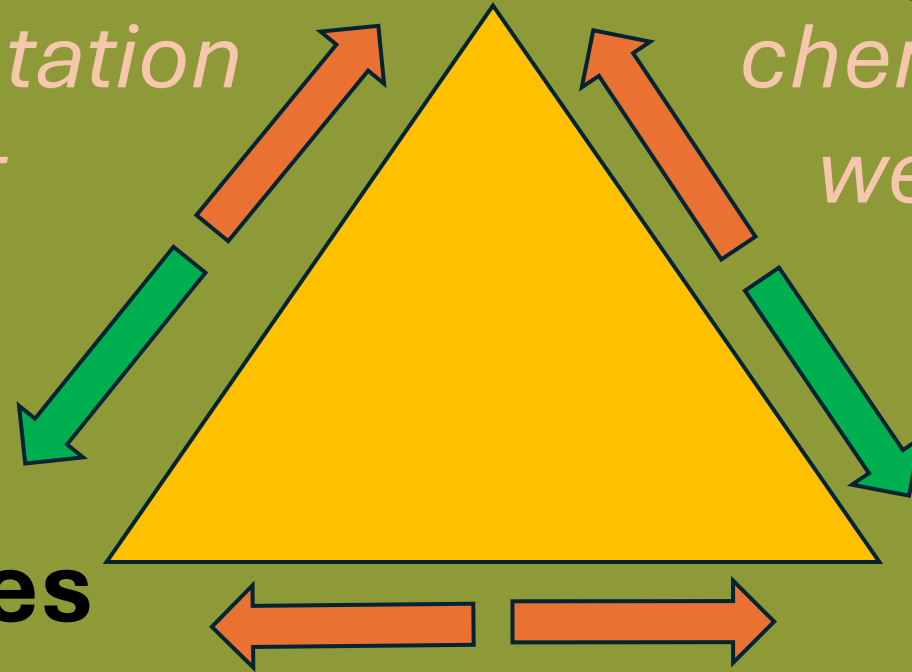


Agriculture



*chemicals
fertilizers*

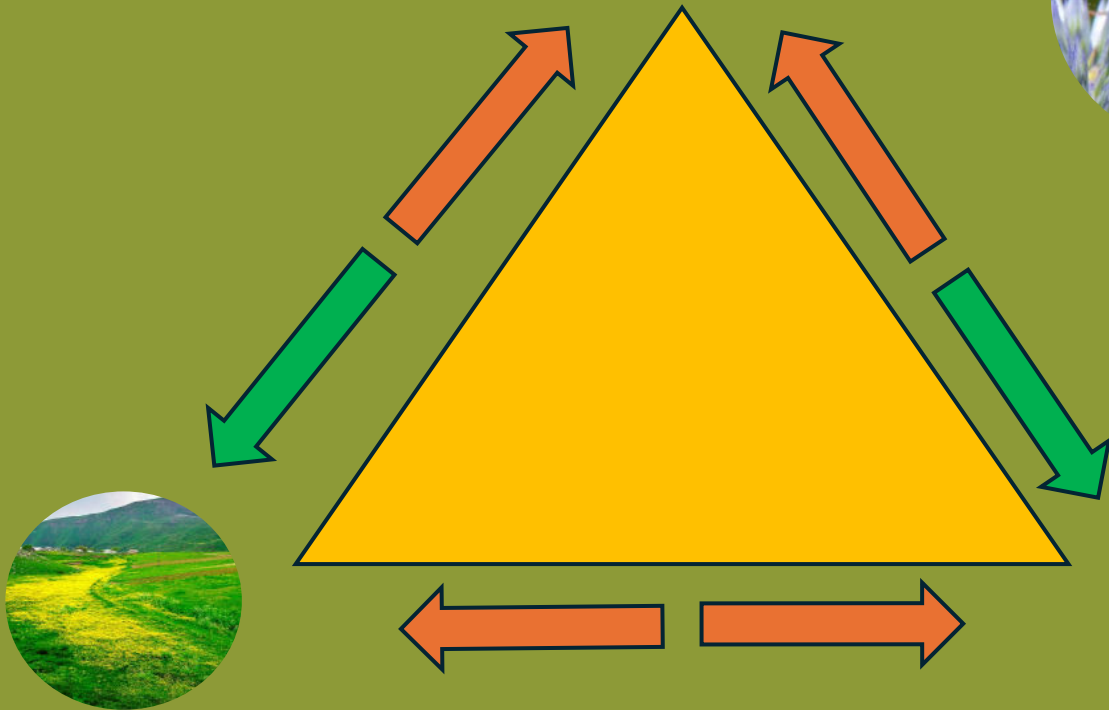
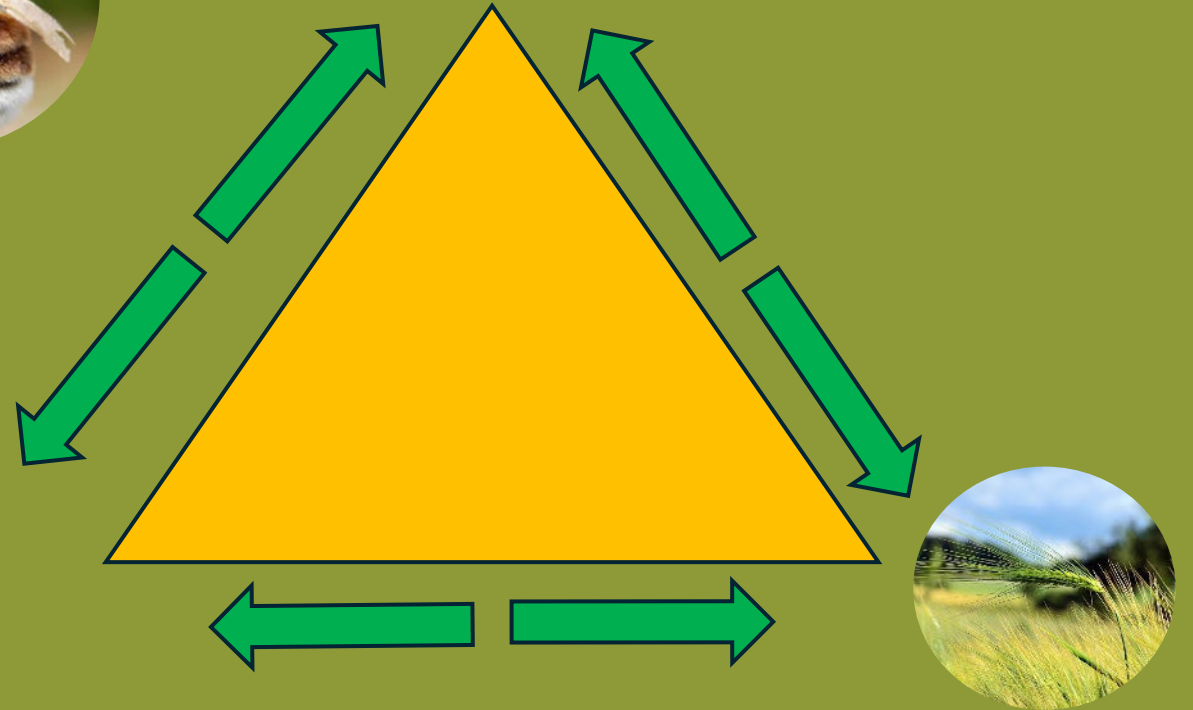
weeds



REALITY



FULL SYNERGY!?



Ella Wooden

Biodiversity Specialist
FAO

Pollinator Platform
& 25 years of IPI





COMMISSION ON
GENETIC RESOURCES
FOR FOOD AND
AGRICULTURE

Towards a Global Pollinator Platform – strengthening coordination for the conservation and sustainable management of pollinators

Ella Wooden

Technical Officer, FAO Commission on
Genetic Resources for Food and Agriculture



Pollinators are critical for food production and security, human and ecosystem health, and improving human livelihoods

1996

The importance of pollinators for crop production and yields
CBD COP 3 (Decision III/11)



2000
2002

In 2000, the IPI was established; the Plan of Action for the IPI was adopted (2002) and invited FAO to facilitate its implementation



2000-
2017

FAO GEF-project: Conservation and Sustainable Management of Pollinators, - largest global project undertaken to date



2010

Adoption of the Strategic Plan for Biodiversity 2011 - 2020 and the Aichi Biodiversity Targets



2014-
2016

IPBES Assessment of pollinators, pollination and food production



2017

World Bee Day declared by the UNGA (May 20); FAO to lead the celebrations



2018

Adoption of the IPI Plan of Action (2018 - 2030) (Decision 14/6); FAO continues its lead role in coordinating and facilitating



2022

Adoption of the Kunming-Montreal Global Biodiversity Framework (KM GBF) (Decision XV/4)



2025

25 year celebration of the IPI
*The establishment of the **Global Pollinator Platform** (CGRFA-20/25)





No single dedicated body at global level to:

- **Coordinate** action across countries and initiatives
- Facilitate **data, knowledge**, and genetic resource sharing
- Support **capacity development and research**
- Provide **technical guidance, policy support, and resource mobilization**





“...the Commission recommended that FAO invite, Members, relevant international organizations, technical experts, Indigenous Peoples, local communities, stakeholders and other potential partners, including the Secretariat of the Convention on Biological Diversity, to a meeting to consider next steps in the establishment of a global pollinator platform...”



Global Pollinator Conference

5-6 November 2026
FAO HQ, Rome

Please join us – there's still time to register



Úna Fitzpatrick

Chief Scientific Officer

National Biodiversity
Data Centre

*All Ireland
Pollinator Plan*



All-Ireland Pollinator Plan



www.pollinators.ie

Úna FitzPatrick
National Biodiversity Data Centre



Rialtas na hÉireann
Government of Ireland



Shared Island
Initiative

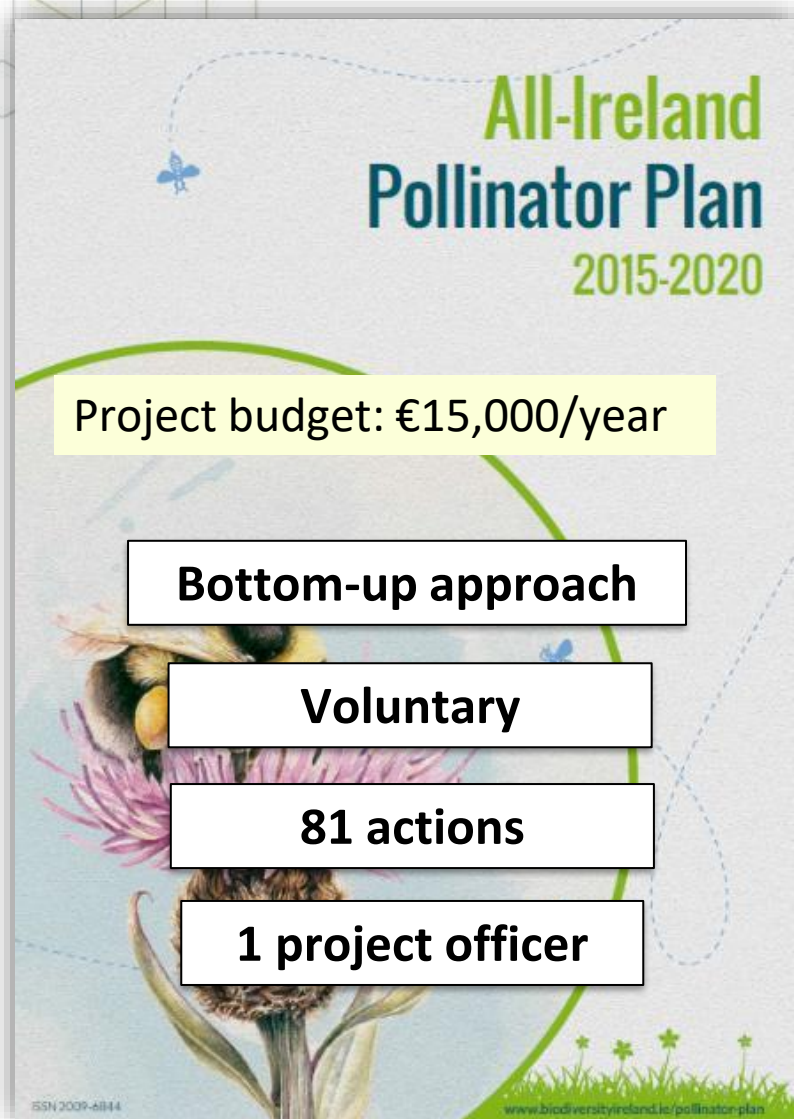
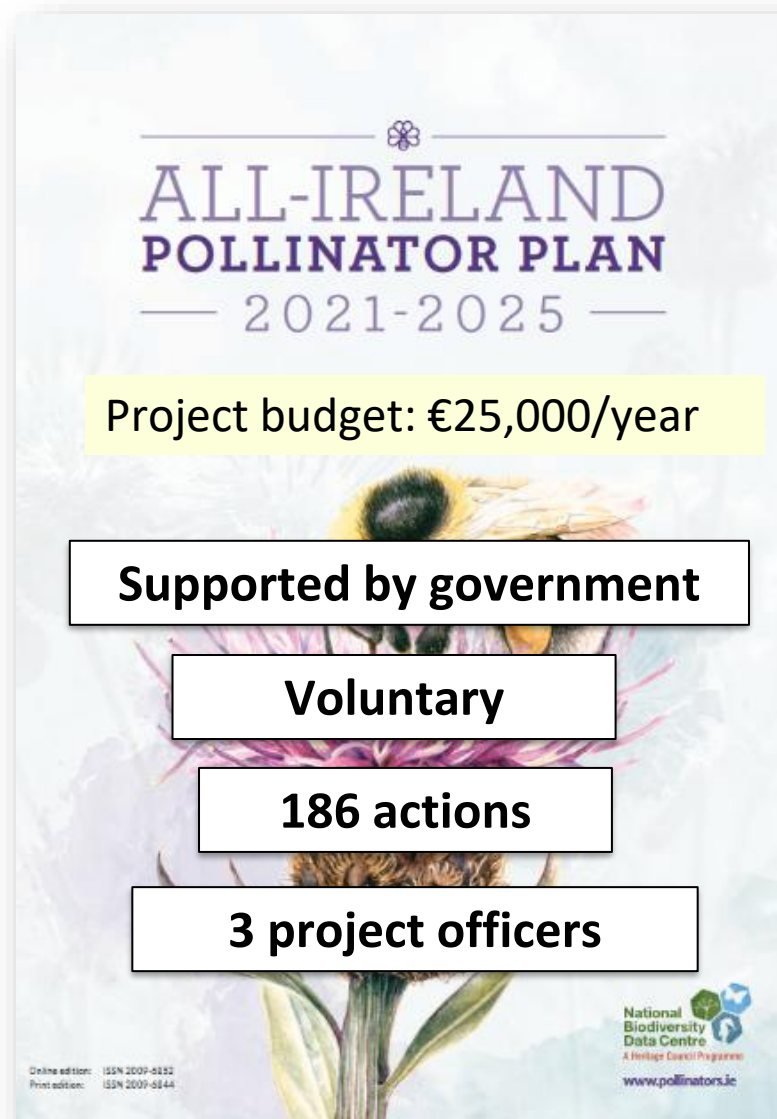


NPWS

An tSeirbhís Páirceanna
Náisiúnta agus Fiadhúlra
National Parks and Wildlife Service

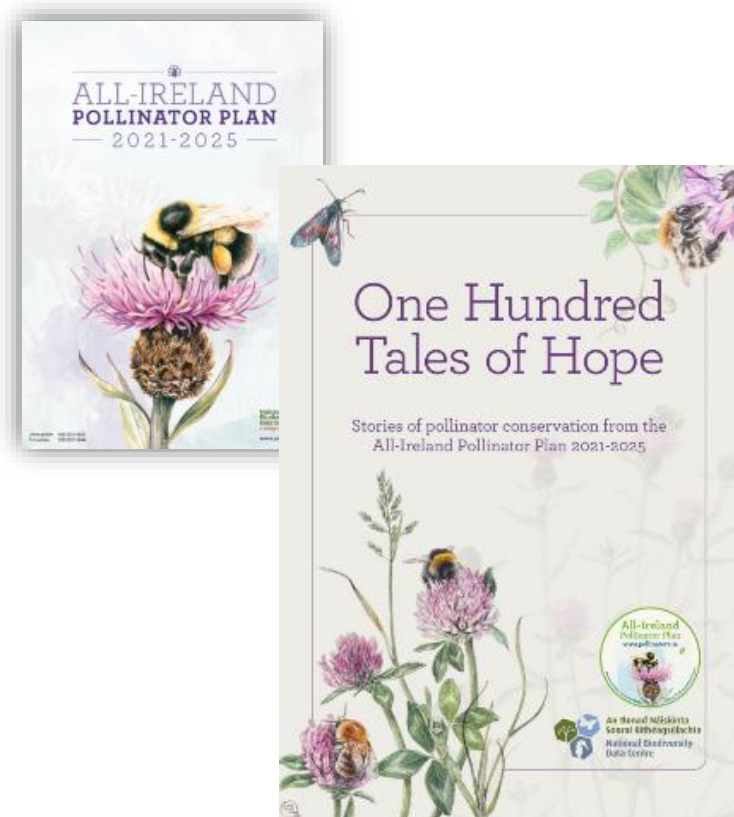


An Roinn Talmhaíochta,
Bia agus Mara
Department of Agriculture,
Food and the Marine



Successes across the island

Actions were delivered



**Evidence-based toolkits
by sector**



**100% of Councils have
become partners**



Developed an evidence-based pollinator-score for **farms** in collaboration with farmers



An Roinn Talmhaíochta,
Bia agus Mara
Department of Agriculture,
Food and the Marine

200+ **local communities** have become pollinator friendly



Schools have become pollinator friendly



Number of people
recording wild
bees increased by
300%

Transport Authorities are making their networks pollinator friendly



Organisations with **site networks** are making these pollinator friendly



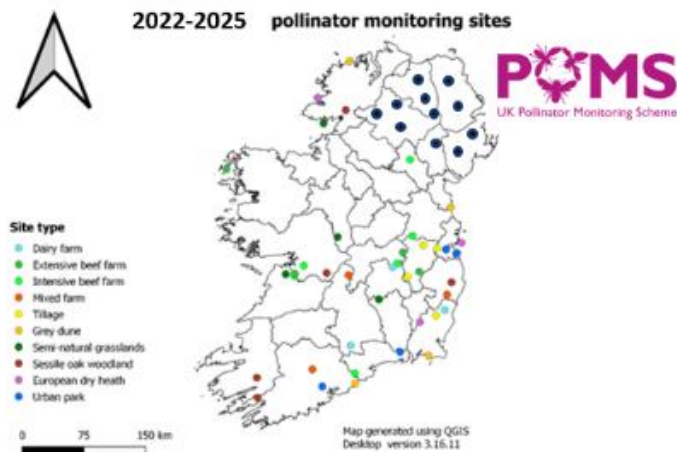
Public support for pollinator conservation

18% of the public have taken actions as part of the All-Ireland Pollinator Plan

67% are interested in learning more about the Plan

Nationally representative poll (IE), 2025

Network of **monitoring**
sites has been established



Supplemented by citizen science schemes



Initiatives on **rare**
species



Irish Pollinator **Research**
Network established
2017



Published **76** scientific
papers relevant to Irish
pollinator conservation
from 2021-2025

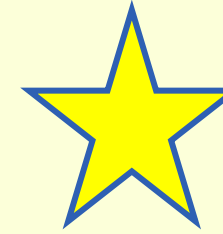
All-Ireland Pollinator Plan

Lessons learned 2015-2025

1. Collectively agree a realistic framework
2. Have a simple core message – *food, shelter and safety*
3. Solutions should be evidence-based and tailored to the target audience
4. Work together and learn from each other
5. Track progress – is it working?



Solutions should be evidence-based and tailored to the target audience



- ✓ Actions are all evidence-based
- ✓ Lots of options – pragmatic and low cost
- ✓ Relevant sectors feed into development
- ✓ Communication is tailored each time
- ✓ **Free and easily accessible**

www.pollinators.ie



- ✓ More ambitious
- ✓ Will support the EU Nature Restoration Regulation (Article 10)
- ✓ Funding: team of 8; total budget €3.6M over 5 years

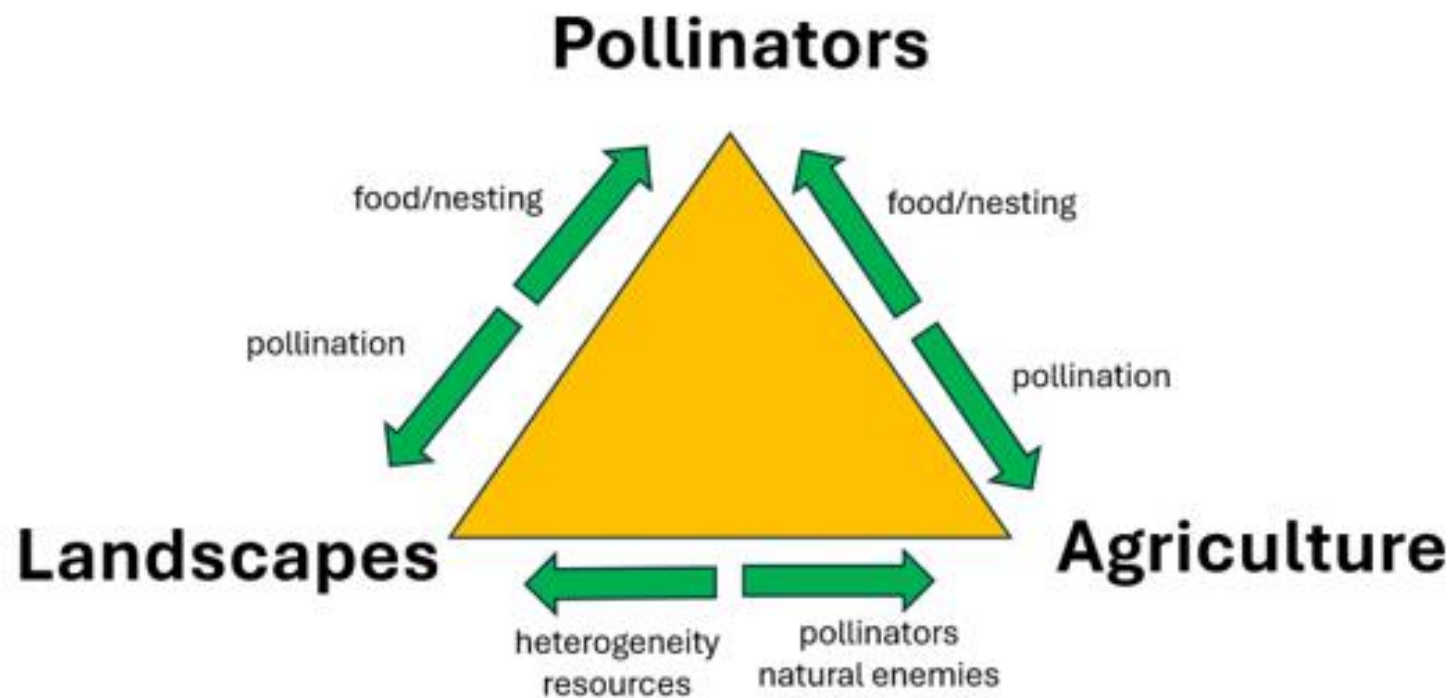
Vision: *pockets of nature every 200m in the landscape providing pollinators with food, shelter and safety*

AIPP 2026-2030: 10 work packages

1. Farmland
2. Local Authorities & Public Bodies
3. Transport Authorities and Utilities
4. Communities
5. Businesses
6. Rare pollinators

7. Mapping actions
8. Monitoring pollinators
9. Research
10. Raising awareness

- ✓ Each has a series of aims and success metrics that will be reported annually
- ✓ Each is supported by partner organisations who engage in knowledge exchange



Engage with more farmers

NATIONAL BIODIVERSITY DATA CENTRE

Farmland Pollinator Tool

Evidence-based tool to assess how pollinator-friendly your farm is

- Completing the Farmland Pollinator Tool should take no more than 15 minutes.
- Answers can be provided in either hectares (and km), or acres (and miles).
- Enter the area of your farm, this value will establish targets for your farm which will be used to generate your score.
- Enter the area and distance information as accurately as possible to get the most representative score for your farm. However, if you don't know the exact values, enter estimated values to get an approximate score.
- When you complete the scorecard you will have the option to submit your score.

Start here:

Your farm area: ha **Select:** ☒ Hectares ☐ Acres

Your overall score (max: 100):

Farm supports Biodiversity = 50+ points. Very biodiversity friendly = 70+

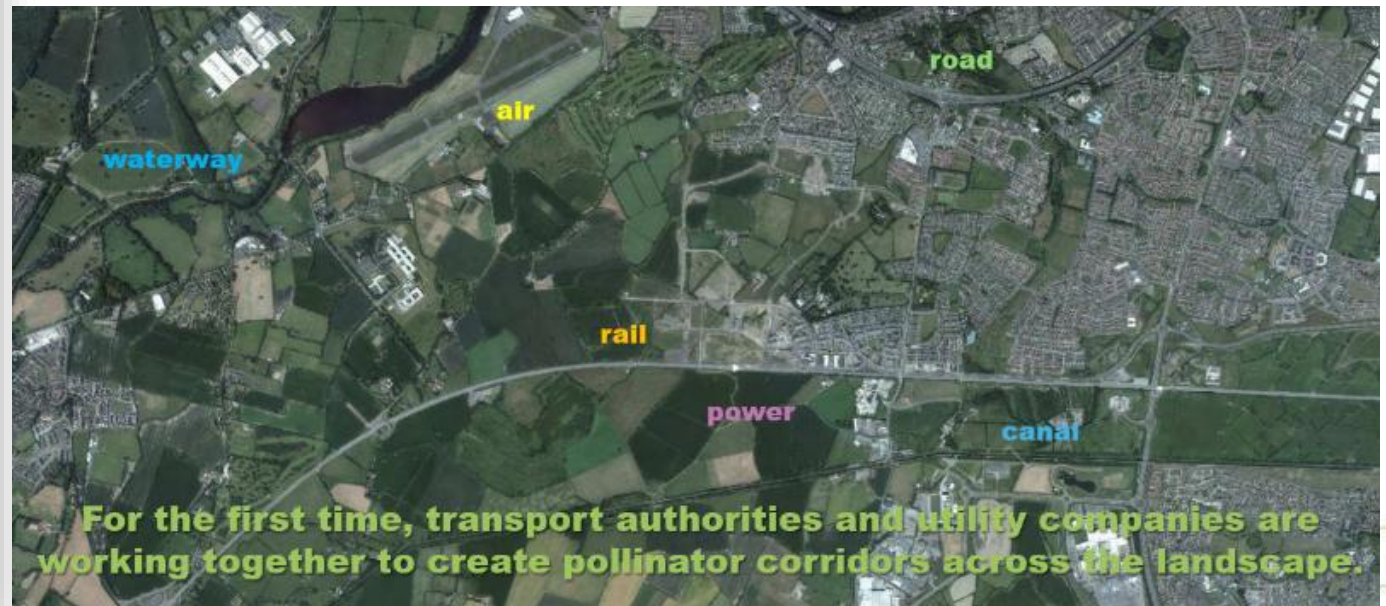
0.0

Farmed Land (Agriculturally Productive Area) (Overall points: 25)

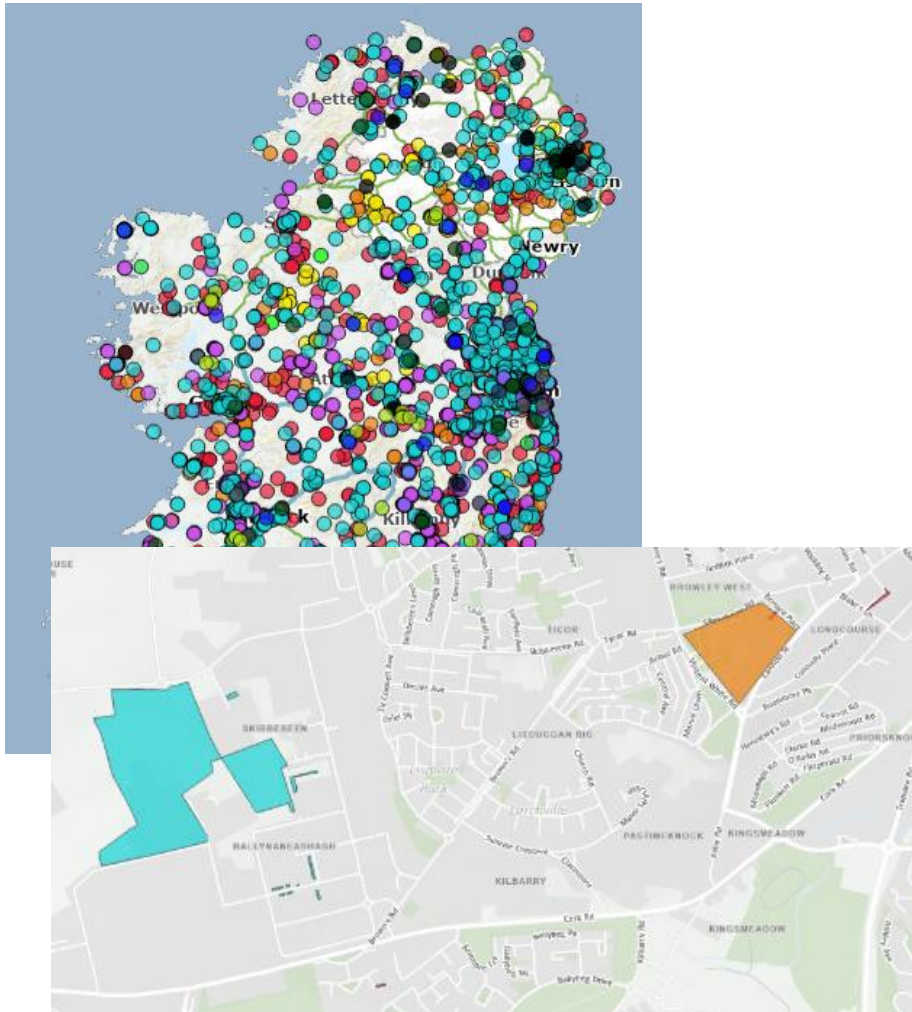
Details	Points	Measurement	Target	Farm measurement	Your points
1 Hay meadow(s)	25	Area(ha)		0.00	0.0
2 Permanent grassland	10	Area(ha)		0.00	0.0
3 Clover pasture or multi-species swards	10	Area(ha)		0.00	0.0
1 Grass margins or buffer strips	10	Area(ha)		0.00	0.0
2 Commercial crops that support pollinators	2.5	Area(ha)		0.00	0.0
Farmed Land (Agriculturally Productive Area):					0.0



More
knowledge
exchange



Better coordinate action across sectors to achieve landscape level change



Will track targets within Article 10 of National Restoration Plan

43

Sites Recorded

189

Actions Recorded

21

Corridors Created

6

Sites not using pesticides

143.07^{sqkm}

Covered by Actions

0.71^{km}

Length of native hedgerow

102.14^{sqkm}

Area of long flowering
meadow

6.94^{sqkm}

Area of short flowering
meadow



- ✓ We are happy to have more detailed or tailored knowledge exchange chats with any country who is interested
- ✓ We are happy for others to adapt any of the resources we have developed, we just ask that the All-Ireland Pollinator Plan is acknowledged

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Rikke Arnouts

Advisor & Researcher

Pollinator landscapes
In Drenthe, NL





Claudia Mayer **GIZ**

*Head of Global
Projects*

Poli-LAC - project
Pollinators and
climate change



BMUKN-IKI: Project Poli-LAC

Regional action for enhanced protection of pollinating insects and pollination services in Latin America and the Caribbean



Supported by:



Federal Ministry
for the Environment, Nature Conservation,
Nuclear Safety and Consumer Protection



Implemented by



Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH



Co-funded by
the European Union

based on a decision of
the German Bundestag

Regional Project Poli-LAC (04/2024 to 12/2028)



Impact:

Improved conservation of wild and managed insect pollinators and their services for biodiversity and ecosystem health, livelihoods of indigenous peoples and local communities, and agricultural productivity.



Objective:

Governmental and non-governmental actors in selected countries in Latin America and the Caribbean have expanded knowledge-based management and governance practices at local, subnational, national, and regional levels that promote the ecosystem service of insect pollination.



Political partners:

- Ministry of the Environment of Peru (MINAM)
 - Ministry of Environment and Energy of Costa Rica (MINAEC)
 - Ministry of Agriculture, Livestock and Supply of Brazil (MAPA)
 - Secretariat of Agriculture and Rural Development of Mexico (SADER)
 - Ministry of Environment and Sustainable Development of Paraguay (MADES)
- (always together with the other ministries for the environment and agriculture)



Commissioning parties:

German Federal Ministry for the Environment, Climate Action, Nature Conservation and Nuclear Safety (BMUKN), with funding from the International Climate Initiative (IKI), and co-financed by the Delegation of the European Union in Paraguay.

What does the project aim to achieve?

Governmental and non-governmental actors in selected countries in Latin America and the Caribbean have expanded knowledge-based management and governance practices at local, subnational, national, and regional levels that promote the ecosystem service of insect pollination.

How do we work?

Thematic line 1: Regional Knowledge Management

Actors of the target group (public, private, society civil, academy) get involved in the regional knowledge management (LAC) about conservation and management sustainable insect pollinators.

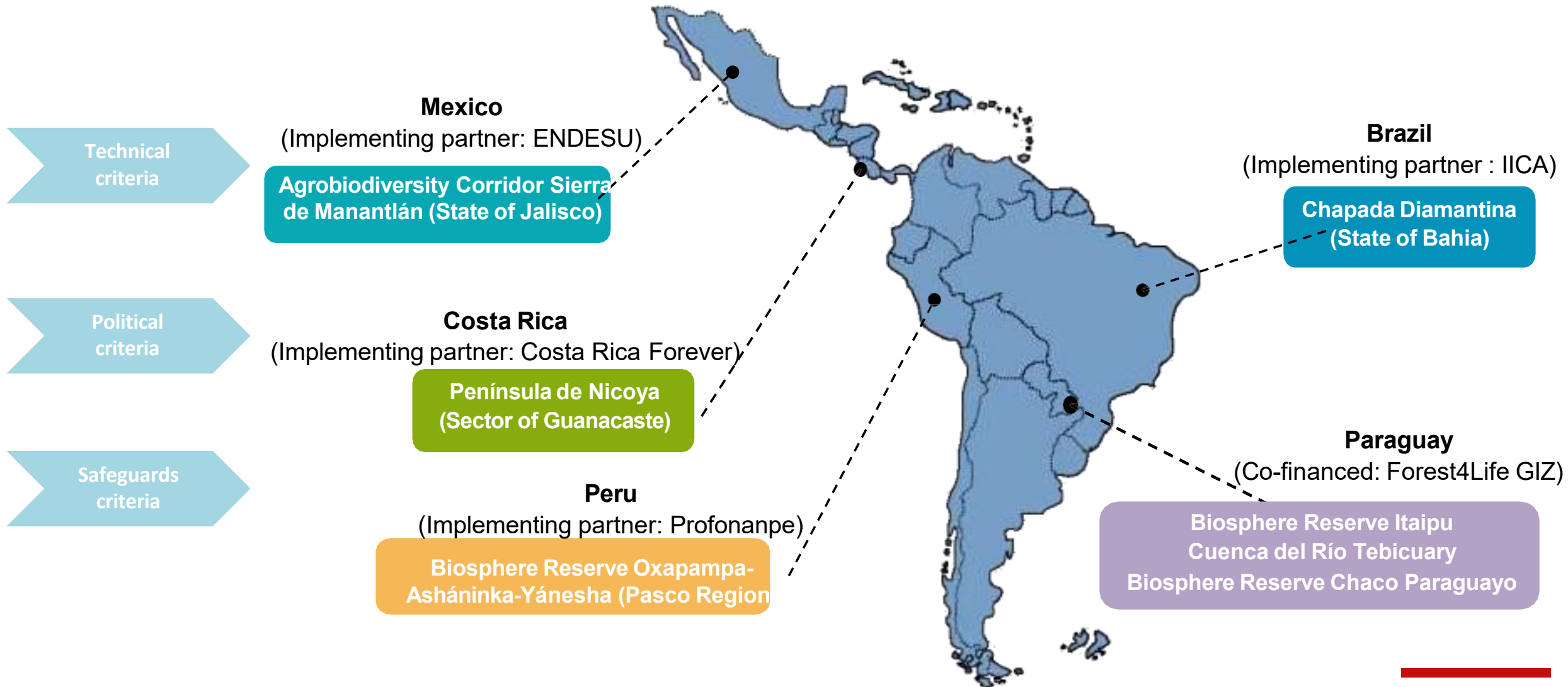
Thematic line 2: Policies, Instruments and Finance

Decision makers (public and private) support and develop policies and instruments and mobilize financial resources for their implementation in a way that actively promotes gender justice.

Thematic line 3: Pollinator-friendly Practices and Monitoring

Local actors in selected landscapes are selected in Brazil, Costa Rica, Mexico, Paraguay and Peru implement insect pollinators friendly practices and use of monitoring tools.

Selected Landscapes for the Local Implementation





Thematic line 3: Pollinator-friendly Practices and Monitoring

What have we achieved so far?

Local actors in selected landscapes in Brazil, Costa Rica, Mexico, Paraguay and Peru **implement practices friendly to pollinating insects and they use tools of monitoring**



1. Each country has **selected pilot sites to implement pollinator friendly practices and technical and participatory monitoring tools** (over 80 pilot sites in total).
 - Main value chains: mango, cocoa, coffee, avocado, watermelon, passion fruit, coconut, citrus, etc.
 - Friendly practices to be implemented are: Maintaining natural habitats, plant native species, mix crop types, reduce the use of pesticides, agroecological practices, and others.
2. **Partnerships with national and local universities to implement technical monitoring in 43 sites in the region and apply capacity building.**
 - University of Costa Rica (UCR) /SRUM Agroecologia
 - Foundation for Support of Culture, Education, Research and Outreach of Alfenas (FACEPE) / Federal University of Alfenas (UNIFAL-MG) / Brazilian Network of Plant-Pollinator Interactions (REBIPP)
 - National Autonomous University of Mexico (UNAM – Mexico) / University of Guadalajara
 - National University of San Marcos (UNMSM) / Technological Institute for Higher Education Alexander von Humboldt (IEST AvH), Peru
 - National University of Asunción (UNA – Paraguay)



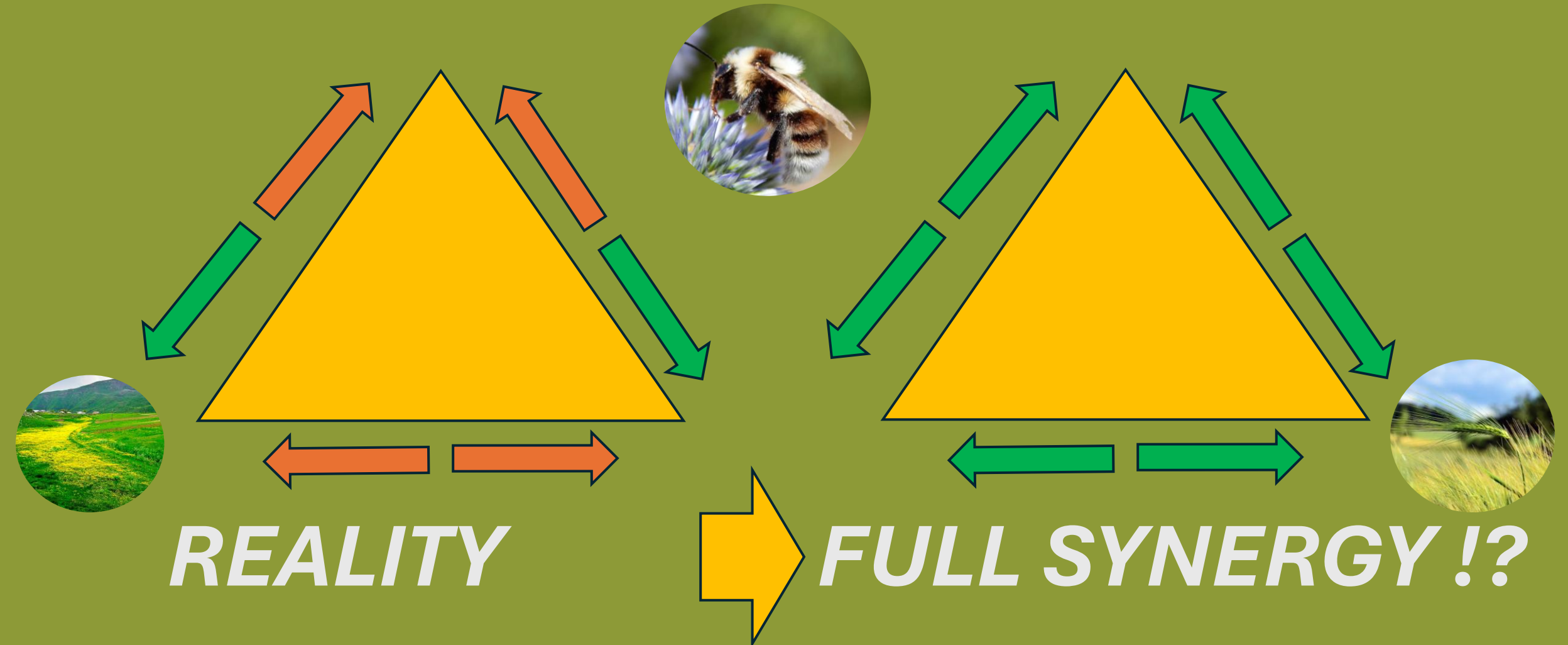
Thank you for your attention!

Contact GIZ:

- Andreas Gettkant, Director Poli-LAC
(andreas.gettkant@giz.de)



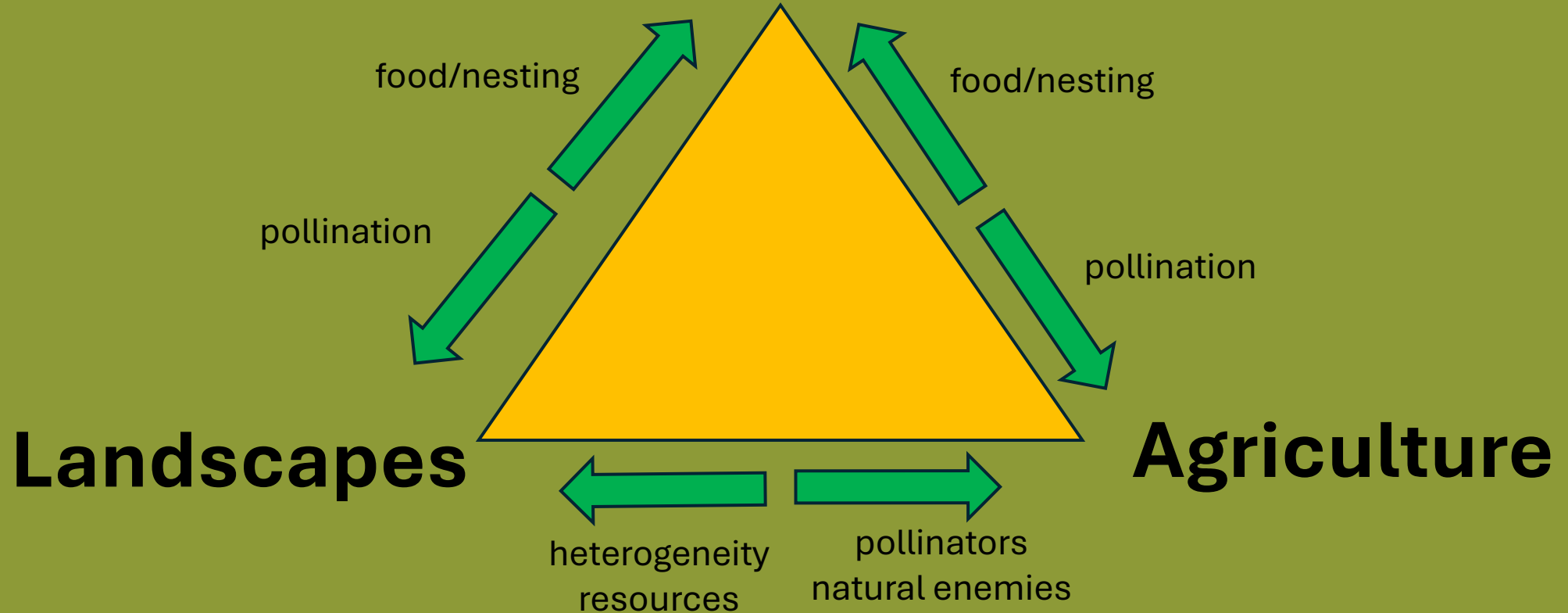
Q&A

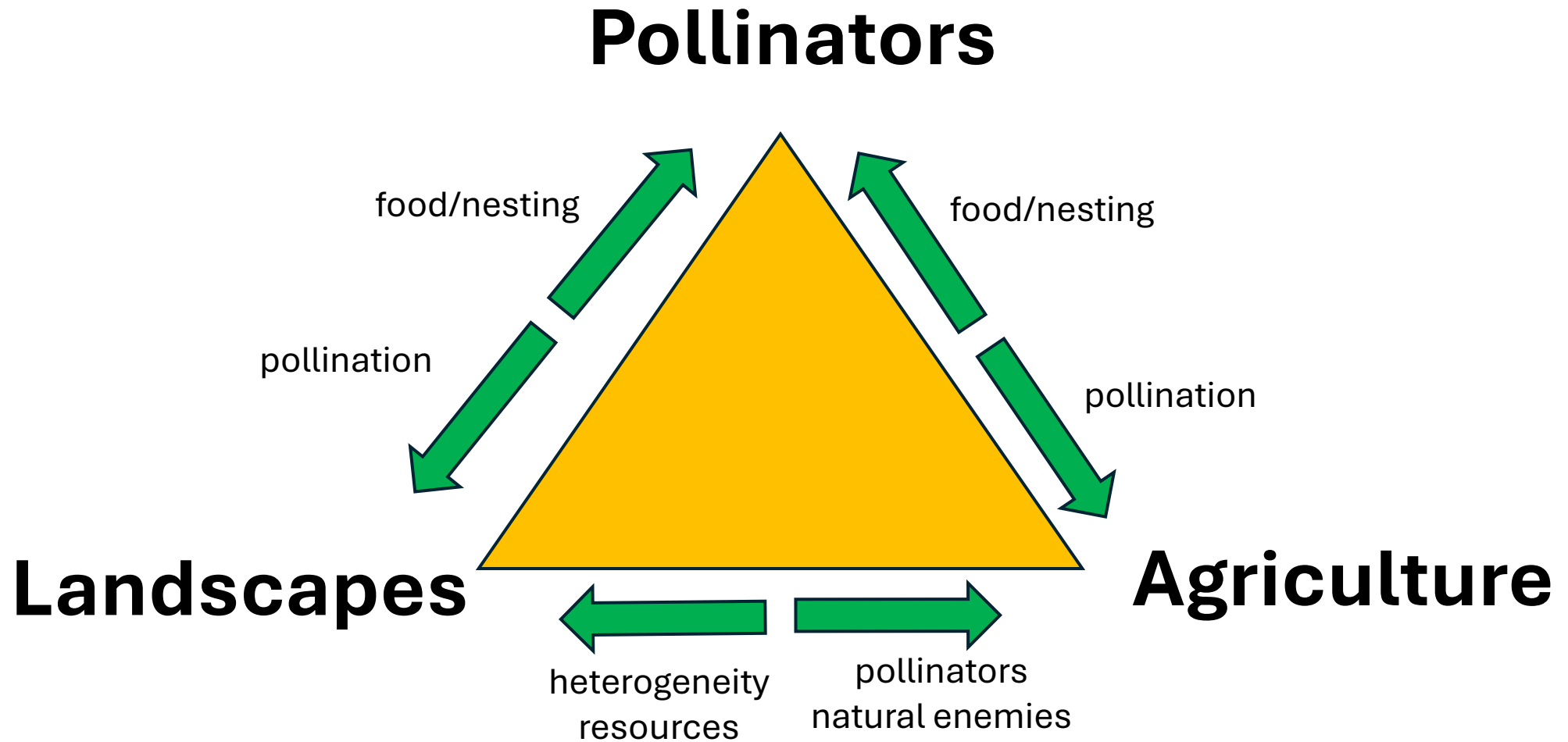


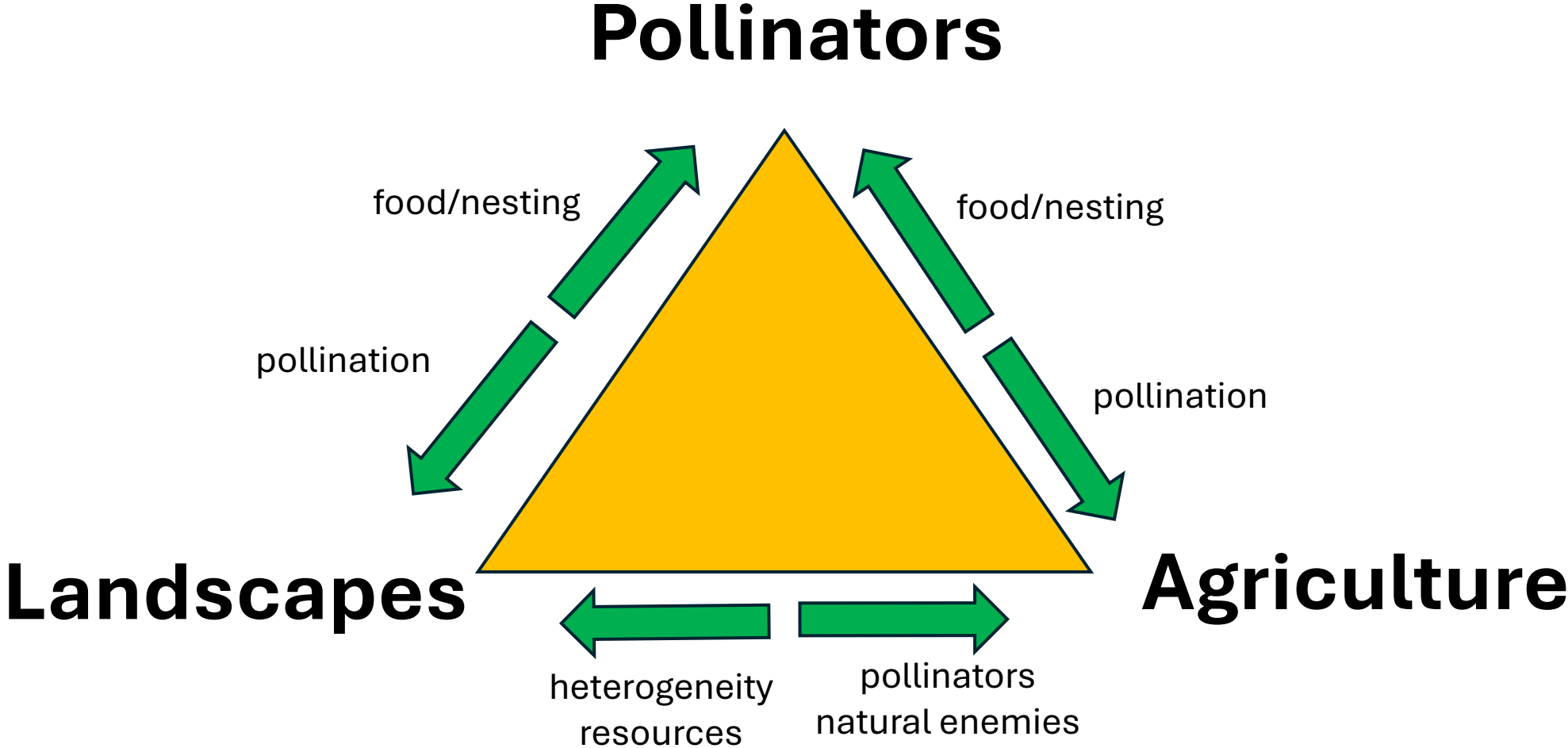
Conclusions



Pollinators







Pollinators

