



# GBIF: Integrating European data for global use

Joe Miller

Executive Secretary



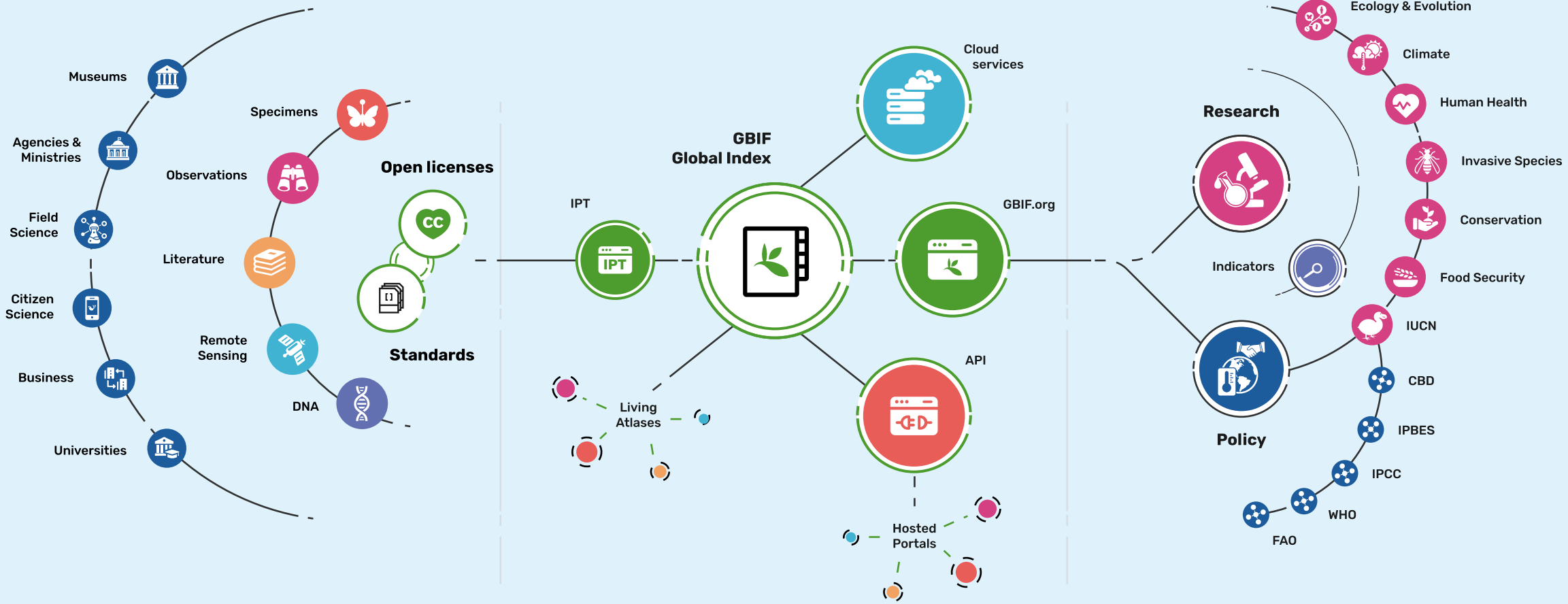
Learn more here:



## WHAT IS GBIF?

*GBIF—the Global Biodiversity Information Facility—is an international network and data infrastructure funded by the world's governments and aimed at providing anyone, anywhere, open access to data about all types of life on Earth.*

# PROVIDING BIODIVERSITY EVIDENCE FOR RESEARCH AND POLICY



# SOURCES OF BIODIVERSITY EVIDENCE

Funders:

DG ENV

Biodiversa+

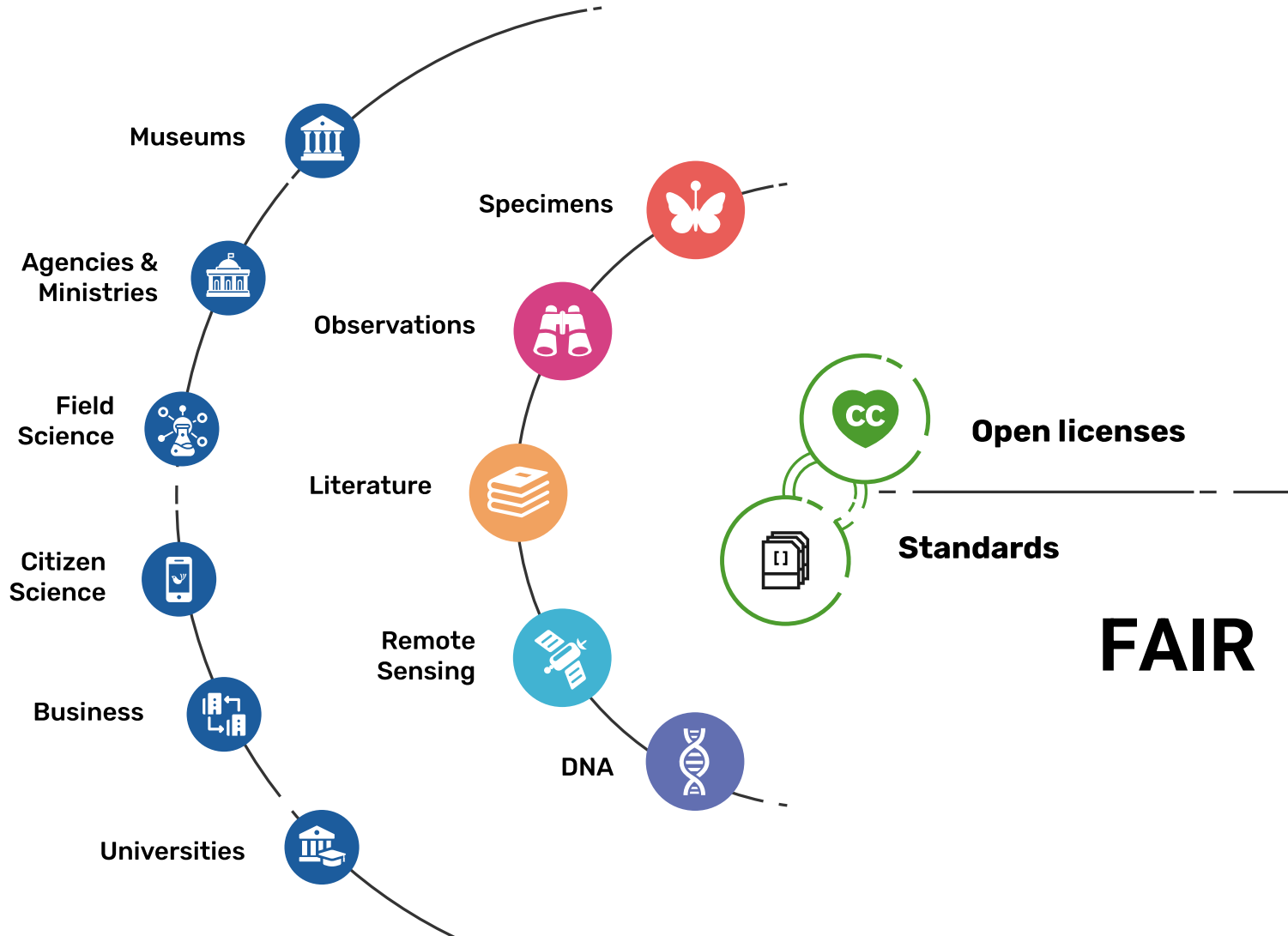
ESFRI

DG INTPA



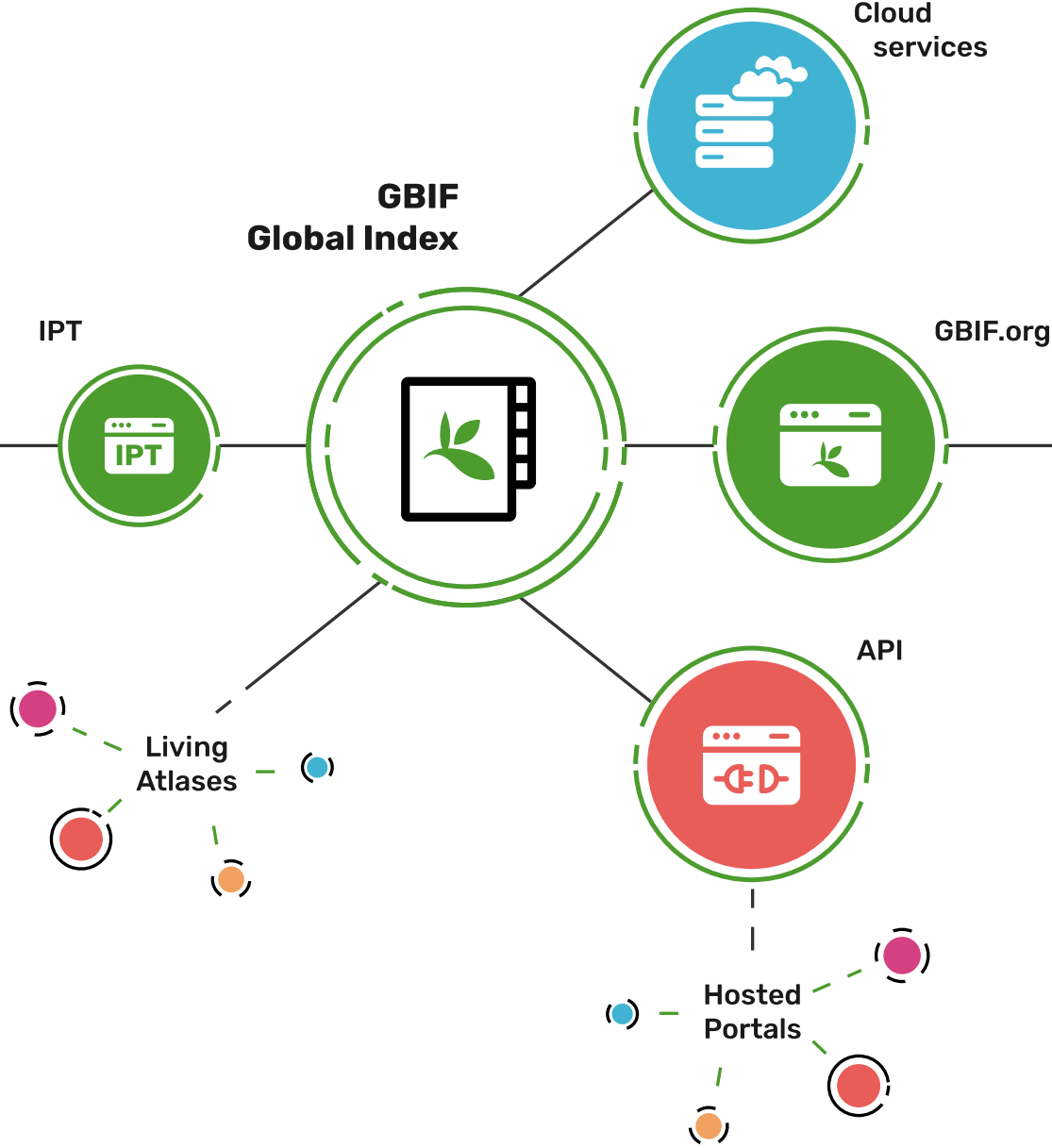
Other national programs

Global funders

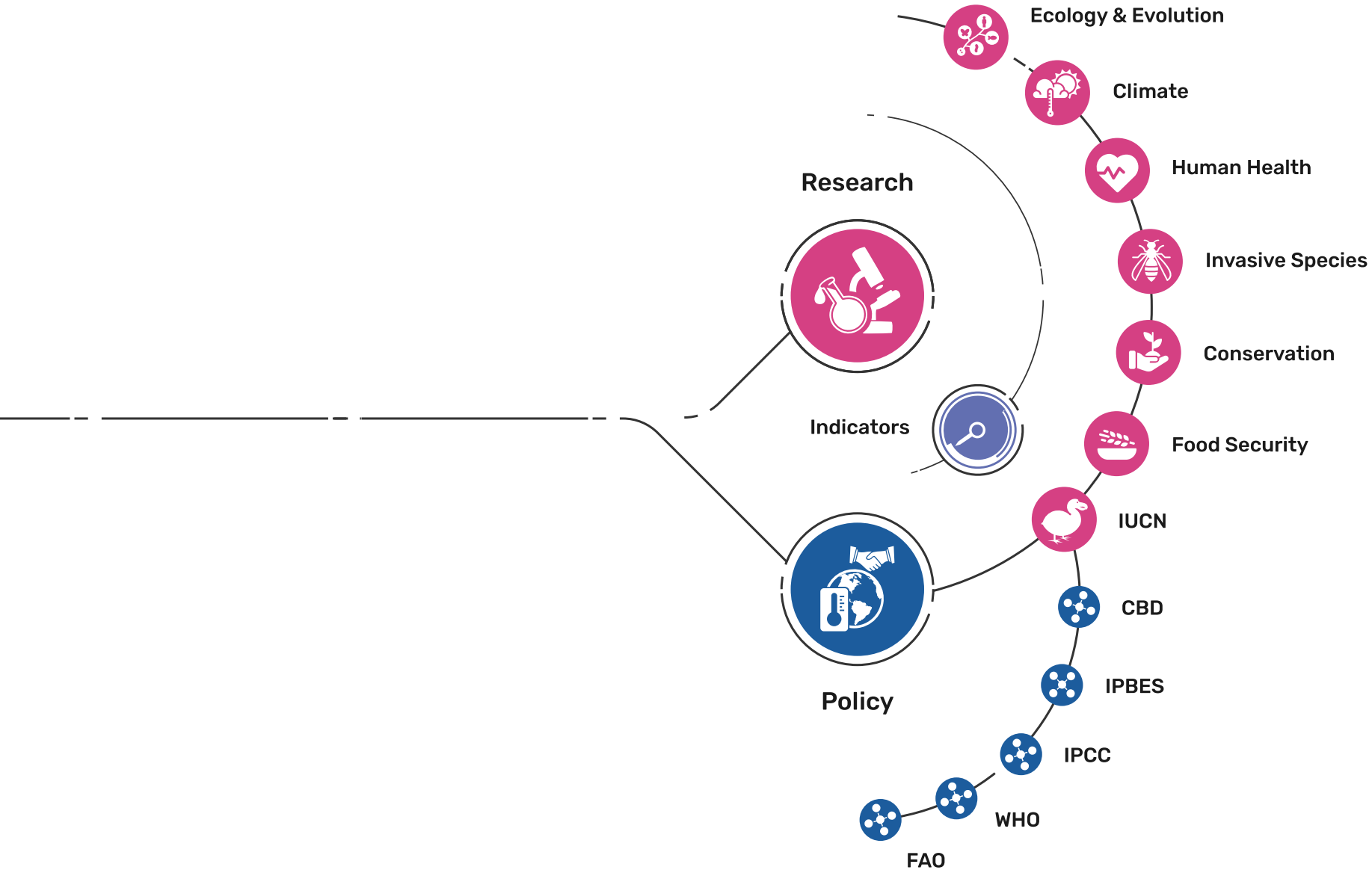


GBIF Node network and institutional data providers

# ACCESS TO BIODIVERSITY EVIDENCE



# USES OF BIODIVERSITY EVIDENCE



Data users

EUROPABON

EEA

Lifewatch

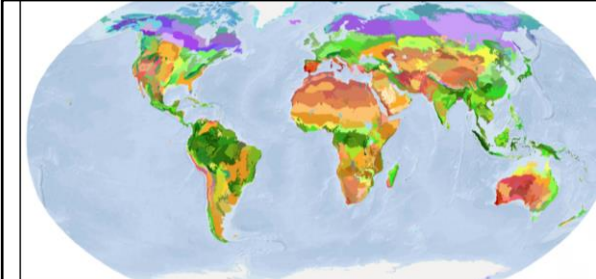
ERICS

KCBD

GBIF nodes

Other European and national programs

# A DATA RESOURCE TO SUPPORT RESEARCH AND SUSTAINABLE DEVELOPMENT



SERVED AS THE BASIS OF THE STATISTICAL ANALYSIS IN SMITH ET AL. 2018, THE LATEST EXPERT-LED REFINEMENT OF A GLOBAL MAP OF ECOREGIONS DEVELOPED AS PART OF THE PROPOSED GLOBAL DEAL FOR NATURE HAD ITS APPROACH VALIDATED BY THE RESEARCH. FIGURE FROM DINERSTEIN ET AL. (2017) [HTTPS://DOI.ORG/10.1093/BIOSCI/BIX014](https://doi.org/10.1093/biosci/bix014) [CC BY 4.0]

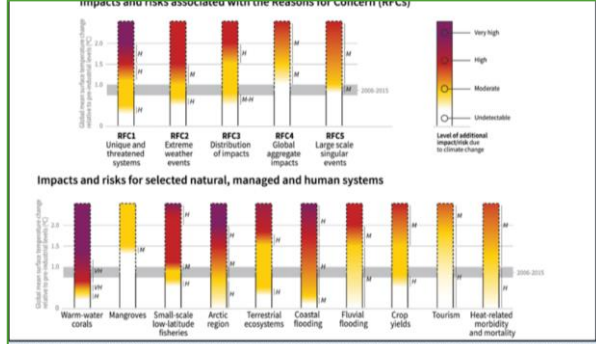
**DATA STORY USING SPECIES OCCURRENCE DATA AS EVIDENCE TO TEST RECEIVED BIOGEOGRAPHIC WISDOM**

DATA USED: 200 MILLION SPECIES OCCURRENCES



COFFEA LIBERICA BY DINESH VALKE [HTTPS://WWW.FLICKR.COM/PHOTOS/DINESH\\_VALKE/5597839545](https://www.flickr.com/photos/dinesh_valke/5597839545) [CC BY-SA 2.0]

**DATA STORY DEVELOPING AN INDICATOR FOR SUSTAINABLE DEVELOPMENT GOALS & BIODIVERSITY TARGETS USING OPEN DATA**



IMPLICATIONS OF GLOBAL WARMING FOR PEOPLE, ECONOMIES AND ECOSYSTEMS. CROPPED FROM FIGURE IN IPCC SR1.5: SUMMARY FOR POLICYMAKERS\*

**DATA STORY DATA FROM THE GBIF NETWORK UNDERPINS BIODIVERSITY-RELATED FINDINGS IN LATEST IPCC REPORT**



PTEROPUS GIGANTEUS BY HEMANT KUMAR [HTTPS://WWW.GBIF.ORG/OCCURRENCE/1092888502](https://www.gbif.org/occurrence/1092888502) [CC BY-NC 4.0]

**DATA STORY FLYING FOXES PREDICT NIPAH VIRUS TRANSMISSION RISK**

DATA USED: 47,942 SPECIES OCCURRENCES

## Conservation

*Where are the most important areas to protect?*

## Food Security

*Where are the genetic resources to sustain future nutrition?*

## Climate change

*How will climate change affect species distributions?*

## Human health

*Where are the risk areas for outbreaks of zoonotic diseases?*

# THANK YOU

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