



WIGOS WORKSHOP 2019

Session 4.11

Discussion summary

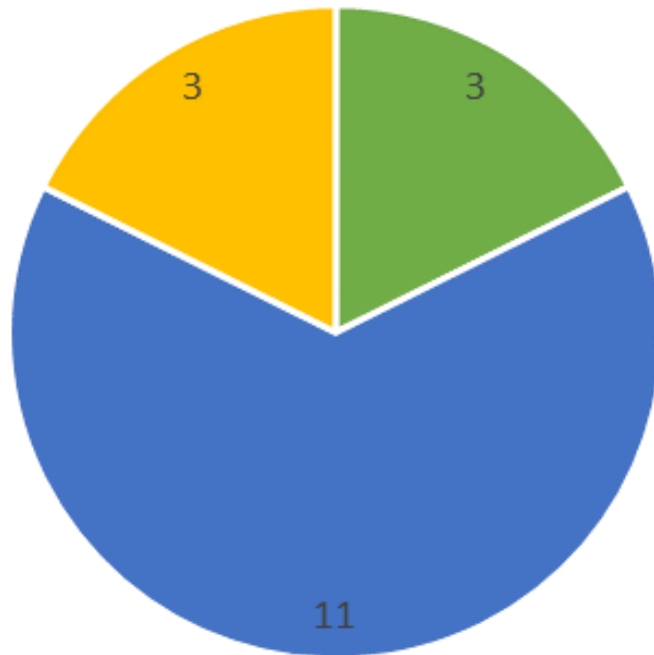
- Development framework
as RWCs optional functions -

All participants

with Seiichiro Kigawa (JMA)

Pre-workshop survey results

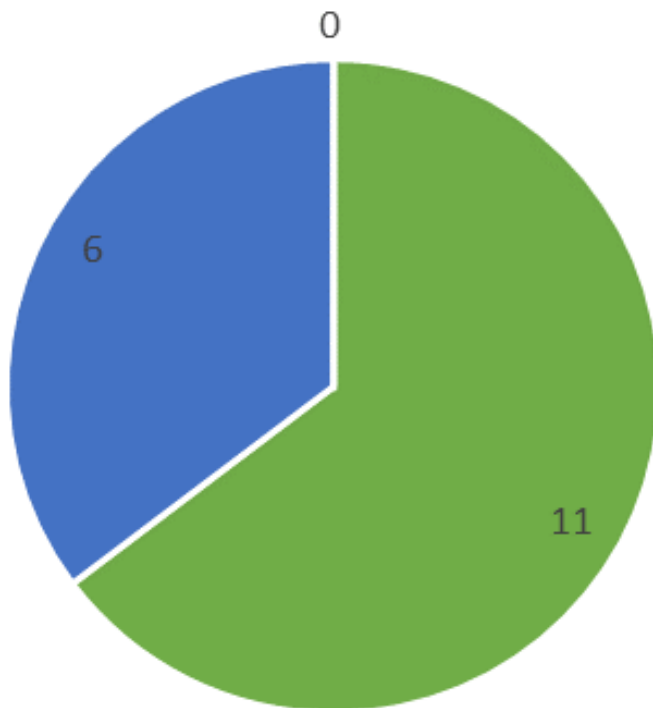
Q4.11-1 What is the role of science in our collaboration?



- 1. Common language
- 2. Source of improving services
- 3. Bridging with academic fields

Two thirds of NMHSs said science works as source of improving services.

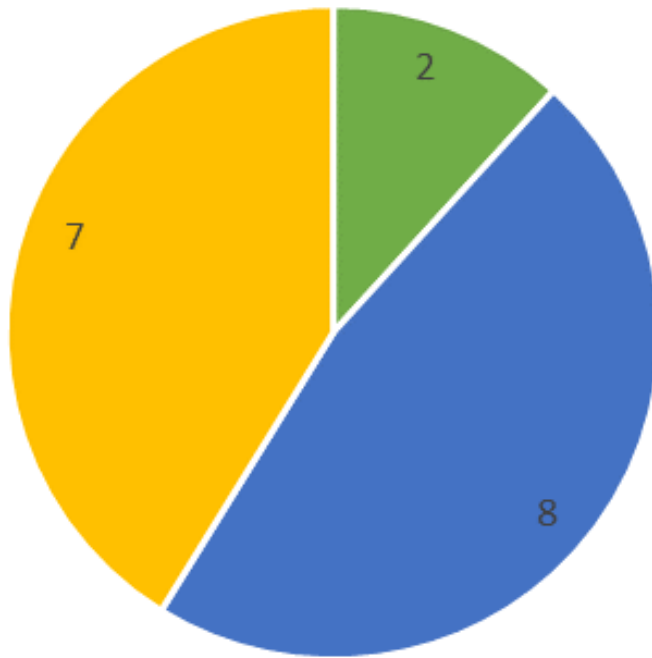
Q4.11-2 What is the role of technology in our collaboration?



- 1. Means of improving services
- 2. Generation and transmission of information
- 3. Bridging with private companies

Two thirds of NMHSs said technology works as means of improving services.

Q4.11-3 How should we use science and technology for improving professional skills and improving operations?



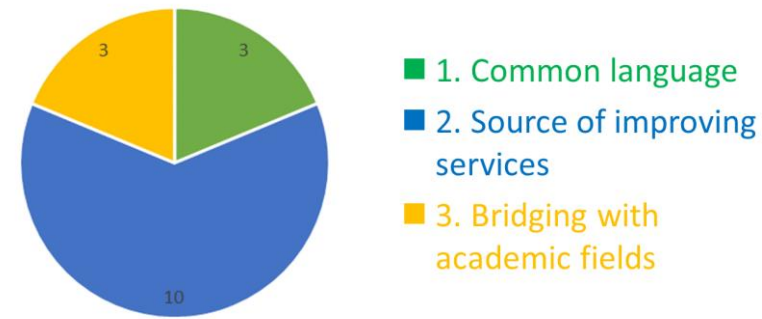
- 1. Introduction of expertise and general-purpose services through cooperation with academic fields and private companies
- 2. Improvement of observation and forecasting system by introducing state-of-the-art technology
- 3. Human resource development and service improvement by experts in science and technology

Half NMHSs said science and technology should be used for Improvement of observation and forecasting system by introducing state-of-the-art technology.

Discussion

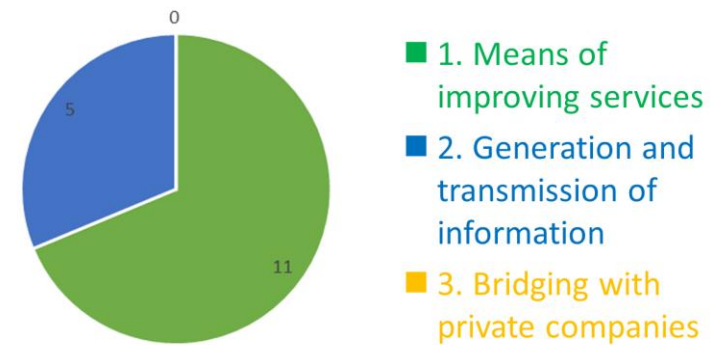
Pre-workshop interviews

Q4.11-1 What is the role of science in our collaboration?



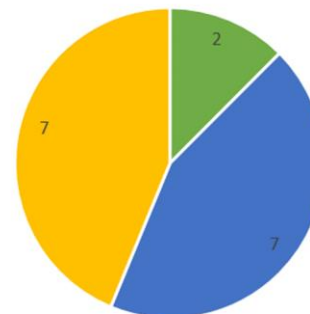
- The role of science in our collaboration is the role of science in our collaboration. *Dr. Duong van Khanh (VietNam)*
- The role of science would be as common platform for collaboration and also to improve services.
Mr. Phuntsho Namgyal (Bhutan)
- Service for users can be improved under science researches.
Dr. Amgalan Ganbat (Mongolia)

Q4.11-2 What is the role of technology in our collaboration?



- The role of technology in our collaboration is means of improving services. *Dr. Duong van Khanh (VietNam)*
- The technology would facilitate generation of reliable and timely transmission of information. it can also definitely help in improving services by improving quality of information combined with reliable transmission/dissemination. *Mr. Phuntsho Namgyal (Bhutan)*
- Renovation of technology can contribute to improving service and Generation and transmission of information as well for sharing information. *Dr. Amgalan Ganbat (Mongolia)*

Q4.11-3 How should we use science and technology for improving professional skills and improving operations?



- 1. Introduction of expertise and general-purpose services through cooperation with academic fields and private companies
- 2. Improvement of observation and forecasting system by introducing state-of-the-art technology
- 3. Human resource development and service improvement by experts in science and technology

- We use science and technology for improving professional skills and improving operations for Human resource development and service improvement by experts in science and technology. *Dr. Duong van Khanh (VietNam)*
- We could use science and technology to improve models and processes for forecasting and observation. Besides, we can use science and technology for capacity building. *Mr. Phuntsho Namgyal (Bhutan)*
- In our case we prefer choosing (3), i.e. capacity building on professional skills. *Dr. Amgalan Ganbat (Mongolia)*

From the floor

Discuss to have a vision with new data sources

12

Let's remember this chart. "It is time to discuss to have a vision with new data sources."



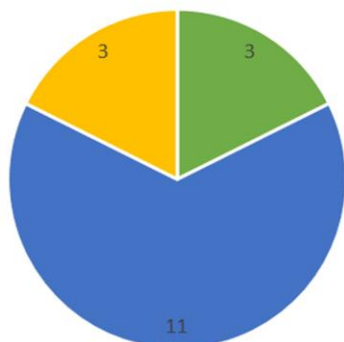
13

We need to gain an insight into the low-cost instruments and social media that are really growing fast. Such a new power(s) might innovate observation ...

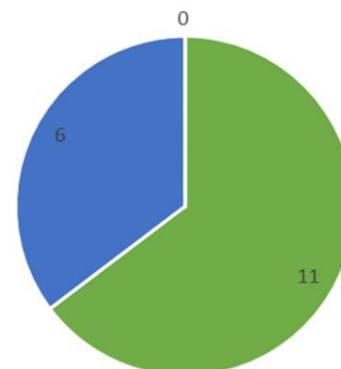


14

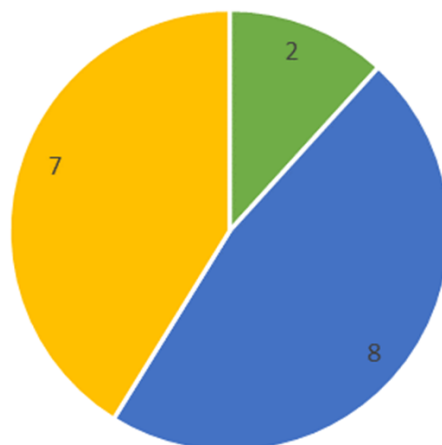
dramatically and rapidly. We are facing great waves of new data. We should recognize such great waves and prepare for them.



- 1. Common language
- 2. Source of improving services
- 3. Bridging with academic fields



- 1. Means of improving services
- 2. Generation and transmission of information
- 3. Bridging with private companies



- 1. Introduction of expertise and general-purpose services through cooperation with academic fields and private companies
- 2. Improvement of observation and forecasting system by introducing state-of-the-art technology
- 3. Human resource development and service improvement by experts in science and technology

15

This is the reason why the options contained the words “academic” and “private companies”.