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  - 1. Biodiversity research and monitoring
  - 2. Networking of networks
  - 3. Outreach activities and Actions for biodiversity





### Vision & Mission from Yahara et al. 2014

# S. Nakaror - C. Tahura I. Nakarol and Assessments S. Springer

#### Vision

- 1. To establish a coordinated Asia-Pacific network that gathers and shares information on biodiversity and ecosystem services,
- 2. To provide tools for data collection, sharing/exchange, analysis, and synthesis/integration, and
- 3. To contribute to improving ecosystem management, sustainable use of biodiversity, and human well-being.

#### **APBON** missions

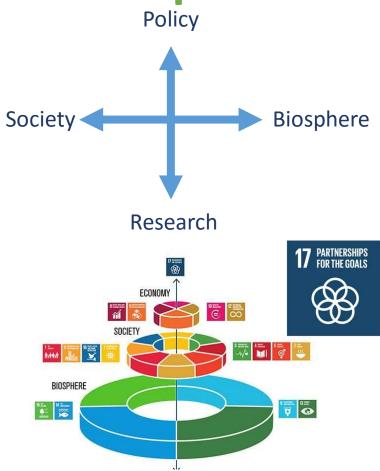
- 1. Observing and analyzing changes in biodiversity over time.
- 2. Improving delivery of biodiversity information and services to users, particularly decision makers
- 3. Facilitating linkages among many countries, organizations, and individuals contributing to biodiversity observations.
- 4. Identifying gaps between existing biodiversity observation systems and promoting mechanisms/projects to fill them





### Vision & Mission in New work plan

- The Earth observation increasing the societal demand
- APBON will strive to supply the scientific evidence to develop sound assessments and facilitate policy-making.
- Promoting interdisciplinary research and problem-solving approaches with filling the knowledge gaps (link to society; )
- Strengthening networking of biodiversity observation networks, collaboration with other TGs.
- Promoting the data accessibility, deliver our information and knowledge to global platforms such as CBD and IPBES

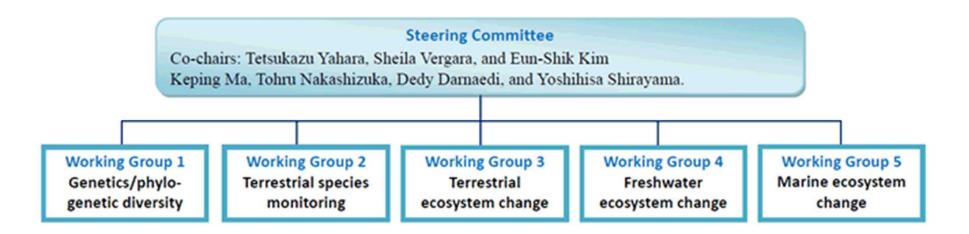






### Governance and working groups

APBON governance since 2009



http://www.esabii.biodic.go.jp/ap-bon/aboutus/index.html





# Governance and working groups (draft)

#### APBON platform

#### Management Committee:

- Co-chairs: Prof. Tetsukazu Yahara (Japan), Dr. Sheila G. Vergara (Philippine),
   Prof. Eun-Shik Kim (Korea)
- Members: Prof. Keping Ma (China), Prof. Dedy Darnaedi (Indonesia), Dr. Yoshihisa Shirayama (Japan), Prof. Shinichi Nakano (Japan), Prof. Yongyut Trisurat (Thailand), Dr. Shin Nagai (Japan), Prof. Yuichi Kano (Japan), Dr. Take Yamakita (Japan), Dr. Yayoi Takeuchi (Japan), APMBON chair

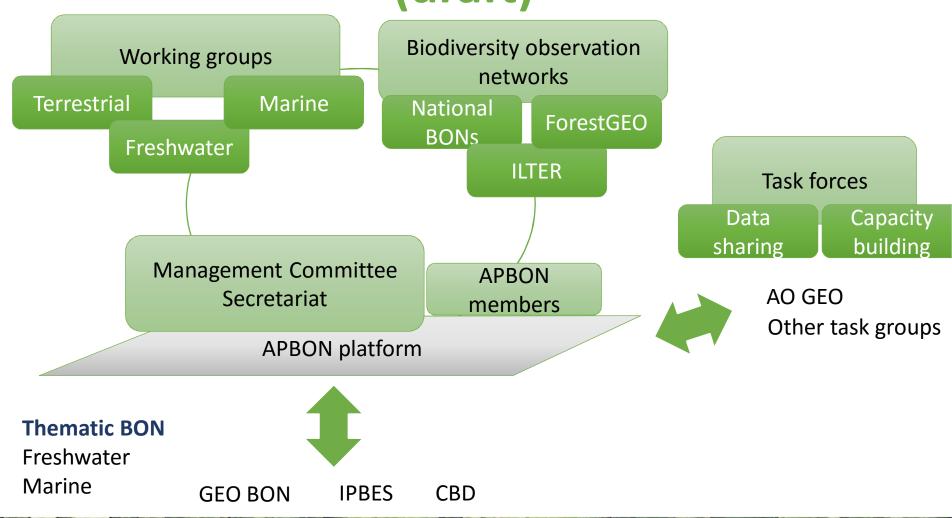
Advisory board: Prof. Tohru Nakashizuka (Japan), Prof. Hiroyuki Muraoka (Japan)

Secretariat: Biodiversity Center of Japan, the Ministry of the Environment





# Governance and working groups (draft)



# Strategic plans

#### **APBON** Core activities

- 1. Biodiversity research and monitoring
- 2. Networking of networks
- 3. Outreach activities, Capacity building and Actions for biodiversity



will be discussed among WGs





### 1. Biodiversity research and monitoring

#### 1) Monitoring status and changes of biodiversity

- Keep *in-situ* monitoring biodiversity with considering scalability and reporting status coupling with direct divers (land use change, climate change, pollution, invasive species) with related indirect drivers
- For raising funding: overviewing researches, brainstorming, promoting collaborations over AP region

#### 2) Filling gaps in data availability

- Identifying the data gaps, thematic and geographical gaps of observations and their gap areas and causes, of the gaps
- Attempt to fulfill the biodiversity research/ monitoring activities through inviting focal people in those counties to WS and/or capacity building activities.

#### 3) Increasing access to data

- Strengthening the partnership with the global biodiversity data base such as GBIF and ABCDNet
- Promoting publishing data papers in scientific journals
- Promoting visualization of observation information using policy-relevant indicators, visualization

#### 4) Improving knowledge on cutting-edge technologies

- · Promoting cutting-edge technologies to increase the knowledge as well as reduce the cost of both labor and money
- 5) How can we contribute to AO-GEO pilot studies 1) Mekong 2) Pacific islands 3) Himalaya
- 6) How can we raise funds for AP-BON activities?





#### 2. Networking of networks

#### 1) Networking with observation sites and networks

• How we keep partnership with the networks (summarized in the past achievements), and expand the network.

## 2) Networking with global platform, policy-relevant communities

- Invite local stakeholders who are related to biodiversity-related policy to the APBON workshop
- Data sharing
- Strengthen link with CBD, IPBES, AOGEO and input AP region issue into global platforms





# 3. Outreach activities, Capacity building, Actions for biodiversity

#### 1. Outreach activities & social communication

- Promoting the awareness and understanding of biodiversity and ecosystems and planning actionable plan for sound decision making for the environmental issues related to biodiversity including sustainable use of resources (water, carbon, etc.).
- Developing the indicators the visualization tools
- Promoting promote transdisciplinary research projects by inviting stakeholders

#### 2. Capacity building

- Making an opportunity to learn skills and knowledge of biodiversity research in WS.
- Strengthening the partnership with ESABII etc.





# APBON core activities and links to identified with AOGEO priorities

APBON Core activities	Opportuniti es in APBON	Link to				
		Paris Agreement	Sendai Framework	SDGs		
<ol> <li>Biodiversity research and monitoring         <ul> <li>monitoring states and changes of biodiversity</li> <li>filling gaps in data availability</li> <li>contributions for societal demand</li> </ul> </li> </ol>	WGs	Adaptation, Loss & Damage, National Reporting/Global Stocktake, Mitigation	Understanding disaster risk	3,6,7,11,13 ,14,15 & more		
2. Networking of networks -strengthening networks with our partners (National BONs, ILTER, Forest GEO), GEO BON and other AOGEA TGsbroadening networks with local stakeholders	WGs, APBON WS, AOGEO TGs	Capacity Development/Te chnology Transfer,	Strengthening disaster risk governance to manage disaster risk	17		
3. Outreach, Capacity building, Data sharing -Publishing a new APBON book -Promoting capacity building; improving and sharing knowledge on cutting-edge technologies -Data sharing; increasing access to data	WGs, Task forces, Secretariat	Capacity Development/Te chnology Transfer, National Reporting		17		

#### Mapping APBON WG Activities with GEO Priorities

#### (from 11th AOGEOSS)

S Initiative TG Activities with GEO Priorities

Cross-Cutting Areas	TG1	TG2	TG3	TG4	TG5	TG6	TG7	TG10	TG11	TG12
	3	3	0	0	3	1	0	1	1	1
	3	3	0	0	3	1	0	1	1	2
	1	3	1	1	2	1	0	1	1	1
	1	2	2	2	0	1	0	0	0	1
	2	1	0	0	0	1	0	1	1	2
	3	3	2	1	2	1	1	2	2	3
(A)	2	3	2	0	1	1	1	1	1	1
	1	2	1	1	3	1	0	1	1	1
TAINABLE	2	1	1	0	2	1	0	1	1	1
LOPMENT ALC	1	2	0	0	2	1	0	1	1	1
WAL5	3	3	2	1	0	1	1	1	1	3
	1	3	0	1	0	1	0	1	1	1
	3	3	3	3	3	1	2	1	1	3
	2	3	2	3	0	1	0	1	1	1
	3	3	2	1	3	1	3	1	1	2
	1	1	0	0	0	1	0	0	0	1
	3	3	2	2	3	1	2	1	1	3
	3	3	2	1	3	1	0	1	1	2
PARIS2015	3	3	1	1	0	1	0	1	1	2
COP21-CMP11	3	3	2	2	0	2	2	2	2	3
	0	2	3	2	0	1	1	2	2	1
	2	3	3	1	0	1	0	1	1	1
× × × /	3	3	3	1	0	2	0	2	2	2
~~~	3	3	0	1	0	2	0	1	1	2
td Conference on er Risk Reduction	3	3	0	1	0	1	0	2	2	2
15 Sendoi Japan	3	3	0	0	0	1	0	2	2	2
ata Sharing Infrastructure	3	3	3	3	3	2	2	3	3	3
ser Engagement and ommunication	3	3	2	3	3	2	2	3	3	3
otal: ery active	64	74	39	32	36	33	17	36	36	51

GEO Priorities	Terristrial WG	Fresh Water WG	Marine WG	Tota
1.NO POVERTY	1 (eco-tourism, local indegineous people, job opporotunity, community forestry)	3	2	3
2.ZERO HUNGER	1 (polinating serice, local indegineous people, job	3	1	3
	opporotunity, community forestry) 2 (alergy, avian flu, nipah virus, phenology, traditional	3	1	3
4.QUALITY EDUCATION	medicine. clean air. clean water. cooling temperature) 2 (citizen science, zoo and botanical garden, biosphere	1	1	2
5.GENDER EQUALITY	reserve. long-term data and knowledge for good education  1 (opportunity to produce goods from natural resources)	0	1	1
6.CLEAN WATER AND SANITATION	2 (water purification, water regulation)	3	1	3
7.AFFORDABLE AND CLEAN ENERGY	1 (clean energy, hydropower, bio fuels assessment	3	1	3
8.DECENT WORK AND ECONOMIC GROWTH	environmental imnacts: 1 (sustainable growth - green growth - decoupling economic growth and environmental degradation, environmental	2	1	2
	1 (bio-cosmetic, drug development, bio prospecting, green infrastructure, e-DNA, agro-forestry)	0	0	1
10.REDUCED INEQUALITIES	2 (Nagoya protocol (ABS))	2	0	2
11.SUSTAINABLE CITIES AND COMMUNITIES	2 (parks - education, gathering people, protection of hiodiversity MAR project)	3	2	3
12 RESPONSIBLE CONSUMPTION AND	2 (biodiversity trade and footprint, fair-trade certificate)	3	1	3
13.CLIMATE ACTION	3 (restoration, carbon sequestration, cooling temperature)	1	3	3
14.LIFE BELOW WATER	3 (long-term monitoring of species loss, environmental change, species trends, ecosystem fragmentation	3	3	3
15.LIFE ON LAND	change, species trends, ecosystem fragmentation 3 (long-term monitoring of species loss, environmental change, species trends, ecosystem fragmentation	2	2	3
16.PEACE, JUSTICE AND STRONG INSTITUTIONS	(trans-boudary governance of natural resources)	1	1	1
17.PARTNERSHIP FOR THE GOALS	3 (networking science, society and policy)	2	3	3
	3 (Ecosystem-based adaption, protected area, eco-DRR)	2	2	3
MI OSS XI I I I I I I I I I I I I I I I I I	3 (in-situ long-term monitoring of biodiversity and services, nrediction of the changes) 3 (networking research collaboations and deliver the	3	2	3
Capacity Development/Technology Transfer	3 (networking research collaborations and deliver the knowledge & information)	3	2	3
National Reporting/Global Stocktake	2 (Carbon accounting biomass, soil carbon, blue carbon)	1	2	2
	3 (REDD+, restoration, ex-situ conservation)	2	2	3
Understanding disaster risk	3( phenology monitoring for early warning of wild fire and drought)	3	2	3
Strengthening disaster risk governance to manage disaster risk	2(MAB)	3	2	3
Investing in disaster risk reduction for resilience	1(eco-DRR)	3	2	3
Enhancing disaster preparedness for effective response, and to "Build Back Better" in recovery, rehabilitation and reconstruction	1(green infrastructure)	3	2	3
Data Sharing Infrastructure	3( GBIF, ABCDnet, Data papers and Data repository, ILTER- DEIMS, Data-ONE, Asian CHM, Phenological Eyes Network)	3	3	3
	3 (GEO BON, Regional BONs, National BONs, ILTER)	3	3	3
Total:	0	64	48	74

APBON Core activities	11 th GEOSSAP (Kyoto, Japan) Oct, 2018	11 th APBON (KL, Malaysia) June, 2019	12 th AOGEO (Canberra, Australia) Nov, 2019	12 th APBON 2020
1. Biodiversity research and monitoring	-Share the status of plots, difficulties of maintenance field sites -discussion on super sites -Mapping APBON WG Activities with GEO Priorities	WGs will discuss and report on these items. (Tomorrow's WG) -Mapping APBON WG Activities with GEO Priorities (update with keywords)		
2. Networking of networks	GEO BON TERN MBON GEOSS AP TG 4: Agenda of the Ocean, Coast, TG7: Environmental Monitoring and Protection	Malaysian researchers (FRIM, MSMS), China-BON,	AOGEO TG3 Carbon?	
3. Outreach, Capacity building, Data sharing	GEO week Side events, exhibition	(Capacity building) Introduction to MIG- Seq, RAD-Seq (Data sharing) WGs will discuss and report on these items.		APBON Book



#### **APBON Core activities**

- 1. Biodiversity research and monitoring
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will be discussed among WGs

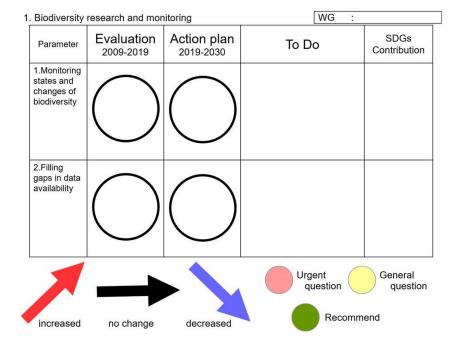




Update the sheet with keywords



### Reports from WGs



Mapping AOGEOSS Initiative TG Activities with GEO Priorities										
WG: Terr	strial		2019 June		2018 Oct					
GEO Prioriti	es	Cross-Cutting Areas	Score	Keywords	TG2 (Terristrial)		rTG2 (Fresh Water)	TG2 (Marine)	max	
1.NO POVERTY					1 (eco-tourism, local indegineous people, job opporotunity, community forestry)	1	3	2	3	
2.ZERO HUNGER					1 (polinating serice, local indegineous people, job opporotunity, community	1	3	1	3	
3. GOOD HEALTH AND WELL	-BEING				2 (alergy, avian flu, nipah virus, nhenology, traditional medicine, clean 2 (citizen science, zoo and botanical	2	3	1	3	
4.QUALITY EDUCATION					garden. biosphere reserve. long-term	2	1	1	2	
5.GENDER EQUALITY  6.CLEAN WATER AND SANIT	ATION				natural resources) 2 (water purification, water regulation)	2	0	1	1	
7.AFFORDABLE AND CLEAN					1 (clean energy, hydropower, bio fuels	1	3	1	3	
8.DECENT WORK AND ECON	OMIC GROWTH				1 (sustainable growth - green growth - decoupling economic growth and	1	2	1	2	
9.INDUSTRY, INNOVATION A	AND				prospecting, green infrastructure, e-	1	0	0	1	
10.REDUCED INEQUALITIES					2 (Nagoya protocol (ABS))	2	2	0	2	
11.SUSTAINABLE CITIES AND	COMMUNITIES				2 (parks - education, gathering people, protection of hiodiversity MAR project)	2	3	2	3	
12.RESPONSIBLE CONSUMP PRODUCTION	TION AND				2 (biodiversity trade and footprint, fair- trade certificate)	2	3	1	3	
13.CLIMATE ACTION					3 (restoration, carbon sequestration,	3	1	3	3	

