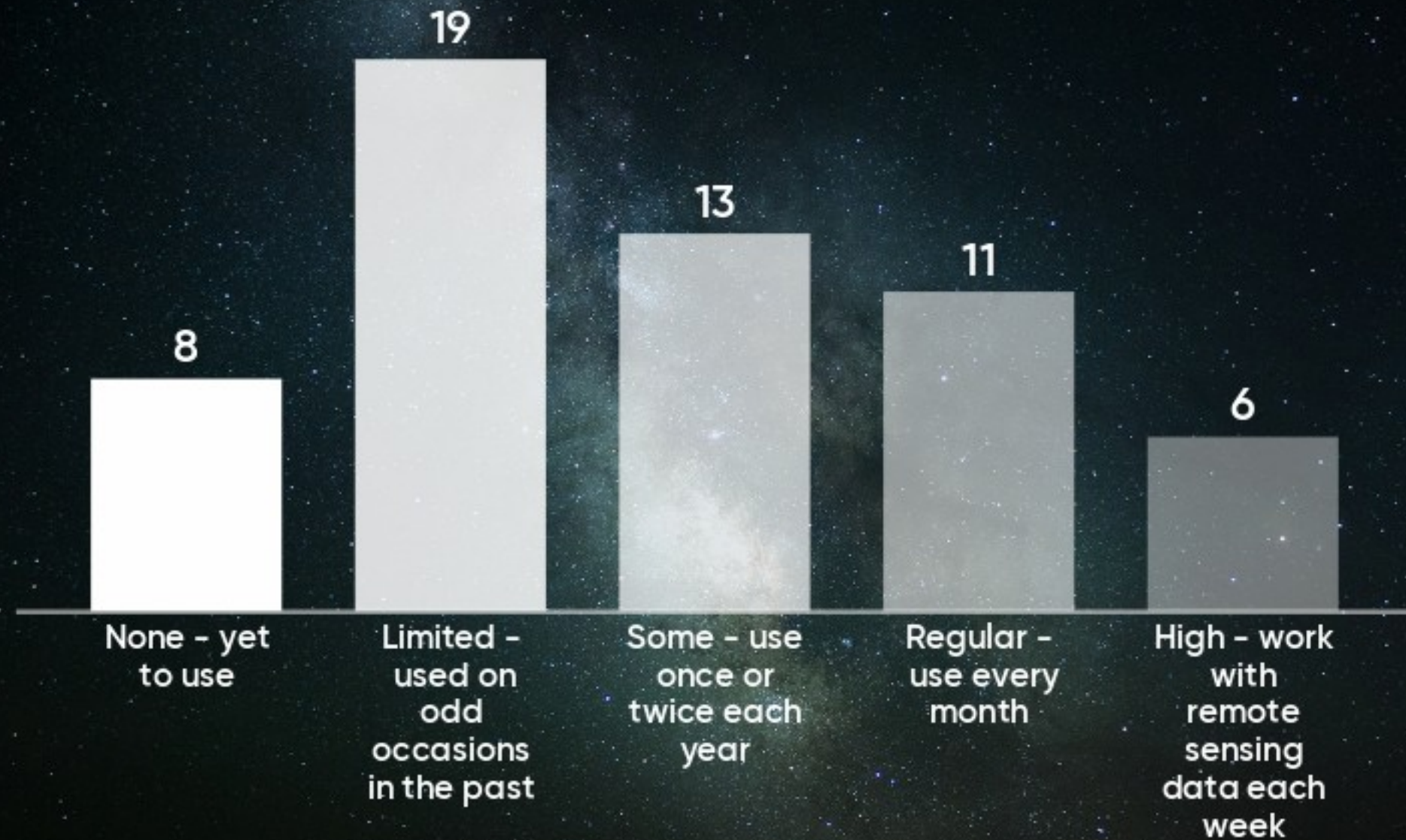


Welcome – We invite you to share some of your experiences and ideas in remote sensing in water management and modelling



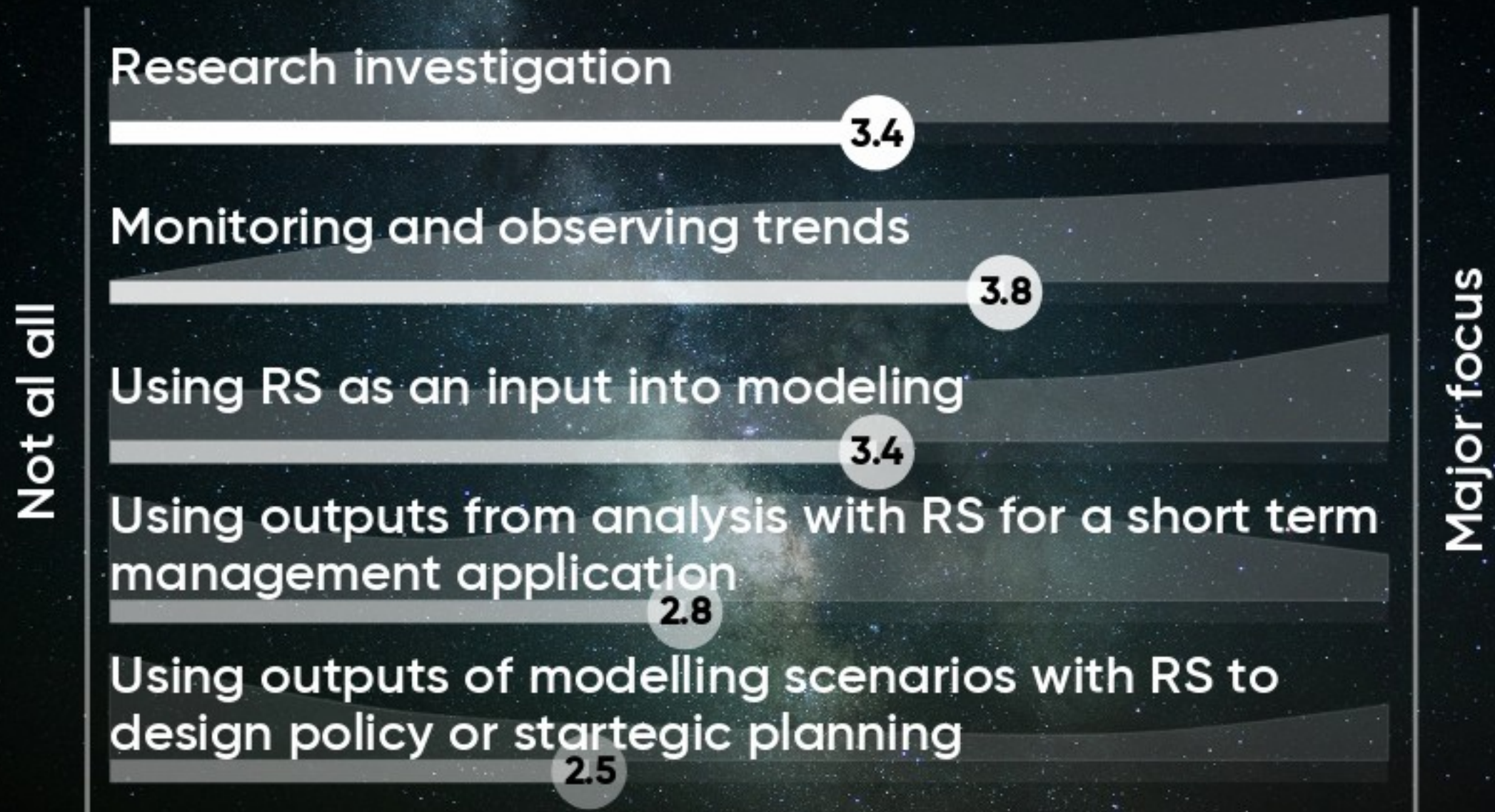
What experience do you have in using or accessing Remote Sensing data?



For what sort of management issue would you like to use Remote Sensing?



How much of the following roles would describe how you would be using remote sensing (RS)



The QWMN can help facilitate the discussion & collaboration in remote sensing in water management & water modelling. Any suggestions on key issues?

modelling of flood inundation extent under different flow scenarios

climate change

surface water groundwater connectivity

How other water modelling teams are using remote sensing data, particularly those with experience in using these datasets. Shared learnings will be valuable.

The storage and movement of water through the landscape is always hard to gauge and represent in hydrologic models. RS insight into the interaction of surface water and shallow groundwater systems is valuable when estimating model parameters.

Co-analysis of proximal and remote sensing technologies

identifying riparian vegetation species type and condition (including extent of viney weeds) across SEQLD waterways has previously not been possible, has there been any advancement in this area?

Modellers need to stop just assuming the monitoring sites will continue to exist for them to obtain calibration and validation data from. Become active supporters of monitoring, send us back your products and publish your findings.

As remotely sensed products are now available with a much higher temporal and spatial resolution, data storage, access, and processing capacity are key issues, particularly for regional locations. Also regular sharing of info about new products

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Access to remote sensing data and validation techniques.

stormwater modelling and climate change

Understanding what "use ready" data is available. I.e. raw data that has already been processed to provide e.g. water quality metrics, or groundcover metrics etc.

1. River connectivity to the aquifer or river bed hydraulic conductivity
2. Water movement into the aquifer from soil profile
3. Land use coverage and identification of GDE

A brief summary of the RS products available and which is most appropriate for different purposes.

Drill into more specific details on current RS data consumption. Eg., who & how is digital globes WorldView satellites being used? Are the cloud-based post-processing, analytics & high res significantly more informative than Sentinel products?

where has it been done well and what has made it successful.

Provide information from/to other states/ national organisations . Eg Water Research Australia are currently seeking support for state of knowledge and remote sensing for water applications review - <https://www.waterra.com.au/research/>

How to water observations from space in water assessments and in river basin models

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nil

nil

Identifying crop stress and relating that to irrigation management

I am interested in water movement and the movement of nutrients or pollutants with it that will affect the environment. I am also interested in hydrology of sustaining natural swamps and draning to optimise productivity of agricultural land .

Integration of model and EO data for maximum consistency for all water balance variables

collation of datasets

Auditing of works

Need some kind of library detailing all the remote sensing data that's available to us in Qld Gov

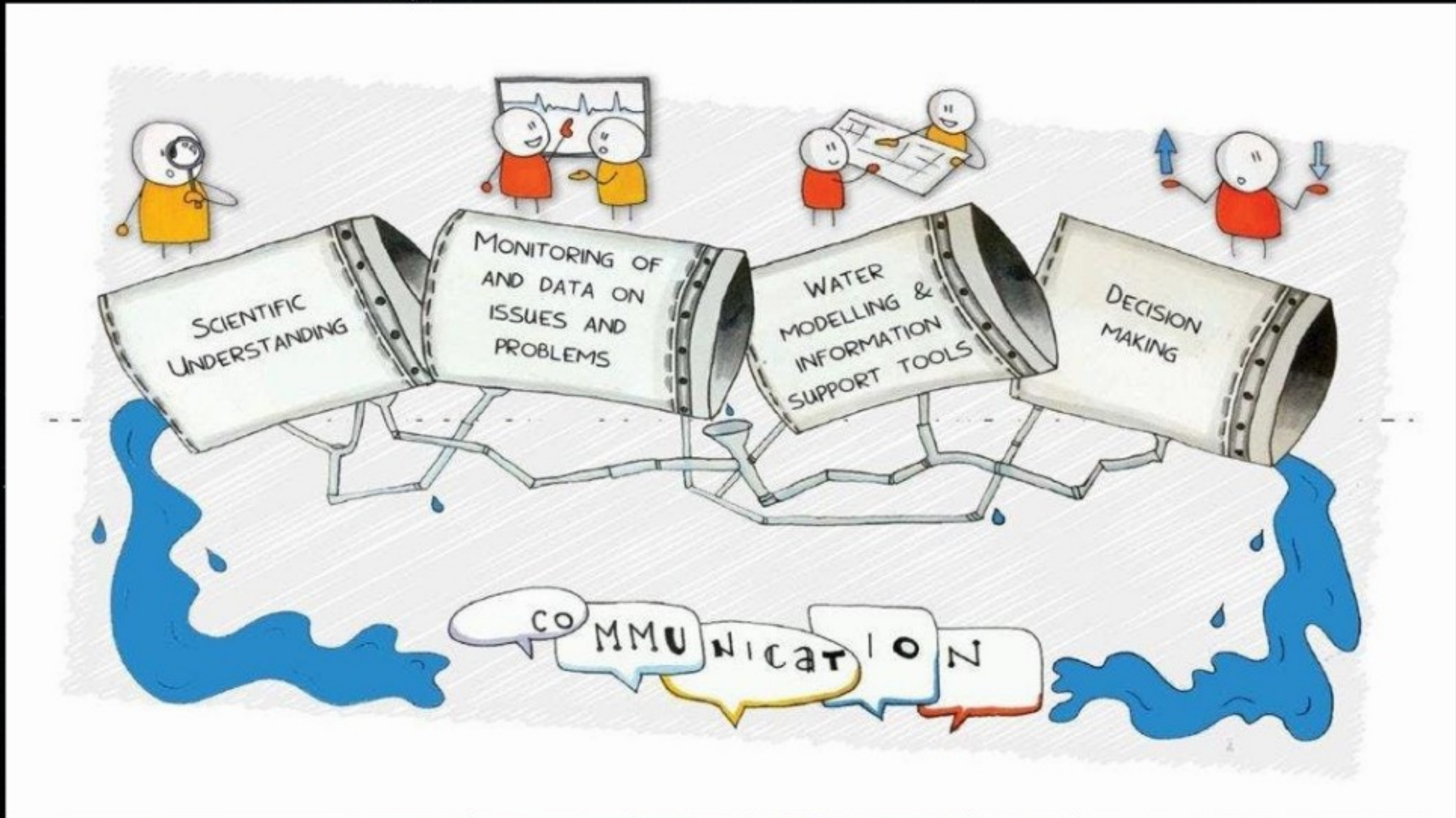
Water compliance



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What should the governments do to start IWRM in development country i.e Indonesia using remote sensing?

Our QLD State Imagery group at DNRME collects, manages, and uses Satellite data from Planet, RSC(DES), LiDAR, 3D and aerial photography, as well as making this data accessible through web services. We do Change Detection & Machine Learning .



Thank you your responses and we look forward to your participation at this QWMN event

