Activities of K-BON with Civil Scientist

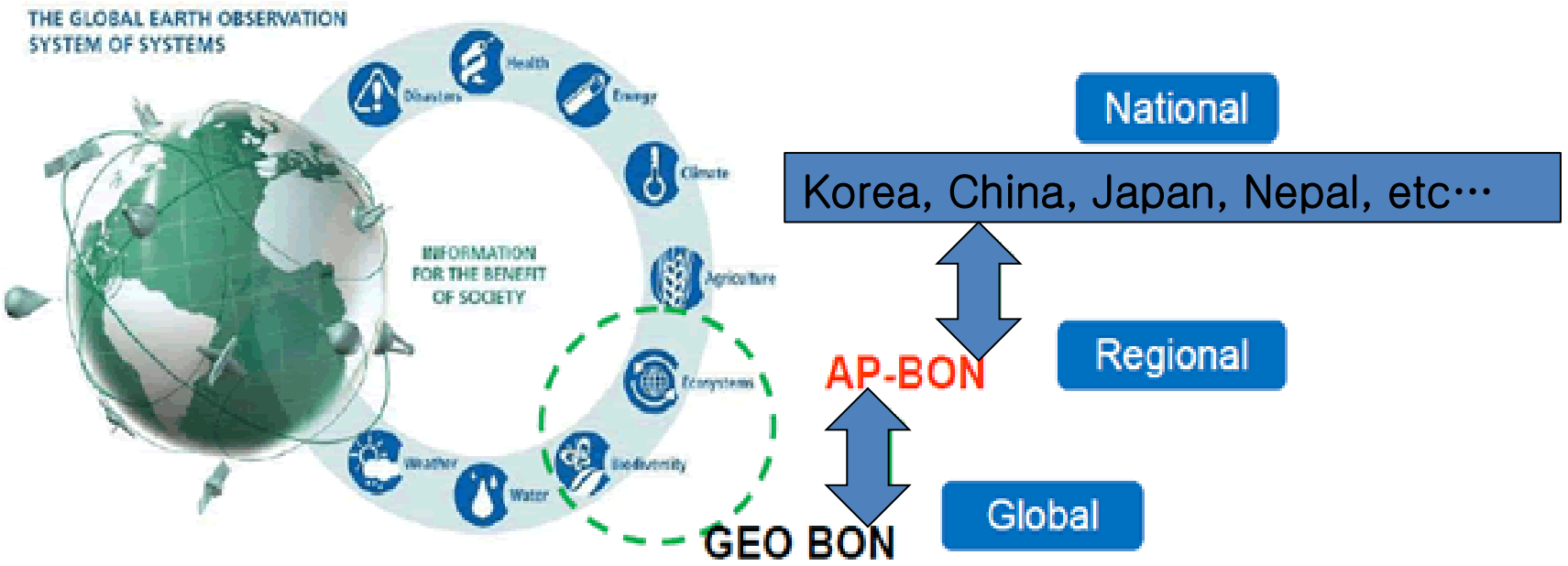
2017. 1. 12

Chan-Ho PARK

NIBR, KOREA

K-BON is

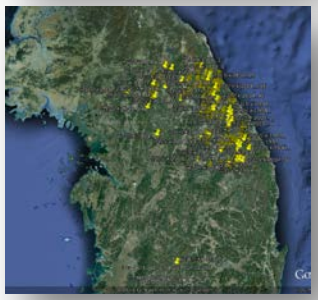
- National BON of Asia Pacific Region
- Member of AP-BON
- Collaborate to GTI(Global Taxonomy Initiative) and ESABII



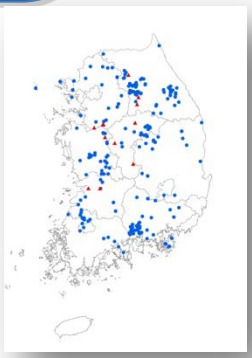
Working group of K-BON

KBON Korea Biodiversity Observation Network

GEO GROUP ON EARTH OBSERVATIONS



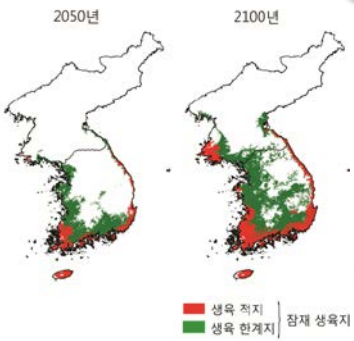
Monitoring group with Civil Scientists (WG1)

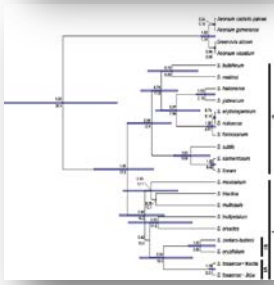


Biodiversity information Data base (WG4)

Species Distribution Modeling (WG2)

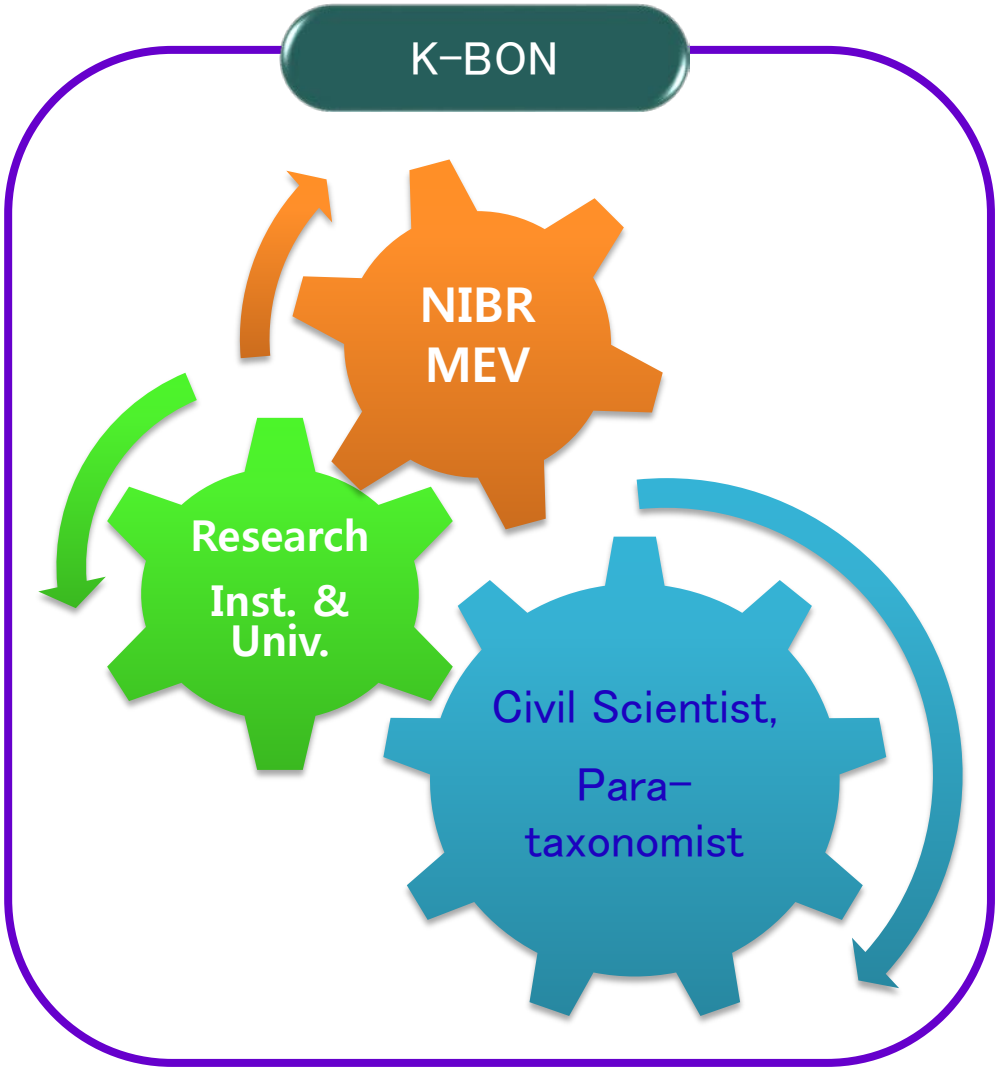
RedList Research (WG3)





Korea NBSAP, Plan of Invasive Ailen Species, National Plan of Adaptaion of Climate Change etc.

K-BON : Korea Biodiversity Observation Network



Research and Management of Biodiversity In KOREA

KBON
Korea Biodiversity Observation Network

NIBR
National Institute of Biological Resources

mev

K-BON information System Structure

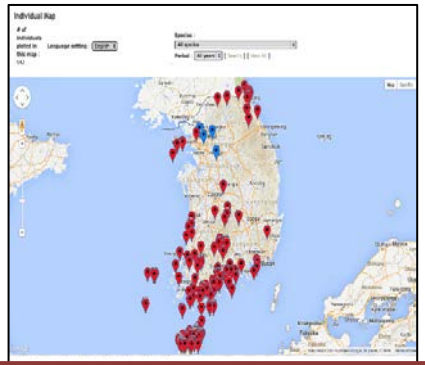
Observation Data from variable mobile device

K-BON Server Farm

Upload to server

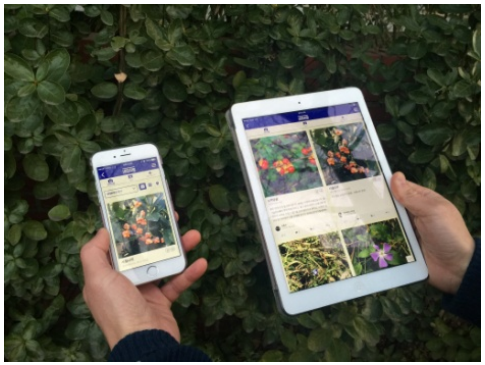
Import to server

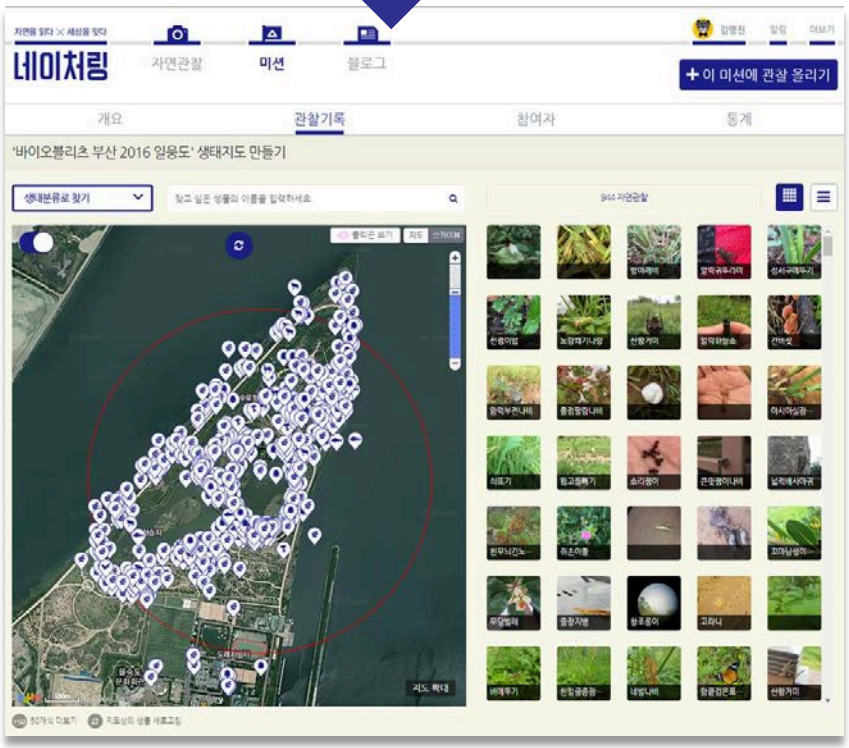
Observation Data from Diverse Sources



K-BON Web Interface

WG1 : Monitoring with mobiles device and SNS

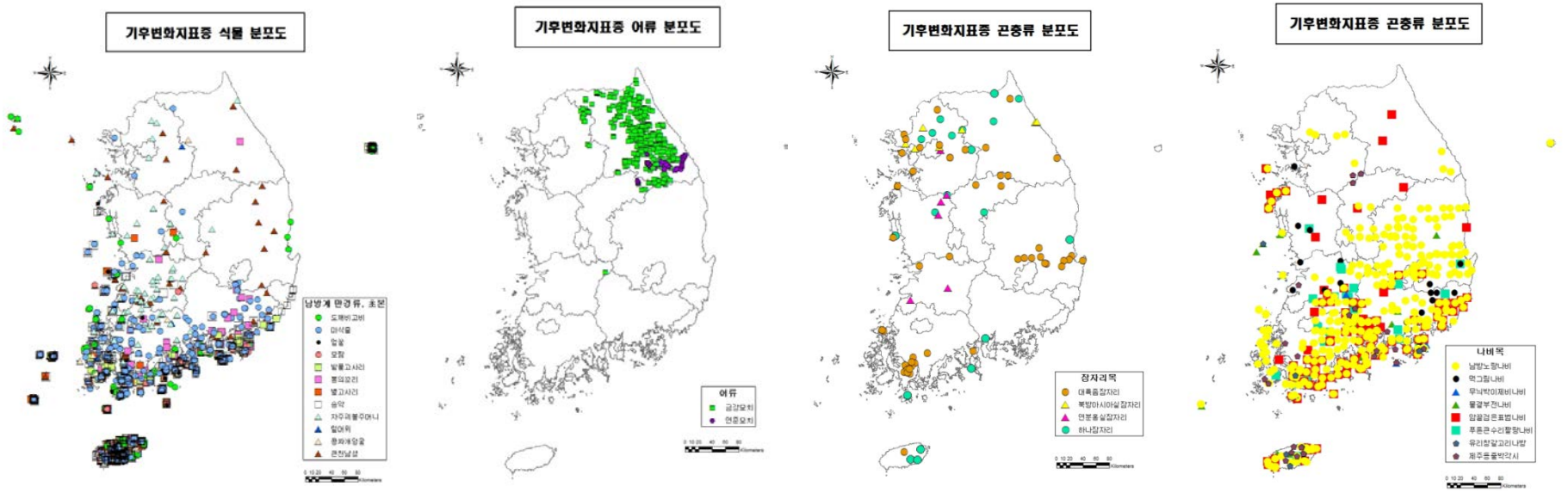




WG1 & WG4

Specimens data, reference information, various survey data and information via mobile apps for both the observations and analyzes that integrate.

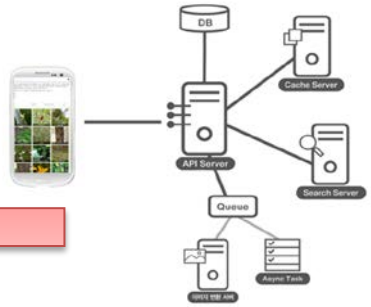
And continue to supplement the species distribution map, and later also want to take advantage of changes in biodiversity observations.



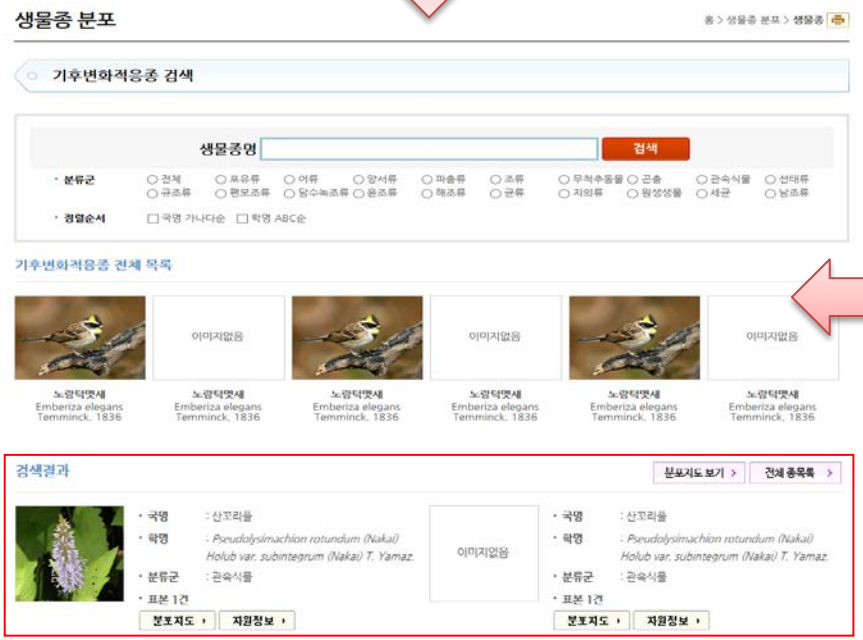
2. WG1 & WG4

Geospatial analysis services linking propulsion by utilizing the K-BON data

Species information



Distribution informtion

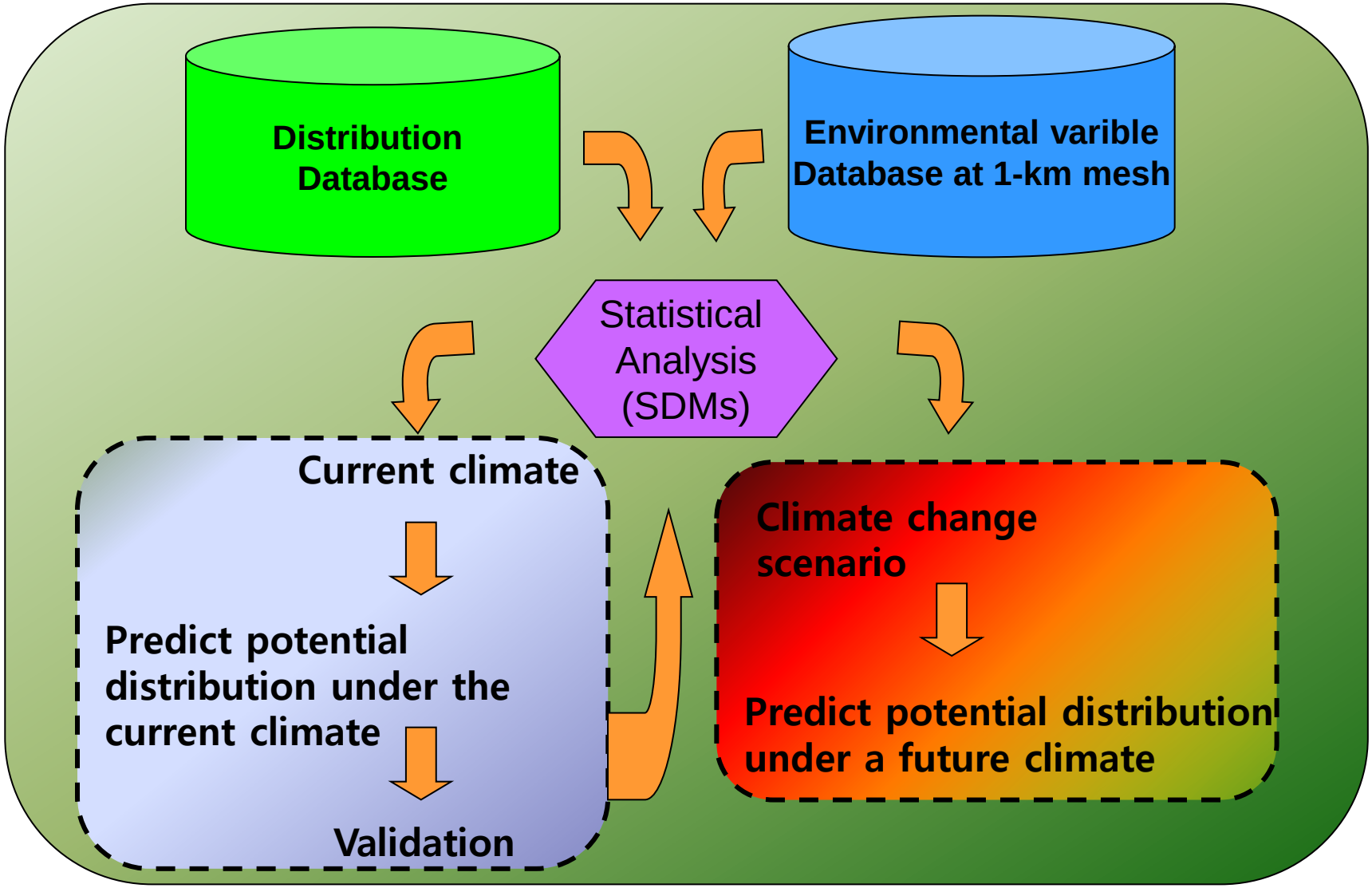


국립생물자원관

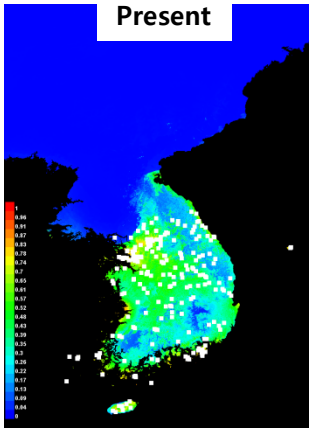
KBON Korea Biodiversity Observation Network

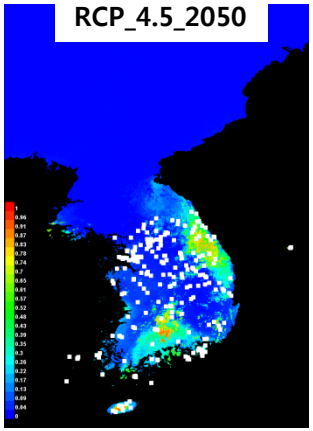
GEO GROUP ON EARTH OBSERVATIONS

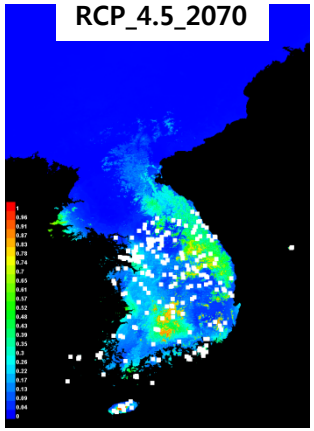
WG2 : Species Distribution Modeling

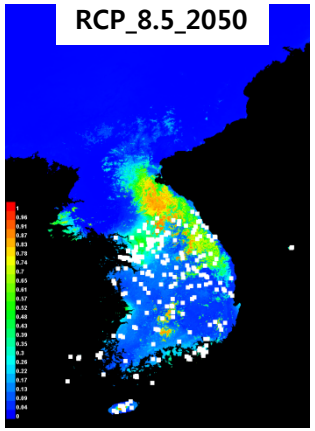


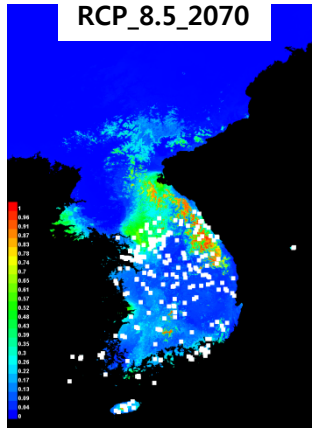
② Research

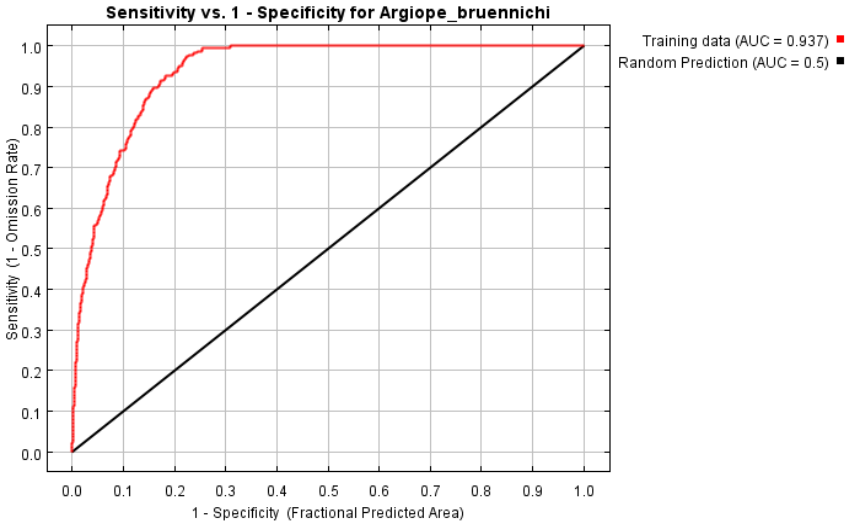










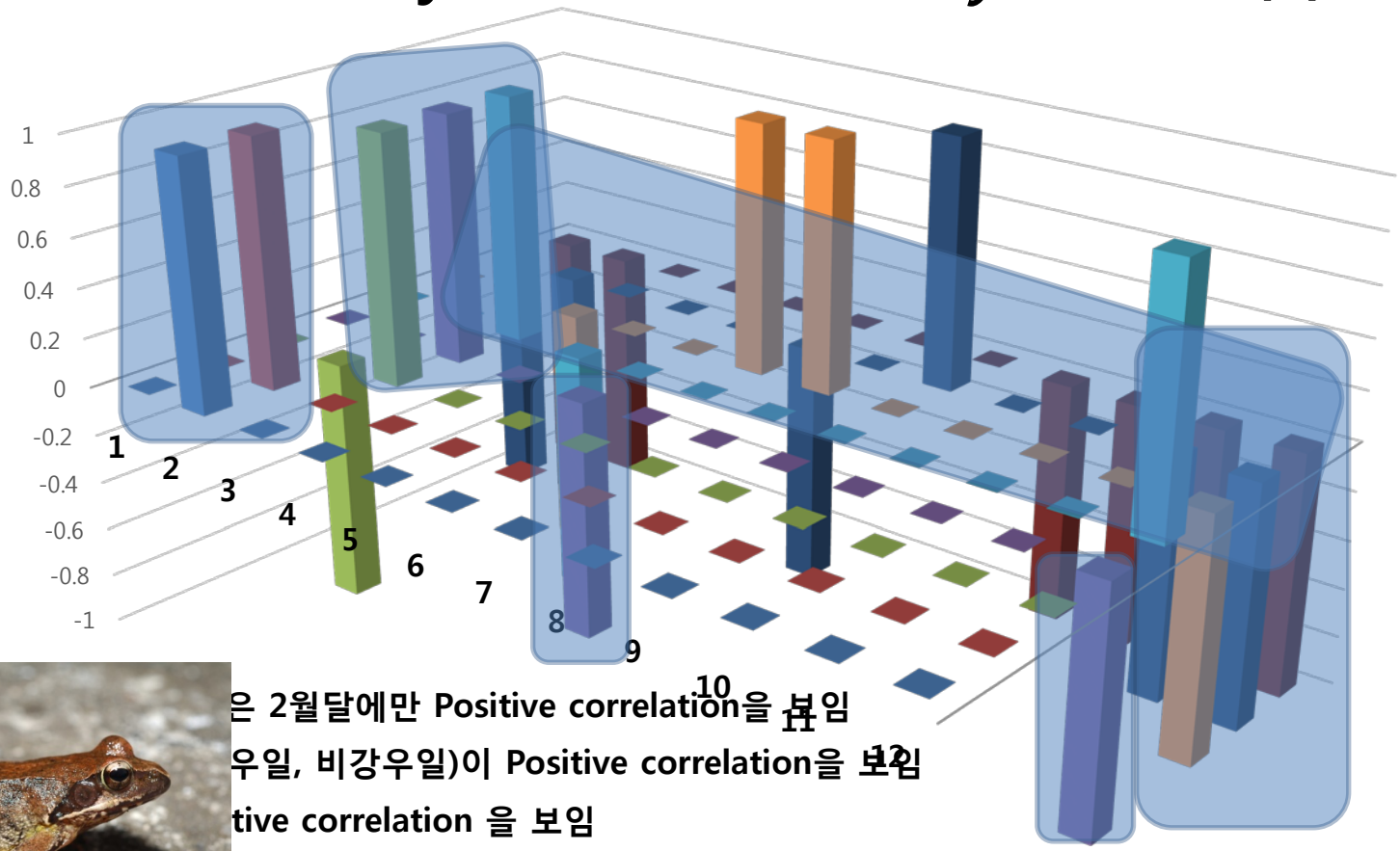


	Pre	RCP_4.5_2050	RCP_4.5_2070
Area (㎢)	124,071	40,892	63,726
		RCP_8.5_2050	RCP_8.5_2070
		63,838	61,075

Banana spider
Argiope bruennichi Scopoli 1772

② Research

Correlation Summary Matrix of *Rana dybowskii* (1)



은 2월달에만 Positive correlation을 보임

우일, 비강우일)이 Positive correlation을 보임

tive correlation 을 보임

련 correlation은 월별 데이터와 연관성이 적어 보임

correlation 이 확인됨

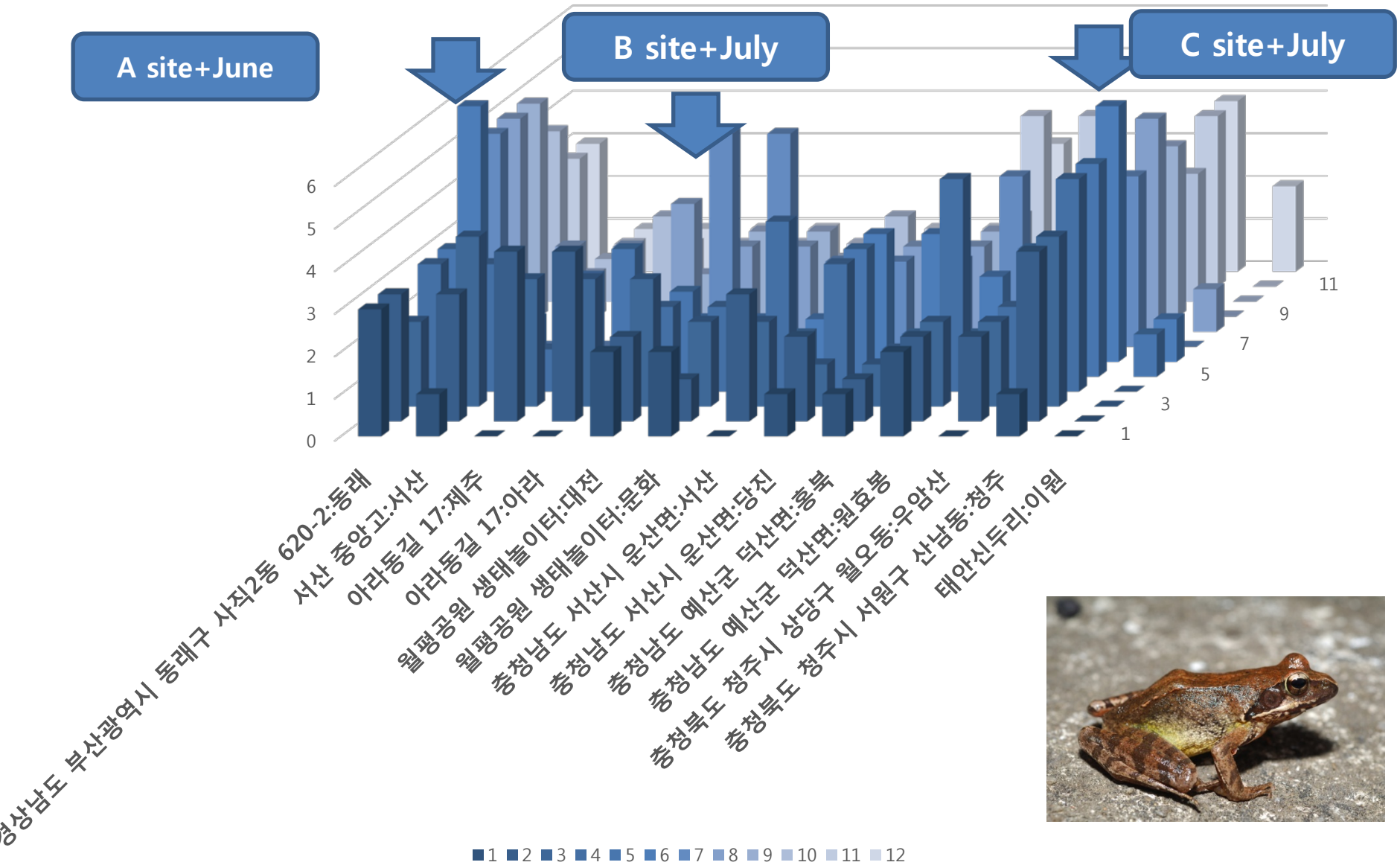
■ 월별 평균

■ 월별 강우일

date of the various weather elements, it is possible to use as a prediction data for the following year the first egg

Correlation Summary Matrix of *Rana dybowskii* (2)

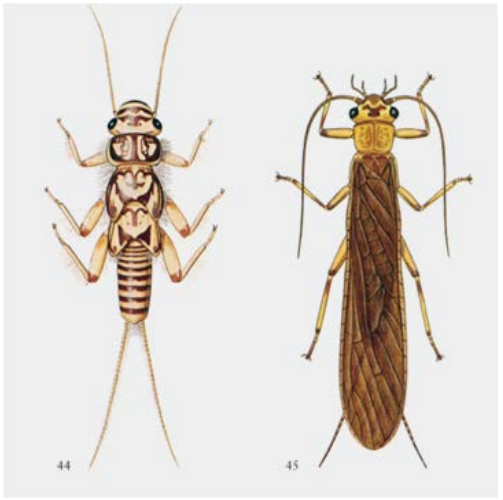
- **Frequently seen in local weather data and a positive correlation**



- **Invasive species of Onagraceae spp.**
- ***Ludwigia peploides subsp. stipulacea* (Ohwi) P. H. Raven ?**
- ***Ludwigia peploides* (Kunth) P. H. Raven ?**

Need more taxonomical and distribution data

New Target : Insect of Freshwater but we need more taxonomist!



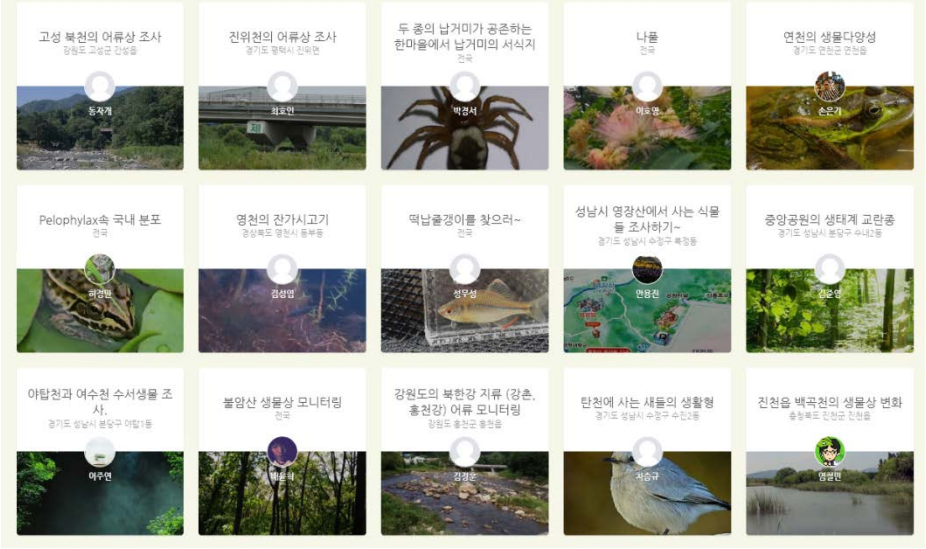
③Outreach

Capacity Building with civil scientists

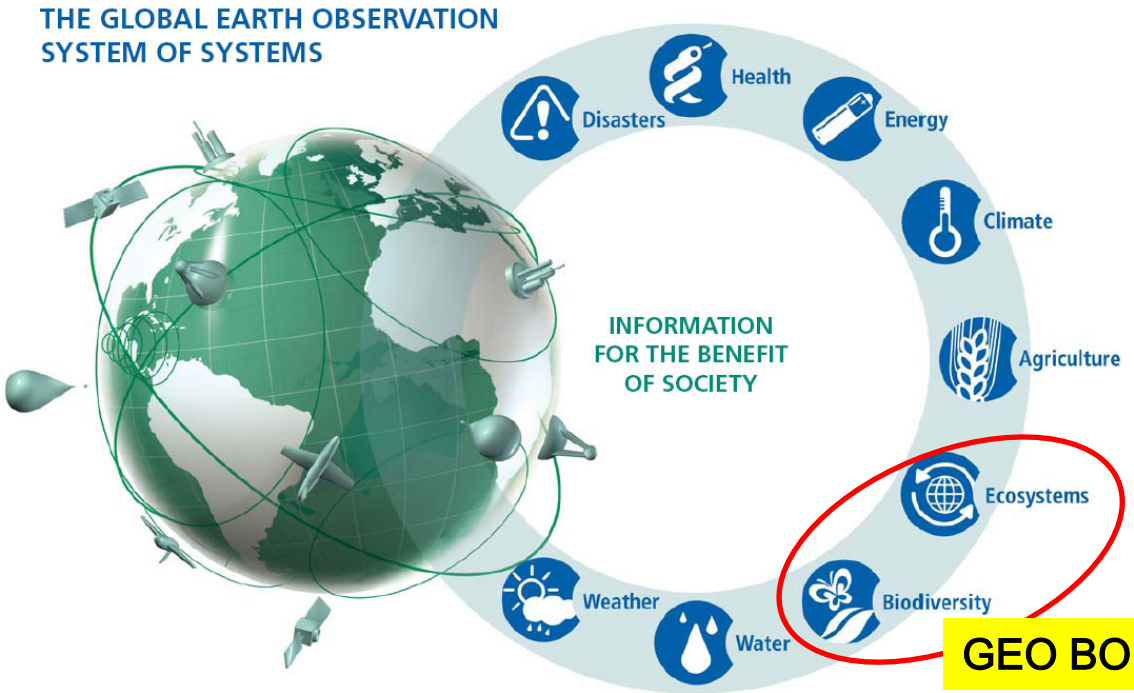
- Organize to BioBlitz
- Monitoring with field education

③Outreach

Start of K-BON Junior : The training of future scientists



④ Networking



Proposed Activities for Developing Global Biodiversity Monitoring System

Targeting East Asia and Pacific Region

- Identification of existing researches on biodiversity
- Distribution of Monitoring sites
- Development of standardized data collection
- Data integration, storage and analysis
- Capacity building for data collection and data analysis
- Provision and dissemination of the information

Networking among Biodiversity Centers

-Data provision/sharing

GEO-BON GBIF

Collaboration

Contribution

ILTER
NaGISA (CoML)
Other programmes

-Data collection and its standardization
-Data integration and analysis
-Capacity building

Decision Making in Biodiversity Conservation

GEO BON ⟷ AP BON

KBON Korea Biodiversity Observation Network

J BON

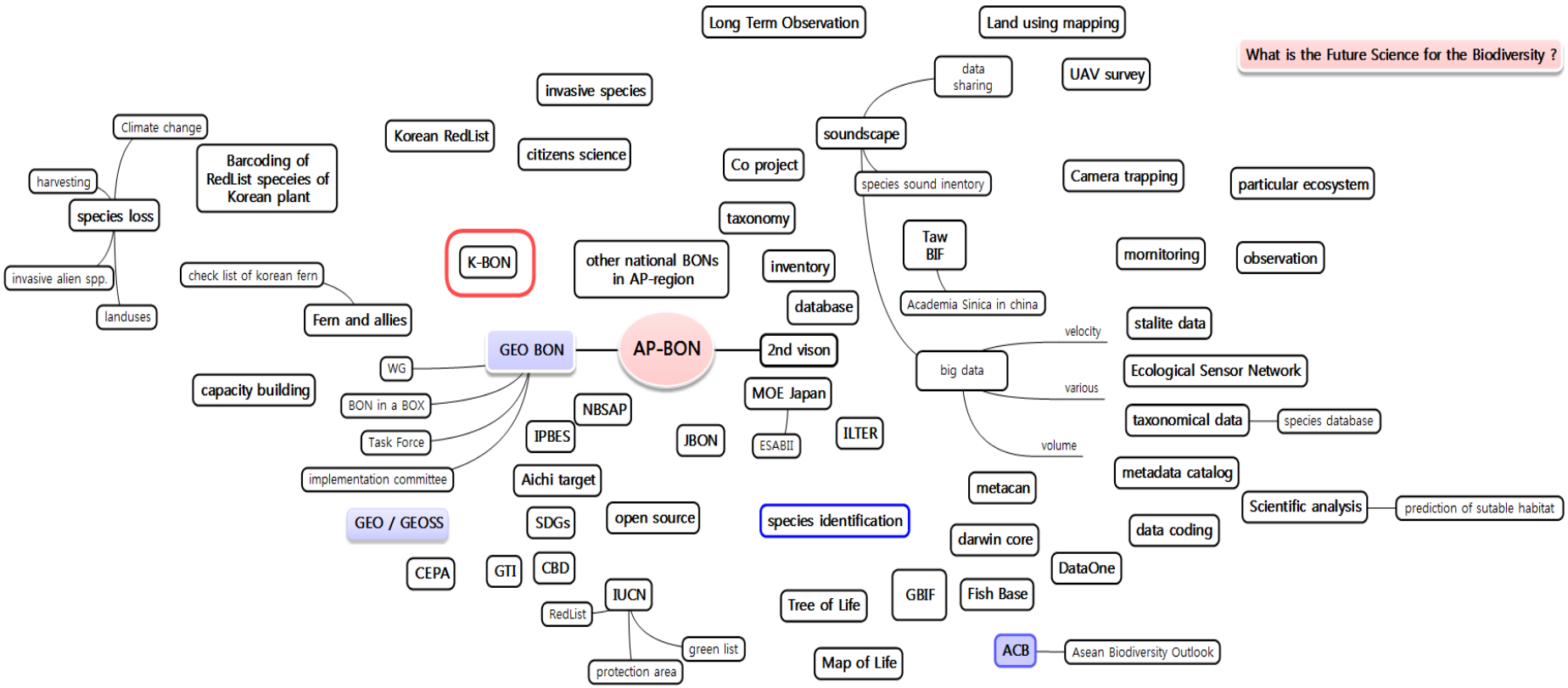
Sino BON

Nepal BON

National BON Network

KBON Korea Biodiversity Observation Network NIBR National Institute of Biological Resources

Strengthening cooperation network of national BON is required. This is directly related to the development of the AP-BON.



Korea Biodiversity Observation Network

Thank You