

Activities of K-BON with Civil Scientist

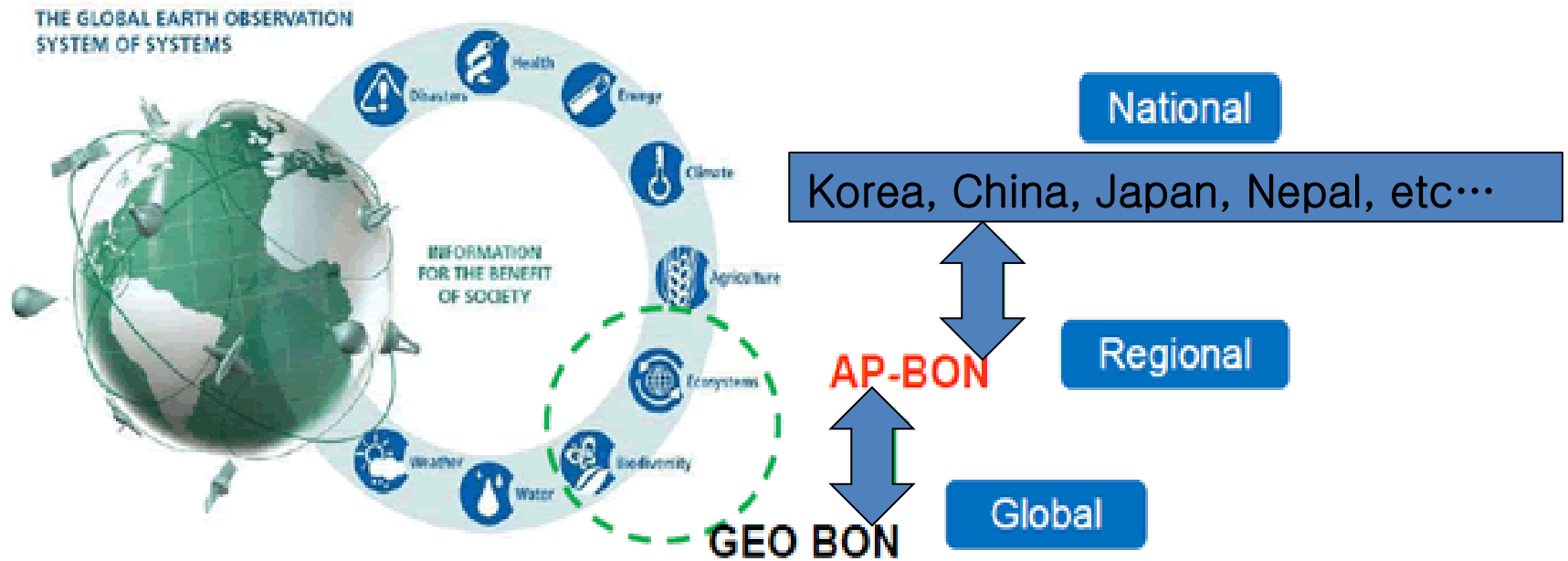
2017. 1. 12

Chan-Ho PARK

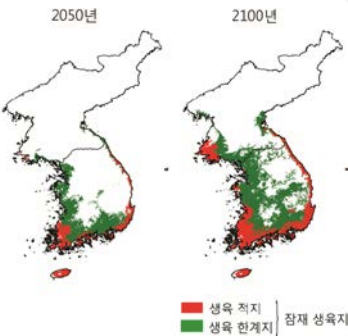
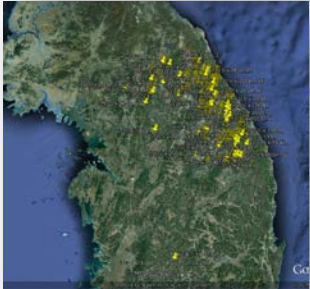
NIBR, KOREA

K-BON is

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



Monitoring group with Civil Scientists (WG1)



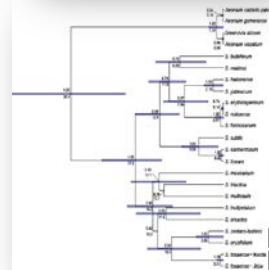
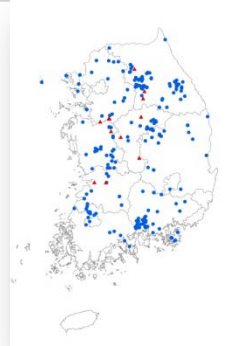
Biodiversity information

Data base (WG4)

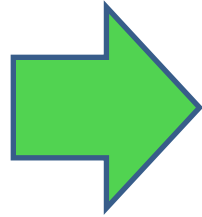
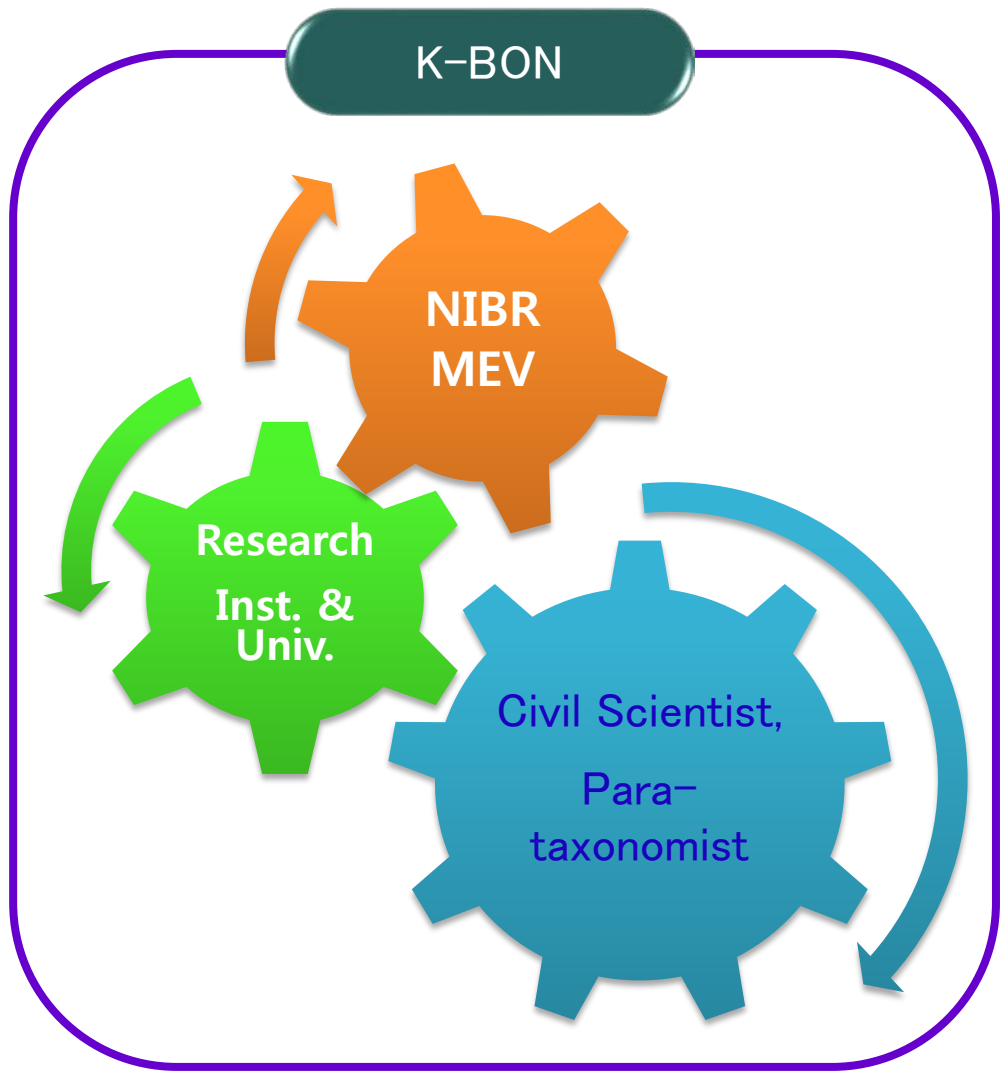
Species Distribution Modeling (WG2)

RedList Research (WG3)

Korea NBSAP, Plan of Invasive Alien Species, National Plan of Adaptation of Climate Change etc.

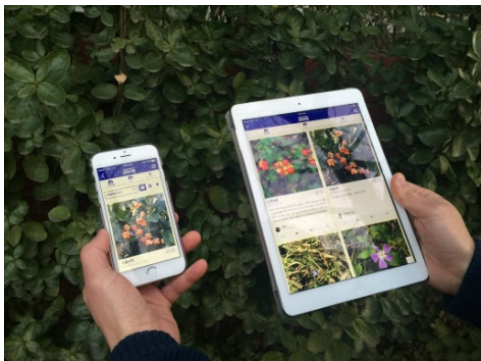


K-BON : Korea Biodiversity Observation Network



Research and Management of Biodiversity In KOREA

WG1 : Monitoring with mobile device and SNS



네이처링

자연 관찰 미션 블로그

관찰기록 참여자 통계

'바이오블리츠 부산 2016 일용도' 생태지도 만들기

생태분류로 찾기

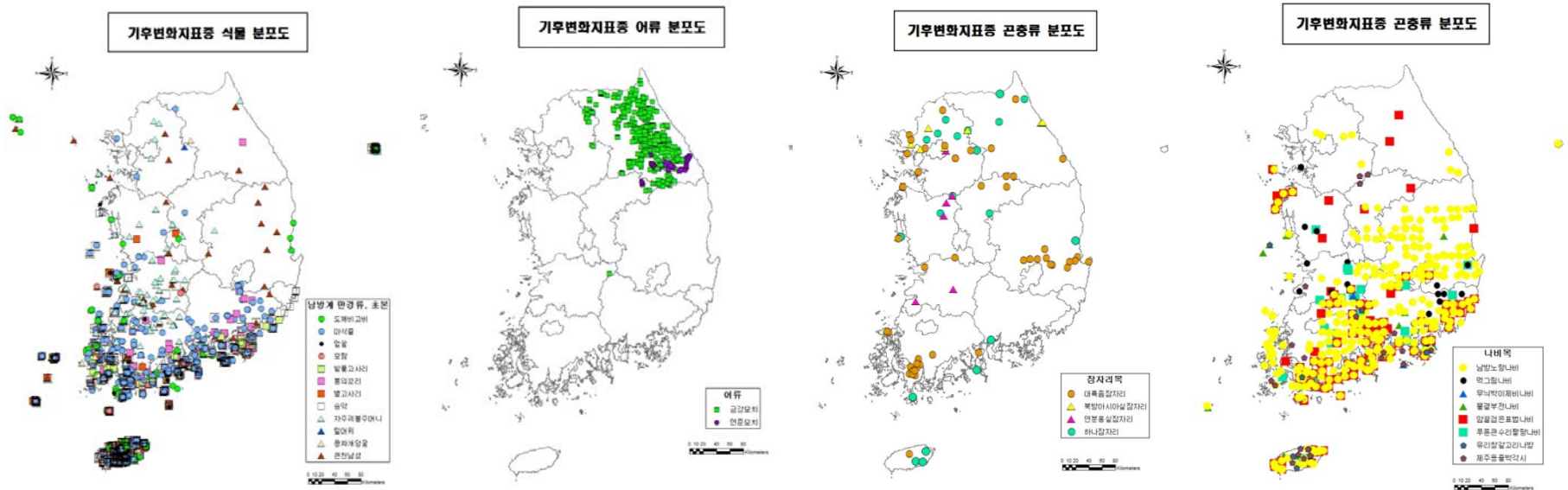
944 자연 관찰



WG1 & WG4

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

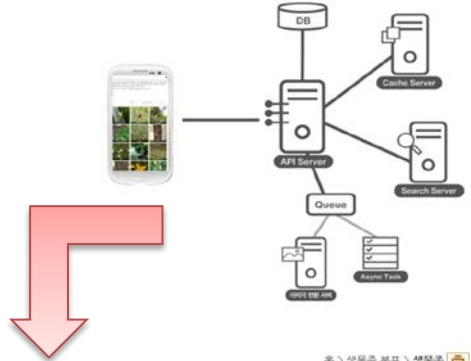
And continue to supplement the species distribution map, and later also want to take advantage of changes in biodiversity observations.



2. WG1 & WG4

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

Species information



Distribution information

생물종 분포

기후변화적응종 검색

생물종명 검색

분류군 견제 고유종 어류 양서류 파충류 조류 무척추동물 곤충 관속식물 선대류 균류 규조류 편모조류 담수척추류 육조류 해조류 균류 지렁이류 왕상충류 새균 남조류

국립 가나다순 학명 ABC순



검색결과

분포지도 보기 > 전체 종목록 >

국명 : 산꼬리풀

학명 : *Pseudolysimachion rotundum* (Nakai) Holub var. *subintegrum* (Nakai) T. Yamaz.

분류군 : 관속식물

표본 1건

분포지도 > 지형정보 >

이미지없음

국명 : 산꼬리풀

학명 : *Pseudolysimachion rotundum* (Nakai) Holub var. *subintegrum* (Nakai) T. Yamaz.

분류군 : 관속식물

표본 1건

분포지도 > 지형정보 >

생물종 분포

연구사업 소개 | 기후변화적응종이란? | 기후변화적응종 목록 | 기후변화적응종 분포

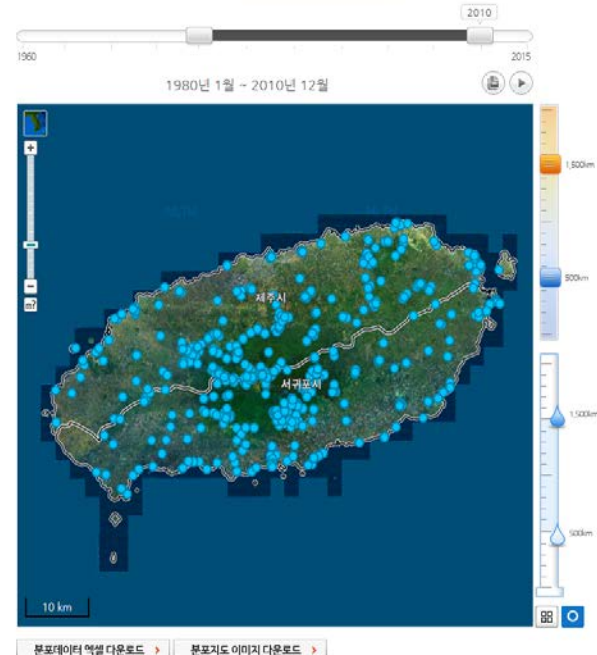
0목 0과 0속 70종 총 700점

생물종

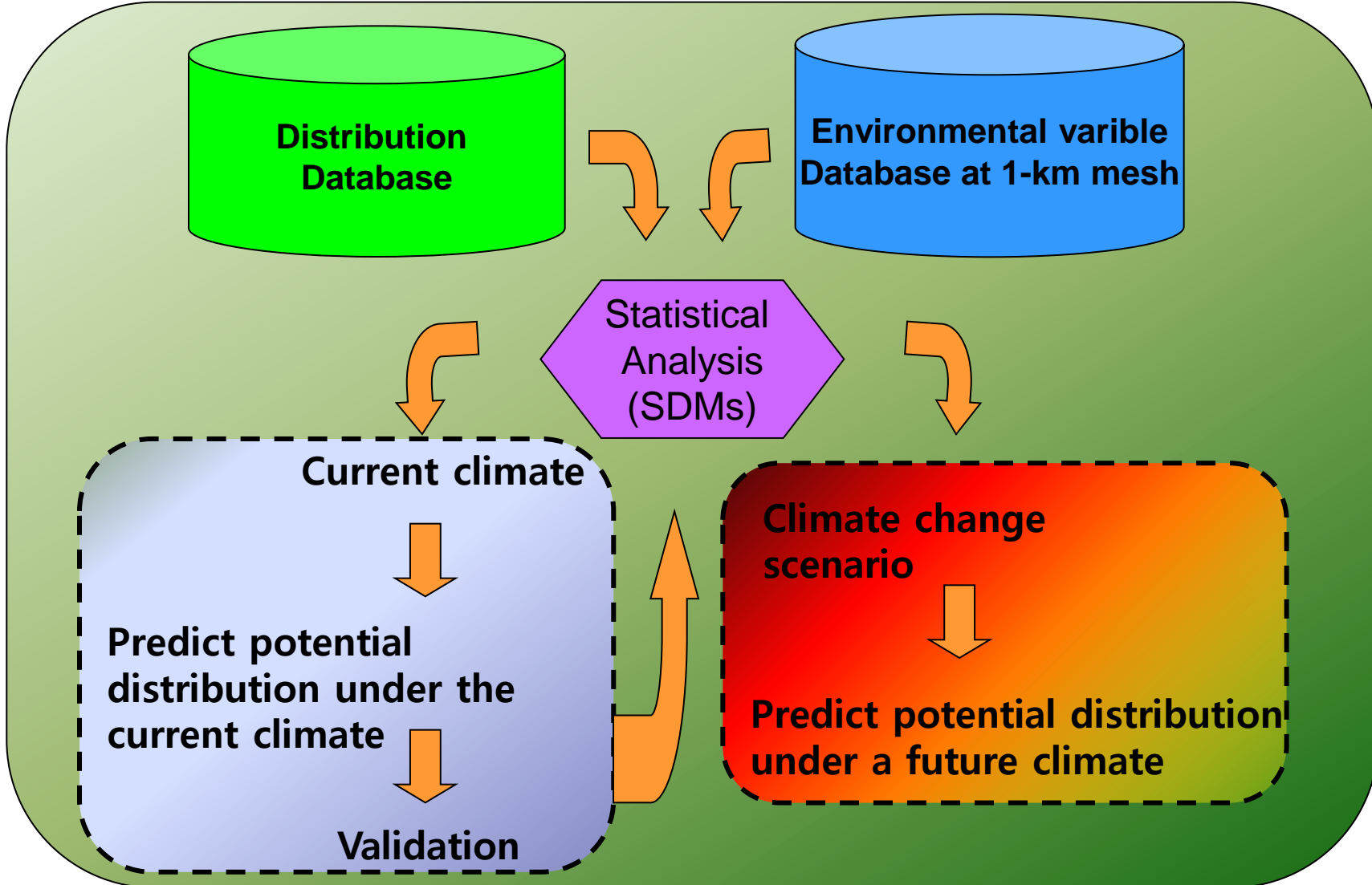
분류군 선택

종국명(학명)	데이터
<input type="checkbox"/> 1 주걱계말초 <i>Erigeron strigosus</i> Muhl. ex Wild.	3
<input type="checkbox"/> 2 주걱계말초 <i>Erigeron strigosus</i> Muhl. ex Wild.	6
<input type="checkbox"/> 3 주걱계말초 <i>Erigeron strigosus</i> Muhl. ex Wild.	5
<input type="checkbox"/> 4 주걱계말초 <i>Erigeron strigosus</i> Muhl. ex Wild.	5
<input type="checkbox"/> 5 주걱계말초 <i>Erigeron strigosus</i> Muhl. ex Wild.	1
<input type="checkbox"/> 6 주걱계말초 <i>Erigeron strigosus</i> Muhl. ex Wild.	1
<input type="checkbox"/> 7 주걱계말초 <i>Erigeron strigosus</i> Muhl. ex Wild.	1
<input type="checkbox"/> 8 주걱계말초 <i>Erigeron strigosus</i> Muhl. ex Wild.	1
<input type="checkbox"/> 9 주걱계말초 <i>Erigeron strigosus</i> Muhl. ex Wild.	1
<input type="checkbox"/> 10 주걱계말초 <i>Erigeron strigosus</i> Muhl. ex Wild.	1

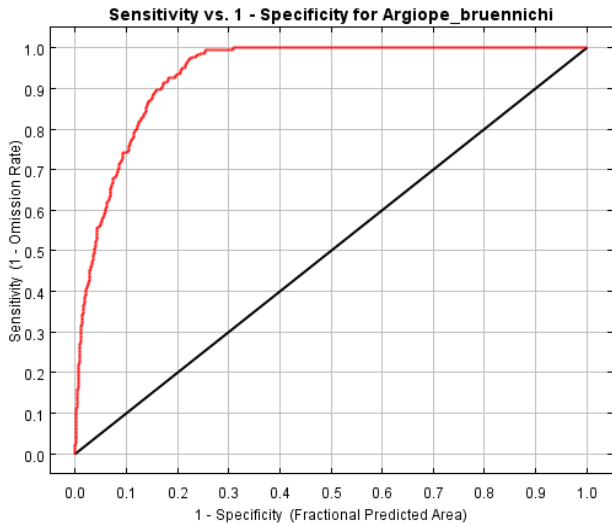
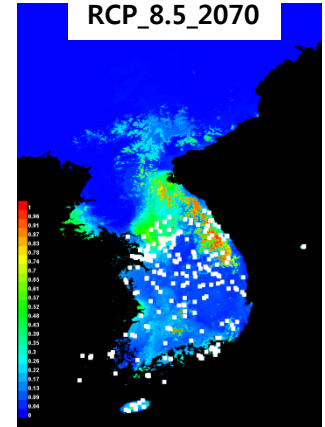
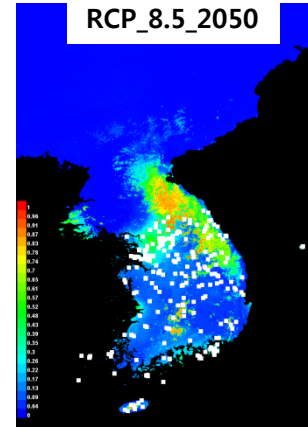
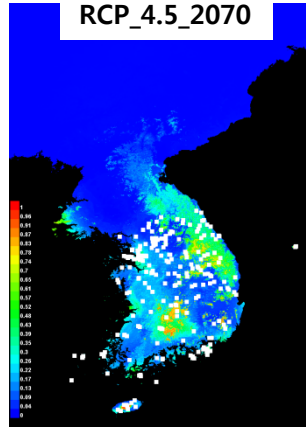
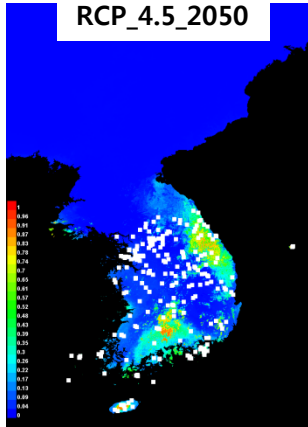
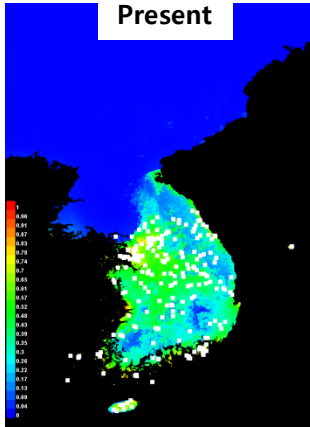
대보기 >



WG2 : Species Distribution Modeling



② Research

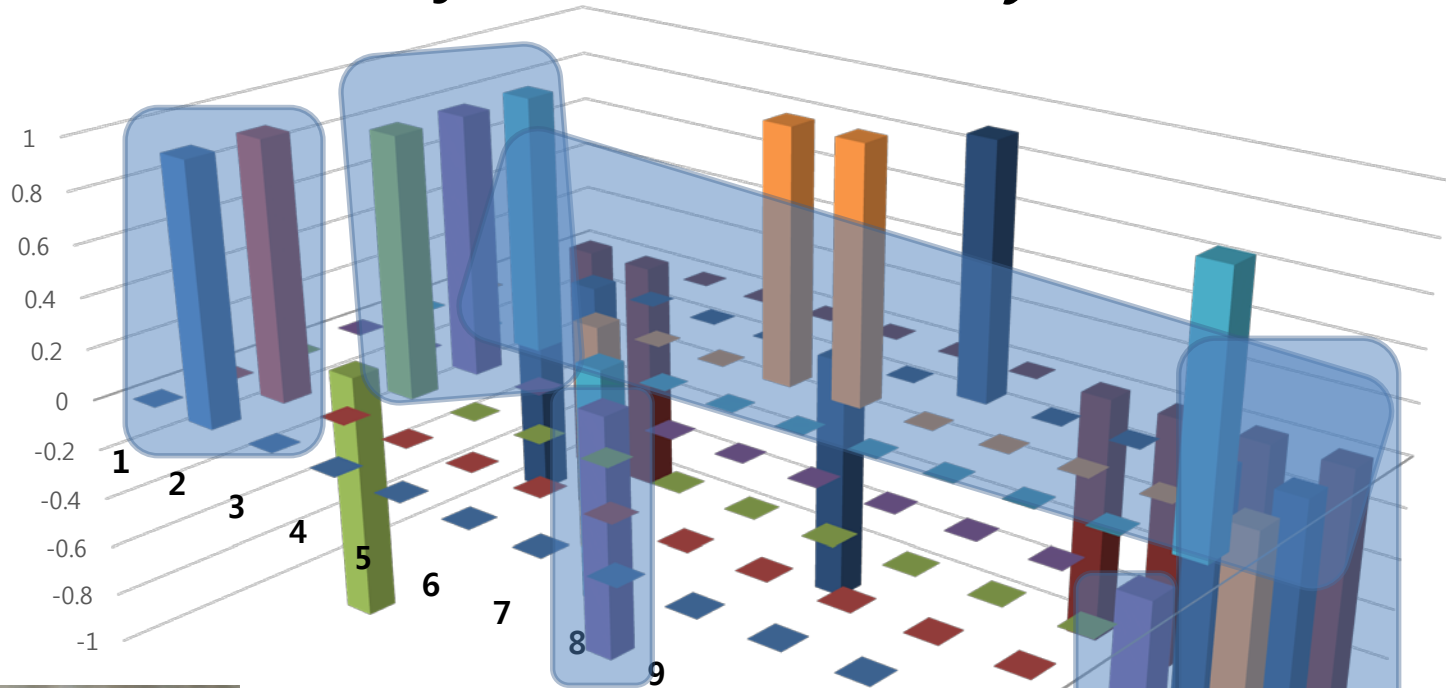


Banana spider
Argiope bruennichi Scopoli 1772

	Pre	RCP_4.5_2050	RCP_4.5_2070
Area (km ²)	124,071	40,892	63,726
		RCP_8.5_2050	RCP_8.5_2070
		63,838	61,075

② Research

Correlation Summary Matrix of *Rana dybowskii* (1)



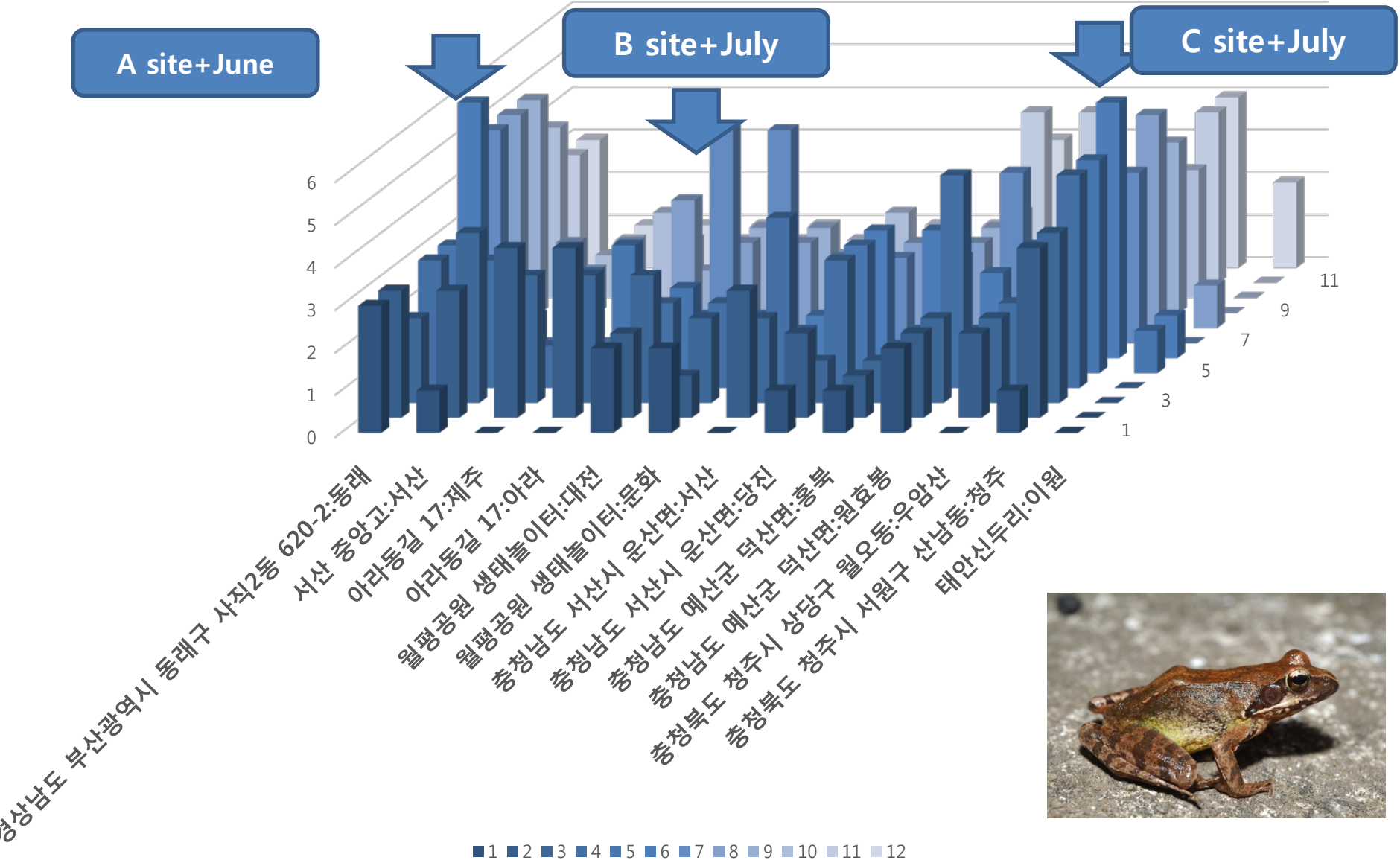
은 2월달에만 Positive correlation을 보임
 (우일, 비강우일)이 Positive correlation을 보임
 Positive correlation 을 보임
 이런 correlation은 월별 데이터와 연관성이 적어 보임
 월별 강우일과 negative correlation 이 확인됨

- 월별 평균 강우일
- 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



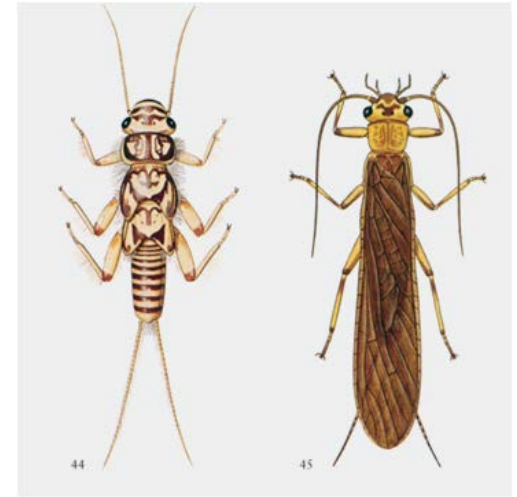


- Invasive species of Onagraceae spp.
- *Ludwigia peploides subsp. stipulacea* (Ohwi) P. H. Raven ?
- *Ludwigia peploides* (Kunth) P. H. Raven ?



Need more taxonomical and distribution data

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



③ Outreach

Capacity Building with civil scientists

- Organize to BioBlitz
- Monitoring with field education



③ Outreach

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

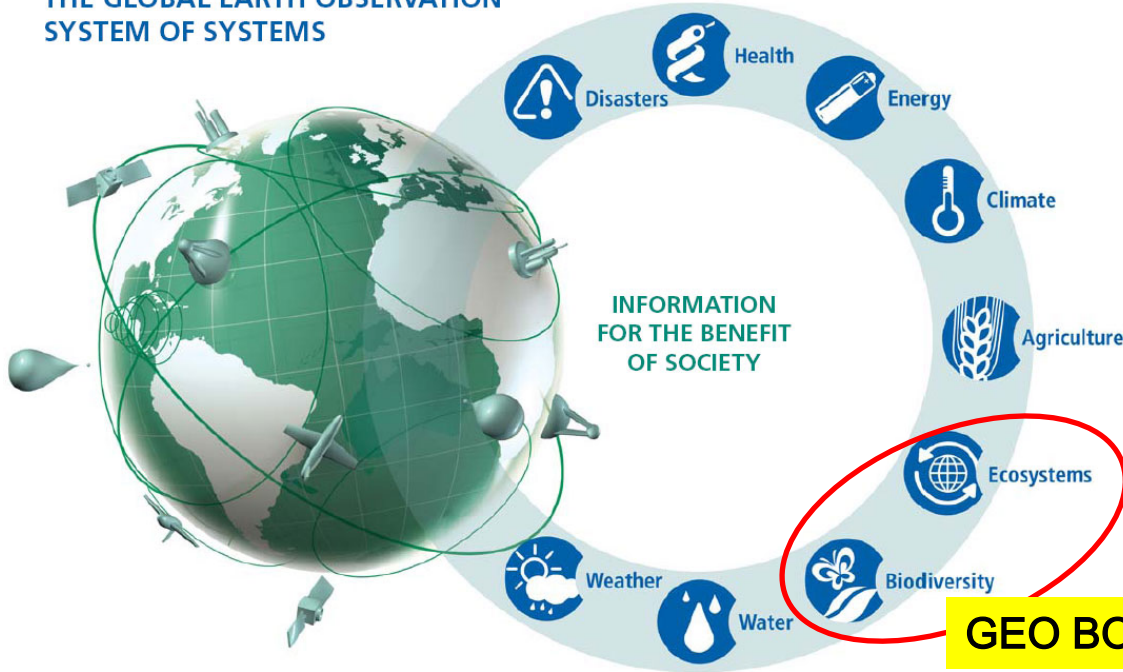


<p>고성 북천의 어류상 조사 강원도 고성군 강서동</p>	<p>진위천의 어류상 조사 경기도 평택시 진위면</p>	<p>두 종의 남거미가 공존하는 한마늘에서 남거미의 서식지 전북</p>	<p>나물 전북</p>	<p>연천의 생물다양성 경기도 연천군 연천읍</p>
<p>Pelophylax속 국내 분포 전국</p>	<p>명천의 진가시고기 충청북도 영천시 용부동</p>	<p>떡갈꿀개미를 찾으러- 전북</p>	<p>성남시 영강산에서 사는 식물 들 조사하기- 경기도 성남시 수정구 죽전동</p>	<p>중앙공원의 생태계 교란종 경기도 성남시 용당구 수내2동</p>
<p>아탑천과 여수천 수서생물 조 사, 경기도 영남시 봉담구 아탑1동</p>	<p>불암산 생물상 모니터링 전국</p>	<p>강원도의 북한강 지류 (강촌, 홍천강) 어류 모니터링 강원도 홍천군 용천동</p>	<p>민천에 사는 새들의 생활형 경기도 성남시 수정구 수인동</p>	<p>진천읍 백곡천의 생물상 변화 충청북도 진천군 진천읍</p>



④ Networking

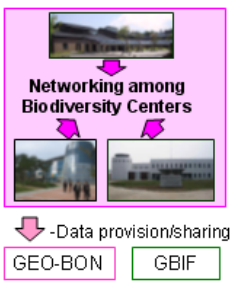
THE GLOBAL EARTH OBSERVATION SYSTEM OF SYSTEMS



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

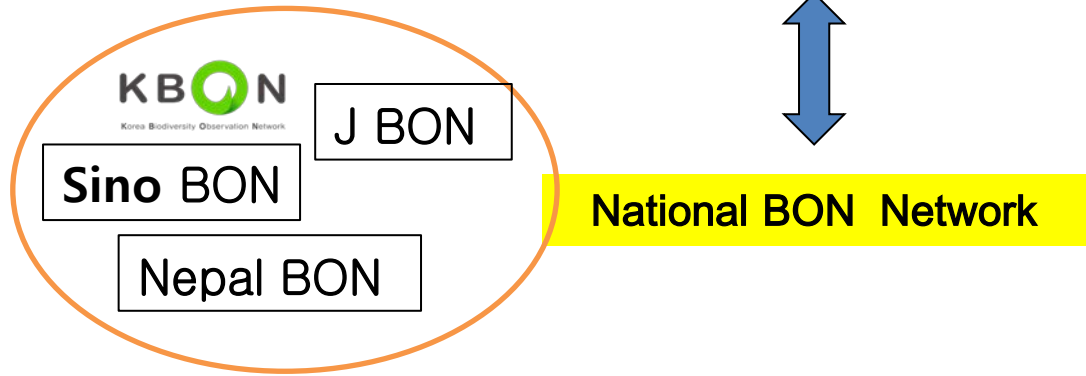


Collaboration

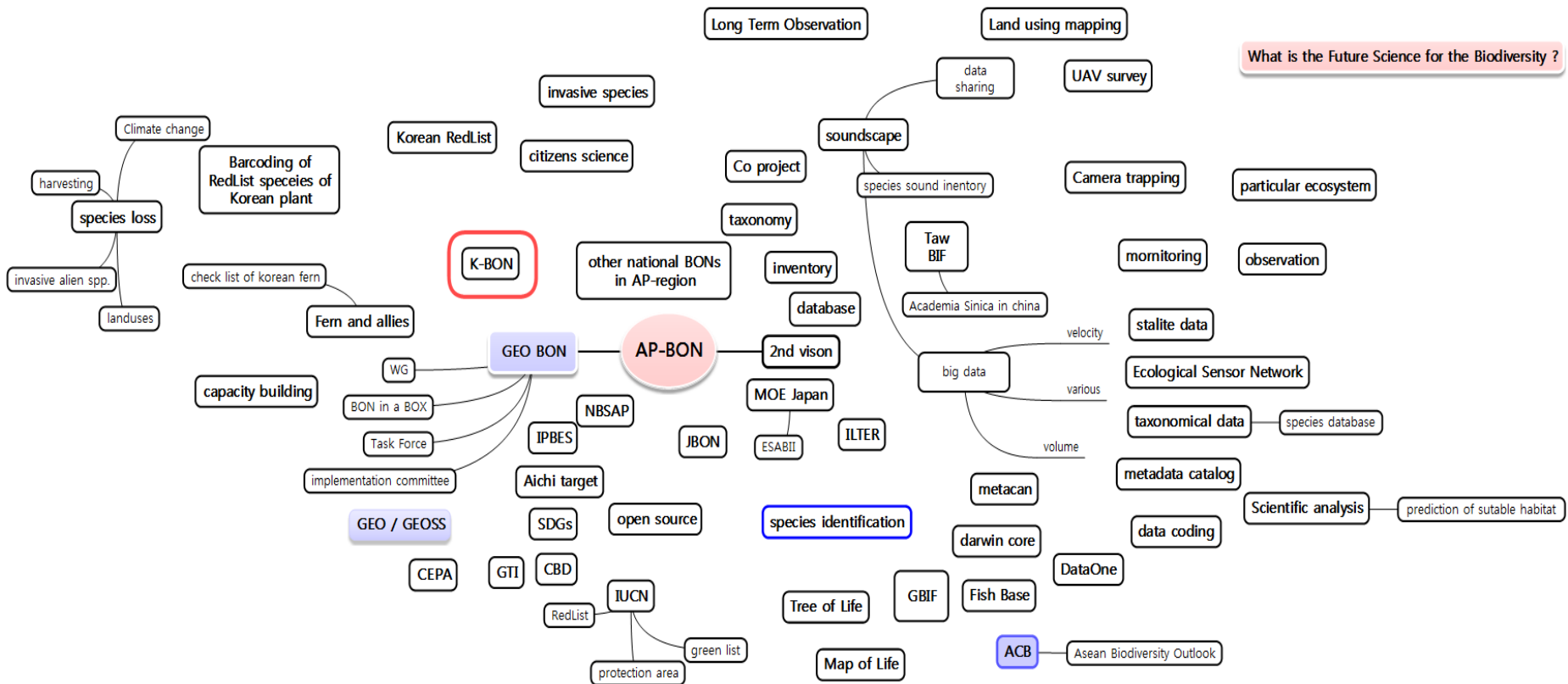
- ILTER, NaGISA (CoML), Other programmes
- Data collection and its standardization
 - Data integration and analysis
 - Capacity building

Contribution

Decision Making in Biodiversity Conservation



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





Korea **B**iodiversity **O**bservation **N**etwork

Thank You