



*WIGOS WORKSHOP 2019*

Session 2.7

# Survey results

Japan Meteorological Agency

# Questionnaire Survey on the workshop contents

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[2.1] CIMO TECO-2018 highlights - Towards fit-for-purpose environmental measurement –

[2.2] GSMap - Integrated application with developer and user collaboration -

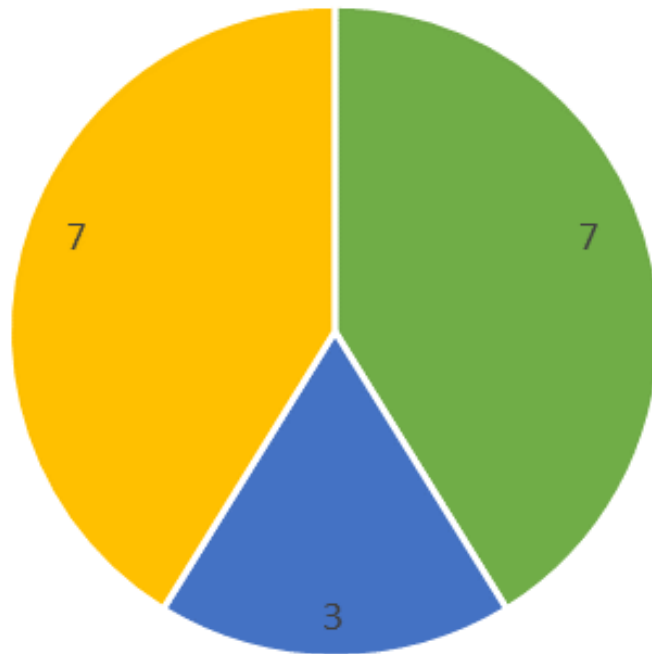
[2.3] Proposed framework for Integrated regional radar network

[2.4] Innovative remote sensing measurements as new data sources

[2.5] Traceability for low-cost instruments - How should we do for quality management?

[2.6-2.8] Measurement quality classifications for surface observing stations on land

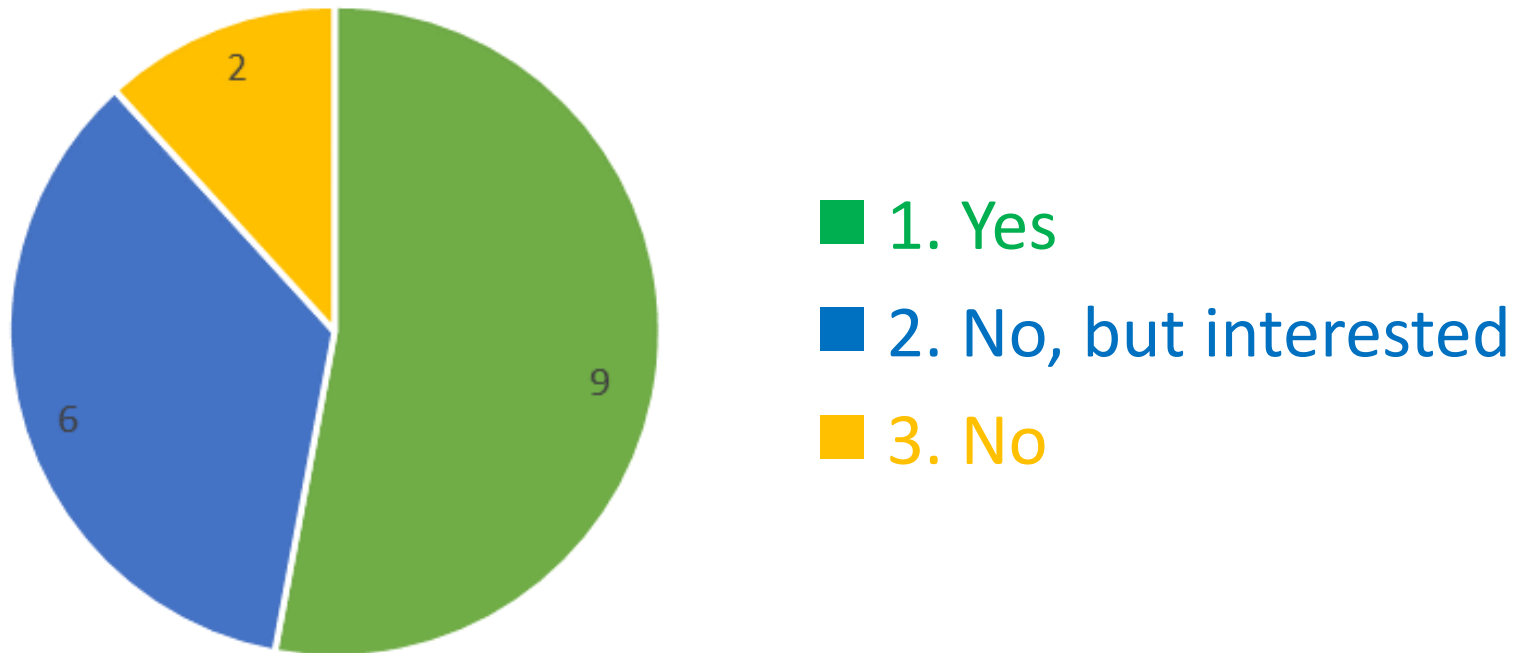
## Q2.1-1 Do you know the keywords “fit-for-purpose measurements” and/or “new data sources” raised at WMO/CIMO TECO-2018?



- 1. Yes, both of them
- 2. Yes, one of them
- 3. Don't know either

1. Yes, both of them : Less than half ( $<1/2$ )  
3. Don't know either : More than a third ( $>1/3$ )

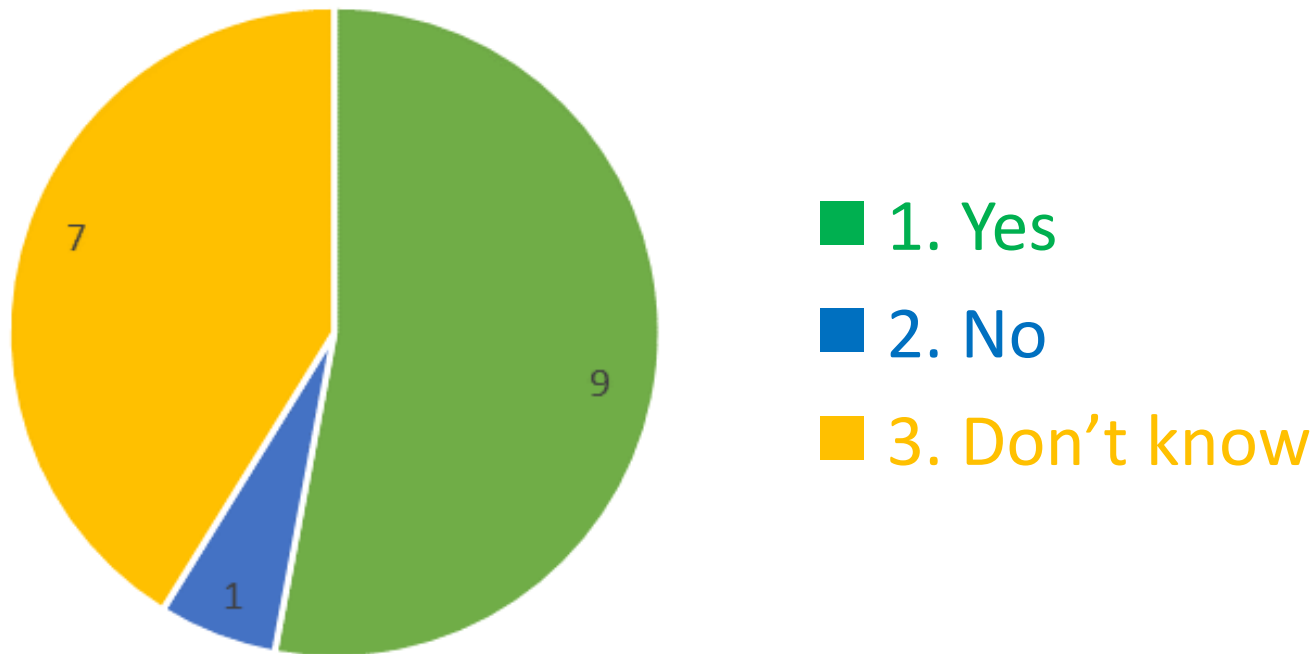
## Q2.1-2 Do you know that Meteorological Technology World Expo (MTWE) has been organized in parallel with TECO?



1. Yes : Half ( $1/2$ )

2. No, but interested : More than a third ( $>1/3$ )

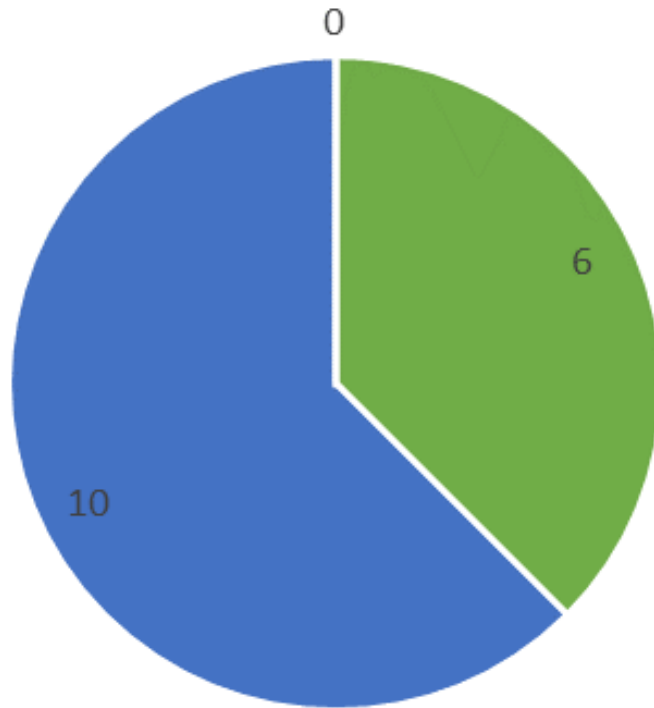
## Q2.1-3 Are you planning to participate in WMO/CIMO TECO-2020?



1. Yes : Half ( $1/2$ )

3. Don't know : Less than half ( $<1/2$ )

## Q2.2-1 Does your organization use GSMap ([https://sharaku.eorc.jaxa.jp/GSMap\\_NOW/index.htm](https://sharaku.eorc.jaxa.jp/GSMap_NOW/index.htm))?



■ 1. Yes

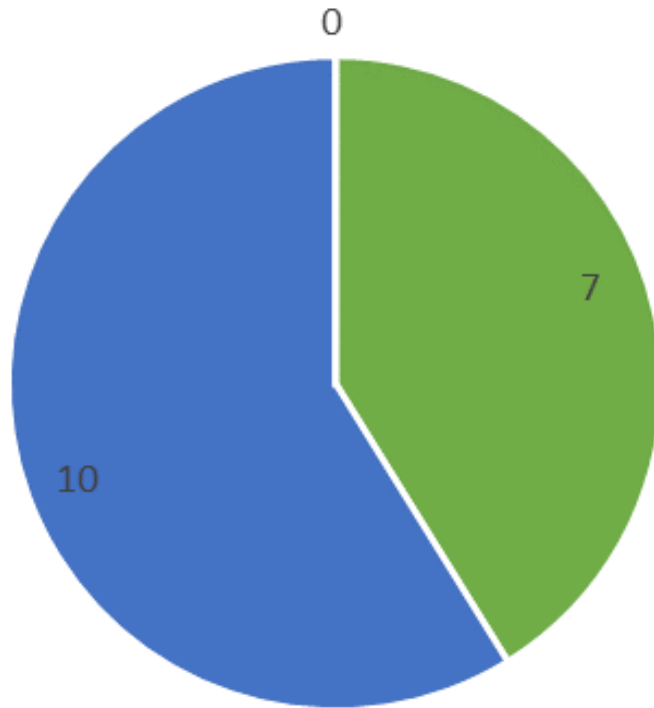
■ 2. No, but want to use

■ 3. Not interested

2. No, but want to use : More than half ( $>1/2$ )

1. Yes : A third ( $1/3$ )

## Q2.2-2 Do you have resources to use satellite observation data?



■ 1. Enough

■ 2. Yes, but not enough

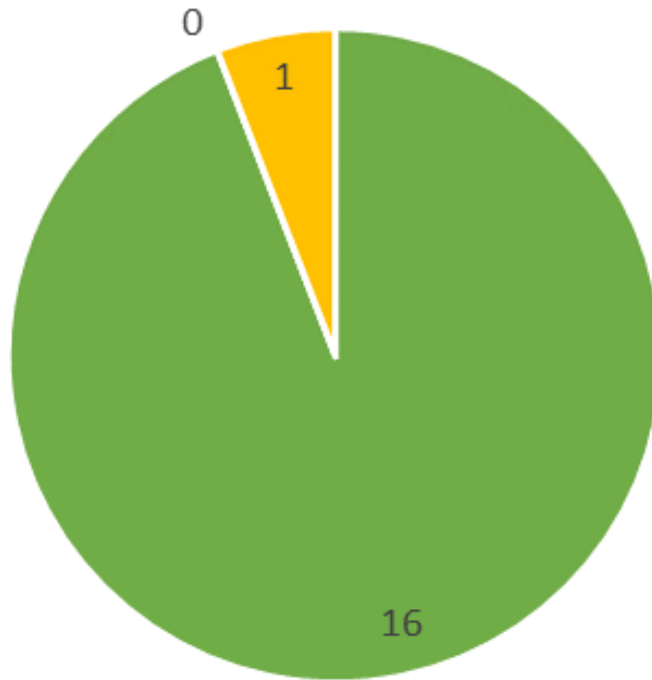
■ 3. No

2. Yes, but not enough : More than half ( $>1/2$ )

1. Enough : Less than half ( $<1/2$ )



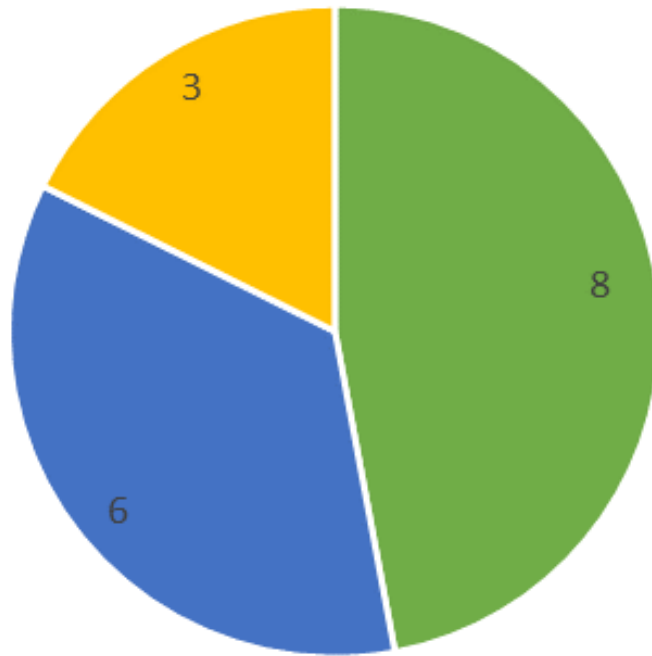
## Q2.2-3 How do you think about collaboration between research and development organizations and National Meteorological and Hydrological Service (NMHS)?



- 1. They should collaborate actively
- 2. Wonder about the effect of collaboration
- 3. Don't know

1. They should collaborate actively : **Most**

## Q2.3-1 Does your organization participate in an international regional radar network?



■ 1. Yes

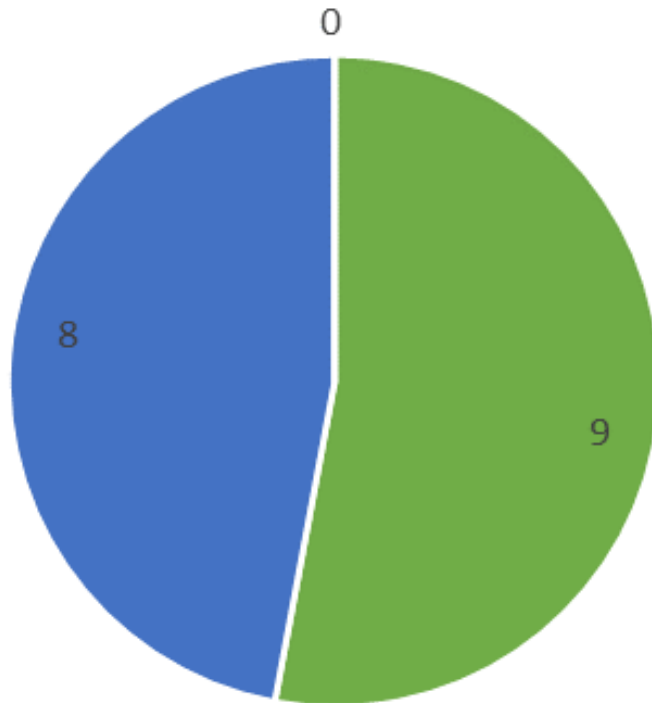
■ 2. No, but we want to participate

■ 3. No

1. Yes : Half (**1/2**)

2. No, but we want to participate : More than a third (**>1/3**)

## Q2.3-2 Does weather radar observation contribute a lot to weather disaster prevention or mitigation in your country?

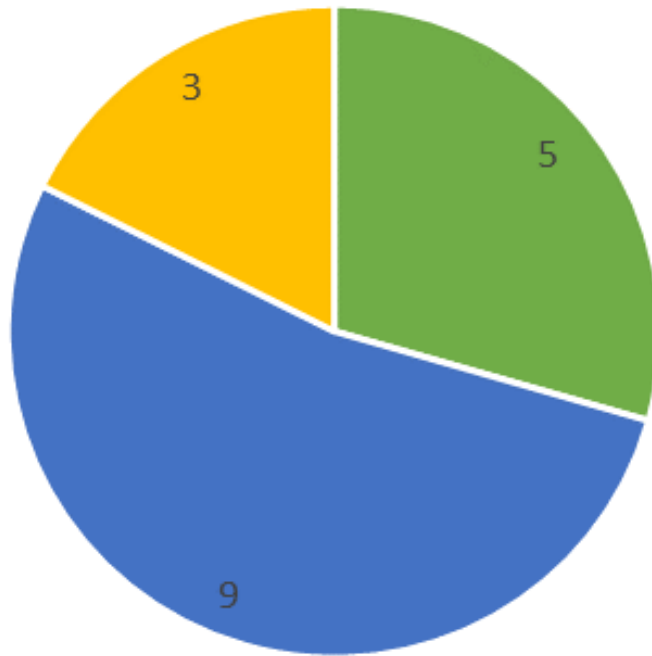


- 1. Yes, a lot
- 2. Need improvement to contribute
- 3. Not expected

1. Yes, a lot : Half (**1/2**)

2. Need improvement to contribute : Half (**1/2**)

## Q2.3-3 Does your organization have experts acquainted with radar, satellite, surface observation?

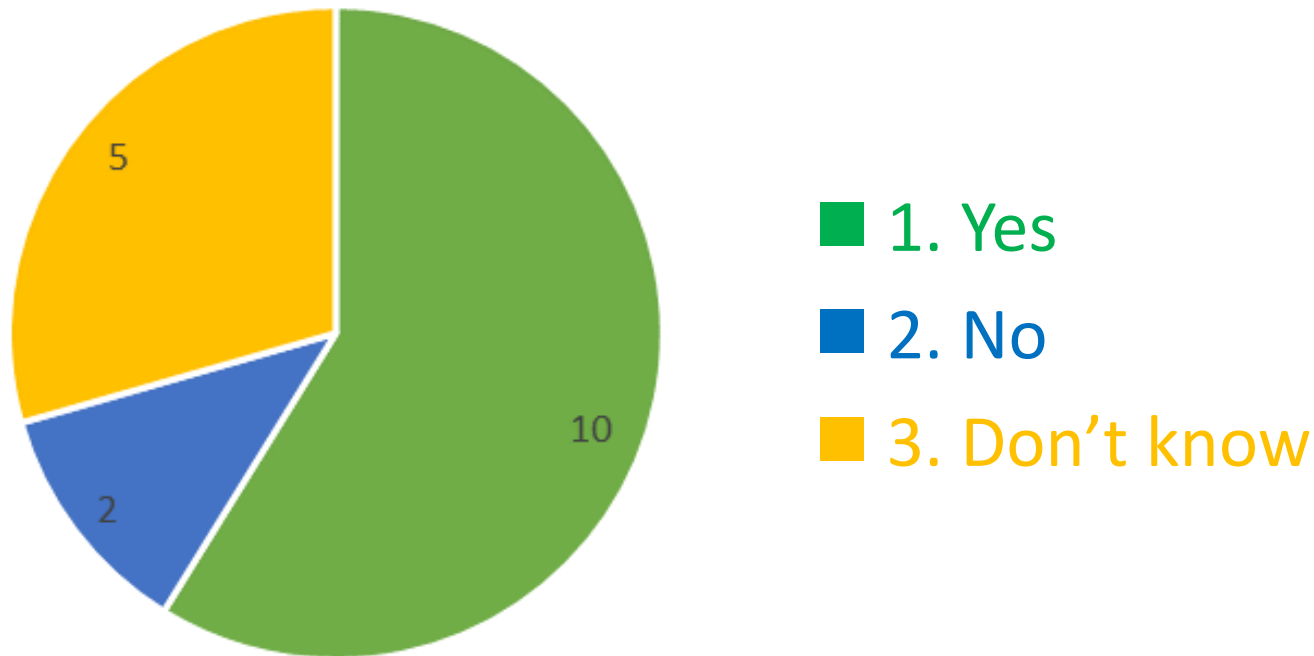


- 1. An expert acquainted with all areas
- 2. Each expert acquainted with in each area collaborates
- 3. No expert acquainted with those areas

2. Each expert acquainted with in each area collaborates : Half ( $1/2$ )

1. An expert acquainted with all areas : More than a quarter ( $>1/4$ )

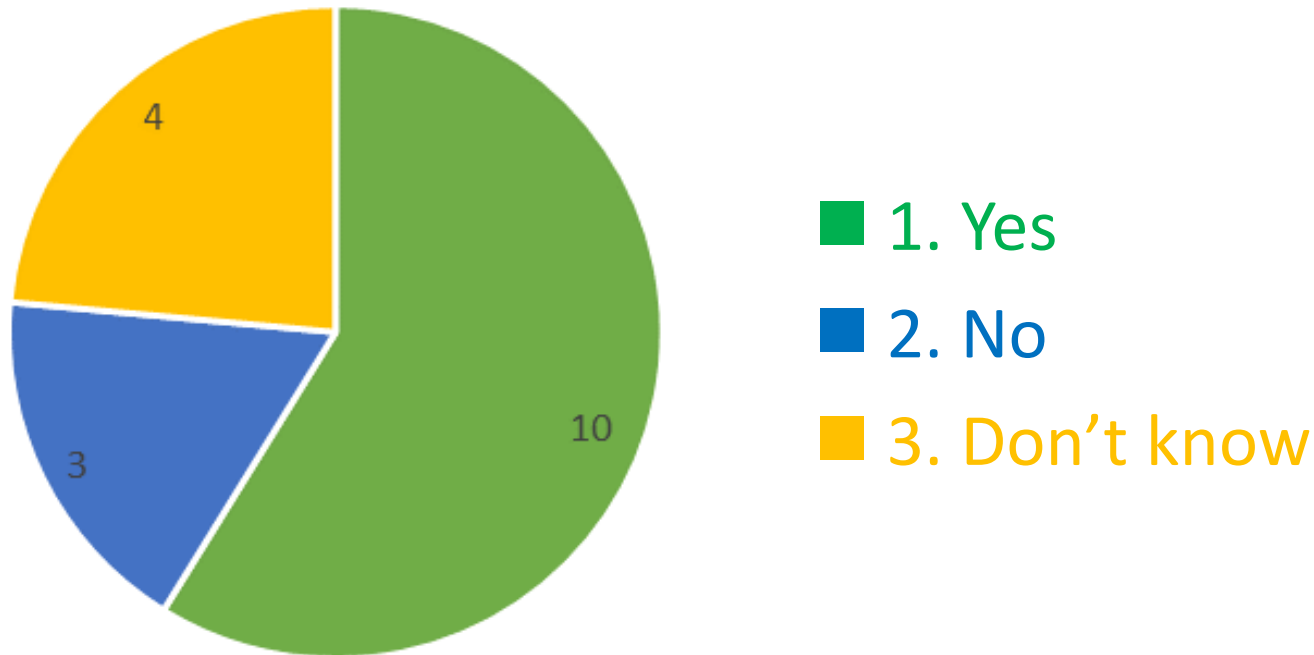
## Q2.4-1 Are you interested in measurement technology for surface water vapor using television broadcast wave?



1. Yes : More than half ( $>1/2$ )

3. Don't know : Less than a third ( $<1/3$ )

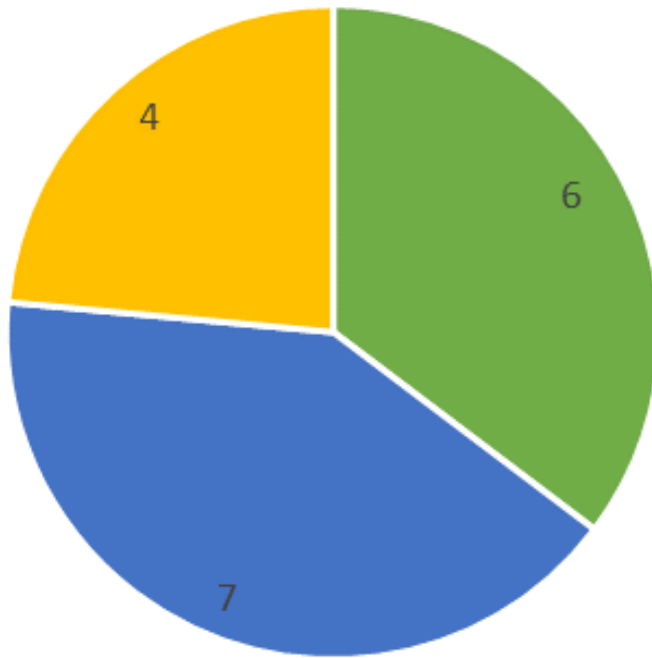
## Q2.4-2 Are you interested in technology that enables you to quickly grasp landslides by airborne radars?



1. Yes : More than half ( $>1/2$ )

3. Don't know : A quarter ( $1/4$ )

## Q2.4-3 How can you introduce the latest observation technology effectively?



- 1. With technical guidance
- 2. With human resource development
- 3. By technology transfer

2. With human resource development : Less than half ( $<1/2$ )

1. With technical guidance : More than a third ( $>1/3$ )

## Q2.5-1 Does your organization introduce low-cost meteorological instruments?



■ 1. Yes

■ 2. We have a plan to introduce

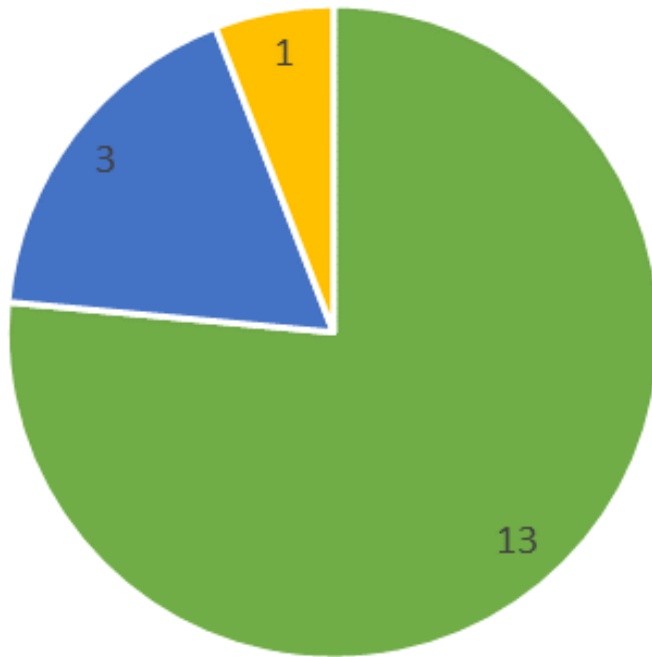
■ 3. No

3. No : Less than half ( $<1/2$ )

1. Yes : Less than a third ( $<1/3$ )



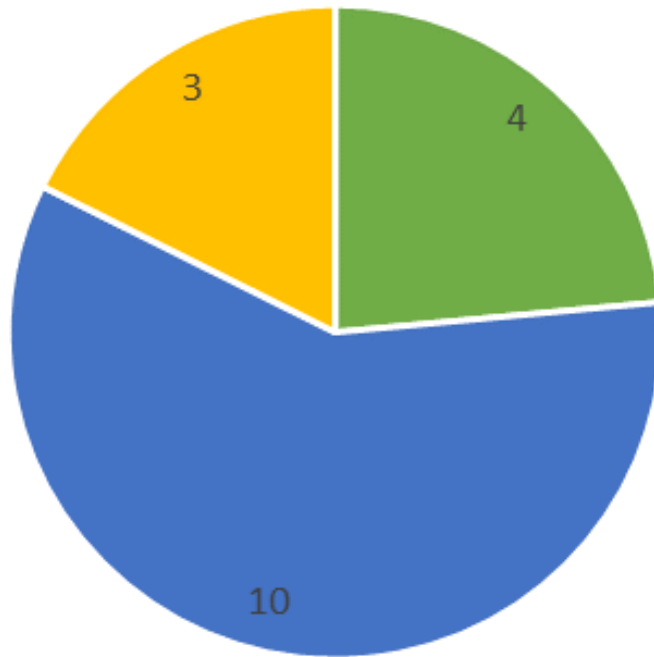
## Q2.5-2 Who should carry out calibration of low-cost meteorological instruments?



- 1. National Meteorological and Hydrological Service (NMHS)
- 2. National Metrology Institute (NMI)
- 3. Meteorological instrument manufacturers

- 1. National Meteorological And Hydrological Service (NMHS) : Three quarters (**3/4**)
- 2. National Metrology Institute (NMI) : Less than a quarter (**<1/4**)

## Q2.5-3 Does your organization have staff who conduct surveys and analyzes of new meteorological instruments?

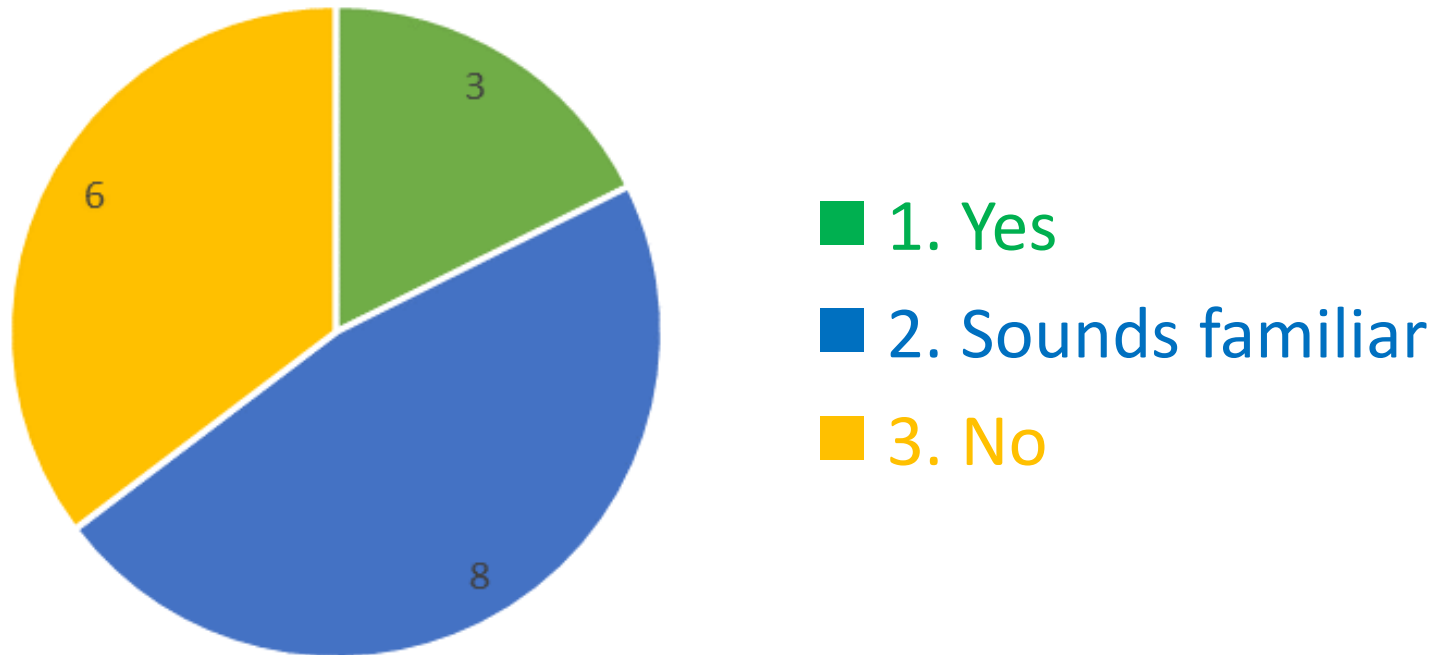


- 1. Yes
- 2. Need human resource development
- 3. No

2. Need human resource development : More than half ( $>1/2$ )

1. Yes : A quarter ( $1/4$ )

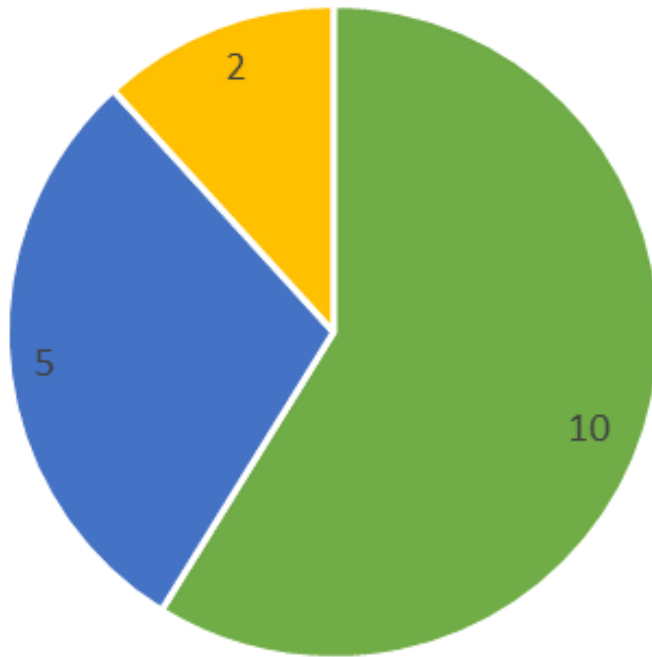
## Q2.6-1 Do you know measurement quality classification?



2. Sounds familiar : Half ( $1/2$ )

3. No : More than a quarter ( $>1/4$ )

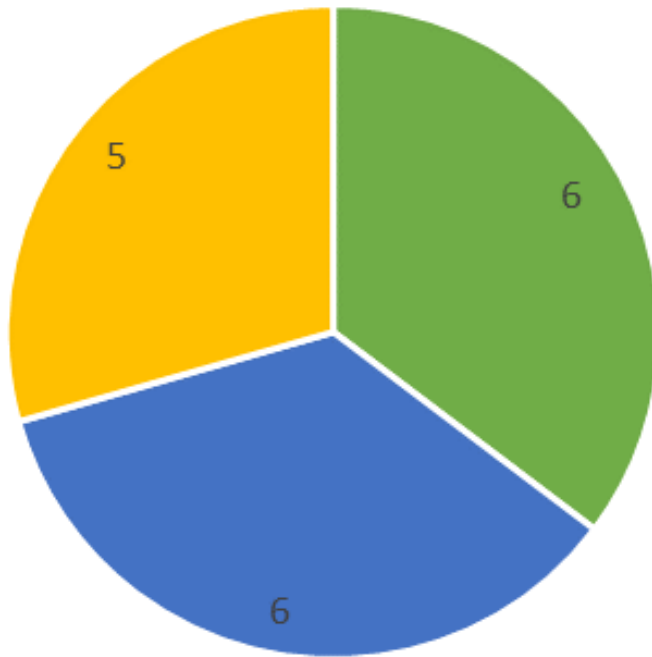
## Q2.6-2 What is the benefit of introducing measurement quality classification?



- 1. We can know the reliability of observation data
- 2. Motivation for observation quality improvement
- 3. Don't know

- 1. We can know the reliability of observation data : More than half ( $>1/2$ )
- 2. Motivation for observation quality improvement : Less than a third ( $<1/3$ )

## Q2.6-3 What is the concern caused by the introduction of measurement quality classification?



- 1. Evaluated as low classes
- 2. Additional work for classification will occur
- 3. Don't know

Almost divided equally