



# Biodiversa Final Conference

*16 – 17 November 2021*

*DAY 1*

Communicate on the event: **#BiodiversaEvents**



@Biodiversa3



Biodiversa+



# Introduction

By *Valérie Normand*

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Ca. **90**

persons  
attending in  
person

Ca. **160**

persons attending  
remotely



biodiversa



**Wash your hand very regularly with soap or hydro-alcoholic gel**



**Avoid touching your face with unwashed hands**



**Cough and sneeze into your elbow or into a tissue**



**Use a disposable tissue and dispose of it after use**



**Maintain a distance of one meter with the others...**



**Salute without shaking hands, avoid hugs**



**Wear your mask during the whole events** (covering your mouth and your nose)



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**#224157**



Communicate on the event: **#BiodiversaEvents**



# Welcome words

By *Xavier Le Roux*, *Biodiversa Chair & Coordinator*

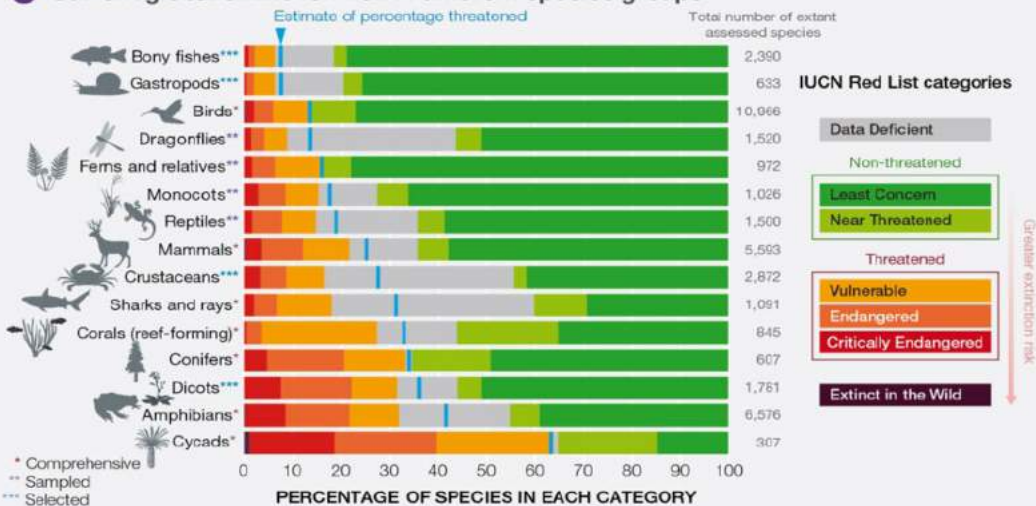
Communicate on the event: [#BiodiversaEvents](https://twitter.com/BiodiversaEvents)



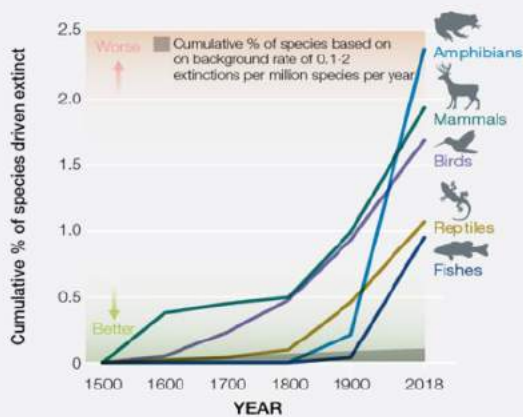
**The Biodiversa vision and  
approach deployed over 2005-2021  
in 5 points**

## The vision (1)

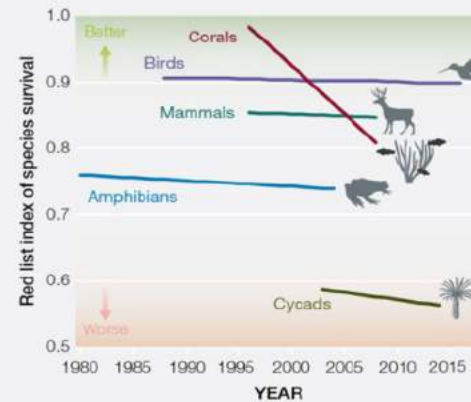
**A** Current global extinction risk in different species groups



**B** Extinctions since 1500



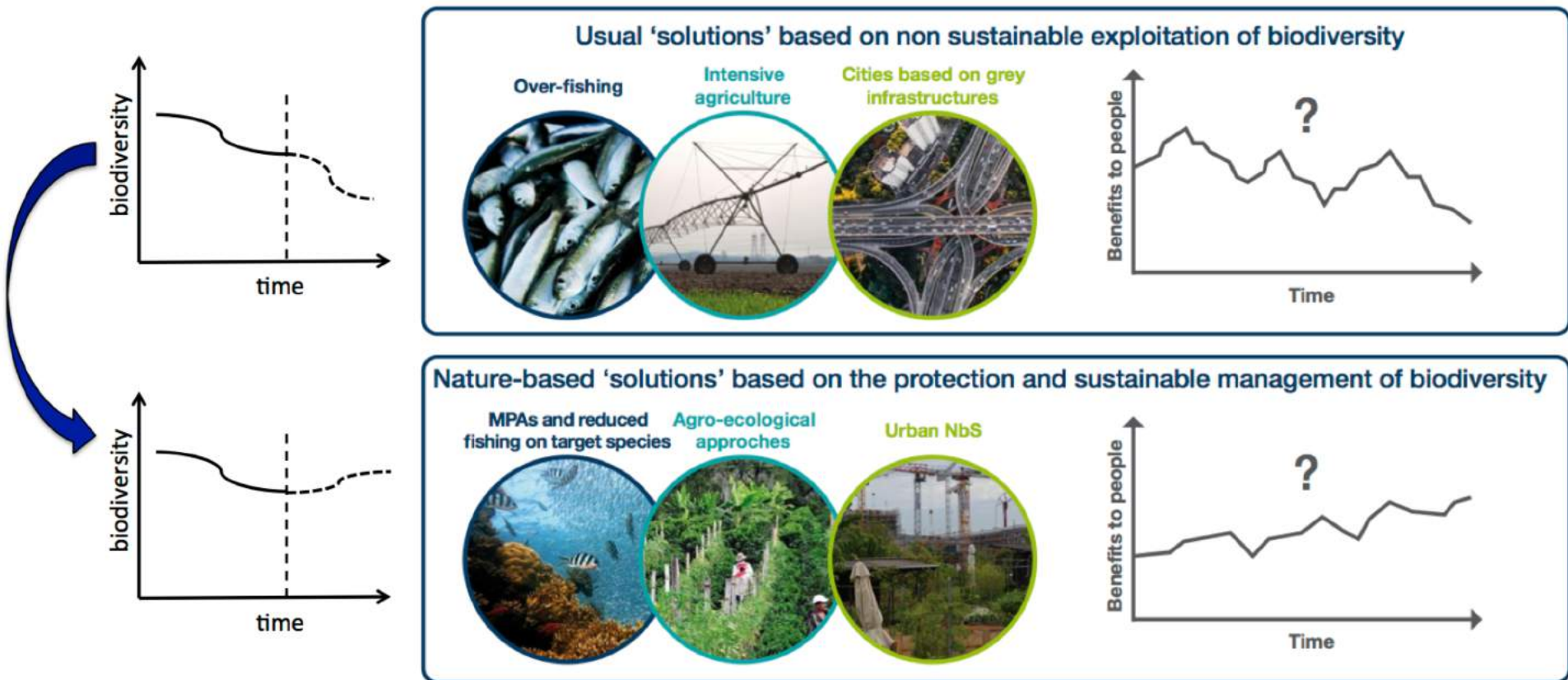
**C** Declines in species survival since 1980 (Red List Index)



IPBES Global Assessment (2019)



## The vision (1)

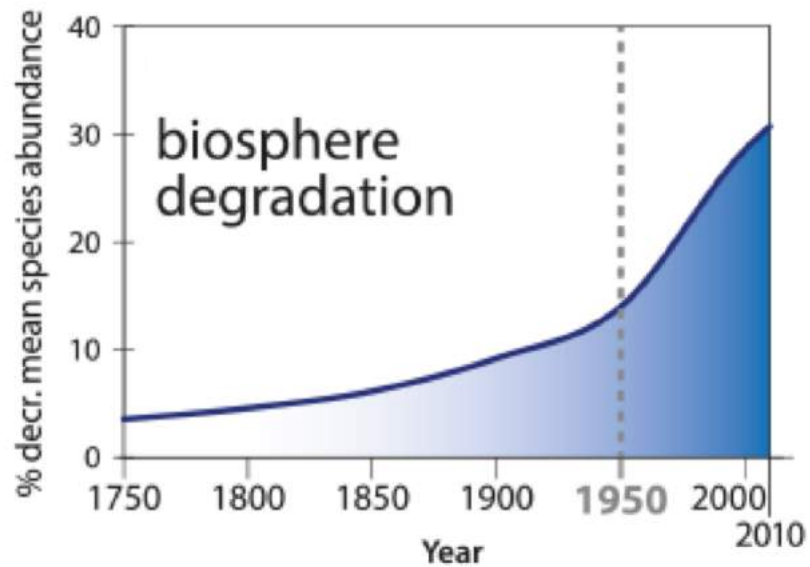
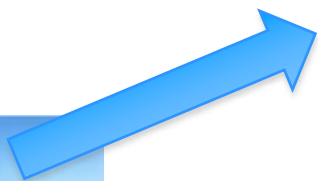
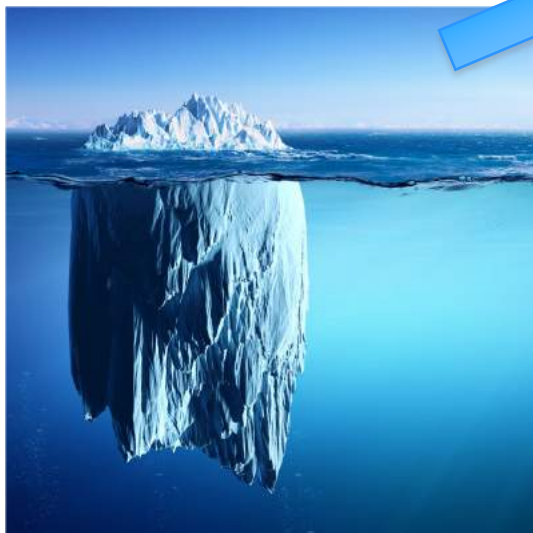


*Biodiversa SRIA (2017)*



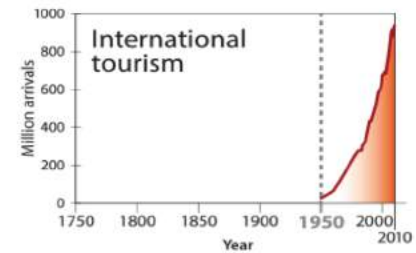
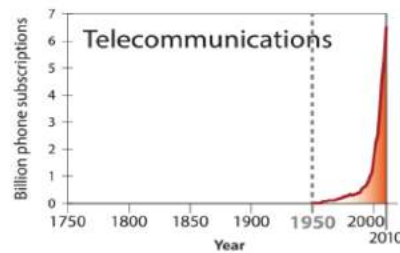
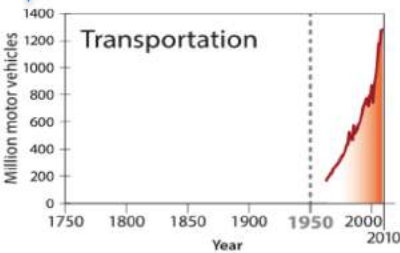
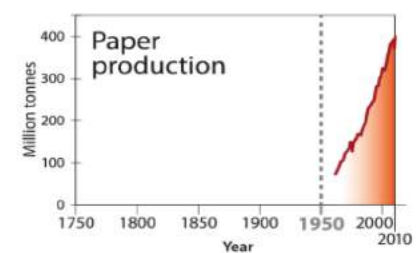
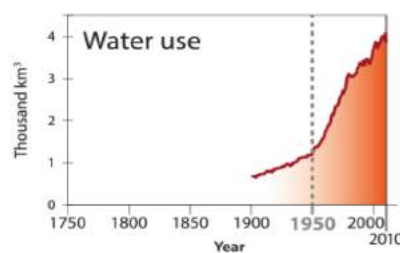
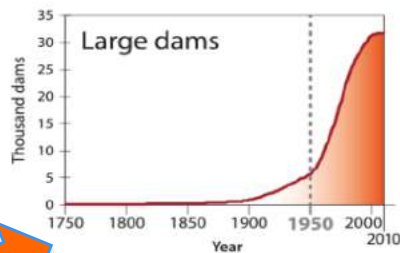
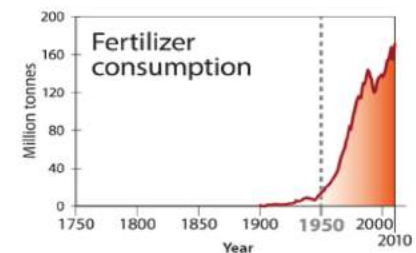
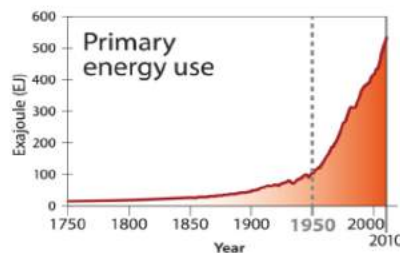
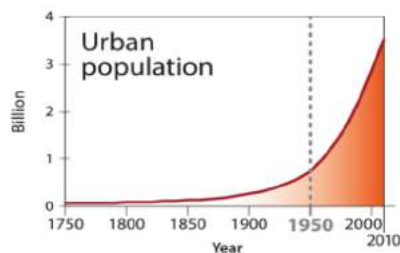
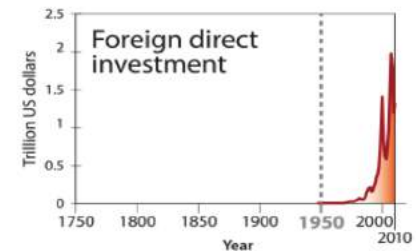
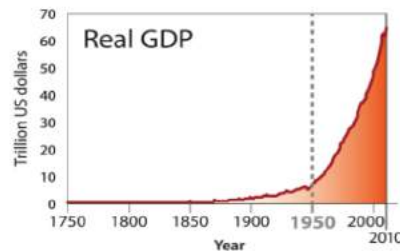
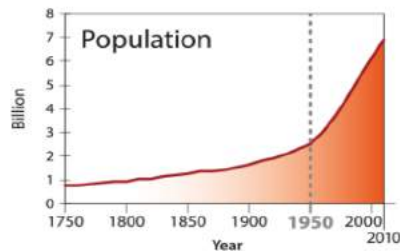
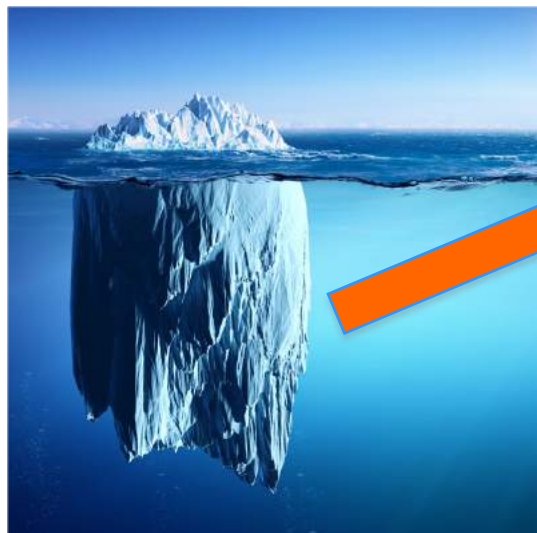
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## The vision (2)





## The vision (2)



→ Promote interdisciplinary research tackling biodiversity issues in a **SYSTEMIC** way

The vision (3)



Stakeholders

Science-society/policy  
interface =  
channelling knowledge  
from holders to users

directional flux  
of knowledge

Scientific community  
=  
Source of knowledge



### The vision (3)



Stakeholders



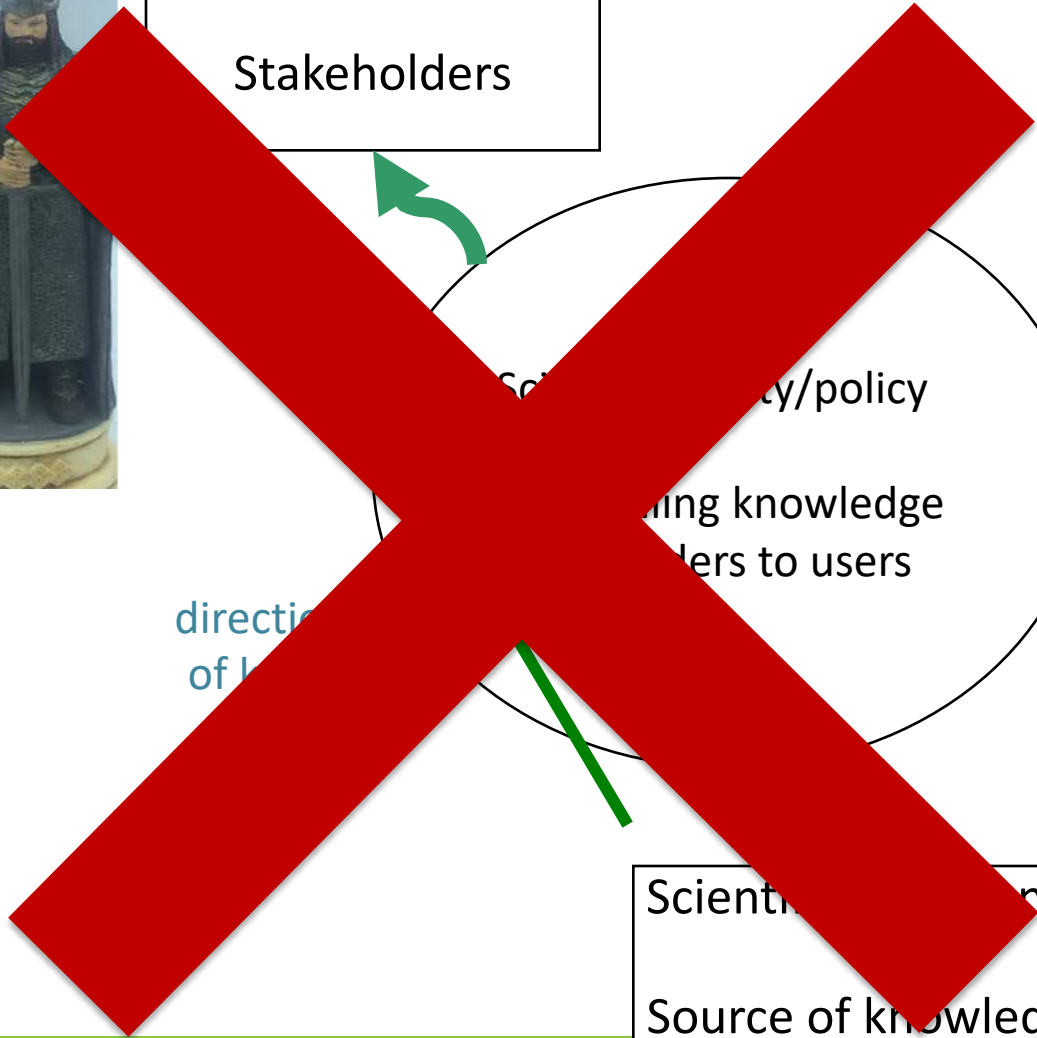
Science/policy

...ing knowledge  
...ers to users

direction  
of

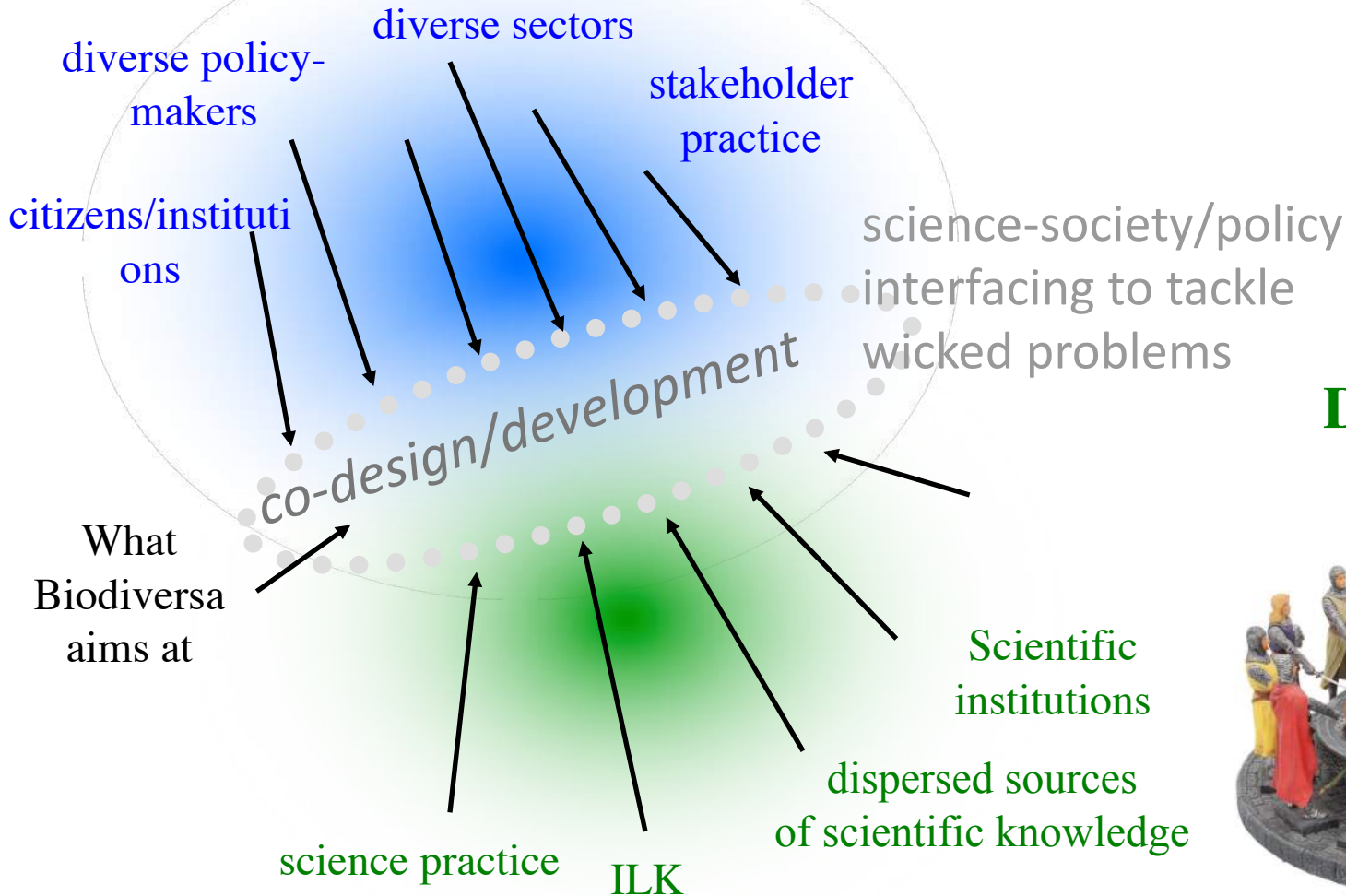
Scientific community

Source of knowledge



The vision (3)

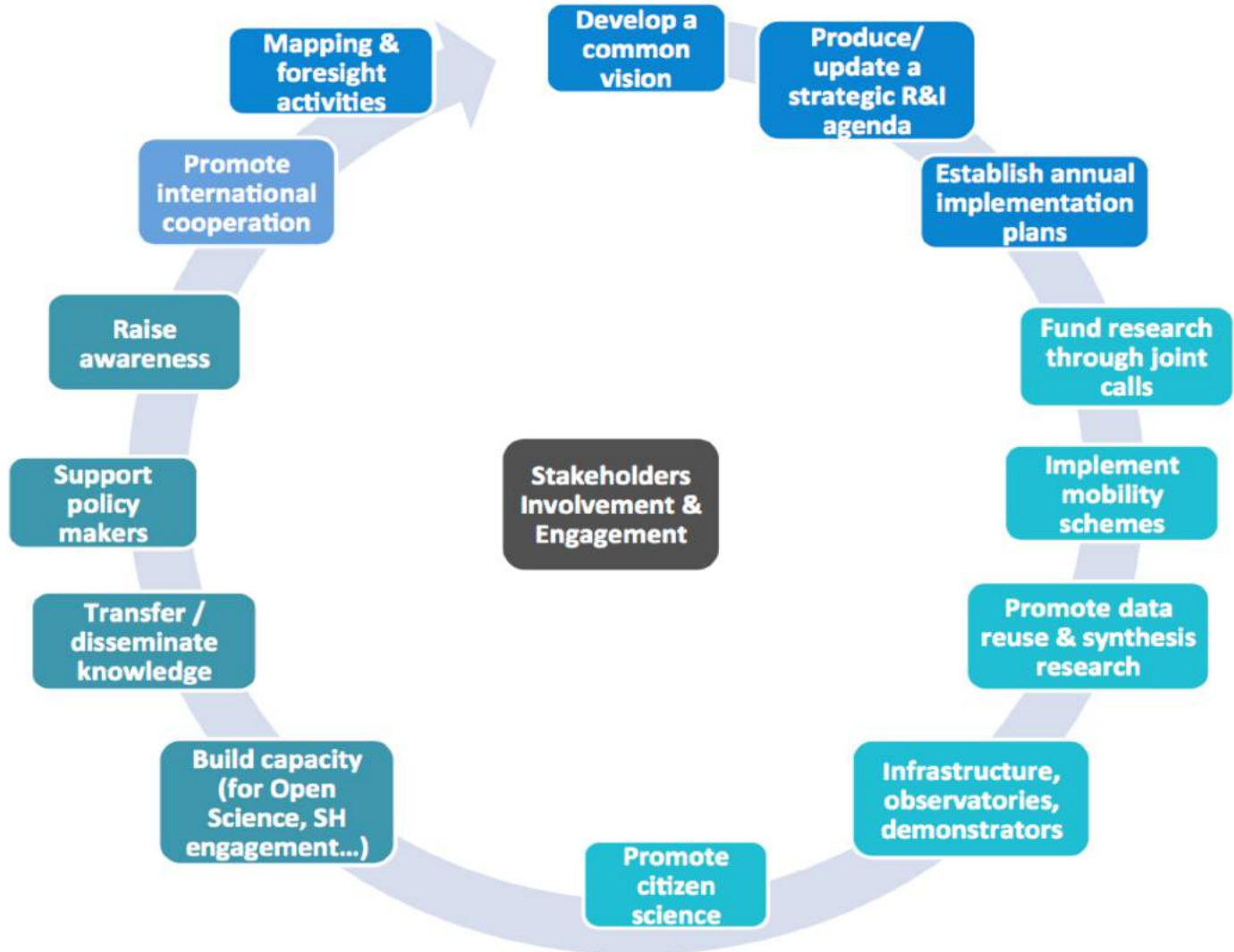
**Diversity of stakeholders**



**Diversity of scientists**

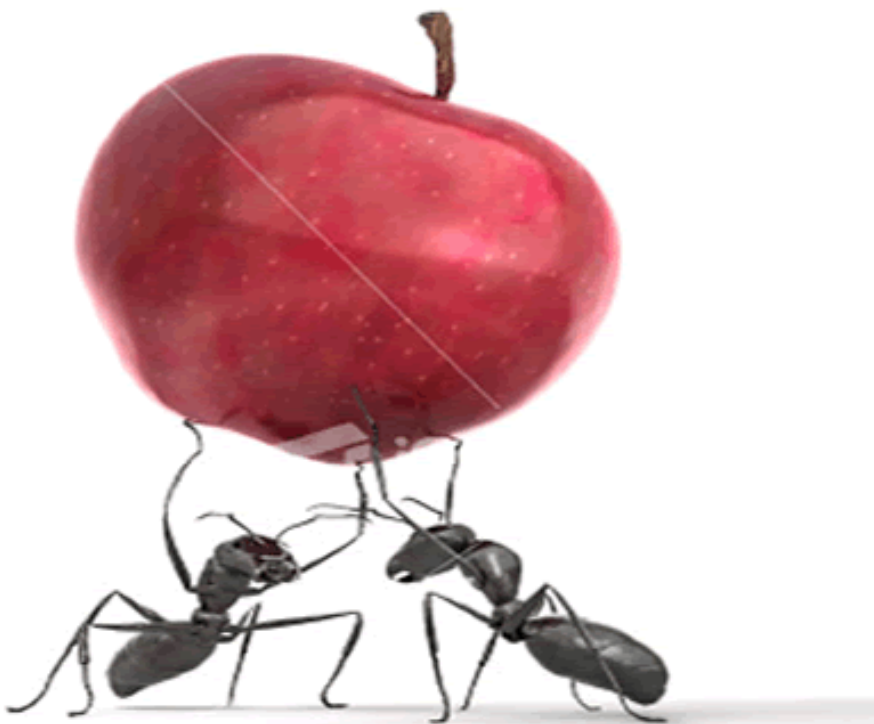


## The vision (4)



→ A HOLISTIC PROGRAM that goes much beyond preparing & implementing calls

## The vision (5)





## The Biodiversa final conference

- A look back on the Biodiversa **achievements**
- An opportunity for a **celebration** with the Biodiversa partners, collaborators and stakeholders
- A reflection on the Biodiversa **legacy** – towards Biodiversa+





# Welcome words

By *Marco Fritz*, Biodiversity Team Leader at DG Research & Innovation, European Commission

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# Biodiversa's main achievements since 2008

By *Xavier Le Roux*, Biodiversa Chair & Coordinator – FRB, France  
*Hilde Eggermont*, Biodiversa Vice Chair – BelSPO, Belgium  
*Henrik Lange*, Biodiversa Vice Chair – SEPA, Sweden

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## Main achievements

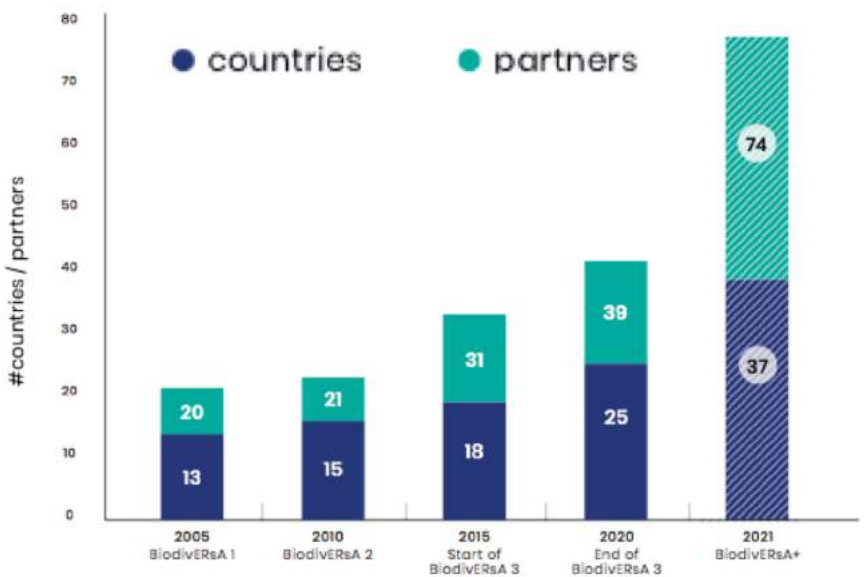
for research on biodiversity,  
ecosystem services and  
Nature-based Solutions over 2008–2021

- Building the European Research Area on biodiversity
- Mapping and foresight
- Shared vision and priorities
- Capacity building for the research community
- Promoting scientific excellence and collaboration
- Stakeholder engagement
- Simultaneous promotion of scientific excellence and societal impact
- Collaboration with IPBES
- A growing visibility
- Preparing the future

● Building the European Research Area on biodiversity



**Risk to tackle biodiversity (research) issues in a fragmented way**



## A collaborative success

The BiodivERsA Chair & Coordinator, CEO and Secretariat are based in France. The two Vice Chairs are from Belgium and Sweden

Belgium led the development of the BiodivERsA website and database of projects

UK led the production of the BiodivERsA stakeholder engagement handbook

Guadeloupe promoted a strategy to increase participation and success of small research communities

Spain led the development of a mapping of biodiversity research infrastructures

Portugal was in charge of analysing international initiatives to engage with

The Netherlands led the analysis of the ERA landscape for the BiodivERsA SRIA

Belgium, Finland, France and Germany were active in promoting open data for research through the organisation of data management workshops

Sweden led the shaping of the synthesis research programme

Estonia, France, Norway, Poland, Spain and Turkey managed call secretariats

Since 2010, the system used to manage proposals for each call is Estonian

Belgium, Ireland, Sweden and UK have led the production of BiodivERsA policy briefs

Germany designed the procedure to agree on priority call topics

Bulgaria has been in charge of staff exchanges

Belgium, Norway and Romania led the production of the Handbook on biodiversity scenarios

New Caledonia led the development of the database on Knowledge & Technology Transfer organisations



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## Mapping and foresight



# ? A largely unknown biodiversity research landscape



### The BiodivERsA database

for a comprehensive view on research programmes and projects within Europe



### Mapping research collaborations

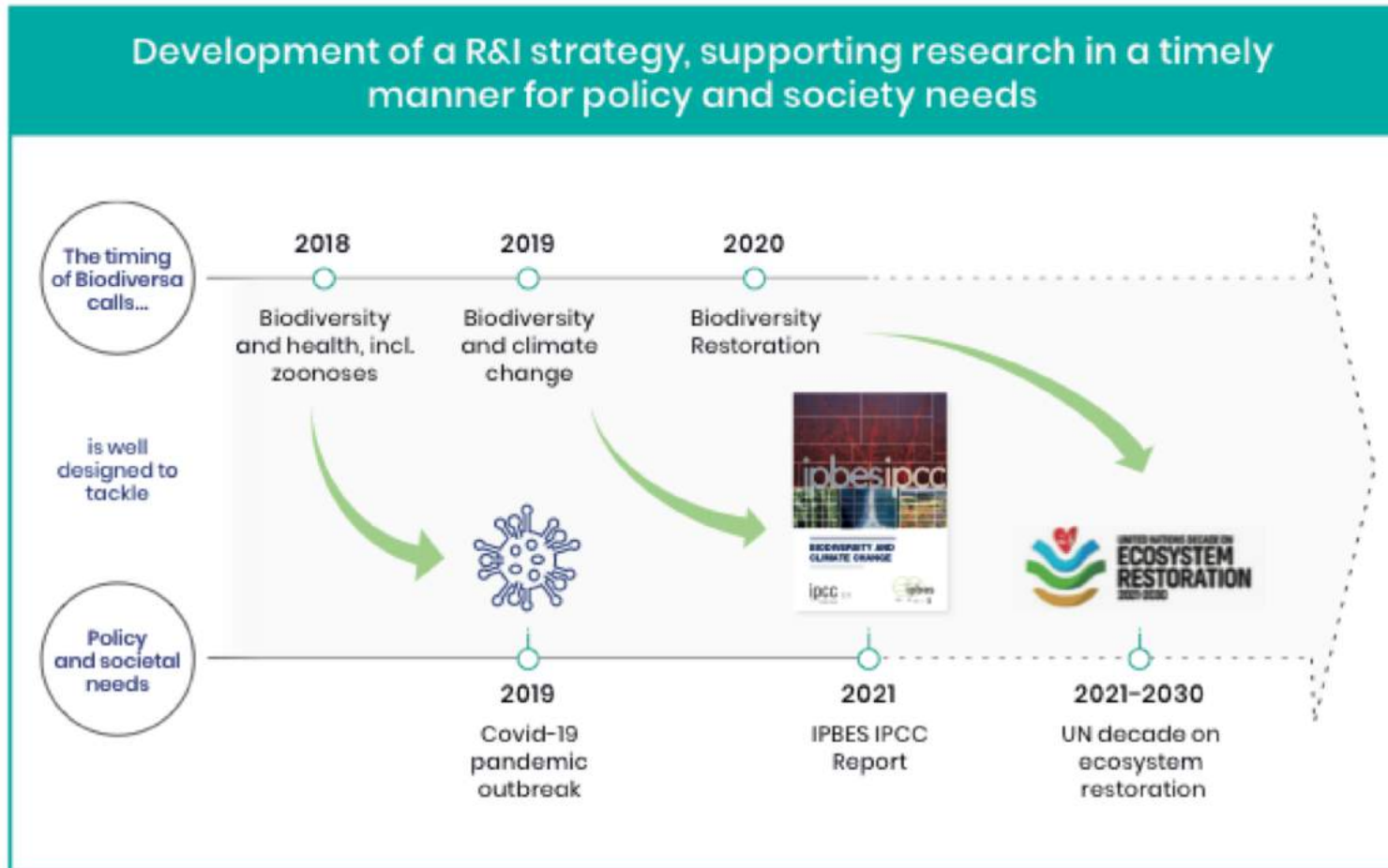
between Europe and other regions (e.g. ERA-LAC collaboration analysed with ALCUE-NET) and on specific domains (e.g. collaborations in the field of biodiversity scenarios with the Belmont Forum)



### Mapping biodiversity research infrastructures in Europe



- Mapping and foresight







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● Shared vision and priorities



**Biodiversity research:  
many actors with  
different perspectives**



The ERA-Net promoting pan-European research on biodiversity and ecosystem services

The BiodivERsA  
Strategic Research  
and Innovation Agenda  
2017-2020

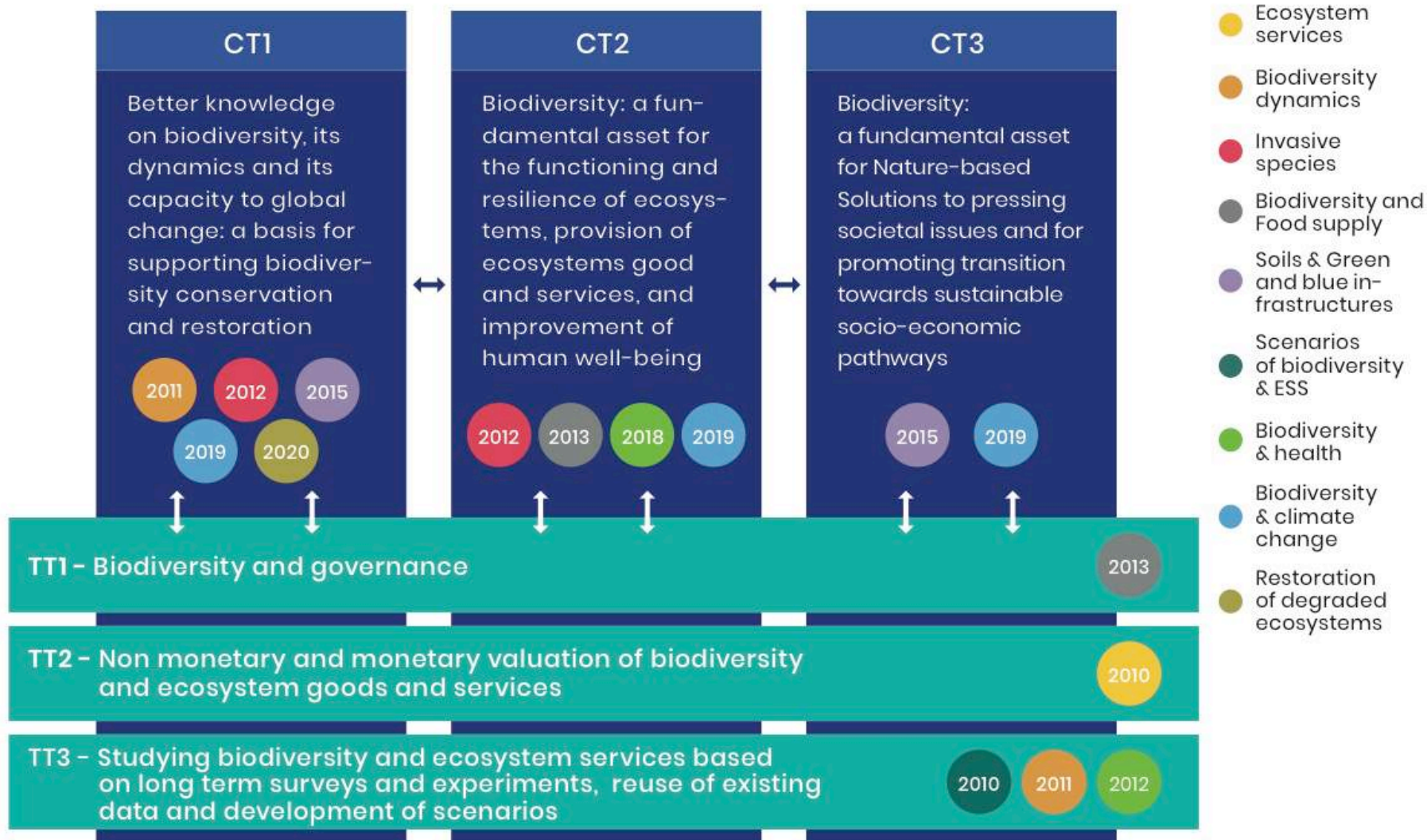


Biodiversity: a natural heritage to conserve, and a fundamental asset for ecosystem services and Nature-based Solutions tackling pressing societal challenges

Biodiversity: a natural heritage to conserve, and a fundamental asset for ecosystem services and Nature-based Solutions tackling pressing societal challenges

Since 2010, the BiodivERSA Calls contributed to tackle challenges identified in the SRIA

## SRIA CORE THEMES



## TRANSVERSAL THEMES



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- Capacity building for the research community



Crucial needs for capacity building

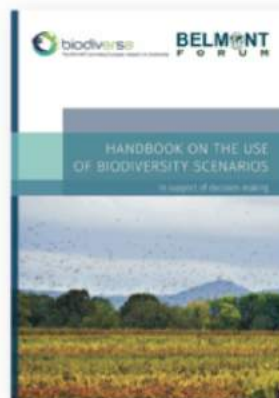
- 2 guides developed on stakeholder engagement and policy relevance of research



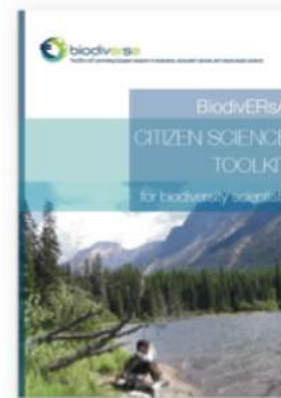
- 1 guide and regular training workshops organized on developing Data Management Plans for research projects, promoting open science principles



- 1 handbook developed to support the use biodiversity scenarios for decision-making in policy and practice



- 1 toolkit with best practices for citizen science co-developed with BiodivERsA project researchers



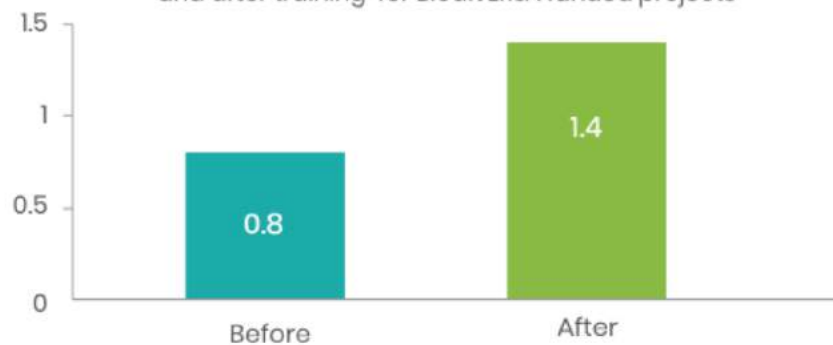
36,335

downloads of  
the Stakeholder  
Engagement  
Handbook



**Biodiversa trainings on data management, contribute to improve funded projects' data management plans**

Score for quality of data management plans before and after training for BiodivERSA funded projects



Scoring based on the Data Curation Profile approach



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- Promoting scientific excellence and collaboration



**Advice and options proposed to society & policy can only be based on excellent research**

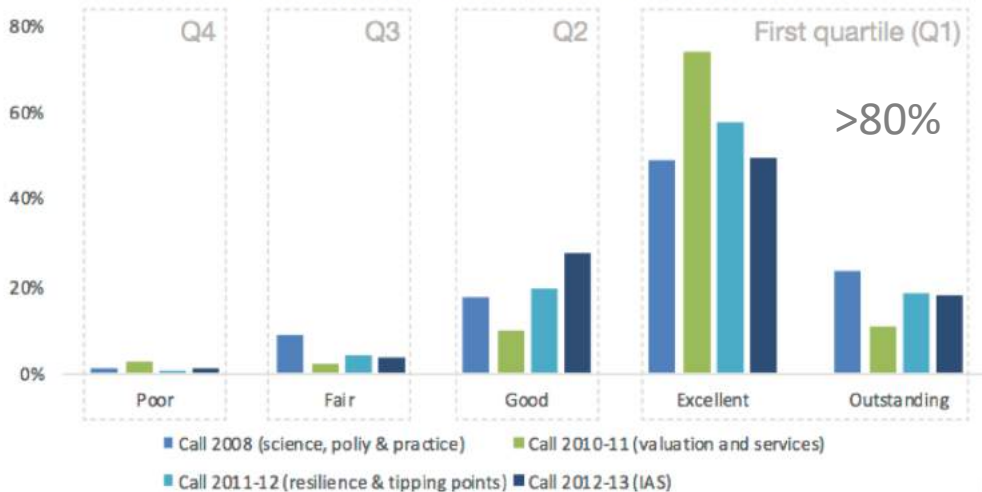


raised by Biodiversa partners and the EC

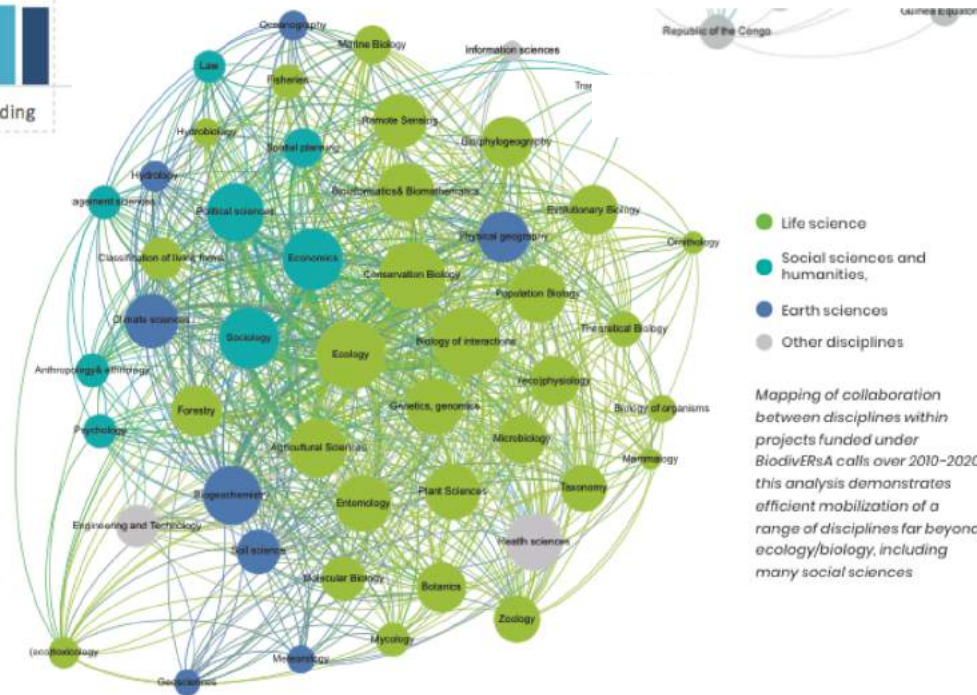


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## Promoting academically excellent research



## Promoting truly interdisciplinary research

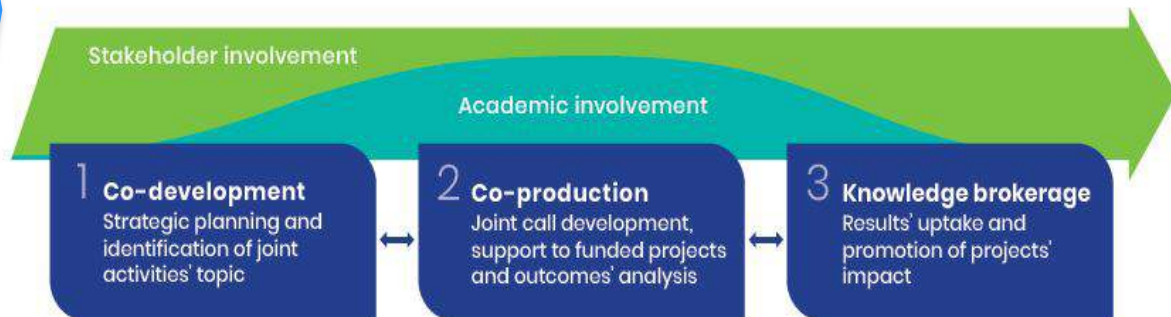


● Stakeholder engagement

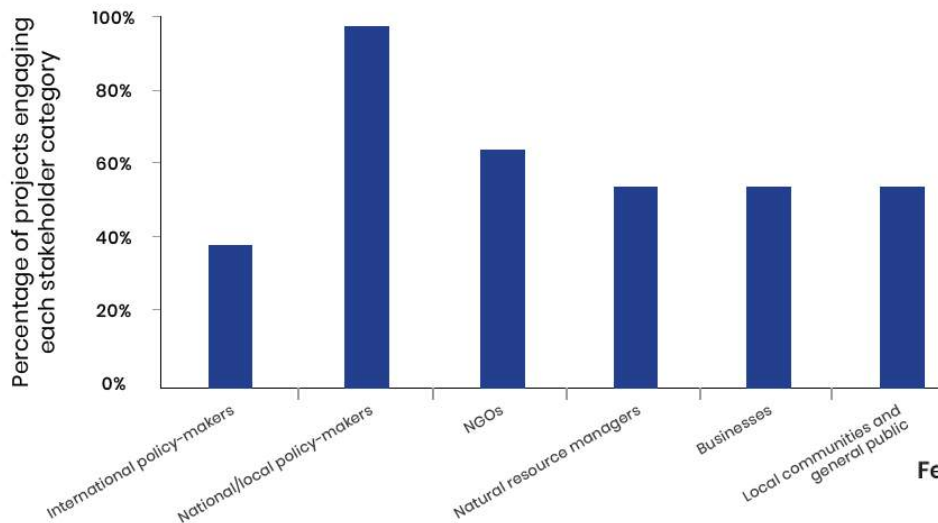


## The BiodivERSa approach: involving stakeholders at every step of the research process

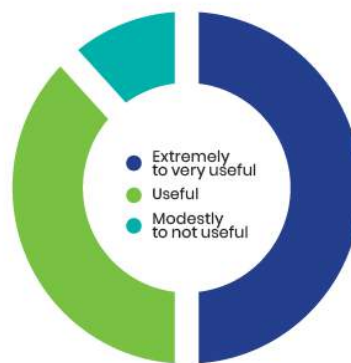
*BiodivERSa's approach to stakeholder engagement  
(adapted from Mauser et al. 2013)*



Close to 90% of BiodivERSa projects actively *involve or collaborate* with stakeholders



### Feedbacks on BiodivERSa policy briefs



Close to 90% of policy makers indicated that BiodivERSa policy briefs are useful (40%) or very to extremely useful (50%) to them

Source: Feedback from 59 international to local policy makers on the first set of BiodivERSa briefs



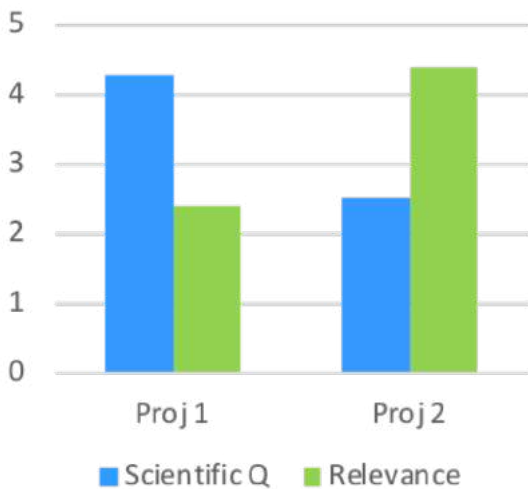


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- Simultaneous promotion of scientific excellence and societal impact

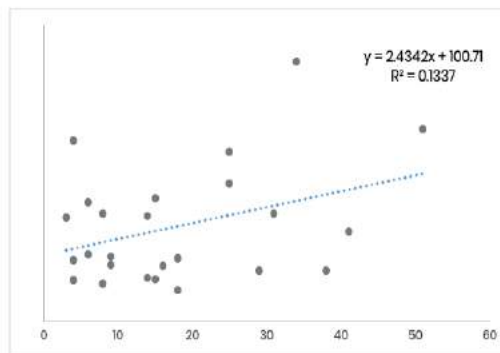
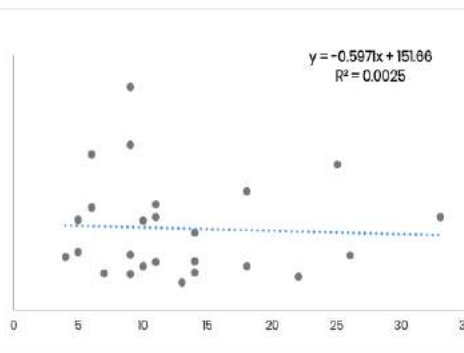
## Science vs relevance



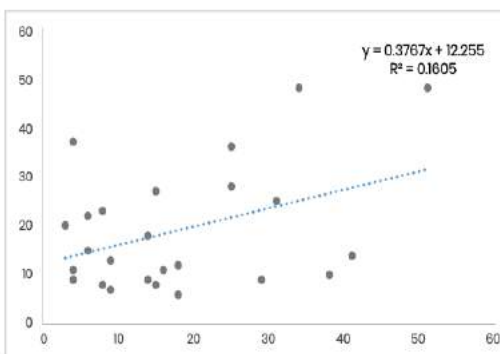
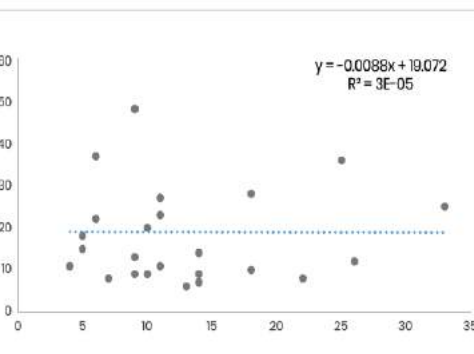
NUMBER OF STAKEHOLDERS

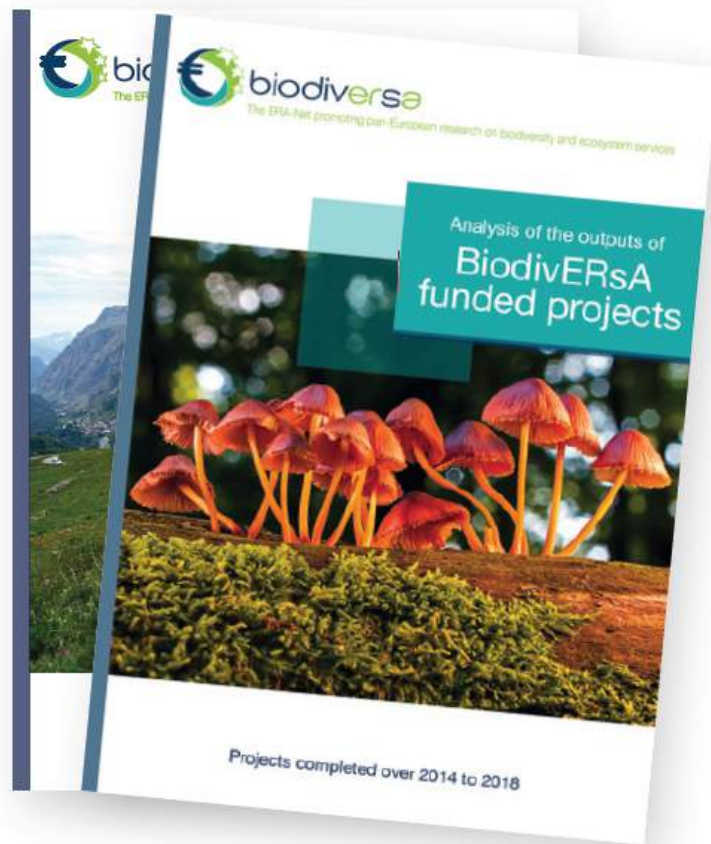
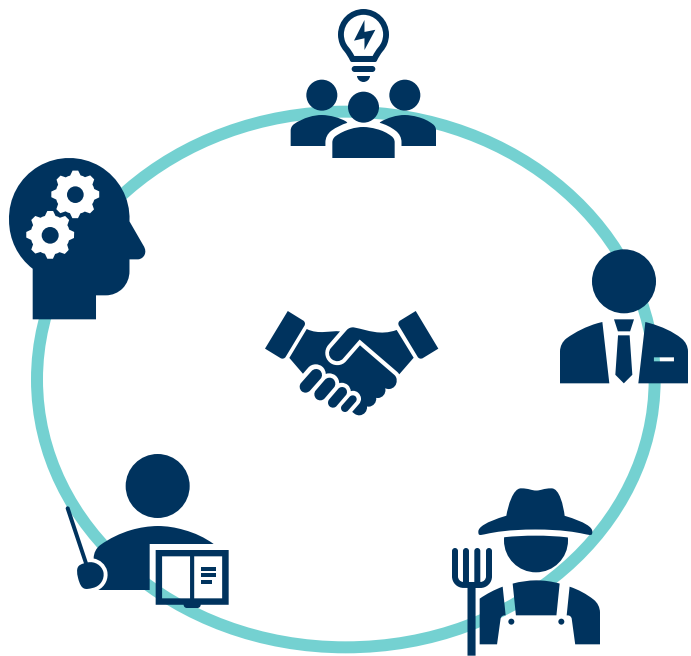
SCORE FOR STAKEHOLDER-RELEVANT OUTPUTS

Score for Journal Notoriety



Number of excel. & outst. publications







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● Collaboration with IPBES

A need for IPBES  
to be supported  
by key  
collaborators



Net

Open-ended Network of IPBES Stakeholders

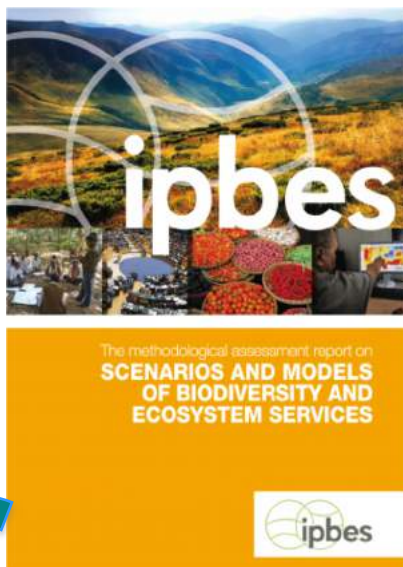




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## Biodiversa-IPBES collaboration reinforced across its 4 functions



### Capacity building workshops



### Factsheets feeding the assessments

 **Synthesis of research results relevant to the European and Central Asia Assessment of the IPBES**

Climate change leaves Europe more and more dominated by warm-adapted species and induces a climatic debt for biodiversity  
 Relevant for Chapters 3 and 4 of IPBES assessment for ECA  
 + 1 success story on how ecological knowledge has guided innovative conservation practices for grassland butterflies

The BiodivEREA CLIMIT project (funded over 2009-2012) performed a Europe-wide study (involving 9 countries) on the combined effects of human-induced changes in climate and habitats (area, isolation, patch quality) on some of Europe's most specialized and threatened grassland insects that depend on ants (so-called myrmecophiles), comparing the results with other taxa like birds. Were reported:

- That the European Butterfly Climate Change indicator shows a significant and rapid increase in European butterfly communities becoming more and more composed of species associated with warmer temperatures'. The indicator covers the 1990-2009 period and is based on national Butterfly Monitoring Schemes from thirteen countries from all over Europe, is based on almost 4000 transects.
- That the yearly change (for 1990-2008) in the community composition in response to climate change of bird and butterflies (respectively 9,400 and 2,130 communities studied across Europe is equivalent to a 37 and 114 km northward shift. However, the northward shift in temperature in Europe was even faster, leaving a 'climatic debt' of birds and butterflies corresponding to a 212km and 135 km lag behind climate (see Figure 1).




Figure 1: Variations in the temporal trend of bird and butterfly Community Temperature Index, CTI, per studied country in Europe over the 1990-2008 period. The CTI reflects the relative composition of high- versus low-temperature dwellers in local communities. After Devictor et al. (2012), Differences in the climatic debt of birds and butterflies at a continental scale, Nature Climate Change 2: 222-228



Biodiversa-Belmont Forum joint research program (>28 Mio €, 23 countries)

Biodiversa co-hosting the IPBES TSU on knowledge catalysis since 2019

- A growing visibility

Need for a hubs  
for biodiversity  
research across  
Europe

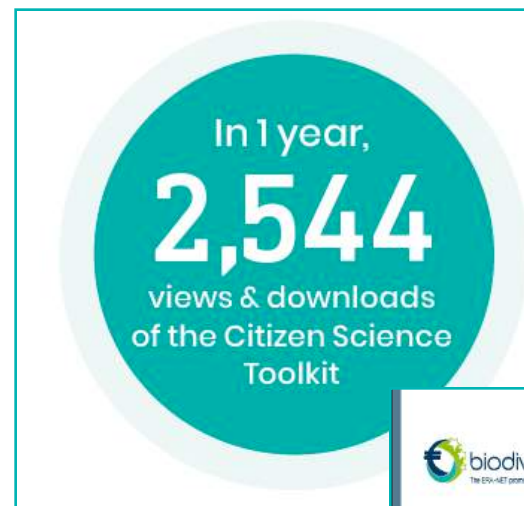
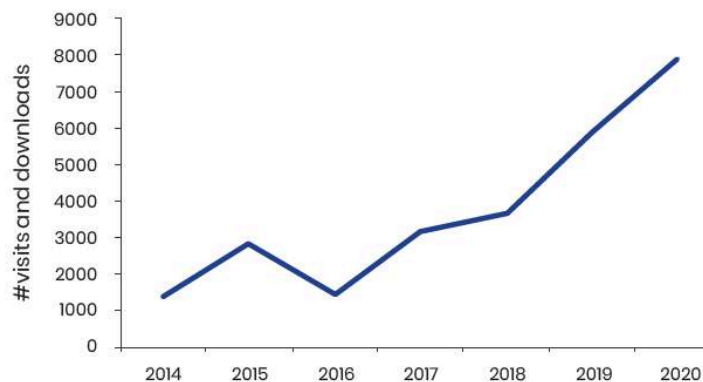


Biodiversa and its website  
became such a major hub



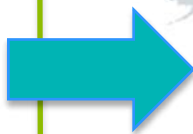
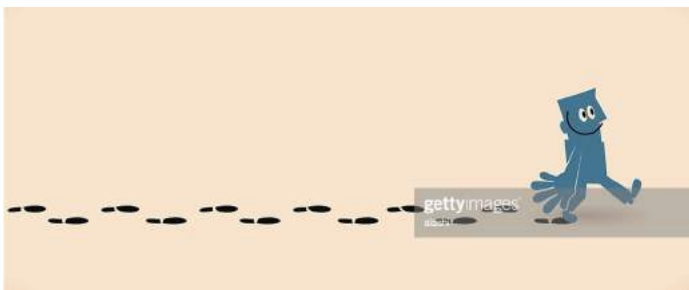
## The Biodiversa resources are increasingly used

Nb of visits and downloads on the BiodivERsA Policy briefs



- Preparing the future

## What is the footprint of Biodiversa?



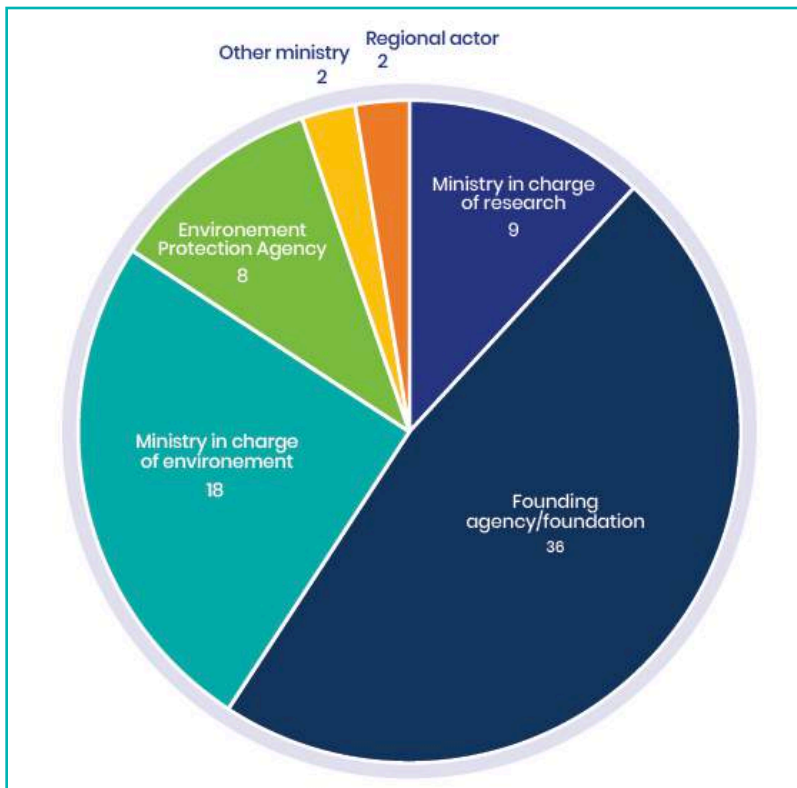
Gathering a broader range of members





# Biodiversa's future through Biodiversa+: an increased ambition...

... membership



... updated strategy





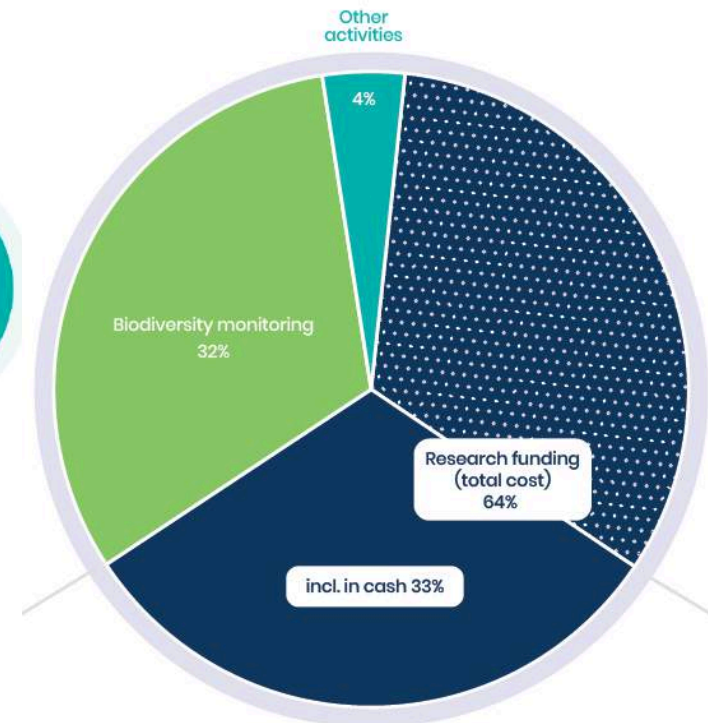
# Biodiversa's future through Biodiversa+: an increased ambition...

... budget >800 Mio €

## ... portfolio



## ... support to research





**Find out more**



**Main achievements**

for research on biodiversity,  
ecosystem services and  
Nature-based Solutions over 2008-2021

[www.biodiversa.org](http://www.biodiversa.org)



**@Biodiversa3**



**@Biodiversa+**



*The Biodiversa project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 64242*



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# A look-back at the development of a shared vision and priorities for biodiversity programming across Europe

*With :*

- ***Stefan Leiner**, DG Environment, European Commission*
  - ***Heather McKhann**, FACCE-JPI*
  - ***Anne-Hélène Prieur-Richard**, ANR, France*
- ***Philip Roche**, INRAe & French ministry of research*

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2018 Biodiversa Prize edition - the URBES video



**Coffee break**

**We start back at 16:30**

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**EUROPEAN UNION**

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# **The Biodiversa model: promoting excellent research with impact for policy and society**

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# Facts and figures highlighting the Biodiversa approach and tools developed to help researchers

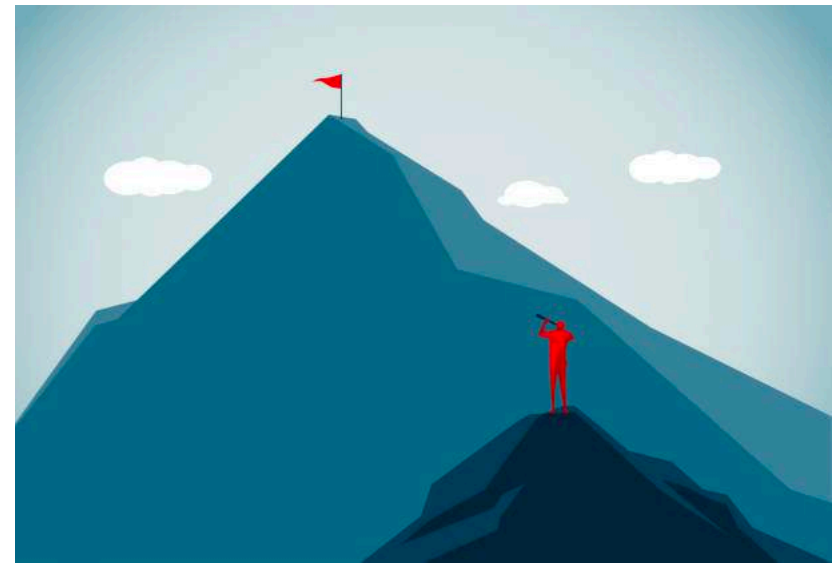
By *Claire Blery*, Biodiversa Chief Executive Officer

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## Biodiversa expectations towards funded projects

Overall, projects are expected to:

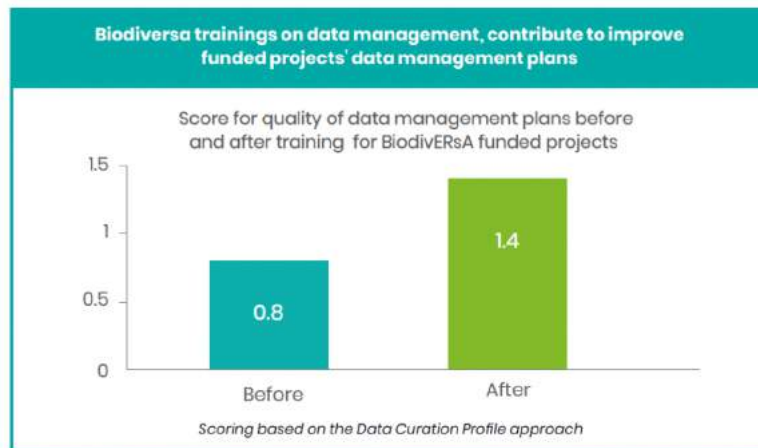
- Be **scientifically excellent**
- Be **multi-disciplinary**, where relevant
- Demonstrate a **transnational added value**
- **Engage stakeholders**
- **Demonstrate political / societal relevance**
- **Promotion of open data**



**This is challenging**

## Development of a large set of capacity building tools to help researchers to be better equipped to face

- Guidance documents
- Training sessions





Testimony by *Simon Gardner, UK Natural research Council*



Testimony by *Silvia Winter, University of Natural Resources  
and Life Sciences Vienna, Austria*



Testimony by *Klaus Birkhofer, Brandenburg University of  
Technology Cottbus – Senftenberg, Germany*



Testimony by Hans De Boeck, *Antwerp University, Belgium*





*Testimony by Nathalie Charbonnel, National Research  
Institute for Agriculture, Food and Environment – INRAe,  
France*



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2020 Biodiversa Prize edition - the TALE video



Acknowledgements by *Xavier Le Roux*,  
*Biodiversa Chair & Coordinator*

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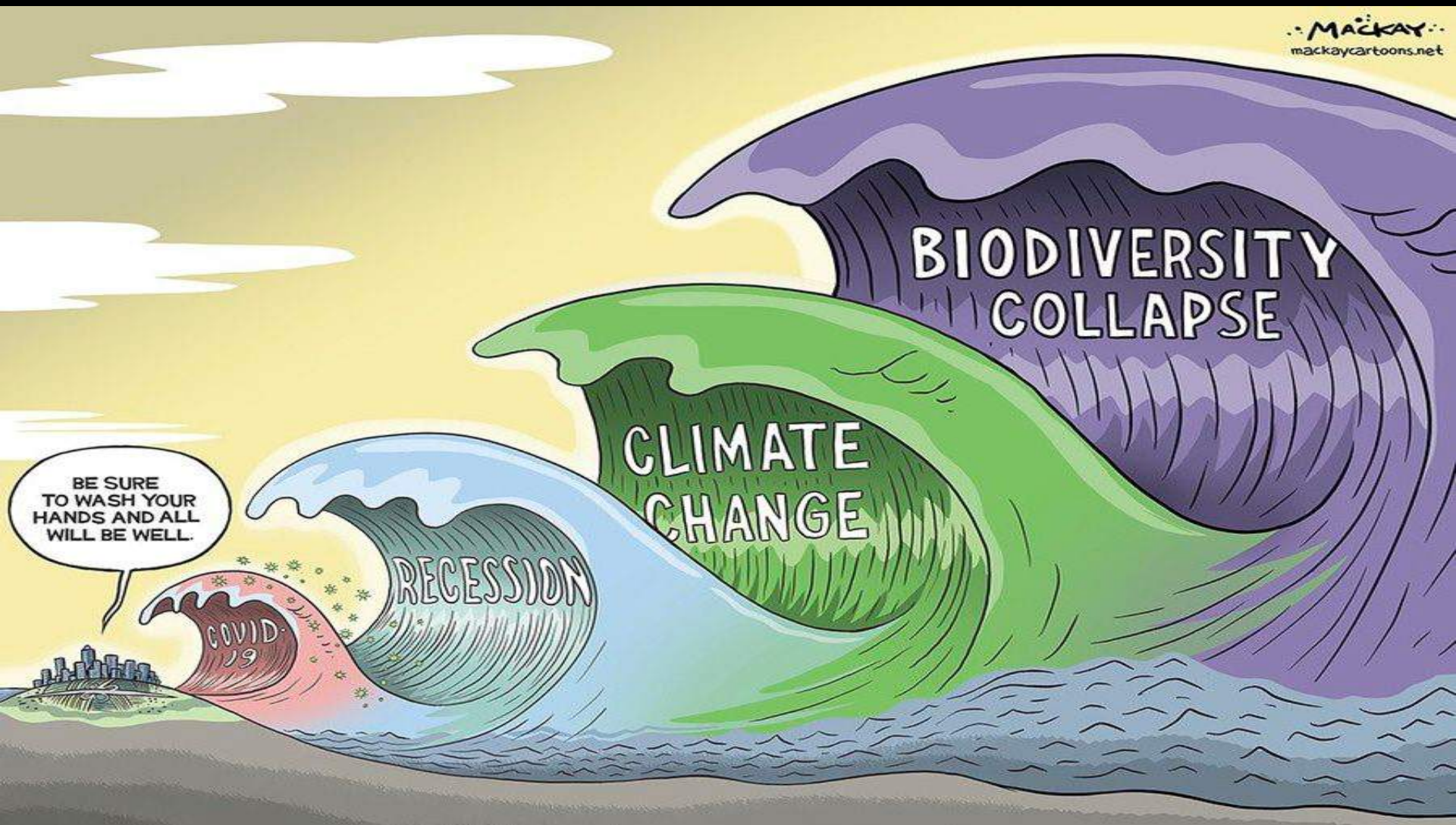
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**Communicate on the event: #BiodiversaEvents**



Address by ***Philippe Tulkens***, *Head of Unit  
climate and planetary boundaries at DG  
Research & Innovation, European Commission*

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BE SURE  
TO WASH YOUR  
HANDS AND ALL  
WILL BE WELL.

COVID-19

RECESSION

CLIMATE  
CHANGE

BIODIVERSITY  
COLLAPSE



SUSTAINABLE  
DEVELOPMENT  
GOALS

14  
LIFE  
BELOW WATER

Convention on  
Biological Diversity







The INVAXEN project – INVAasive biology of XENopus laevis in Europe



0:48 / 2:35

Dealtă facă clic pentru a vedea mai multe detalii





# Biodiversa Prize : 2021 award ceremony

By *Lise Goudeseune*, Belgian Science Policy Office, Belgium

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## The Biodiversa Prize for Excellence & Impact

- ✓ Created in 2018
- ✓ 6 videos produced since then
- ✓ 2-3 min animated video
- ✓ Communication tool for a large audience
- ✓ Link to the Biodiversa YouTube channel: [www.youtube.com/c/Biodiversa/featured](http://www.youtube.com/c/Biodiversa/featured)



The **SPONFOREST** project => on spontaneous forest regrowth on abandoned farmlands

*PI Arndt Hampe*



The **ENABLE** project => on the benefits and challenges of GBI

*PI Erik Andersson*



Acknowledgments by *Erik Anderson, Stockholm Resilience Center, Sweden*



2021 Biodiversa Prize edition - the ENABLE video



Acknowledgement by *Arndt Hampe*, National  
Research Institute for Agriculture, Food and  
Environment, France





2021 Biodiversa Prize edition - the SPONFOREST video



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**Thank you for your participation**

**See you tomorrow at 8:30 !**

**Find out more about Biodiversa:  
[www.biodiversa.org](http://www.biodiversa.org)**



**@Biodiversa3**



**Biodiversa+**



*The Biodiversa project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 64242*



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# Biodiversa Final Conference

*16 – 17 November 2021*

*DAY 2*

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# Introduction

By *Valérie Normand*

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**#224157**







# **Bridging the gap between science and society: a dialogue between researchers and stakeholders**

*Facts and figures highlighting the Biodiversa approach and tools to promote the science-society dialogue*

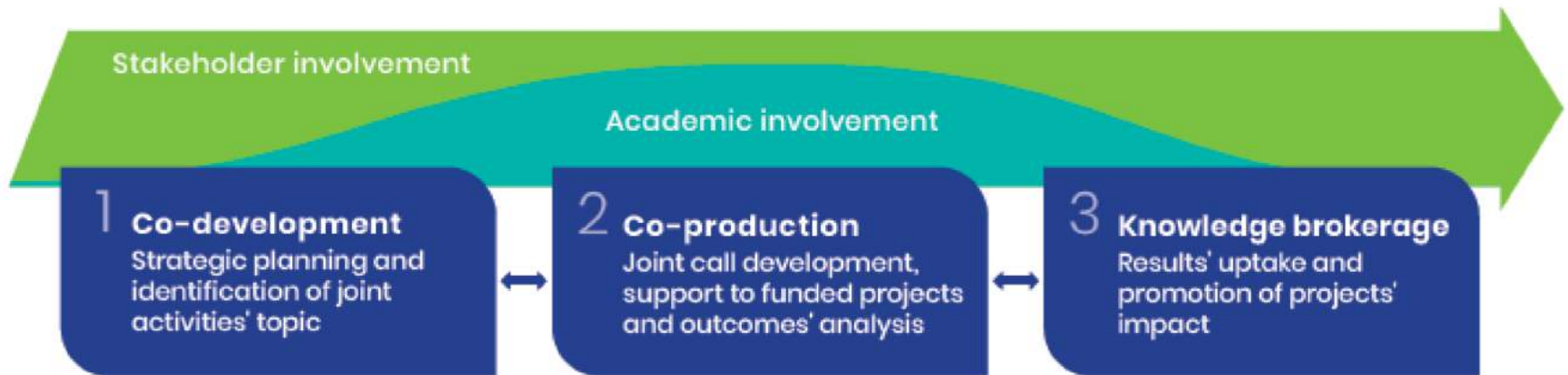
*By **Frédéric Lemaître**, BiodivERsA SSI/SPI Officer*

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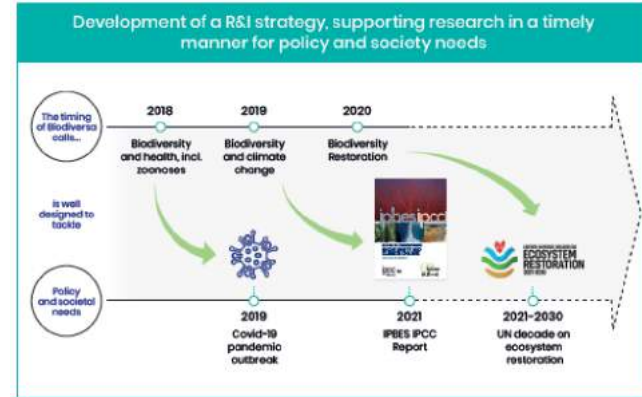
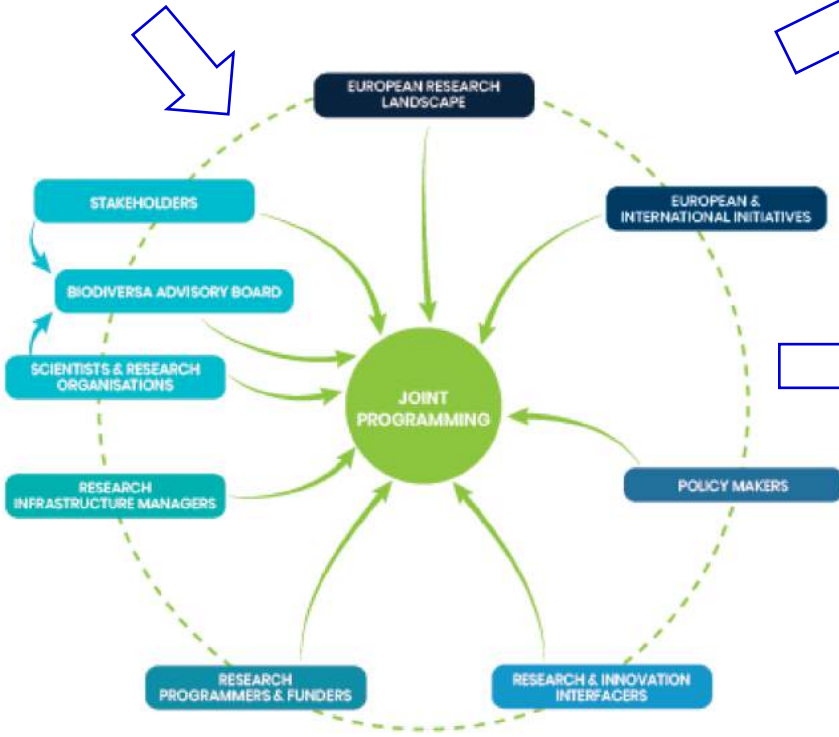
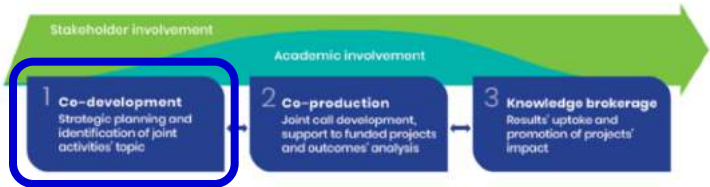
*Biodiversa's approach to stakeholder engagement  
(adapted from Mauser et al. 2013)*



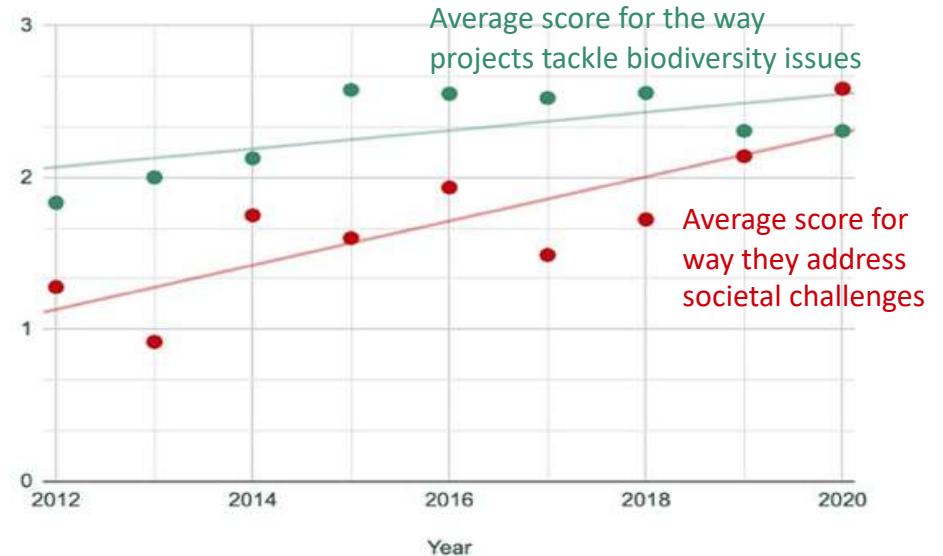


# biodiversa

Biodiversa's approach to stakeholder engagement  
(adapted from Mauser et al. 2013)



## BiodivERSA evolution



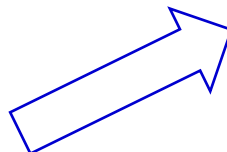


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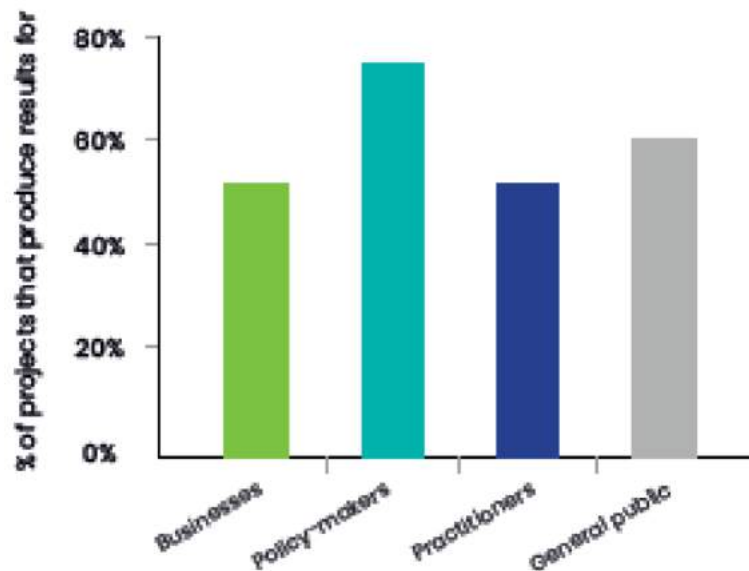
BiodivERSa's approach to stakeholder engagement  
(adapted from Mauser et al. 2013)



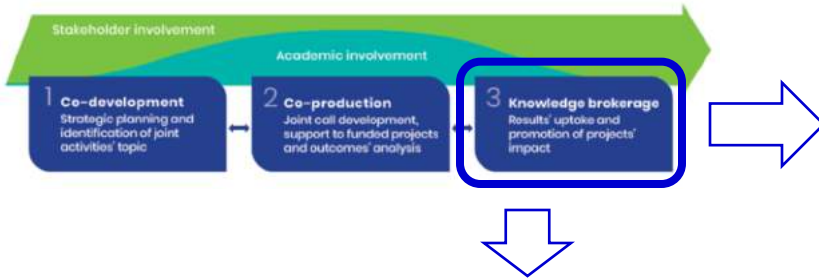
- Call development & evaluation
- Capacity building tools
- Engagement opportunities



2019-20 and 2020-21 calls:  
Highest % of societal impact scores being excellent/outstanding in proposals

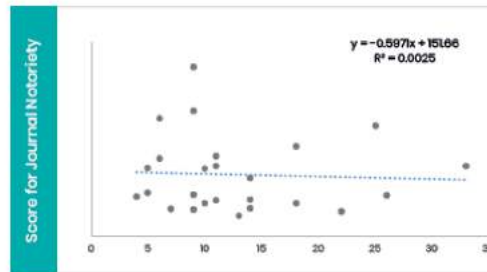


BiodivERsA's approach to stakeholder engagement  
(adapted from Mauser et al. 2013)

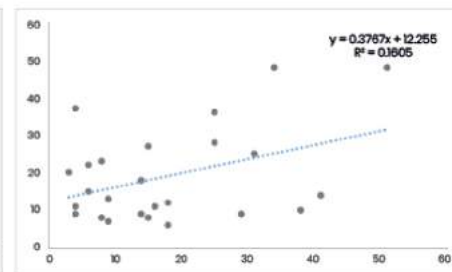
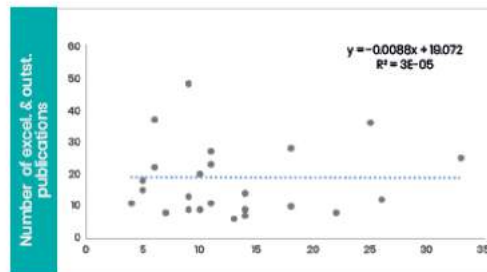
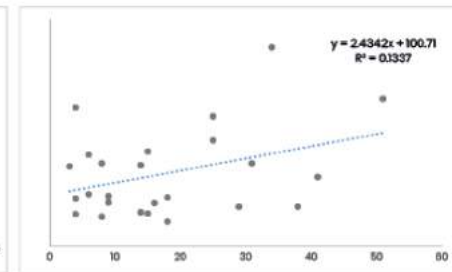


Since 2016, BiodivERsA was invited to share insights on its methods and is used as reference point (e.g. by Belmont Forum)

NUMBER OF STAKEHOLDERS



SCORE FOR STAKEHOLDER-RELEVANT OUTPUTS



Correlations between indexes for academic excellence (turquoise) and stakeholder engagement or generation of stakeholder relevant products (green) based on the monitoring of funded projects (grey dots)



**Short talks by funded researchers and  
their stakeholders:**

**How to bridge the gap between research  
and society and lessons learnt from their  
collaboration ?**



By **Aschwin Engelen** (The Algarve Centre of Marine Sciences, Portugal) & **Antonio Vieira** (owner of a fish farm in the Algarve, Portugal)

**MARFOR project**

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An underwater photograph showing a dense forest of marine plants. Large, broad, green kelp leaves with distinct veins and small holes are the central focus. To the left, there is a cluster of smaller, feathery green seaweed. The background is dark and slightly out of focus, suggesting a deep underwater environment.

# MARFOR. BiodivERsA

FUNCTIONAL VARIABILITY AND DYNAMICS OF RESPONSES OF  
MARINE FORESTS TO GLOBAL CHANGE





A CONSORTIUM OF 23 INSTITUTIONS, WITH CCMAR (PT) AS COORDINATOR

**Ester Serrão**

**Project coordinator**

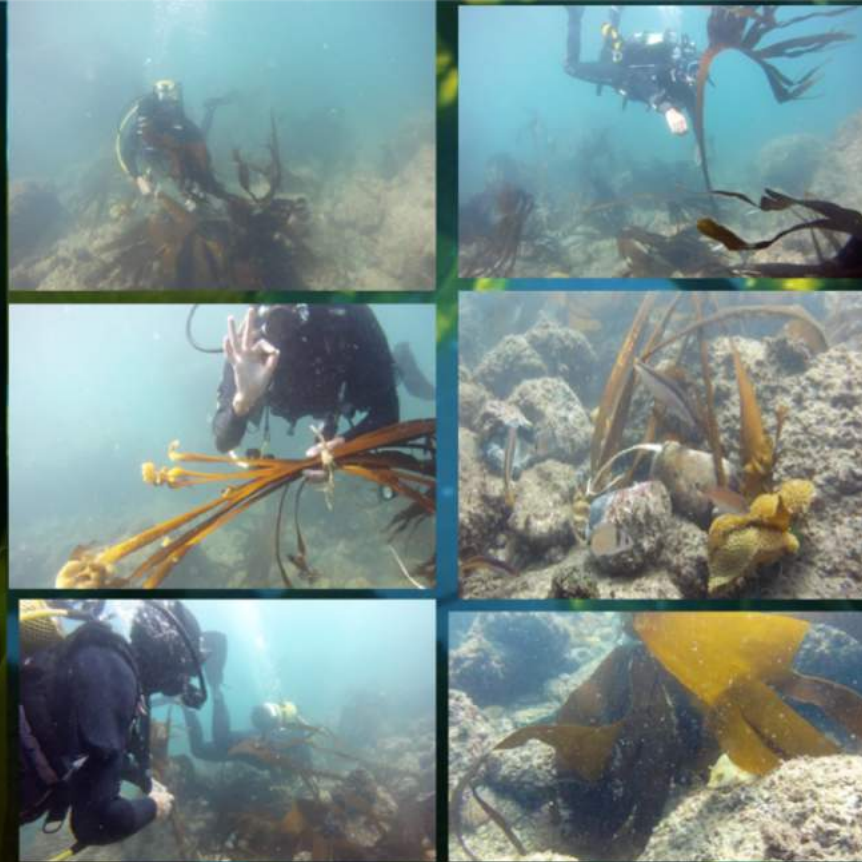
CCMAR – Centre of Marine Sciences at the University of Algarve, Portugal

## Example of results of this application in HABITAT RESTORATION (by MARFOR-Portugal):

1) threatened populations of kelp species **genetically distinguished** by MARFOR results

2) kelp restoration initiatives planting kelp where it disappeared, are using MARFOR data for verifying the **source of genetic material** suitable for planting in the recovery area (genetically similar to the pre-existing population)

- 3 initiatives, in collaboration with Marine Park of Arrabida, Cascais townhall, and Seaforester-Portugal.





OUR MISSION IS TO BRING YOU THE FINEST THE SEA HAS TO OFFER



By **Christopher Raymond** (Helsinki Institute of Sustainability Science, Finland) & **Alberto Arroyo Schnell** (International Union for the Conservation of Nature - IUCN)

**ENVISION project**



By **Claude Garcia** (CIRAD, France and Swiss Federal Institute of Technology in Zürich, Switzerland) & **Gemma Boetekees** (Forest Stewardship Council - FSC)

**COFORTIPS project**



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## 2020 BiodivERsA Prize: INVAXEN



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# How can research results guide policy ?

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By **Per Sjögren-Gulve**, former policy brief task leader

## How research can influence policy making processes: what are the needs and enabling conditions?

- **Claire Brown**, principal technical specialist at UN Environment Programme World Conservation Monitoring Centre (UNEP-WCMC) - UK
  - **Stefan Piskol**, Adelphi, Germany & PI in the BIOGEA project
- **Philip Roche**, Chair of EKLIPSE Knowledge Coordination Body / French Ministry of Research, France



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## 2019 BiodivERsA Prize: BUFFER



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**Coffee break**

**We start again at 11:30**

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# **The Biodiversa experience: lessons learnt and way forward**

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## Reflections on the Biodiversa mission, research funded and achievements: lessons learnt and recommendations for the future

- **Michele Bozzano**, EUFORGEN Coordinator, European Forest Institute
- **Josefina Enfedaque**, DG Research and Innovation, European Commission
  - **Mari Stenseke**, University of Gothenborg, Sweden
  - **Marten Winter**, Synthesis research centres - sDiv, Germany



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# Conclusion

By **Xavier Le Roux**, BiodivERsA Chair & Coordinator

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**Thank you for your participation**

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