The 10<sup>th</sup> GEOSS-AP Symposium
WG2: ASIA-PACIFIC BIODIVERSITY OBSERVATIOIN NETWORK
19 September 2017
Vietnam Academy of Science and Technology
Hanoi, Vietnam

# Updates of Global, Regional and National BONs

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Kookmin University and National Institute of Biological Resources
Korea

With additional slides for GEO BON
contributed from
Laetitia M. Navarro, GEO BON Executive Secretary

# GEO BON - Implementation Committee and Advisory Board Meetings-1



# GEO BON - Implementation Committee and Advisory Board Meetings-2

- Working groups, BONs, and task force: activities, deliverables, and related timelines have been integrated in the GEO BON Implementation Plan for 2017-2020.
- The priority GEO BON deliverables in the short (2018) and medium (2020) term: those deliverables are organized around the three core objectives of GEO BON; 1) developing the Essential Biodiversity Variables (EBVs); 2) developing national, regional, and thematic BONs; and 3) supporting biodiversity assessments and policy.
- Endorsement: the thematic Freshwater BON
- Approval of the creation of a task force: Remote Sensing task force in support of EBVs.
- Chair election: Mike Gill and Henrique Pereira were elected as co-chairs of GEO BON for a 3-years term
- Approval of the Implementation Plan: approved by the participants



Asia-Pacific Biodiversity

Observation Network (APBON)

Sheila Vergara Tetsukazu Yahara Eun-Shik Kim

Achievements and lessons learnt from APBON Activities:

Toward developing a broader network of biodiversity and ecosystem observations



01: Overview of Regional and National BONs

APBON Plan 02:

GEO Strategic Plan 2016 – 2025 and GEO Work Programme 2017-2019

03:
Development of broader observation network

04:
Towards broader
engagement of
observation and user
communities

### **INTECOL 2017 Beijing Congress:**

**Ecology and Civilization** in a Changing World

20-25 August 2017

Symposium No.T4-02:

<u>Biodiversity Monitoring</u>
<u>for Global Conservation</u>

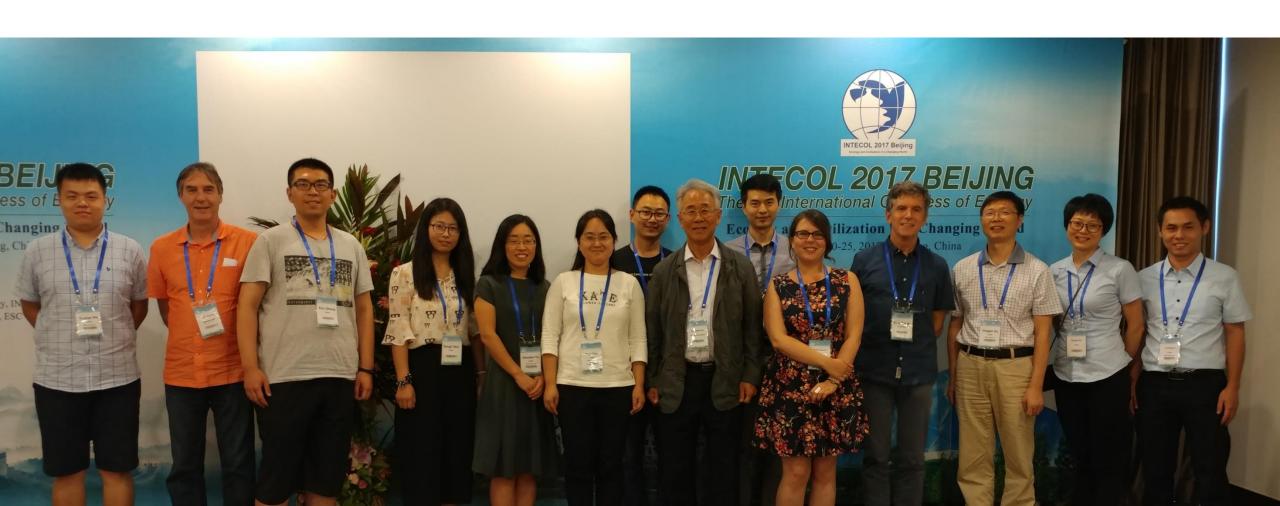
<u>Targets</u>



### INTECOL 2017 Beijing Congress: 24 August 2017

Symposium No.T4-02:

**Biodiversity Monitoring for Global Conservation Targets** 



- Welcome speech by the Department of Nature and Ecology Conservation, Ministry of **Environmental Protection of China**
- **Eun-Shik Kim: Welcome speech and introduction to AP BON**
- Laetitia Navarro: Developing Biodiversity Monitoring and Buil Presentation-1 **Network of Biodiversity Observation Systems**
- Eren Turak: Freshwater Biodiversity Observation Network
- Haigen Xu: China Biodiversity Observation Network: Progress and Achievements
- Carlos Zambrana-Torrelio: The Global Virome Project: A Network of Viral-diversity Monitoring
- Takashina Nao: Developing Biological Survey Design for Systematically Obtaining Habitat Map
- Jiaqi Li: China Mammal Observation Network (China BON Mammal)
- Sheng Li: The Species Richness, Community Structure, and 10-year Changes of Large Mammals in Southwestern China: Are We Looking towards a Brighter future?
- Cheng Li: The Relationship between Community Structure of Ground-dwelling Vertebrates and Habitat Types in the Wanglang Natural Reserve
- Xiaojia Zhu: China Bird Observation Network (China BON Bird)

- Fei Duan: Promoting the Biodiversity Monitoring of Birds in China through the Cameratrapping Network: Status, Challenge and Outlook
- Yanqing Wu: China Amphibian Observation Network (China Branching Presentation-2 de Presen
- Tian Zhao: Amphibian Species Contribute Similarly to Taxono Presentation—Z of Phylogenetic Diversity
- Fangzhou Ma: China Butterfly Observation Network (China BON Butterfly)
- Yves Basset: The Saturniidae of Barro Colorado Island, Panama: a model taxon for studying the long-term effects of climate change?
- Yun Cao: Design of Essential Biodiversity Variables based on Genetic Information: Progresses and Perspectives
- Mingchang Cao: Progress towards China's NBSAP
- · Laetitia Navarro: Publishing open biodiversity data in ecology: standards and benefits
- Carlos António Guerra: Finding the Essential: Improving Conservation Monitoring across Scales
- Jianping Jiang: Amphibian Monitoring in Mountains around Sichuan Basin in Southwestern China
- Zhaohui Li: The First Step for Butterfly Monitoring in China: Overview of Jiangsu Butterfly Monitoring Scheme (2010-2016) Progress





## **Activities of K-BON** with Civil Scientists

2017. 9. 18

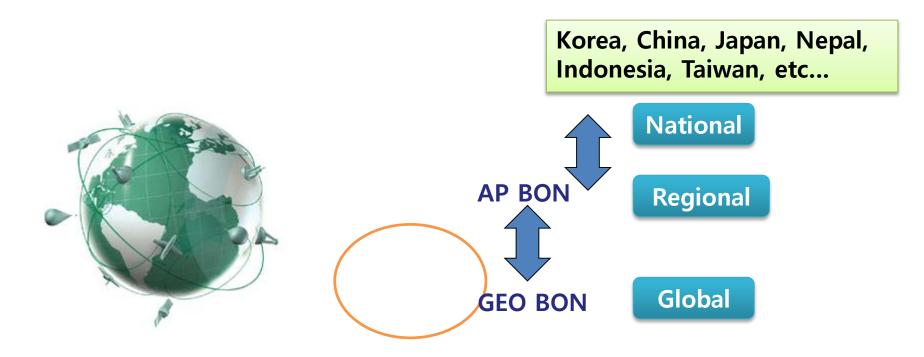
Chan-Ho PARK, NIBR KOREA

#### K-BON is...





- National BON and member of AP-BON
- Collecting of biodiversity data with integrates citizen science
- Mobile platform management to improve the convenience of citizen participation
- Collaborate to GTI (Global Taxonomy Initiative) and ESABII









#### Working group of K-BON

**Species** 

**Distribution** 

Modeling

(WG2)



#### Monitoring group with Civil Scientists (WG1)



**Biodiversity** information

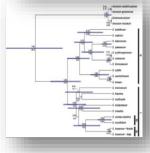
Data base

(WG4)



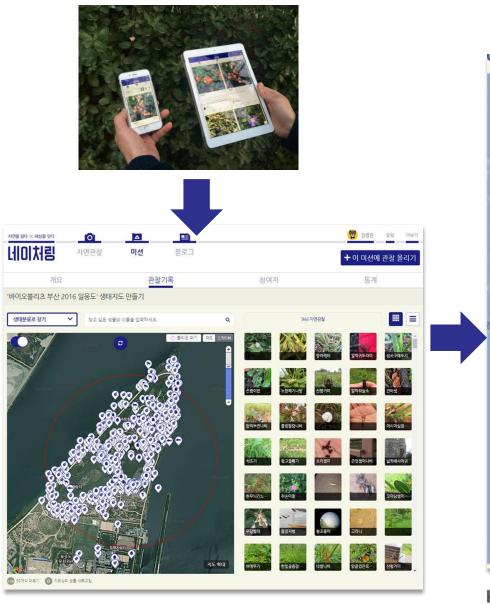
RedList, **Endangered** species Conservation (WG3)





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

# WG1. Mobile platform management to improve the convenience of citizen participation



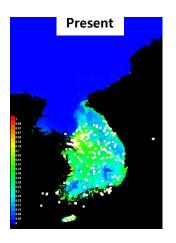


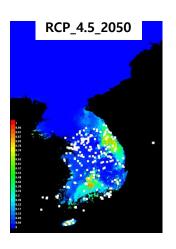


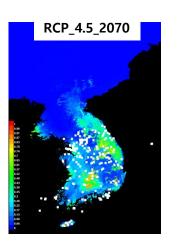


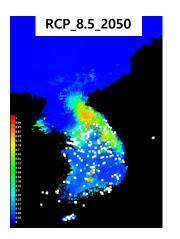


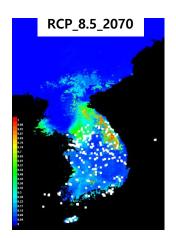
#### WG 2&3: Research from K-BON monitoring data













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



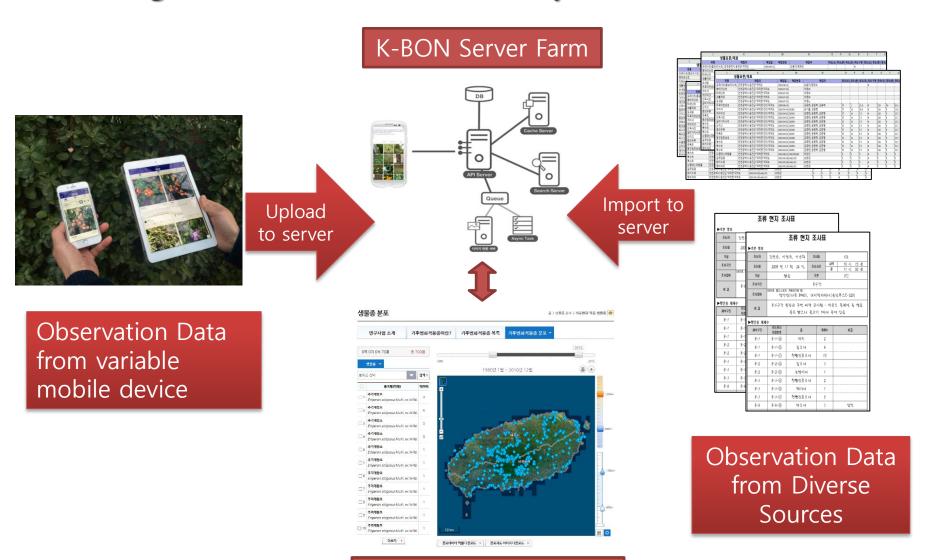
Banana spider *Argiope bruennichi* Scopoli 1772







#### **WG 4 : Organize to K-BON information System Structure**



K-BON Web Interface







#### **Start of K-BON Junior**

: The training of future scientists





#### **Capacity Building with civil** scientists

: Organize to BioBlitz







# Developing Biodiversity Monitoring and Building an Interoperable Network of Biodiversity Observation Systems



Laetitia M. Navarro

**GEO BON Executive Secretary** 



INTECOL, Beijing 24.08.2017

www.geobon.org

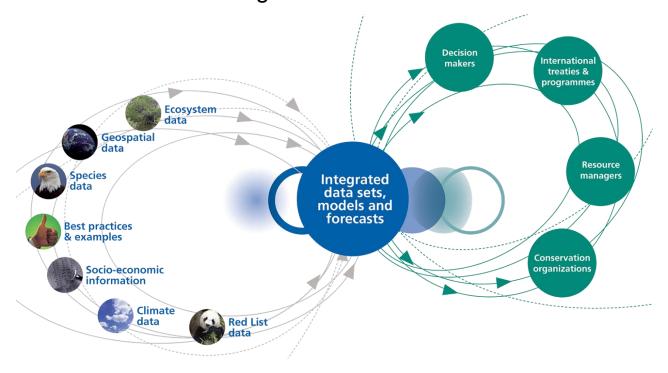


#### **GEO BON in a nutshell**

#### Mission

Improve the **acquisition**, **coordination** and **delivery** of biodiversity observations and related services to users including decision makers and the scientific

community.



#### Vision

A global biodiversity observation network that contributes to effective management policies for the world's biodiversity and ecosystem services.



#### Flagship of GEO – The Group on Earth Observations

A Global, Coordinated, Comprehensive and Sustained System of Observing Systems "Countries have borders, Earth Observations don't"





#### **A Global Partnership**















International Long Term Ecological































#### **GEO BON governance and core focus**



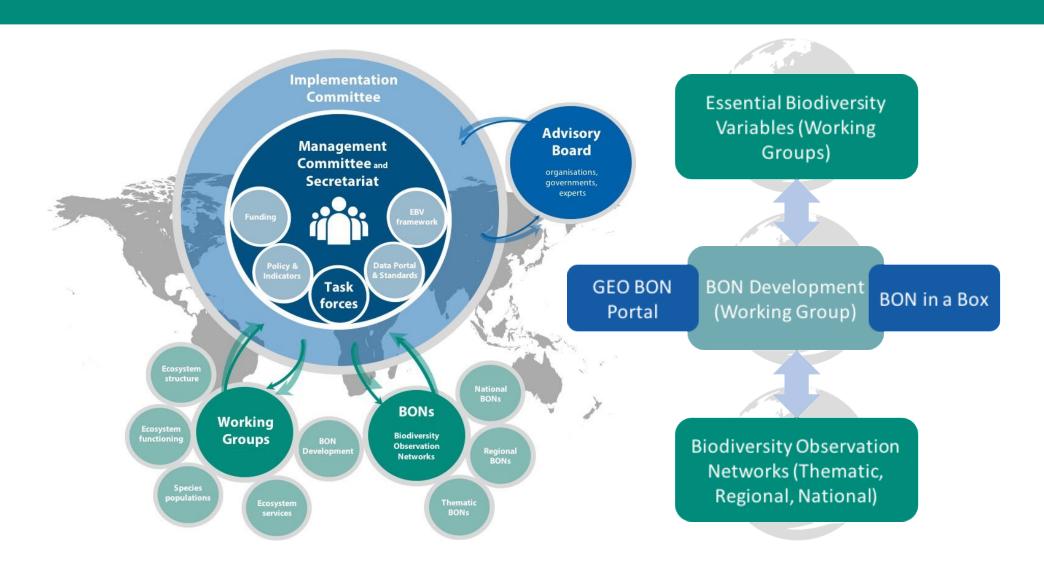
Developing a standard and flexible framework for biodiversity observations

Supporting the development of Biodiversity Observation Networks

Producing policy relevant outputs



#### A Top Down and Bottom Up approach



# Thank you for your kind attention!



Korea Biodiversity Observation Network

# Thank You