PROMOTE
POLLINATORS

Webinar ‘Science and policy for effective pollinator protection’

20 mei 2020, The Hague

Campain Korea World Bee Day

Promote Pollinators

- Netwerk We are a network of 30 countries that strives to meet the key messages of the IPBES report on Pollinators, Pollination and Food Production.
- Protecting pollinators We believe that country-led politics can foster policy measures and innovative action on protecting pollinators.
- National strategies We know that national pollinator strategies are an important tool for the conservation of pollinators.

Promote Pollinators: the coalition of the willing

1. Take action
2. Share experience
3. Reach out to stakeholders
4. Develop research
5. Mutually support and collaborate

Program

1. **Martijn Thijssen** welcome and introduction
2. **Caridad Canales Davida** Developments on CBD targets
3. **Jane Stout** Five years later: what we have learned from the All-Ireland Pollinator Plan
4. **Lorna Cole** Evaluation of protective measures in agricultural landscapes
5. **Koos Biesmeijer** Regional collaboration for biodiversity recovery
6. **Arjen de Groot** The key success factors for pollinator initiatives
7. **Vujadin Kovasevic** The EPI monitoring scheme
8. **Martijn Thijssen** Closure of the meeting

Thank you!

Thank you so much for your time and interest. If you have any questions about this presentation or about Promote Pollinators, please do not hesitate to reach out to us at: info@promotepollinators.org or visit our website www.promotepollinators.org.

Convention on Biological Diversity

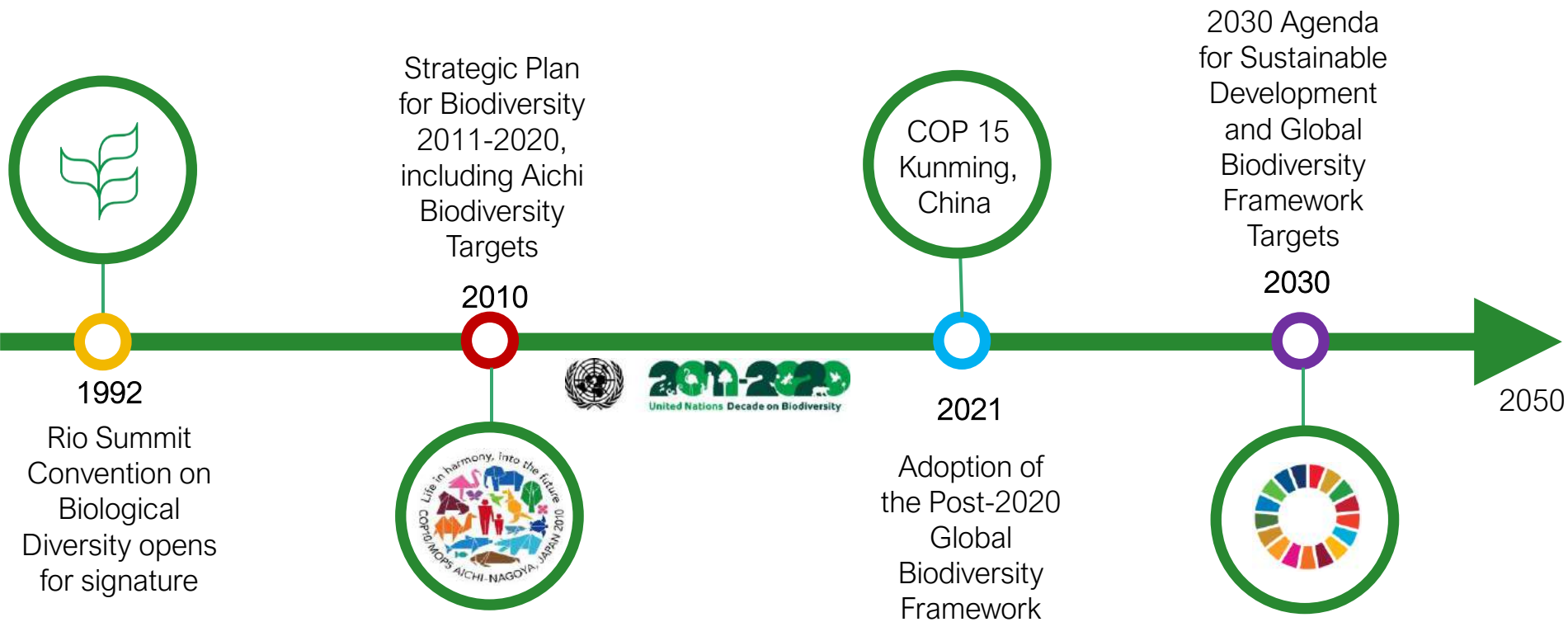
Caridad Canales Davila
Programme Officer, Biodiversity and Agriculture
Convention on Biological Diversity

The process to develop a post-2020 global biodiversity framework

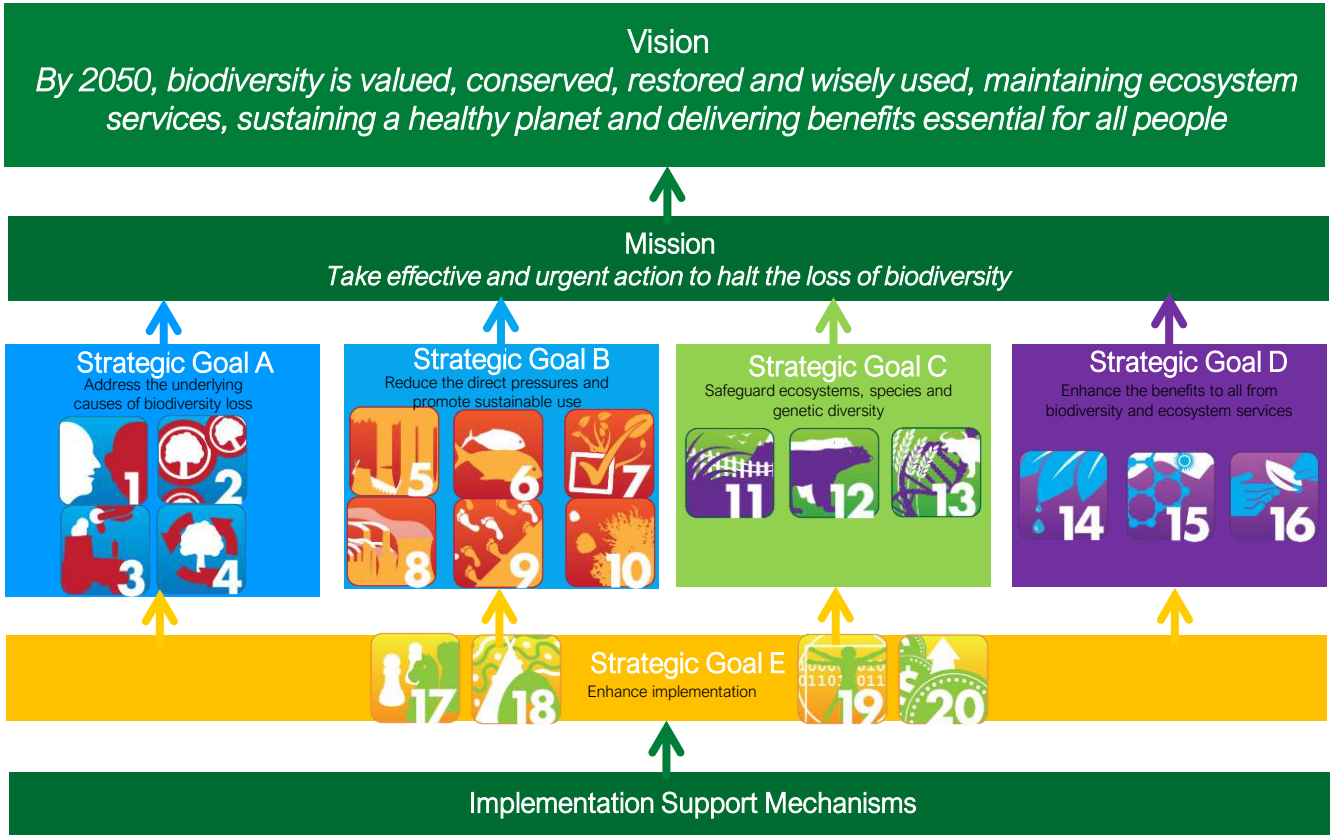
Webinar 'Science and policy for effective pollinator protection'

May 20, 2020

Where we come from and where we want to go …



Strategic Plan for Biodiversity 2011-2020



Source: Global Biodiversity Outlook 4

Aichi Biodiversity Targets

Goal A

Goal B

Goal C

Goal D

Goal E

2020 Deadline

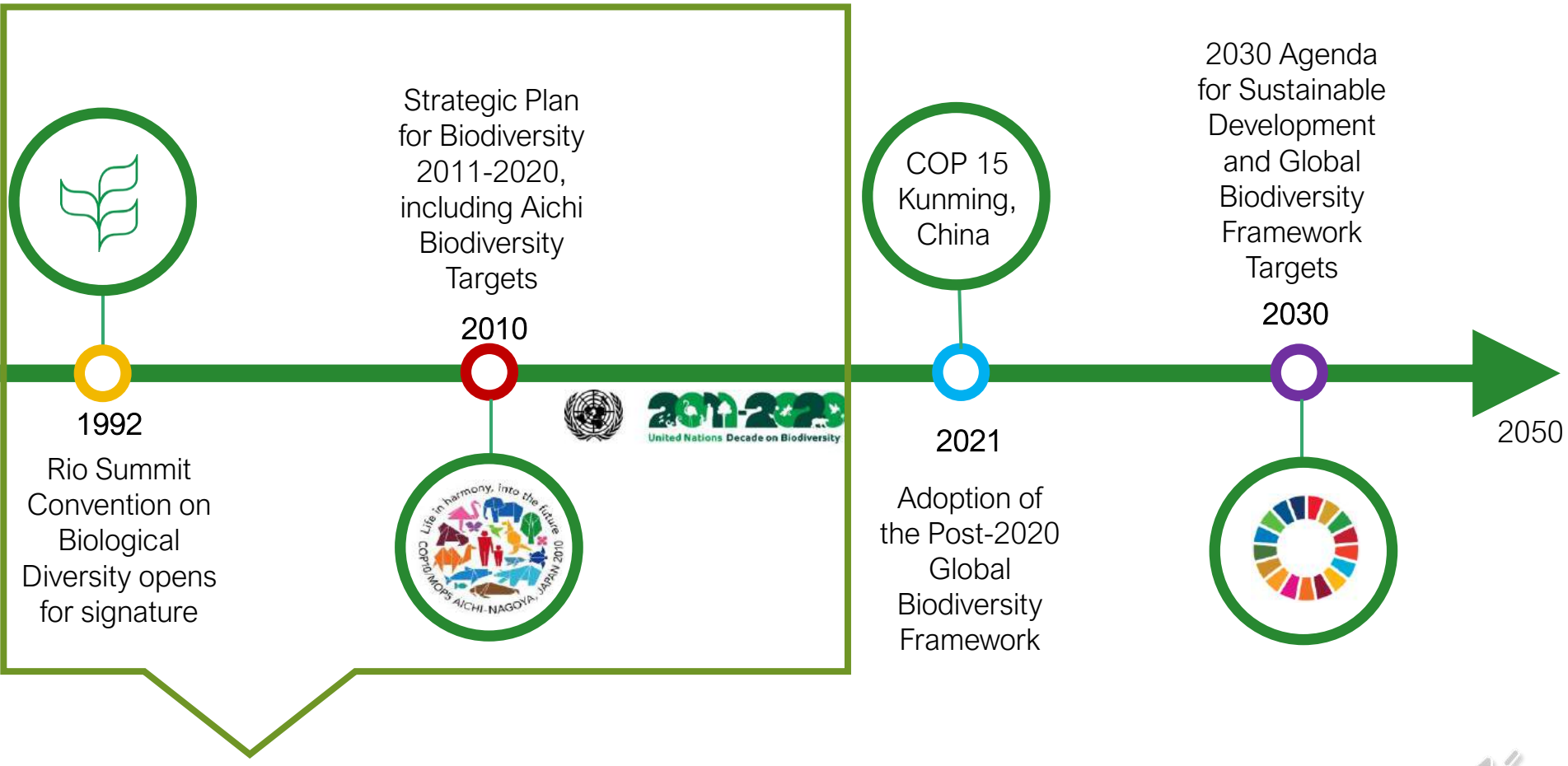
Current Status

Status of Aichi Biodiversity Targets related to productive landscapes and others from IPBES Global Assessment

Target	Target element (abbreviated)	Poor	Moderate	Good
5	5.1 Habitat loss at least halved			
	5.2 Degradation and fragmentation reduced			
6	6.1 Fish stocks harvested sustainably			
	6.2 Recovery plans for depleted species	Unknown		
	6.3 Fisheries have no adverse impact			
7	7.1 Agriculture is sustainable			
	7.2 Aquaculture is sustainable			
	7.3 Forestry is sustainable			
8	8.1 Pollution not detrimental			
	8.2 Excess nutrients not detrimental			
11	11.1 10 per cent of marine areas conserved			
	11.2 17 per cent of terrestrial areas conserved			
	11.3 Areas of importance conserved			
	11.4 Protected areas, ecologically representative			
	11.5 Protected areas, effectively and equitably managed			
	11.6 Protected areas, well-connected and integrated			
14	14.1 Ecosystems providing services restored and safeguarded			
	14.2 Taking account of women, IPLCs, and other groups	Unknown		
15	15.1 Ecosystem resilience enhanced	Unknown		
	15.2 15 per cent of degraded ecosystems restored	Unknown		

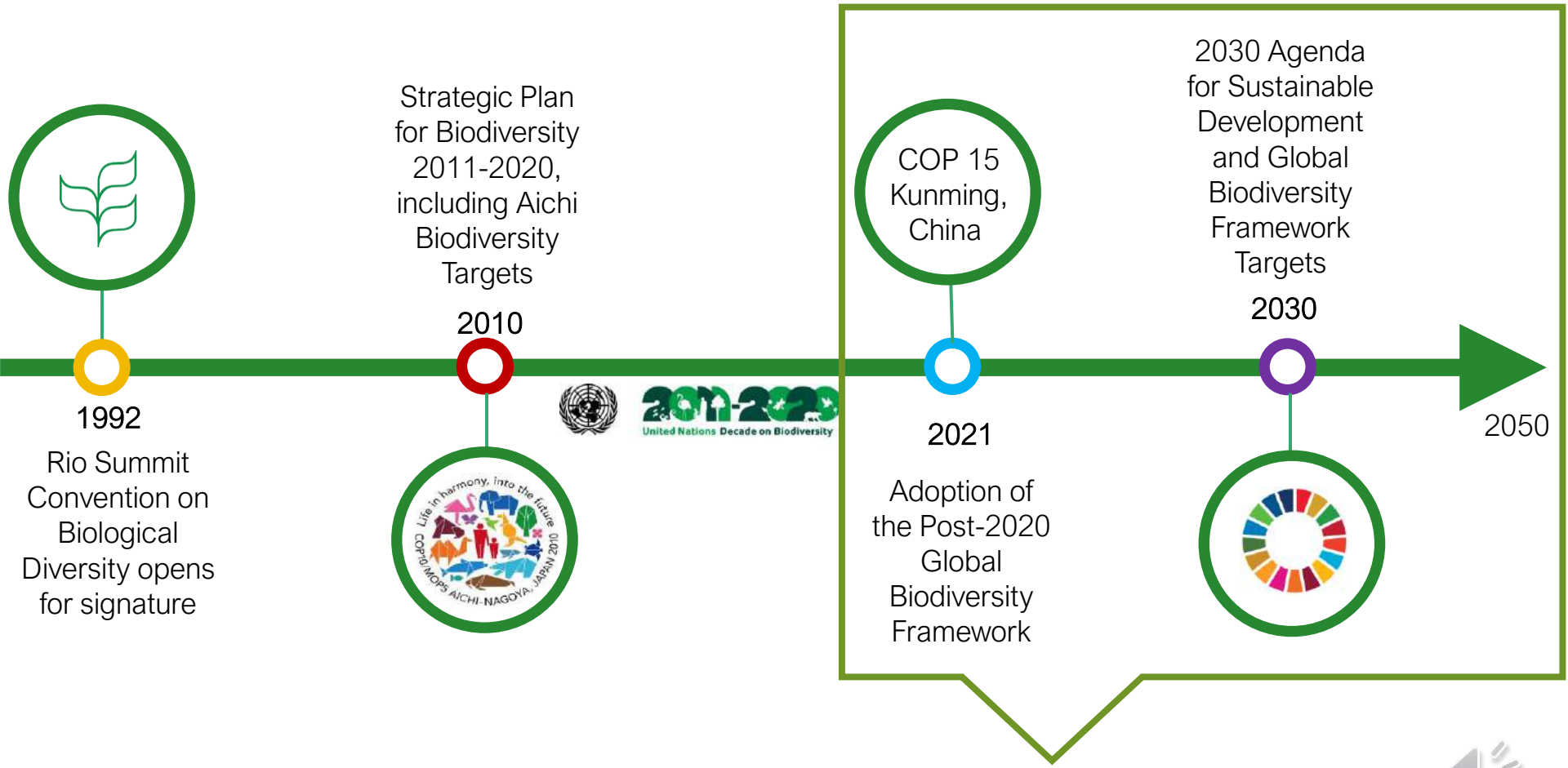
Source: Summary for policymakers of the global assessment report on biodiversity and ecosystem services of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services

Where we come from and where we want to go …



Where we come from….

Where we come from and where we want to go …



Preparatory process for the post-2020 global biodiversity framework

- COP Decision 14/34 sets out the process for developing the post-2020 global biodiversity framework, which comprises:
  - Open-Ended Intersessional Working Group (OEWG)
  - Global, regional and thematic consultations
  - Documents and discussion through Subsidiary Bodies of the Convention
- Open-ended Working Group (OEWG) to discuss the overall development of the Framework
  - Led by two Co-chairs (Basile van Havre from Canada and Francis Ogwal from Uganda) and overseen by the Bureau of the Conference of the Parties.
  - Meetings of OEWG are open to representatives of Parties, other Governments, relevant organizations and stakeholders
- Regional Consultations
  - 5 regional consultations (January-May, 2019)
- Thematic Workshops
  - These include ecosystem restoration, marines and coastal biodiversity, area-based conservation measures, resource mobilization, etc.

Preparatory process: Organization of work

Phase 1: Regional Consultations

- Call for submissions
- 5 Regional meetings (done)
- International Fora
- OEWG 1 - Aug. 2019 (Nairobi)

Phase 2: Thematic Issues

- Thematic consultations
- SBSTTA 23 – Nov. 2019 (Montreal)
- Zero Draft of the Global Biodiversity Framework
- OEWG 2 - Feb. 2020 (Rome)

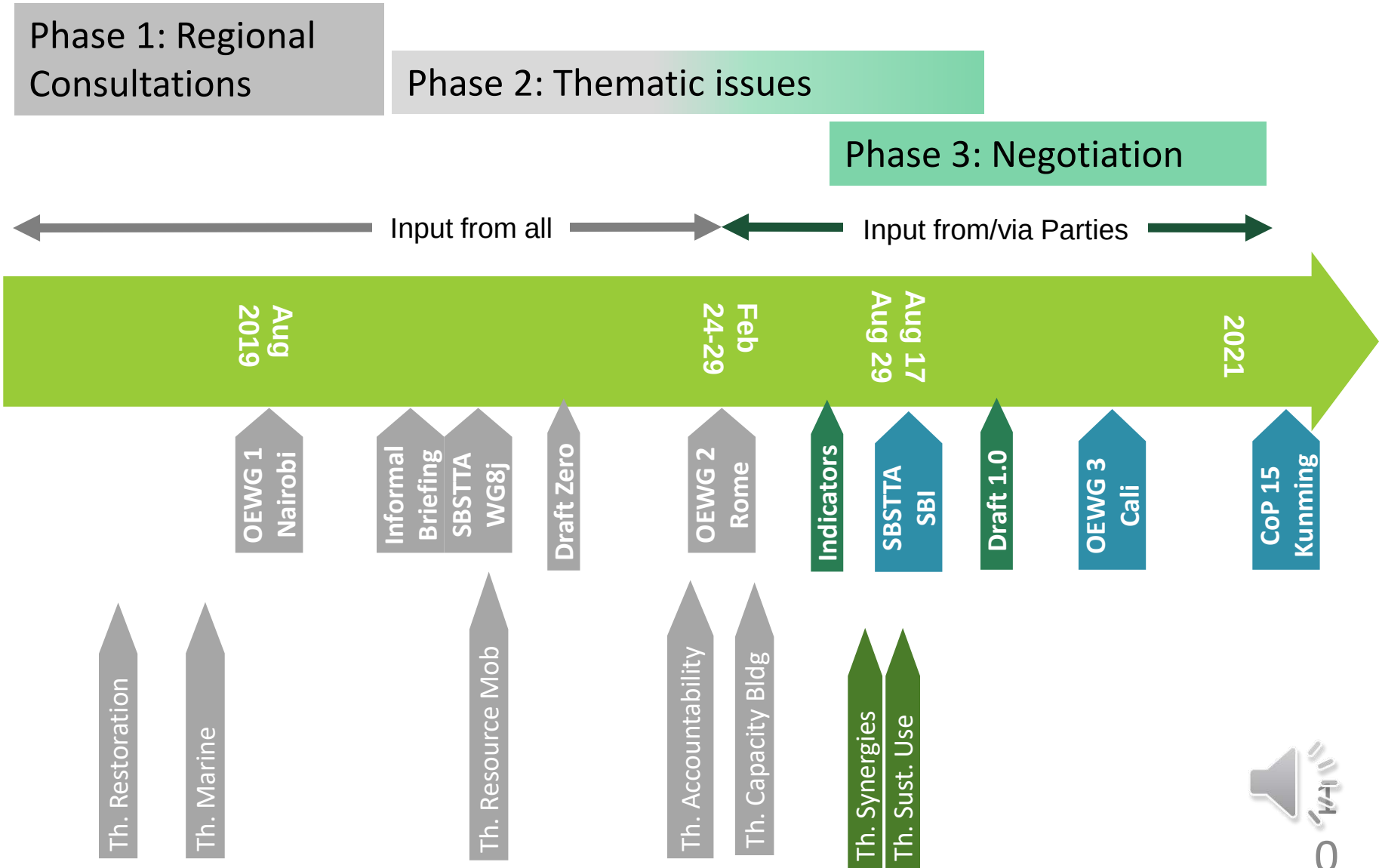
Phase 3: Negotiations

- SBSTTA 24 – Aug. 2020 (Montreal)
- SBI – Aug. 2020 (Montreal)
- First Draft of the Global Biodiversity Framework
- OEWG 3 – date TBC (Colombia)

COP 15 – Kunming, China

- Adoption of the post-2020 Global Biodiversity Framework

Preparatory process for the post-2020 global biodiversity framework



Preparatory process: Opportunities to engage

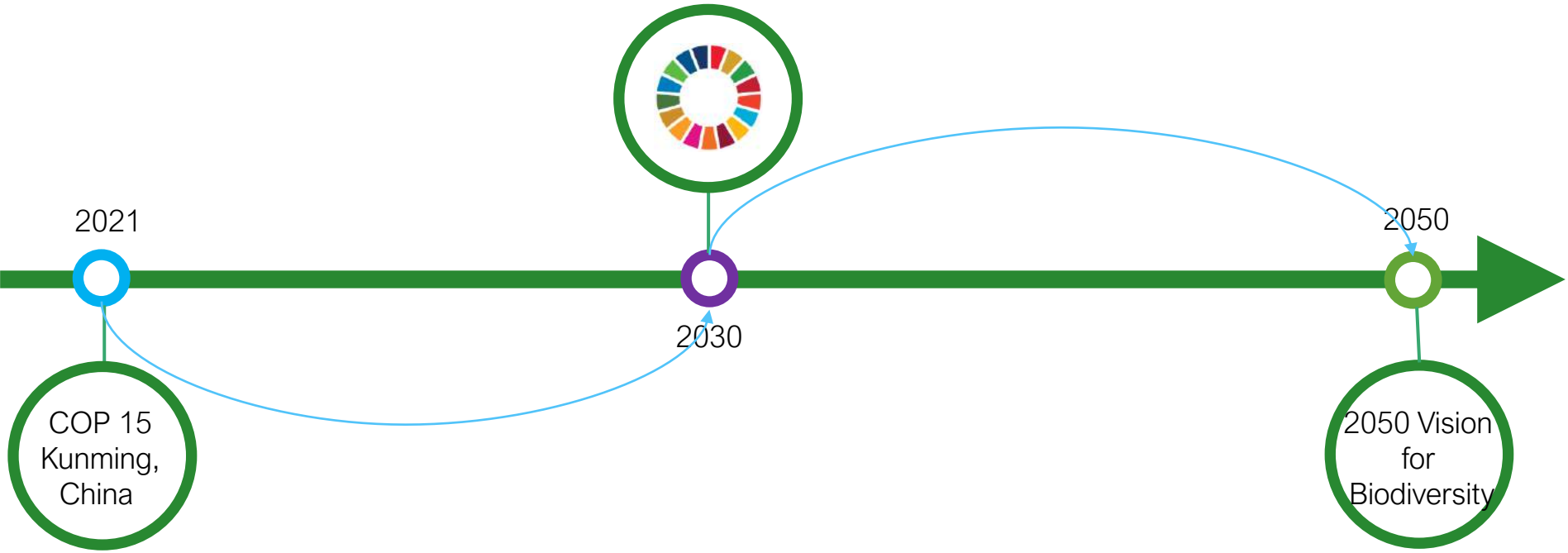
- Peer review process for documentation prepared for SBSTTA and SBI meetings – end of May to mid June 2020

- Participate in CBD formal bodies (OEWG, SBSTTA, SBI)
- Upcoming virtual consultation on sustainable use and other workshops/meetings

- Sharm El-Sheikh to Kunming **Action Agenda for Nature and People**
- https://www.cbd.int/action-agenda/

- Other Fora (UN Biodiversity Summit, IUCN World Conservation Congress, etc.)
- Technical reports and assessments

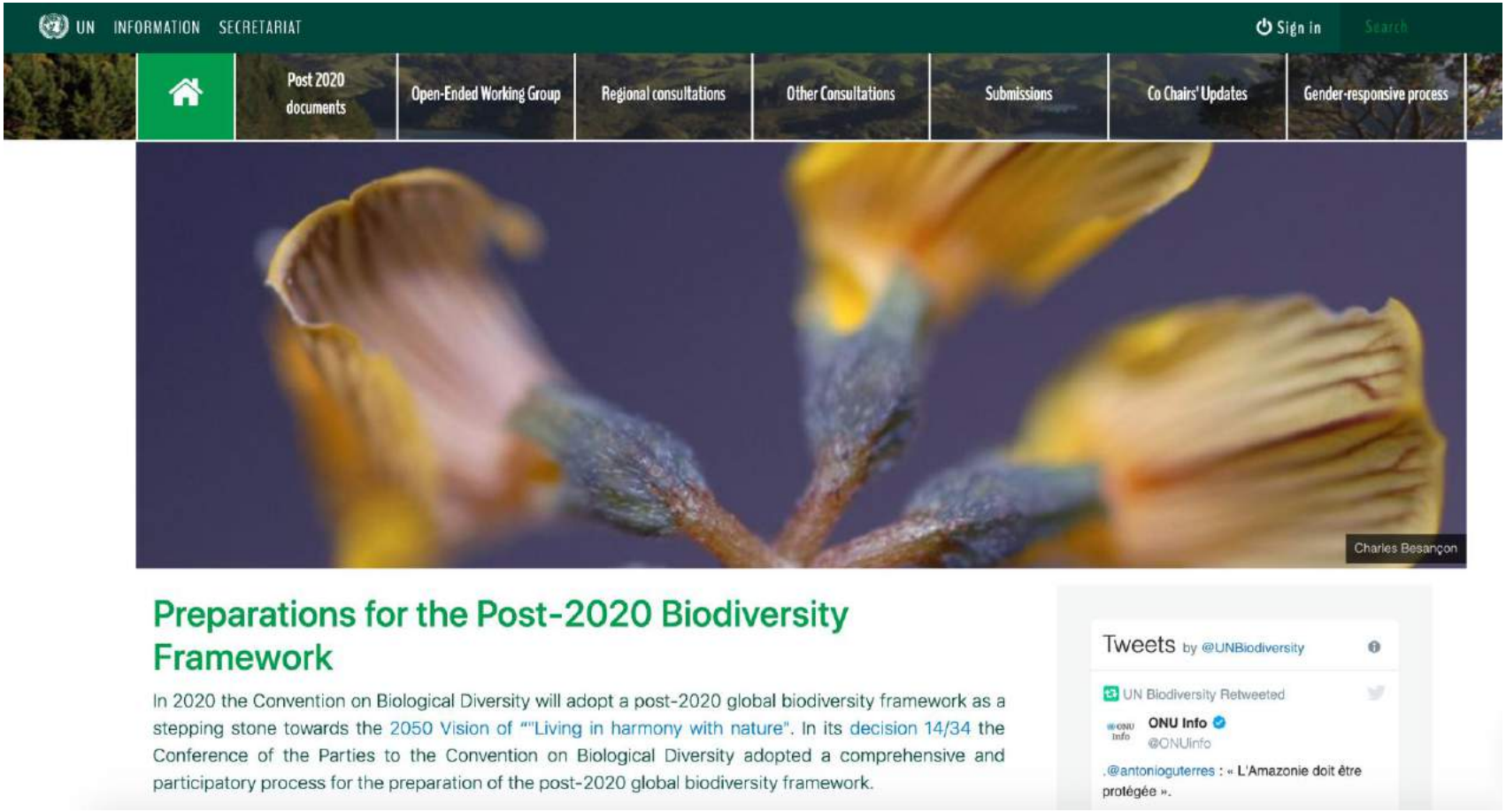
Why engage?



An ambitious and transformative post-2020 global biodiversity framework

"Living in Harmony with Nature"

https://www.cbd.int/post2020



Thank you.

Caridad Canales Davila
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Convention on Biological Diversity

United Nations Decade on Biodiversity

Five years later: what we have learned from the All-Ireland Pollinator Plan

Prof Jane Stout

stoutj@tcd.ie JaneCStout

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

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All-Ireland Pollinator Plan
www.pollinators.ie
Implementation coordinated by the National Biodiversity Data Centre

Úna FitzPatrick

National Biodiversity Data Centre
Documenting Ireland's Wildlife

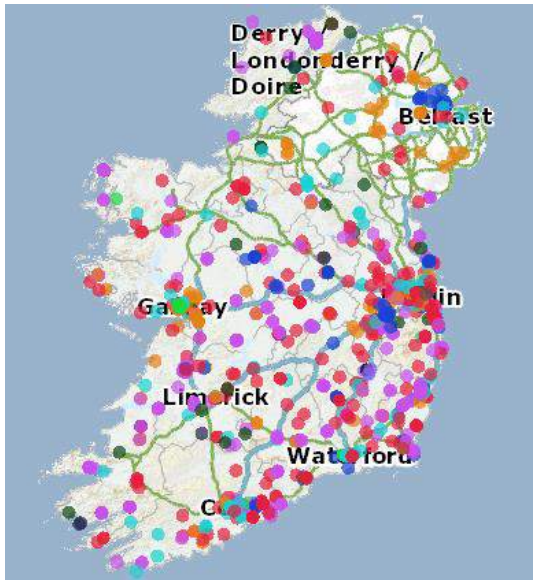
1. Making Ireland pollinator friendly
   - Farmland, public and private land
2. Raising awareness of pollinators and how to protect them
3. Managed bees - supporting beekeepers and growers
4. Expanding our knowledge on pollinators and pollination services
5. Tracking change – collecting evidence to track change and measure success

www.pollinators.ie

Since 2015…

Actions for pollinators across Ireland, across sectors

~4,000 actions over >3,000km^2



Reached all 3,200 primary **schools** in RoI

50% of **Councils** have already formally partnered & agreed to take actions

162 **local communities** have become pollinator-friendly

The number of **business** supporters now stands at **239**

Policy National Biodiversity Action Plan 4.1.8. "Implement the All-Ireland Pollinator Plan"

Joined global efforts via **Promote Pollinators**

www.pollinators.ie

What's worked? 1 Partnerships, collectively-agreed, shared plan of action

100+ partners fund their own actions

Republic of Ireland and Northern Ireland are working together to share knowledge, experience and resources to address the problem

www.pollinators.ie

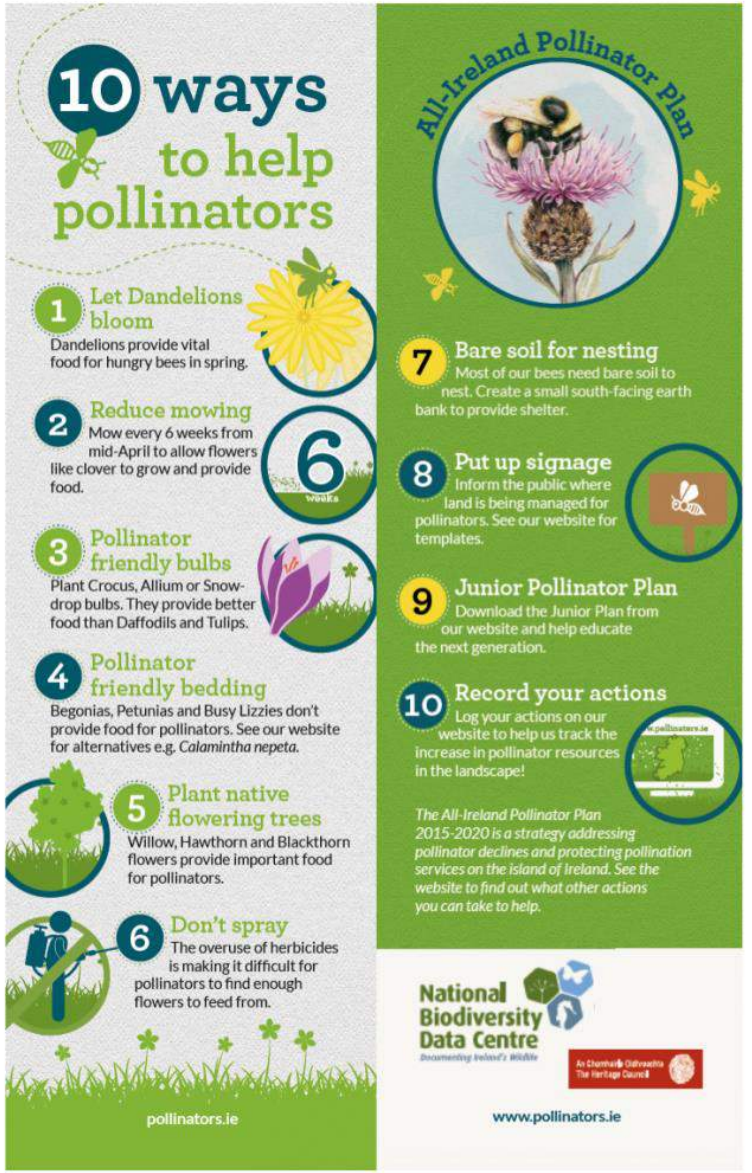
What's worked? 2 Publishing evidence-based actions on how to help

- ✓ Pollinator-friendly actions, each very clearly explained
- ✓ Lots of **options**
- ✓ All actions are pragmatic & low cost
- ✓ Free on website

www.pollinators.ie

What's worked? 3 Positive messages

- ✓ Celebrate what we have
- ✓ Bees as a vehicle for wider biodiversity
- ✓ Celebrate best practice
- ✓ It is important that people feel they are part of something – ***together we can make a difference***



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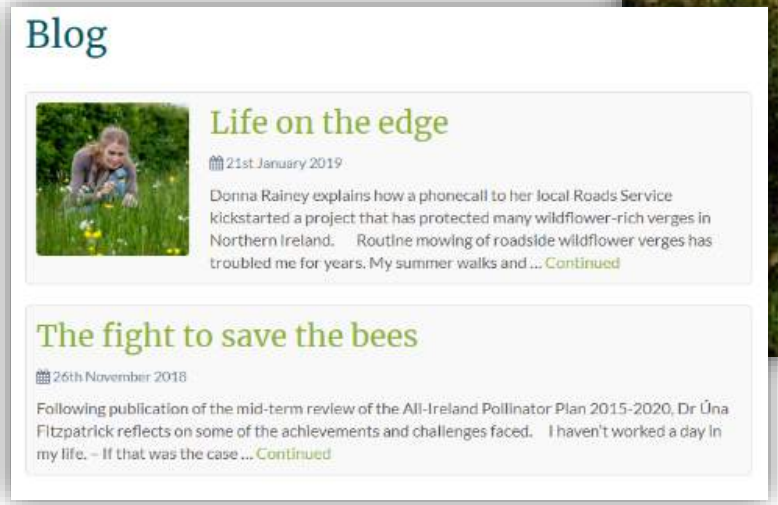
What's worked? 4 Simple messages and branding, range of comms approaches

Need to manage the landscape in a way that provides these wild bees with the **food, shelter and safety** they need to survive

ANIMATION: All-Ireland Pollinator Plan



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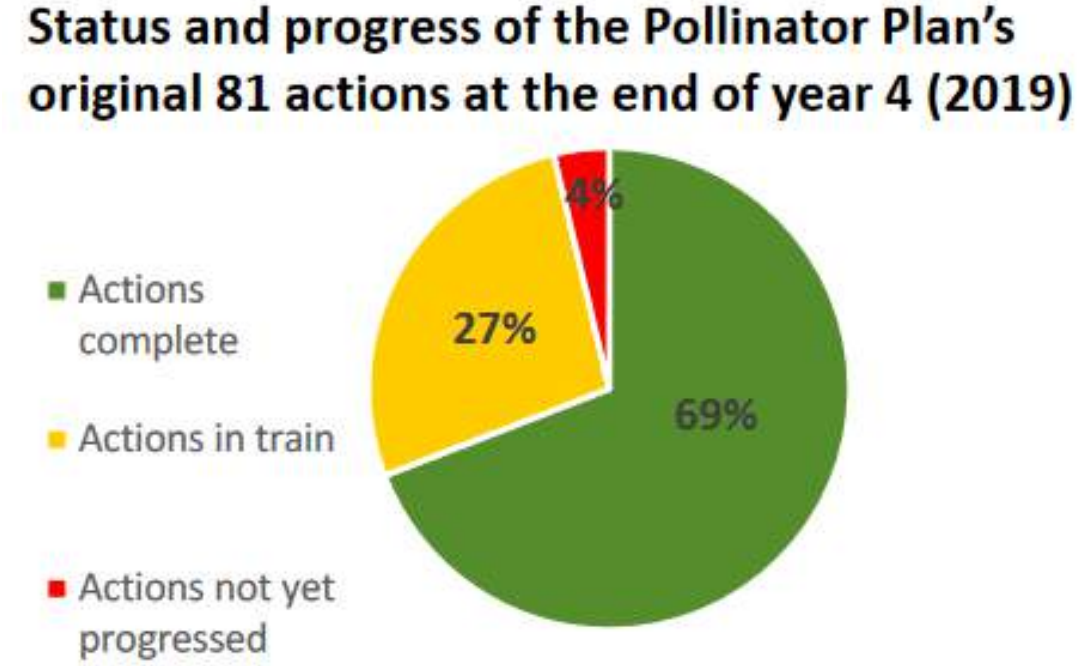
What's worked? 5 bottom-up, transparent, voluntary approach

Use existing networks/partnerships to encourage implementation and roll out



✓**96%** of the 81 actions completed or in train

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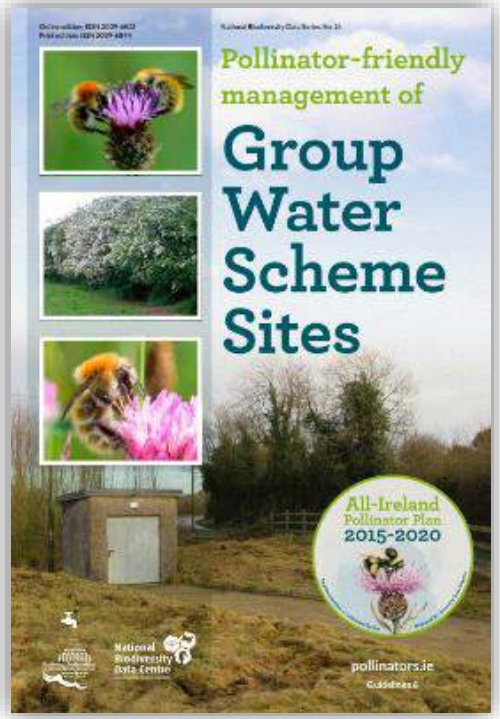
What's worked? 6 Evolve and take opportunities as they arise



- ✓ Allow the initiative to evolve as opportunities and unexpected synergies arise

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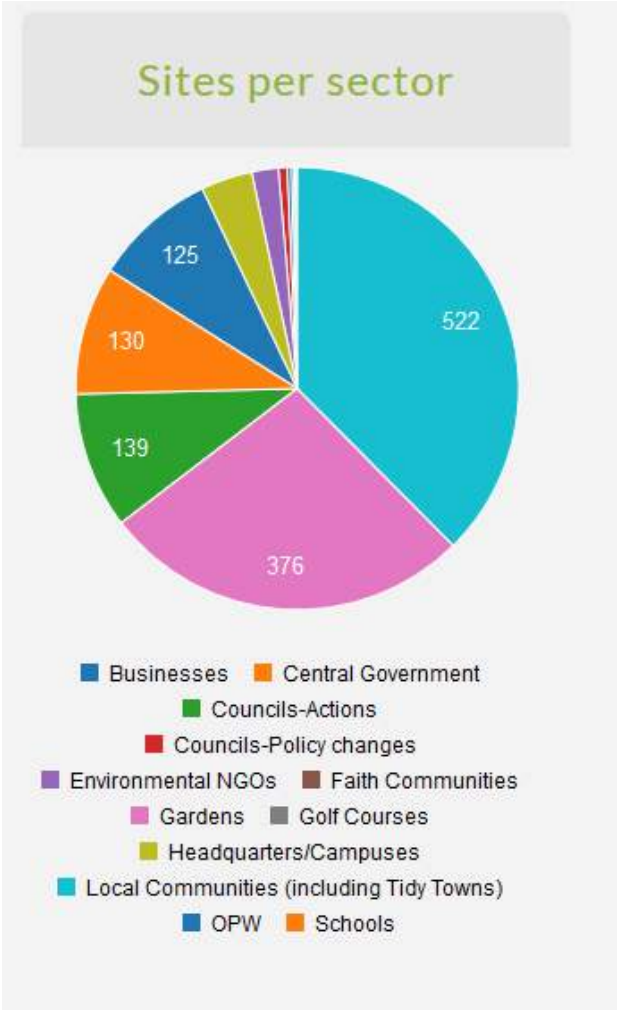
What's worked? 7 Measuring and communicating success

Short-term

Buy-in

Medium-term

Returning food and shelter to the landscape



'Actions for Pollinators'

pollinators.biodiversityireland.ie

National Biodiversity Data Centre
Documenting Ireland's Wildlife

Long-term

???

www.pollinators.ie

What's worked?

1 Partnerships, collectively-agreed, shared plan of action

2 Publishing **evidence-based** actions on how to help

3 Positive messages

4 Simple messages and branding, range of approaches

5 Bottom-up, transparent, **voluntary** approach

6 Evolve and take **opportunities** as they arise

7 Measuring and communicating success

www.pollinators.ie

Úna FitzPatrick

Juanita Browne

Erin Jo Tiedeken

Gemma Hughes

Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

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Documenting Ireland's Wildlife

MAKING THE CAP FIT FOR POLLINATORS

Lorna Cole, Jeroen Scheper, David Kleijn, Lynn Dicks, Jane Stout, Simon Potts, Koos Biesmeijer and the Super-B Team

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Leading the way in Agriculture and Rural Research, Education and Consulting

Agricultural Drivers

Negative Drivers

Loss of semi-natural habitats
Loss of traditional practices
Use of agrochemicals
System specialisation
Managed pollinators

Positive Drivers

Voluntary initiatives
IPM
Agri-environmental policy
Regulatory compliance
Diversification
AECS, EFAs
eco-schemes

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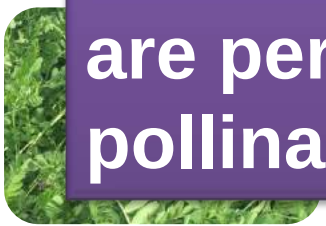
Ecological Focus Areas

Aim:
Evaluate the resources different EFAs offer to determine how well they are performing for pollinators.

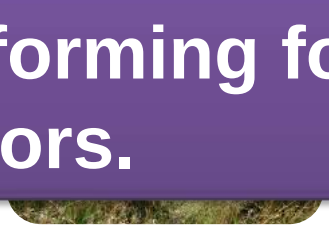
Forest edges

Compulsory Greening

CAP 2014
19 EFA options



Catch cover



Fallow land

Agroforestry

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Cluj Workshop

What Resources?

- Nesting sites
  - Bumblebees
  - Solitary bees
- Hoverfly larvae
  - Insectivorous
  - Saprophytic
- Floral
  - Early, mid, late season
  - Open flowers, tubular flowers

Define management

- Standard
- Pollinator friendly

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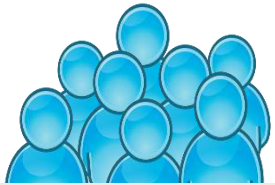
Delphi Technique

22 experts from 18 countries. scored EFAs under standard & pollinator-friendly management

Average score per region calculated

Experts revise scores based on group response & justify scores

Final Scores Derived



Northern Europe
8 countries

Southern Europe
5 countries

Eastern Europe
5 countries

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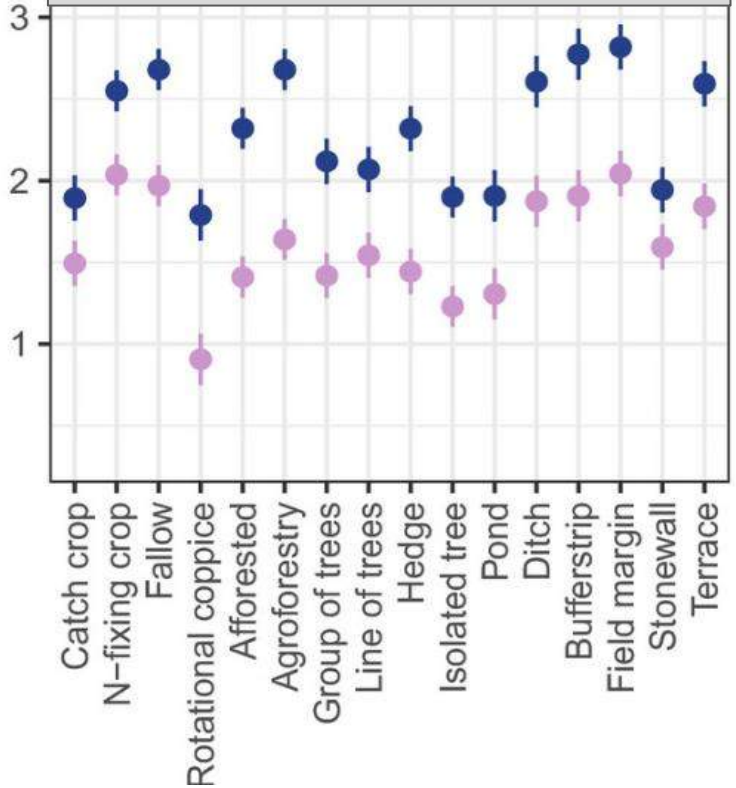
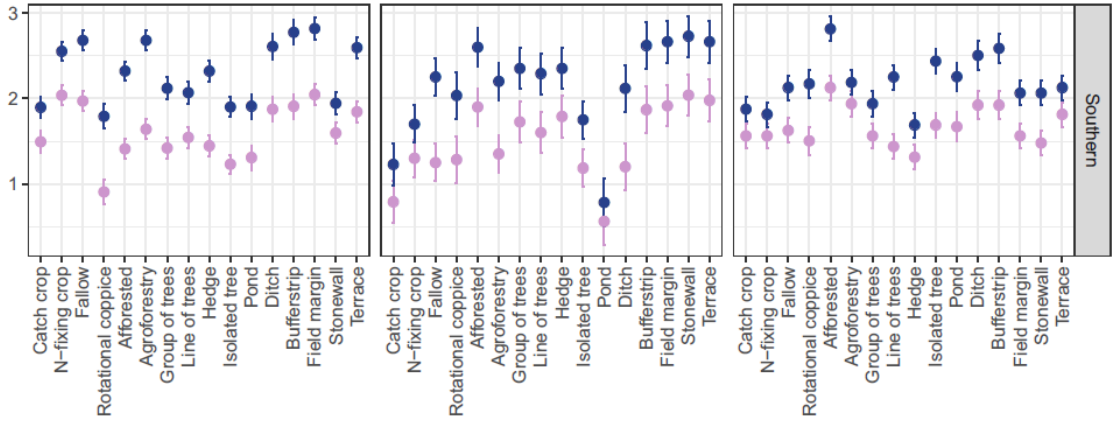
Pollinator friendly
Standard

Floral resources S. Europe





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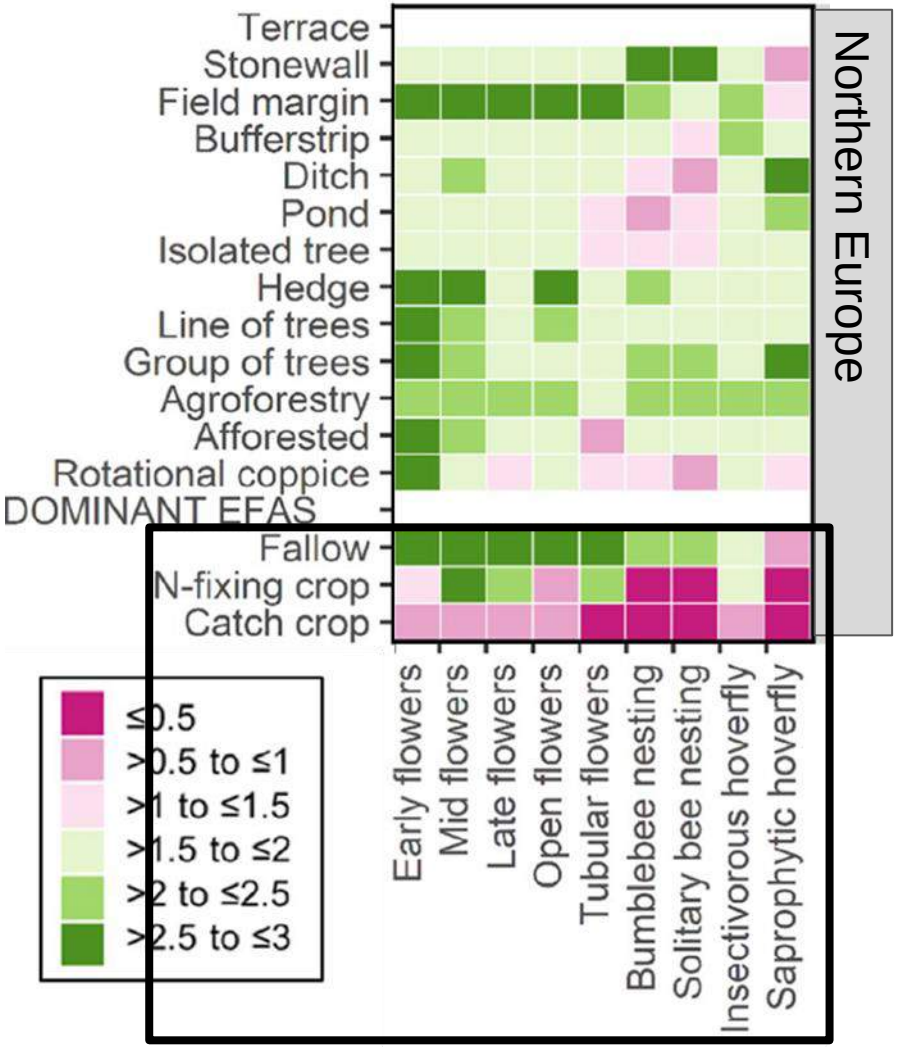
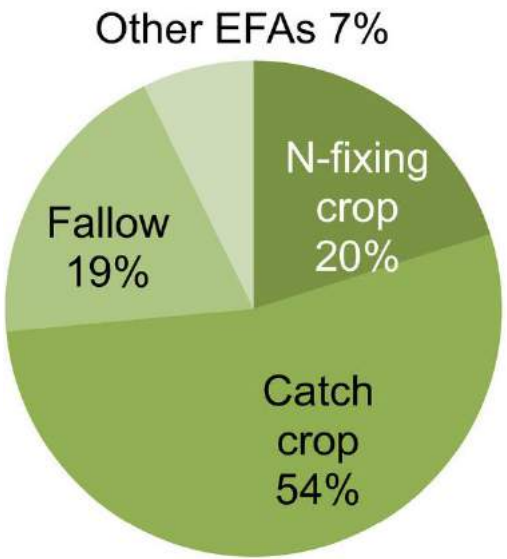
Uptake





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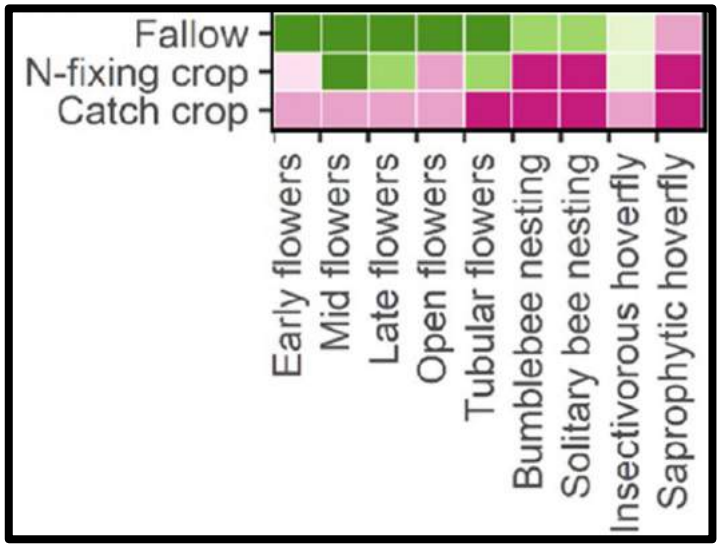

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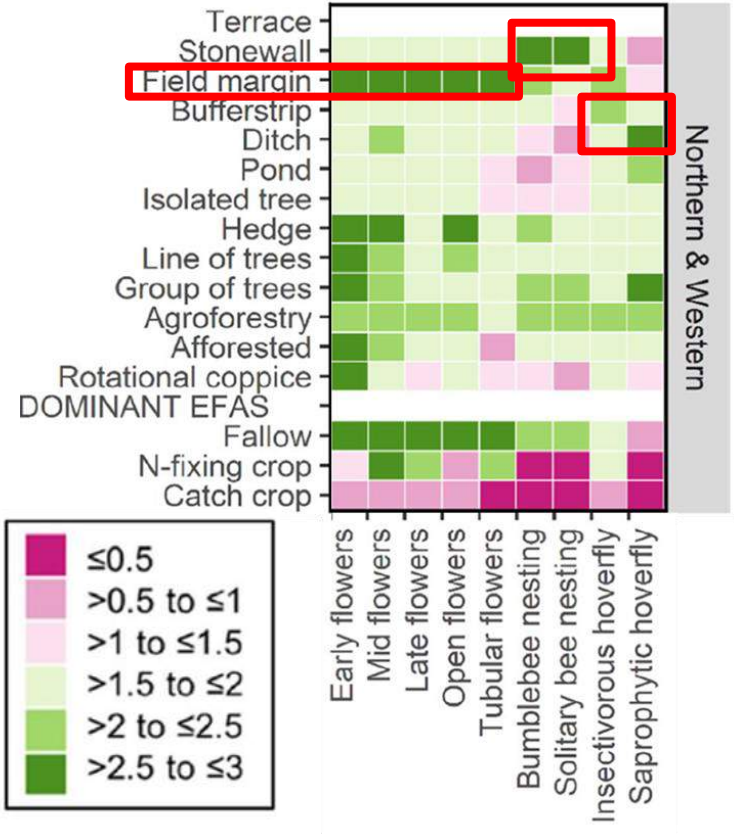
Pollinator Packages



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CAP Post-2020 Policy Implications

Improve Habitat Quality

- Guidelines on pollinator-friendly management
- Incentivise positive management
  - result-based payments
- Create an effective monitoring framework
  - Robust ‘user-friendly’ indicators

Enhance Landscape Diversity

- Support landscape scale initiatives
  - Facilitate collaboration between farmers
  - Habitat bundles – pollinator packages
- Integrate Green Architecture delivery vehicles
  - AECS, eco-schemes, enhanced conditionality

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Thanks for your attention!

@LornaCTweets

Lorna.Cole@sruc.ac.uk

Cole, L.J., Kleijn, D., Dicks, L.V., Stout, J.C., Potts…& Scheper, J. (2020). **A critical analysis of the potential for EU Common Agricultural Policy measures to support wild pollinators on farmland. Journal of Applied Ecology, 57: 681-694.**

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Key success factors for pollinator initiatives

First insights from regional collaborations in ‘bee landscapes’

Arjen de Groot, Wageningen Environmental Research

Partner
Nationale Bijenstrategie

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Naturalis
Biodiversity
Center

kenniscentrum insecten en andere ongewervelden
EIS

Ministry of Agriculture,
Nature and Food Quality

“Knowledge Boost on Pollinators” (2017-2021)

Enhancing the effectivity of pollinator initiatives
by providing a sound knowledge basis

www.kennisimpulsbestuivers.nl

Share existing scientific knowledge

Gain insights from recent initiatives

Enhance monitoring of effectivity

Gain data on habitat requirements

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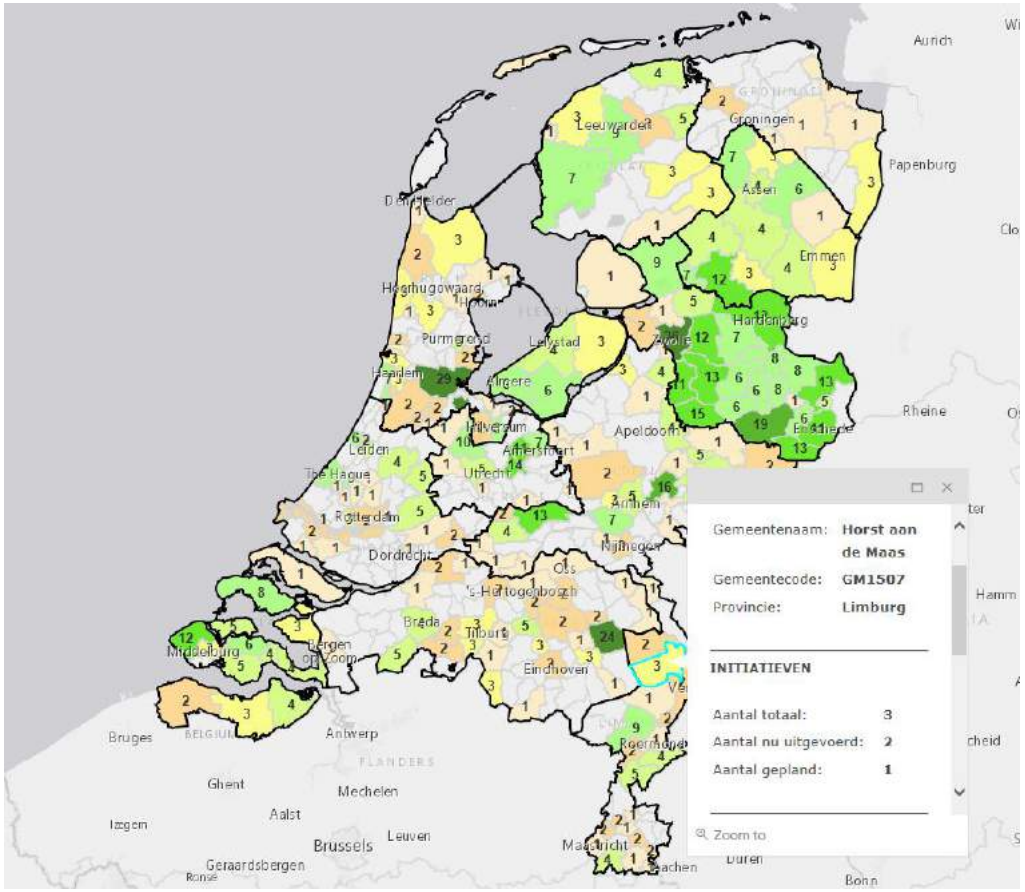
Gaining insights from existing initiatives

- Inventory of Dutch pollinator initiatives (local, regional, national level)
- Interviews with stakeholders involved in a selection of 12 recently finished initiatives
- Extracting success factors, bottlenecks and key recommendations for future initiatives



www.bestuivers.nl/bijeninitiatieven

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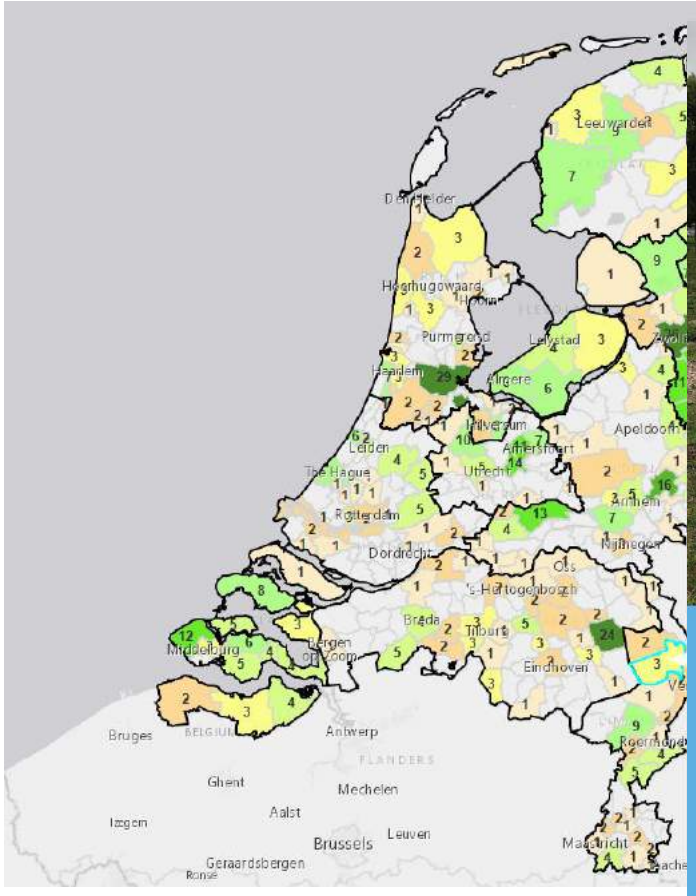

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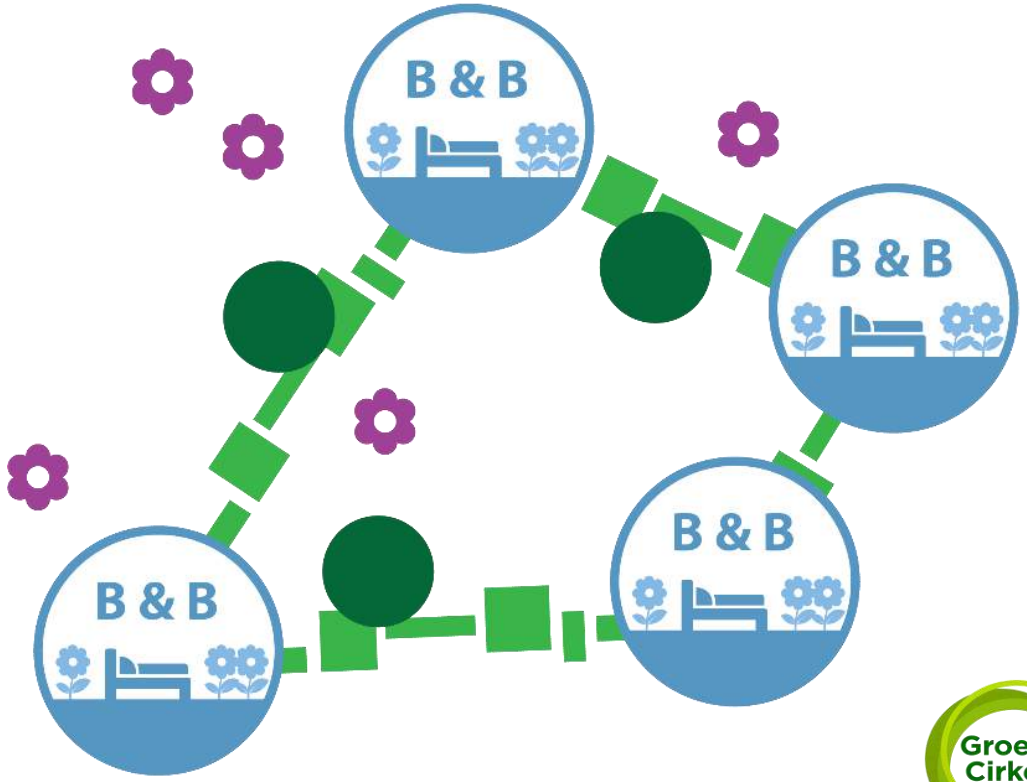
Connecting nature and society

- Bee landscape = regional network of well-connected natural elements that provide food & nesting for bees
- Socio-ecological network: developing an ecological network requires a social network
- 2017-2021: monitoring both social and ecological progress in 4 bee landscapes in the Netherlands



Groene Cirkels

Bijen landschap

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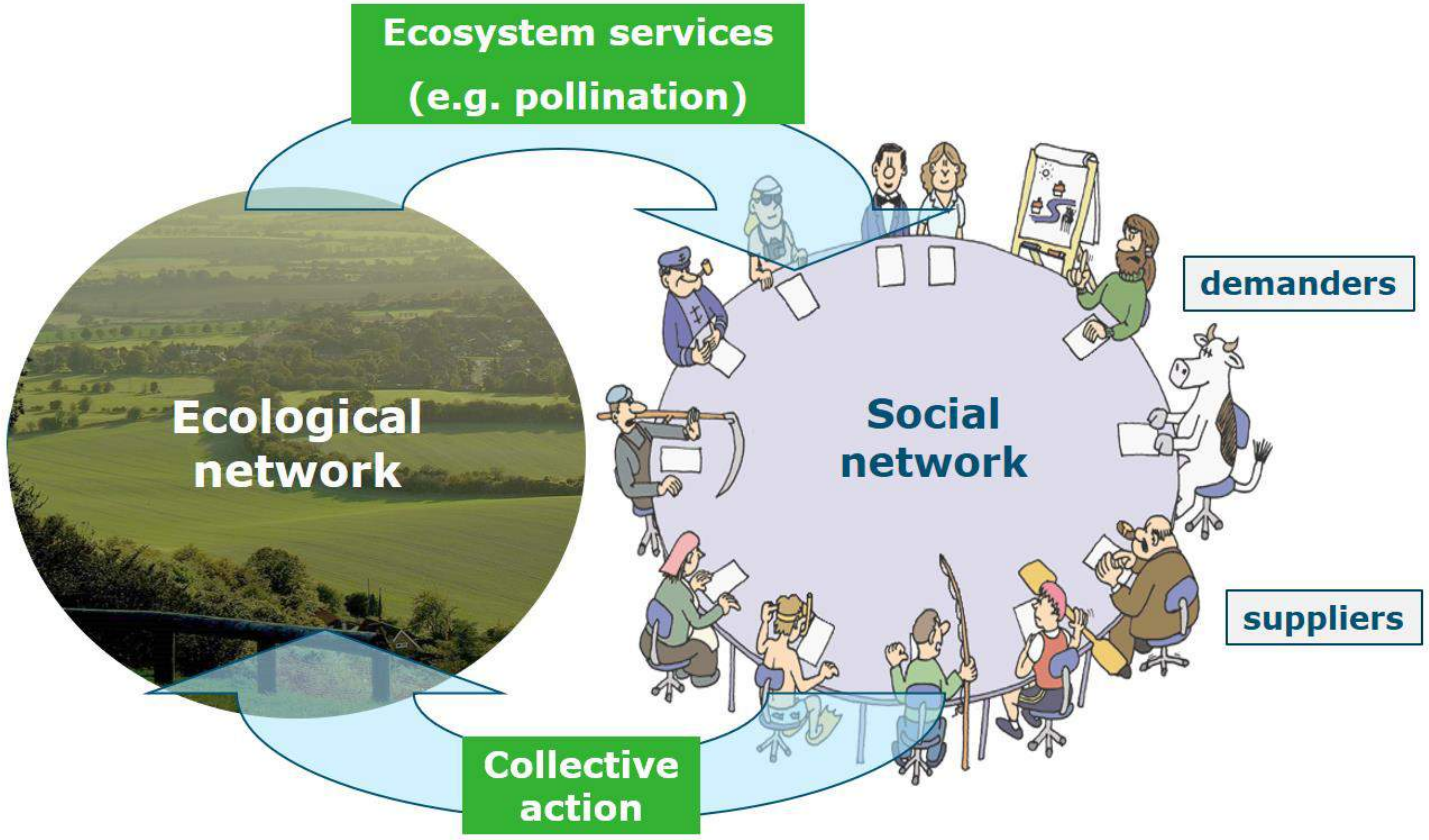

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Build a strong social network

- Include a diverse community of actors (local governments, companies, citizens, associations)
- Include multiple organizational layers (policy makers, executors)

- Take time to find shared interests
- Set common goals

- Appoint a network manager
- Secure multi-year budget for his/her activities

- Connect to similar networks elsewhere
- Increase impact by connecting to local discussion platforms

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Build a functioning ecological network

- Set clear and measurable goals for biodiversity and landscape composition
- Don’t expect miracles overnight, think about short as well as long term goals
- Periodic monitoring to check if goals are reached

- ‘Opportunity maps’ help to prioritize measures
- Involve the network in this process

- If planting or sowing:
  selecting species that suit your goals
  and that fit the local circumstances

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Increase relevance by combining goals

- Enhance relevance taking measures that serve a wider biodiversity
- Increase interest of stakeholders by targeting multiple ecosystem services

- ‘Mainstream’ measures for pollinators by integrating them in broader policy frameworks (i.e. aim for “pollinator-inclusive” policy)

- Connect plans to existing subsidies (e.g. CAP)
- Governments: ensure that new subsidies fit the needs of local initiatives

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Obtain, use and share knowledge!

- Connect to scientists and let them share their insights
- Include expert(s) in your network to advise on strategy, planning and execution

- Share practical experiences in the network
  - Monitoring results
  - Best practices but also failures
  - Costs and benefits encountered

- Be visible and spread the word!
  Share your results outside your network
  - Online via e.g. social media
  - But also in real life: field excursions

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Roadmap for successful bee landscapes

- One tool, double function: guidance during development & self-evaluation of progress

	SOCIAL	FINANCIAL	NATURAL	INSPIRATION
Preparation phase	☐ xx ☐ xx ☐ xx	☐ xx ☐ xx ☐ xx	☐ xx ☐ xx ☐ xx	☐ xx ☐ xx ☐ xx
Network phase	☐ xx ☐ xx ☐ xx		☐ xx ☐ xx xx	☐ xx ☐ xx ☐ xx
Planning phase	☐ xx ☐ xx ☐ xx	☐ xx ☐ xx ☐ xx	☐ xx ☐ xx ☐ xx	☐ xx ☐ xx ☐ xx
Execution phase	☐ xx ☐ xx ☐ xx	☐ xx ☐ xx ☐ xx	☐ xx ☐ xx ☐ xx	☐ xx ☐ xx ☐ xx

COMMONLAND
4 RETURNS FROM LANDSCAPE RESTORATION

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Thanks!

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Ministry of Agriculture, Nature and Food Quality

Partner Nationale Bijenstrategie

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REGIONAL COLLABORATION FOR BIODIVERSITY RECOVERY

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Koos Biesmeijer

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My home: Naturalis Biodiversity Center

Take Home Message

Build landscapes for bees and ....

Anybody can become a partner !

Be part of their story, their dream and ambition

Bees are the best way in

Find allies in farming, energy, business, construction, ...

4 pollinators: how many bees?

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4 pollinators: how many crop pollinators?

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4 pollinators: how many threatened species?

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Choose the pollinators for your aim

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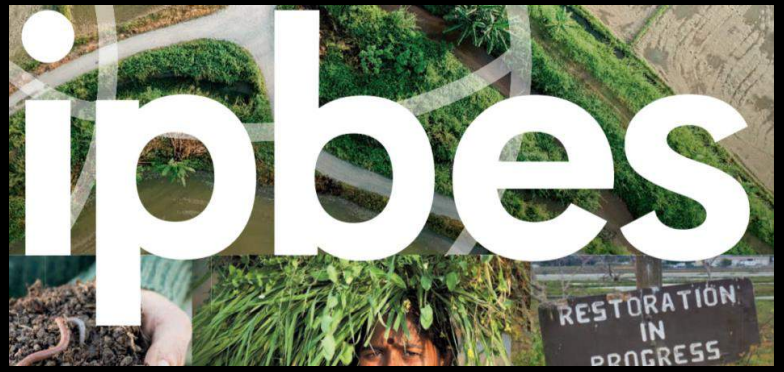
From bees to the planet and back



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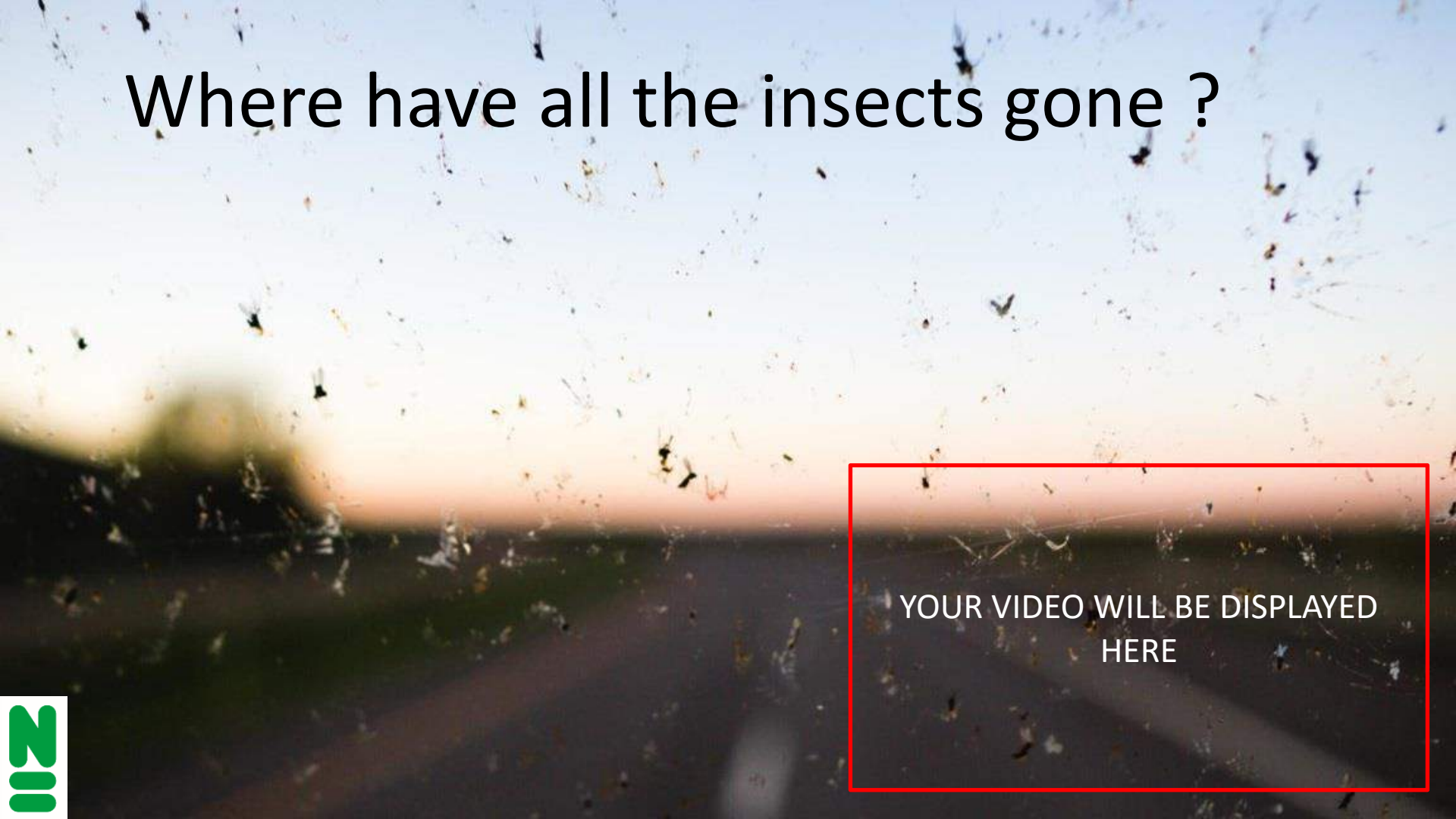
Where have all the insects gone ?



Delta Plan for Biodiversity Recovery

TOGETHER FOR BIODIVERSITY

Supermarkets, Banks
Farmers, Governments
Scientists, Citizens, NGOs

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www.samenvoorbiodiversiteit.nl

An unexpected partner !

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An unexpected partner !

Their goal: climate neutral brewery and production chain

Healthy landscapes

Bee landscape

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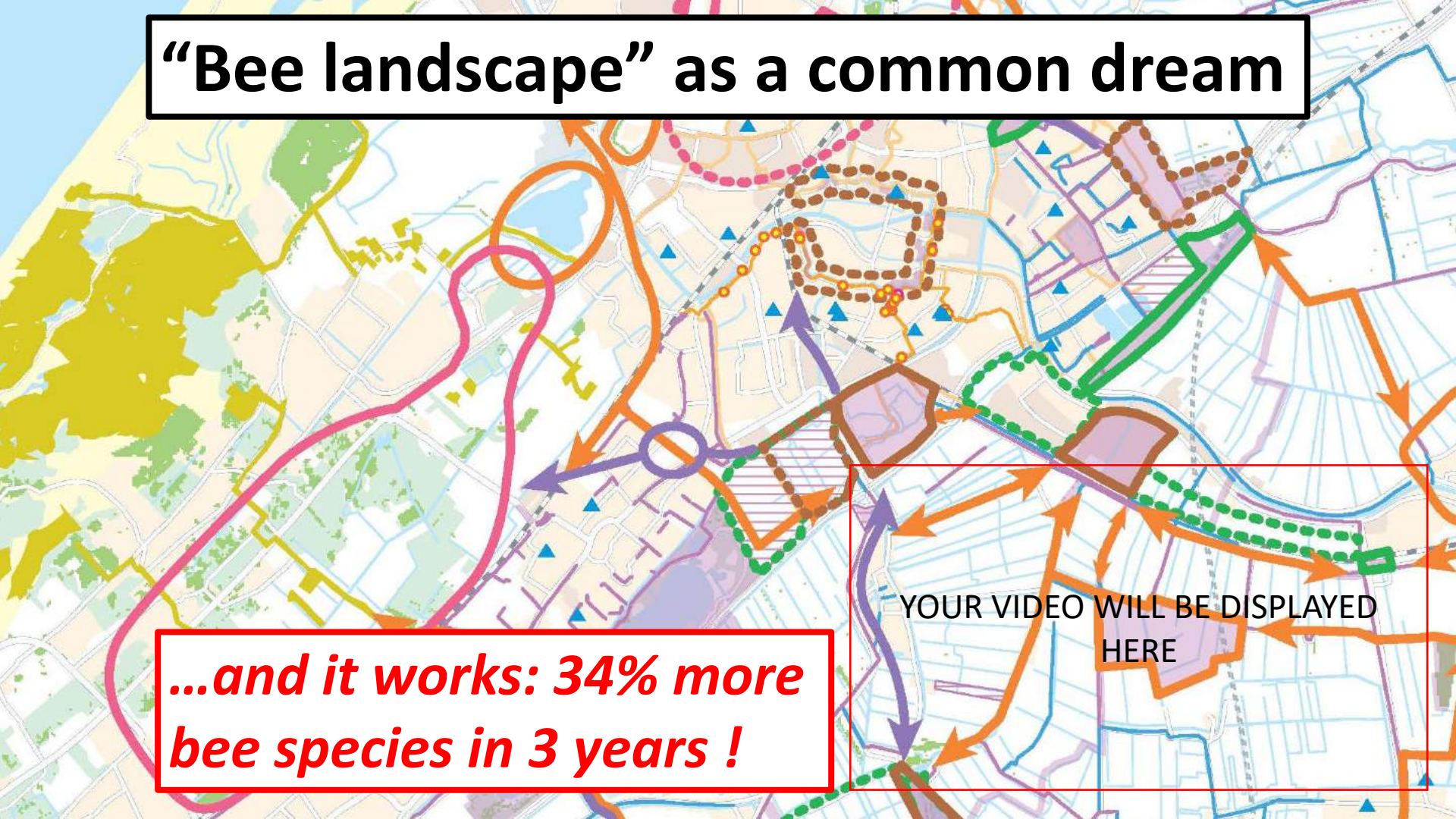
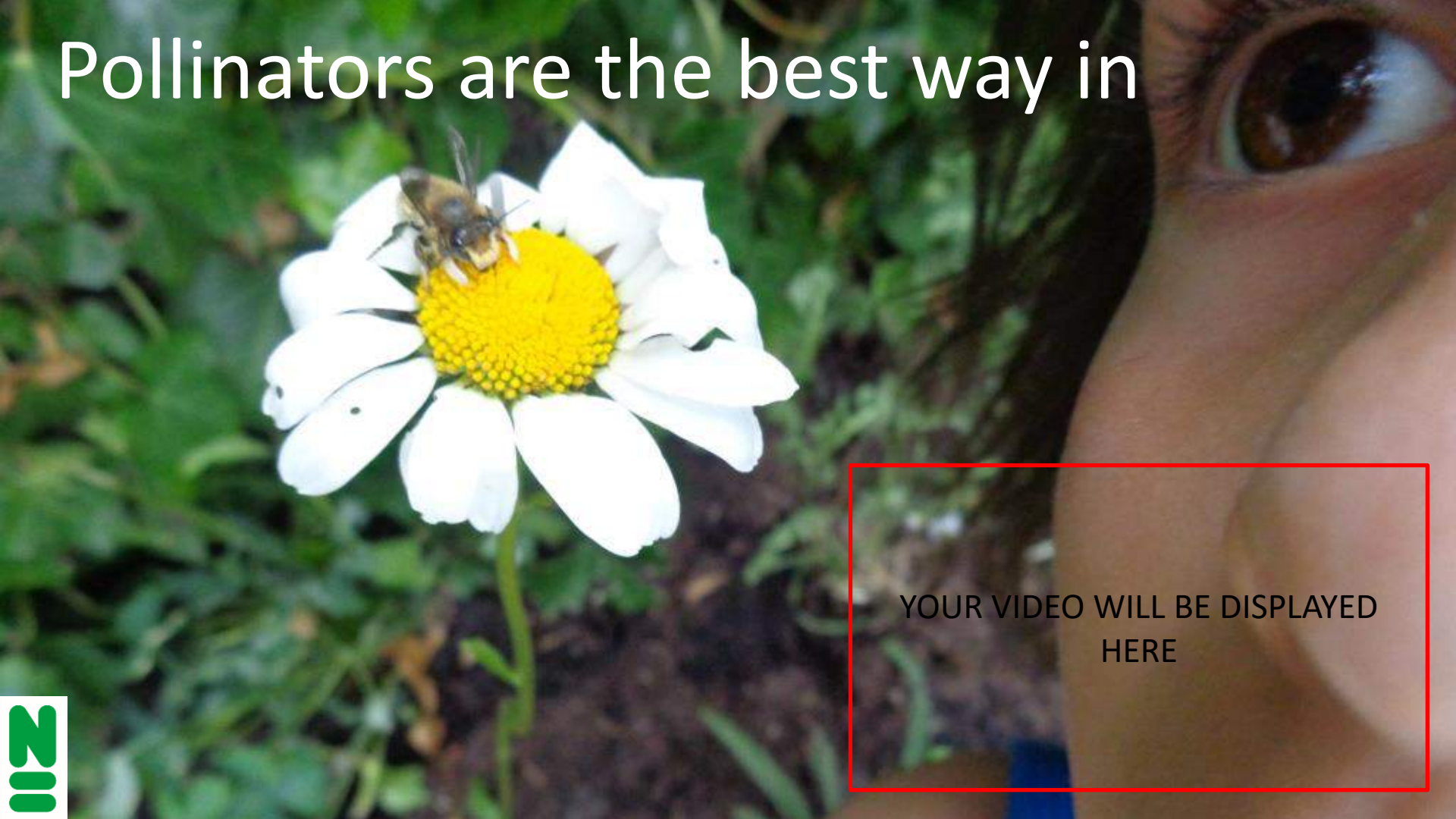
“Bee landscape” as a common dream



…and it works: 34% more bee species in 3 years !

Pollinators are the best way in



Pollinators are the best way in

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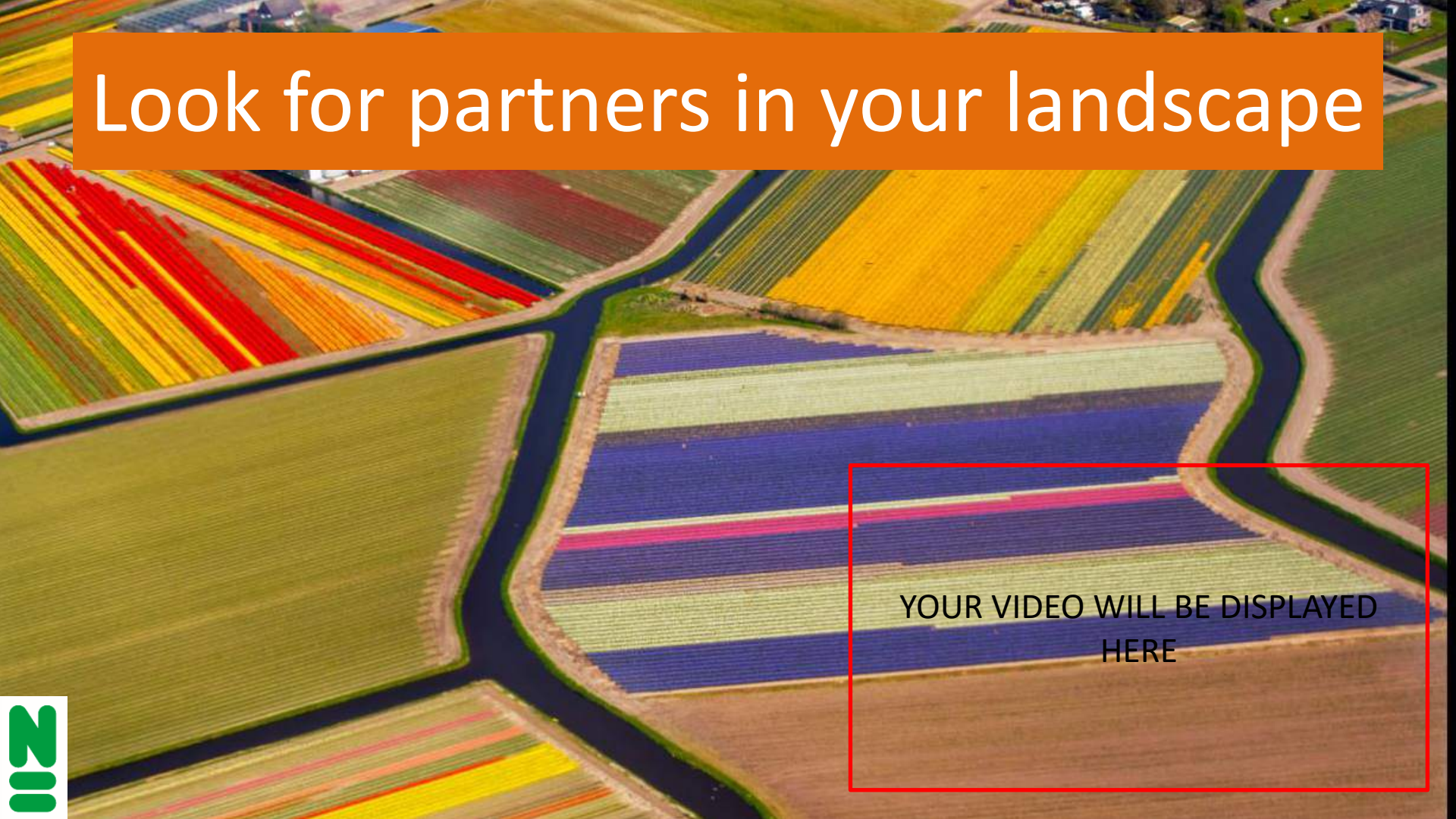
Look for partners in your landscape



Take Home Message

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EU Pollinators Initiative

Monitoring aspects

Vujadin Kovacevic

European Commission

Webinar

Science and policy for effective pollinator protection

20 May 2020

Photo © Chris Devlin

EU Pollinators Initiative

Adopted on 1 June 2018:

COM(2018)395 + SWD(2018)302

> 30 actions by 2020

Long-term objectives (2030)

Priority areas:

I. **Improving knowledge**

II. Tackling causes of decline

III. Engaging citizens & businesses, collaboration

Monitoring & indicators

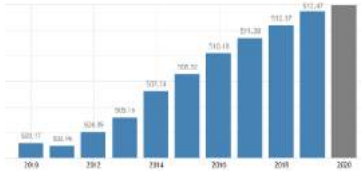
- Systematic, standardised, long-term
- Robust indicators
- Richness & abundance, common & rare species

Monitoring & indicators

- Systematic, standardised, long-term
- Robust indicators
- Richness & abundance, common & rare species

- **EU pollinator monitoring scheme & indicators**
  - technical expert group 2019/2020
- Modular design, minimum viable scheme,
- Administrative, financial, & expert capacity

Drivers



Response

Policy
Civil society
Business

Impact

Pollination service
Food security
Wild plant conservation

Pressures

Habitats
Pesticides
Invasive alien species
Other pollutants
Climate change

State

EU Pollinator Monitoring Scheme

*Overall EU pollinator monitoring framework follows DPSIR model of intervention (**D**rivers-**P**ressures-**S**tate-**I**mpact-**R**esponse) of the European Environment Agency.*

Monitoring (loss of) habitats, pesticides, IAS

- Protected habitats - Habitats Directive
- **E**uropean **M**onitoring of **B**iodiversity in **A**gricultural **L**andscapes (EMBAL) - pilot project
- **L**and **U**se and **C**overage **A**rea frame **S**urvey (LUCAS)
- Remote sensing (Copernicus)
  COP4N2K pilot project
- Monitoring of pesticides through honeybee products
  INSIGNIA pilot project
- European Alien Species Information Network (EASIN)

Monitoring impacts of pollinator decline

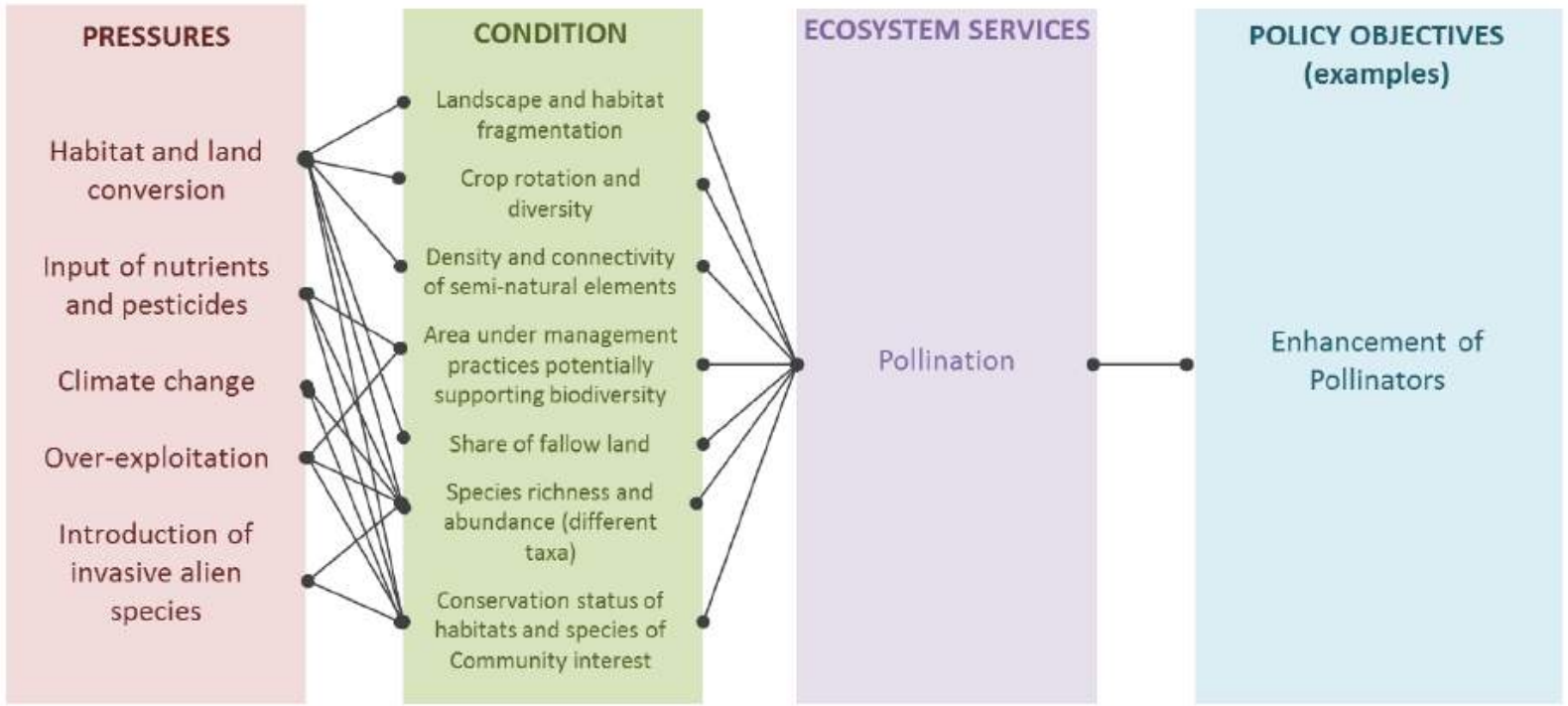
- Pollination of crops and wild plants
- Diets/nutrition

Monitoring impacts of pollinator decline

- Pollination of crops and wild plants
- Diets/nutrition

…and societal response

- Mapping policy actions at all governance levels
- Mapping business and citizens initiatives



Integrated assessment

Mapping and Assessment of Ecosystems and their Services (MAES)

Timeline

- Review of the initiative by the end 2020
- EU Biodiversity Strategy for 2030
- European Green Deal
- EU Pollinator Monitoring scheme:
  - expert proposal by July 2020
  - preparatory activities
- Pilot projects – 2021/2022