GISC Tokyo cloud project

KANNO Yoshiaki

Information and Communications Technology Division

Information Infrastructure Department

Japan Meteorological Agency
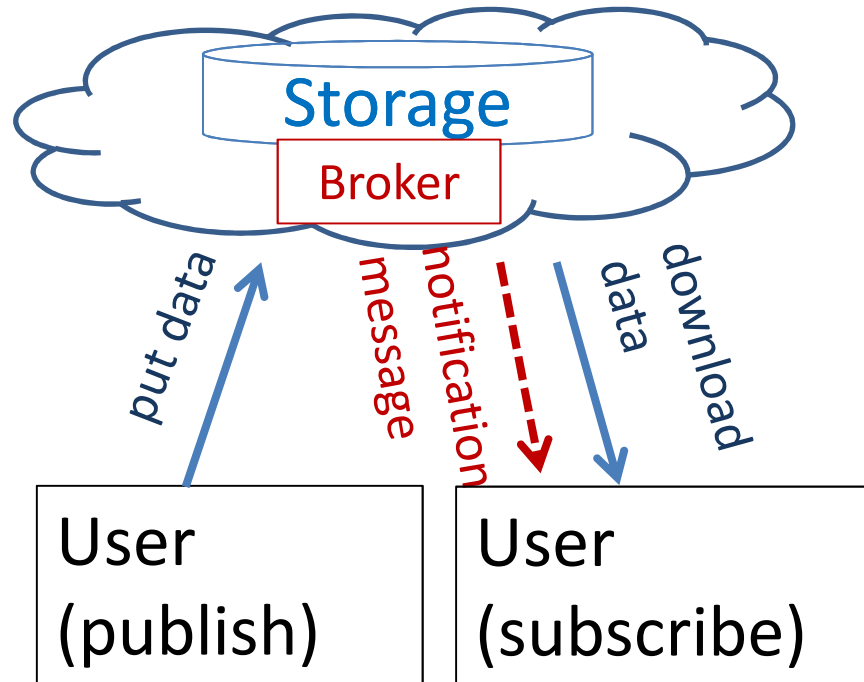
Project objectives

- Enable smooth migration from GTS to cloud based "shared platform" data exchange system

- Get necessary skills and knowledge for the new technology (especially for MQPs) together with AOR countries

- Demonstrate the prototype of MQPs system to AOR countries (A)

- Demonstrate the more conventional cloud storage direct download method for countries preferring a more gradual evolution (B)

- Consider ways of immediately exchanging time critical data such as warnings and advisories

- Consider interoperability, efficiency, sustainability, and techniques toward efficient migration for LDCs and other parties

Project plan

A: MQPs system

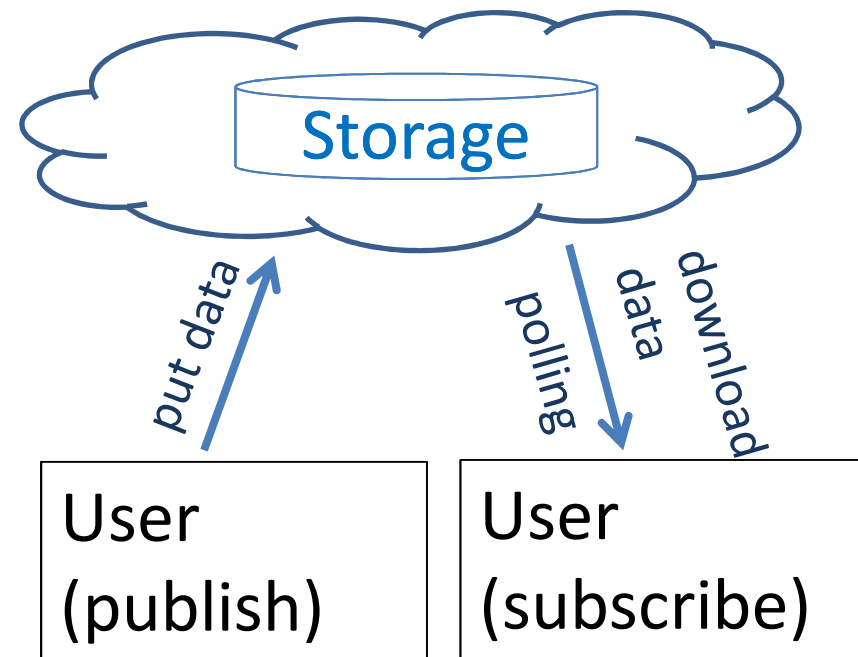- Develop prototype of communication infrastructure

(currently using on-premise machine)

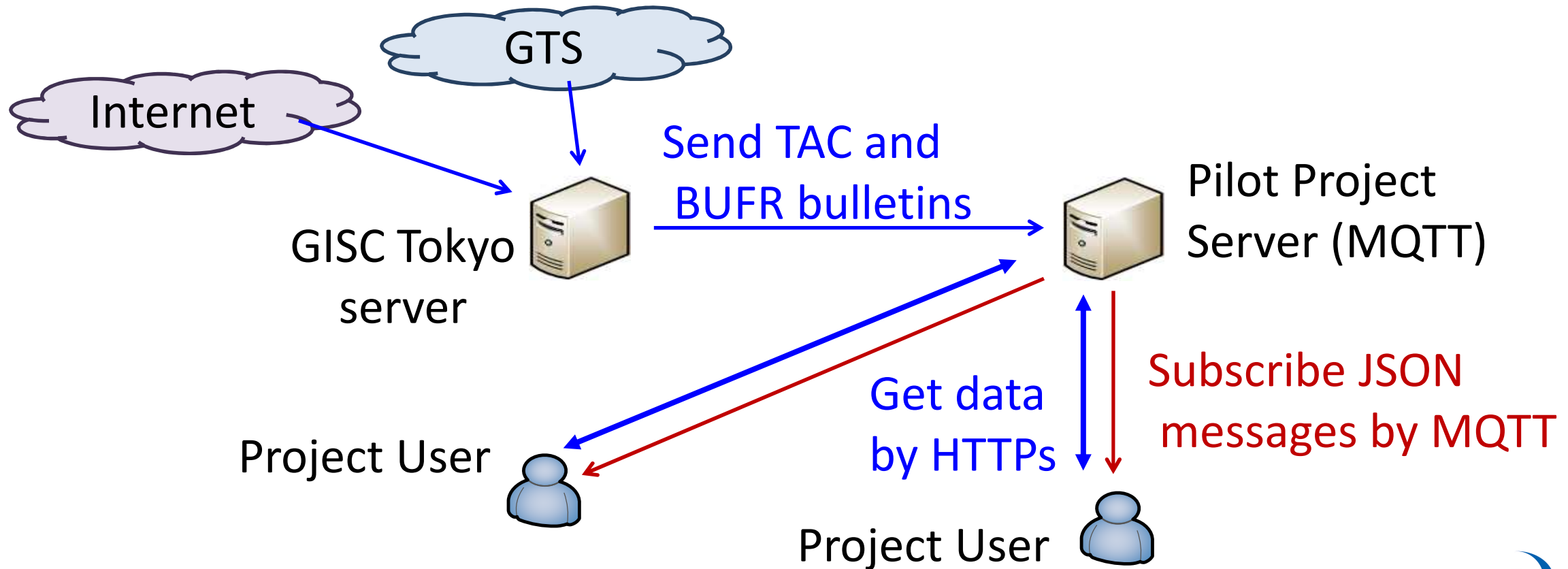## B: Cloud storage direct download

- Develop open source tools to utilize cloud storage

(currently using cloud on trial base)
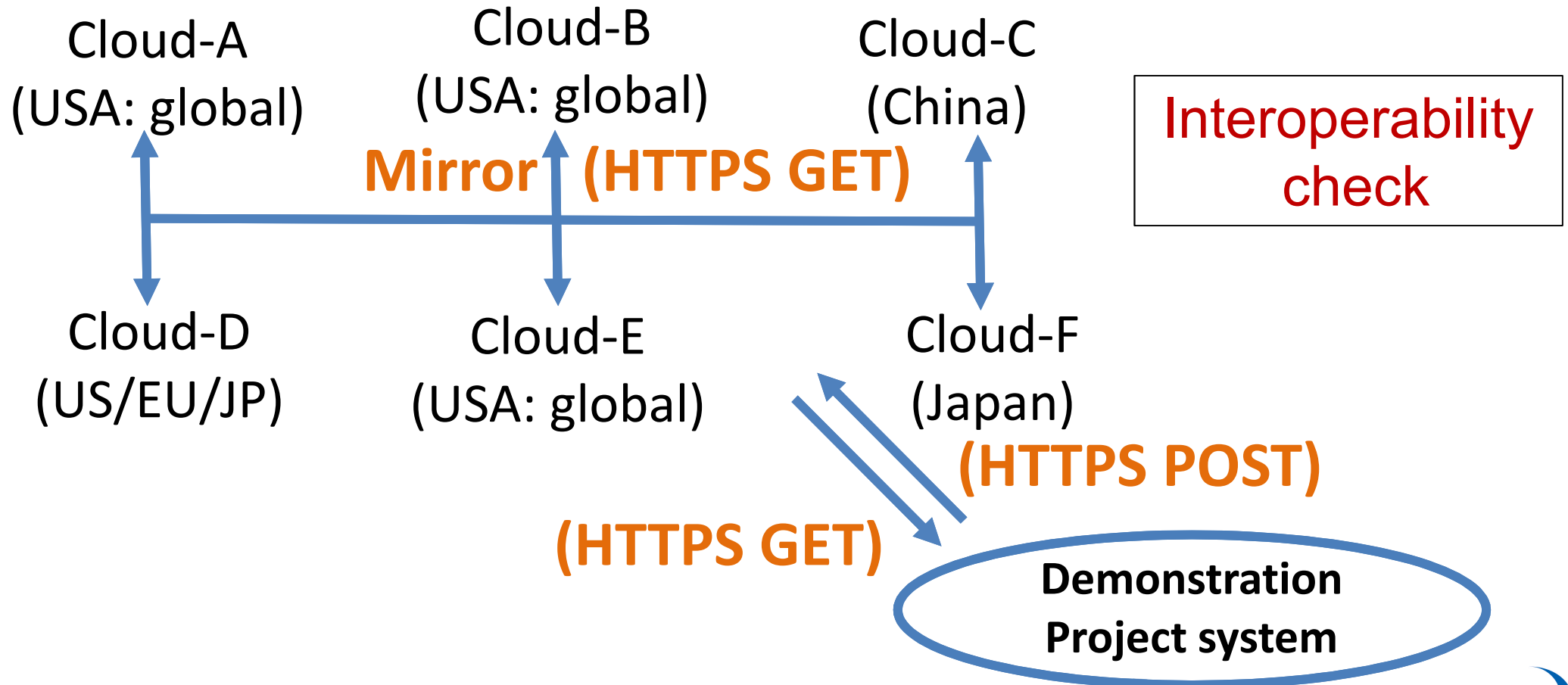
Project Overview - A: MQPs-1

- Developed initial MQP system in 2019

GTS

Internet

Send TAC and
BUFR bulletins

GISC Tokyo
server

Pilot Project
Server (MQTT)

Project User

Get data
by HTTPs

Subscribe JSON
messages by MQTT

Project User

Demonstration B: Cloud storage direct download

Develop open-source tools to utilize cloud storage
-Enable user-scheduled downloading

Cloud-A
(USA: global)

Cloud-B
(USA: global)

Cloud-C
(China)

Interoperability check

Mirror (HTTPS GET)

Cloud-D
(US/EU/JP)

Cloud-E
(USA: global)

Cloud-F
(Japan)

(HTTPS POST)

(HTTPS GET)

Demonstration Project system

Experimental Data exchange

- GISC Tokyo would like to invite workshop participants to join the experimental data exchange.

  - To get feedback and requirements in the region, to be reflected in WIS2.0 implementation
  - To ease the transition to WIS2.0 in the region

Thank you