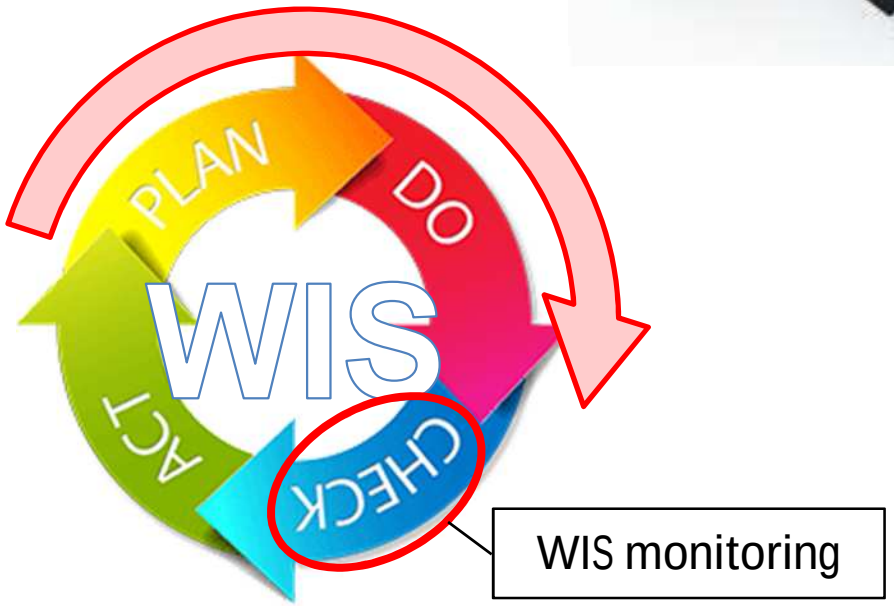
Development of WIS Monitoring



Yasutaka HOKASE

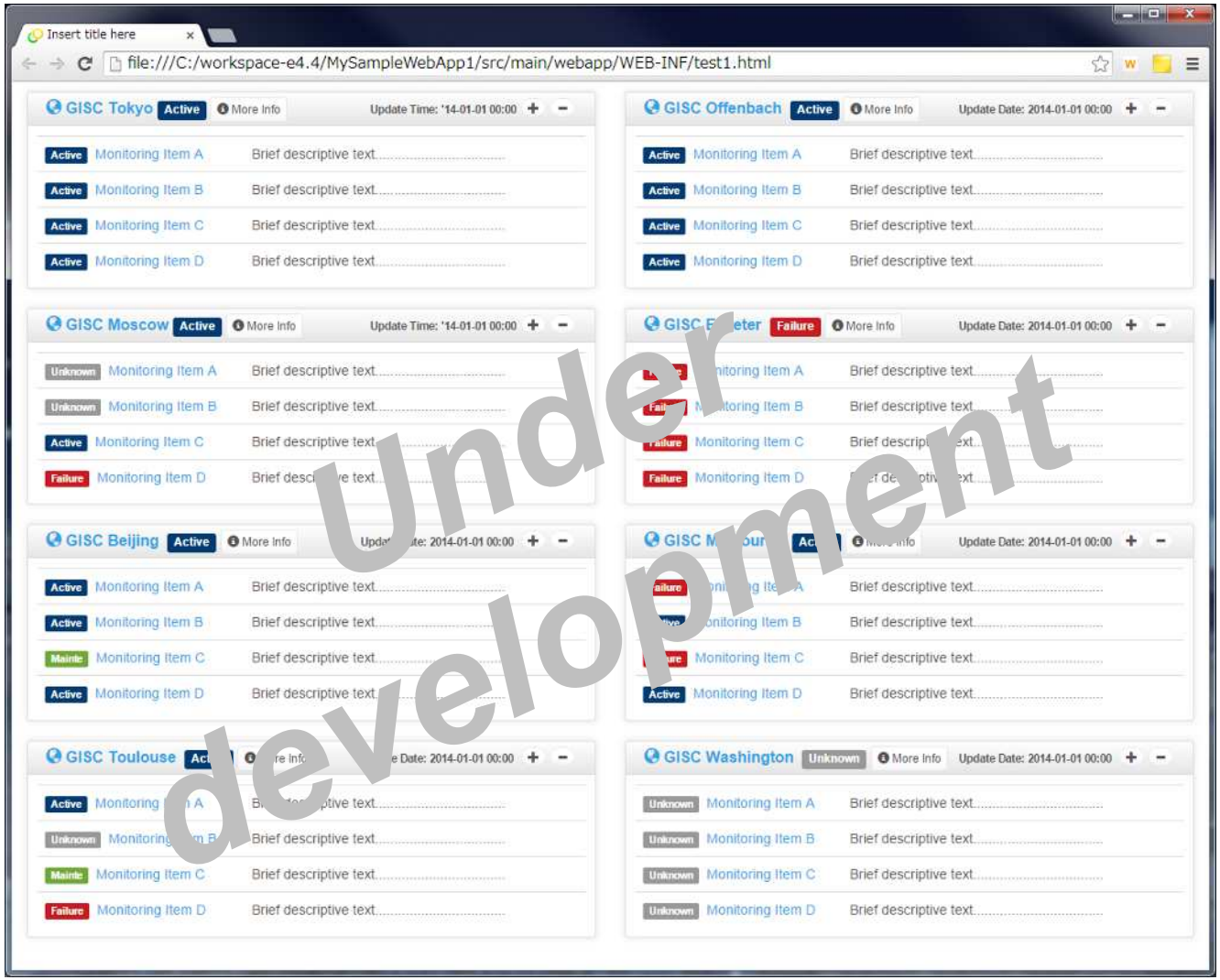
WIS Workshop in 2014

18th-20th Nov. 2014, in JMA HQ

JMA's development progress

- TT-GISC (WIS Centre's Task Team on GISCs) is working on development and pilot test of WIS monitoring
- JMA is developing its own prototype of WIS monitoring page.
- JMA is developing the two pages below
  - Global view of dashboard
    showing status of several GISCs
  - Local view of dashboard
    showing details of GISC Tokyo

Global view of dashboard (Mock-up) showing the status of several GISCs



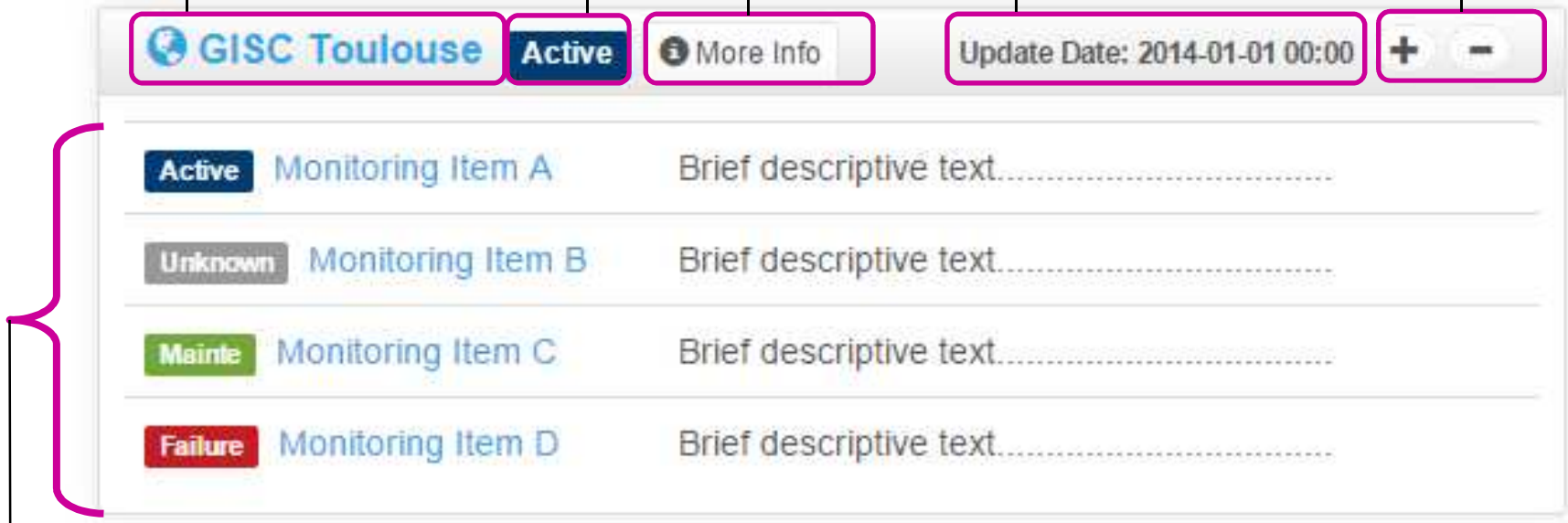
update date & time of GISC's JSON including status information

GISC's name
(Link to GISC's portal web site)

Link to a local monitoring view of this GISC

GISC's total status

Expand & collapse buttons



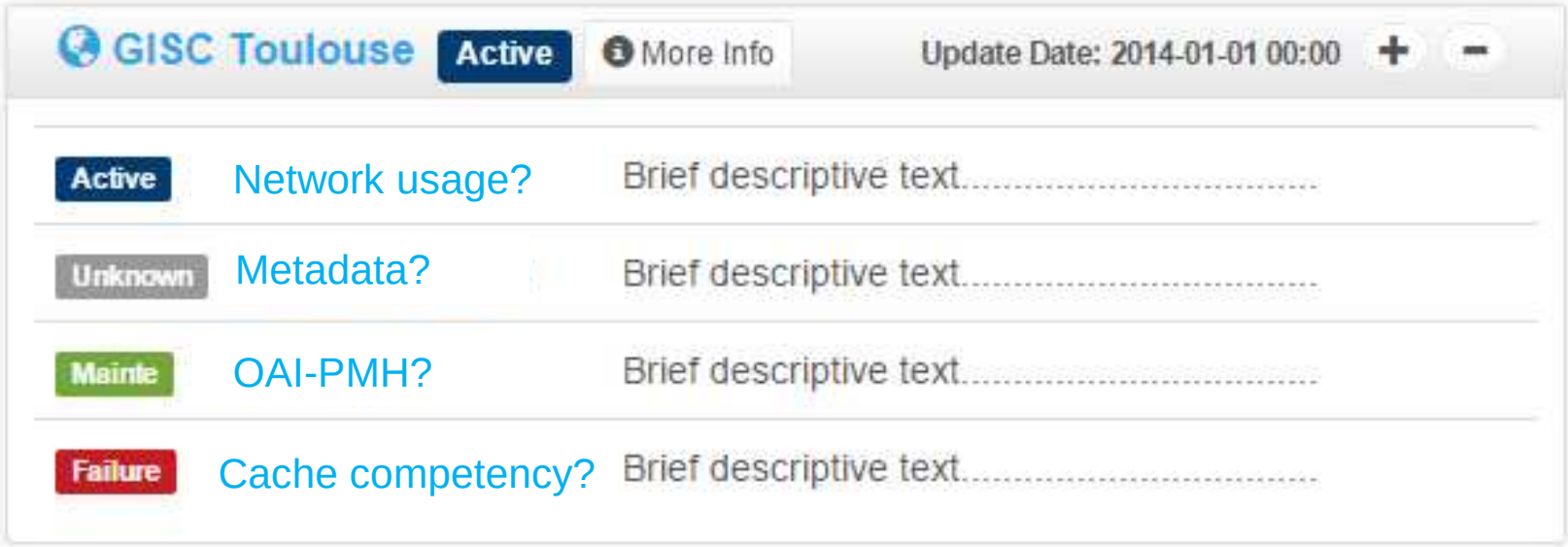
Brief descriptive text of each item

Name of monitoring item

Status of each item

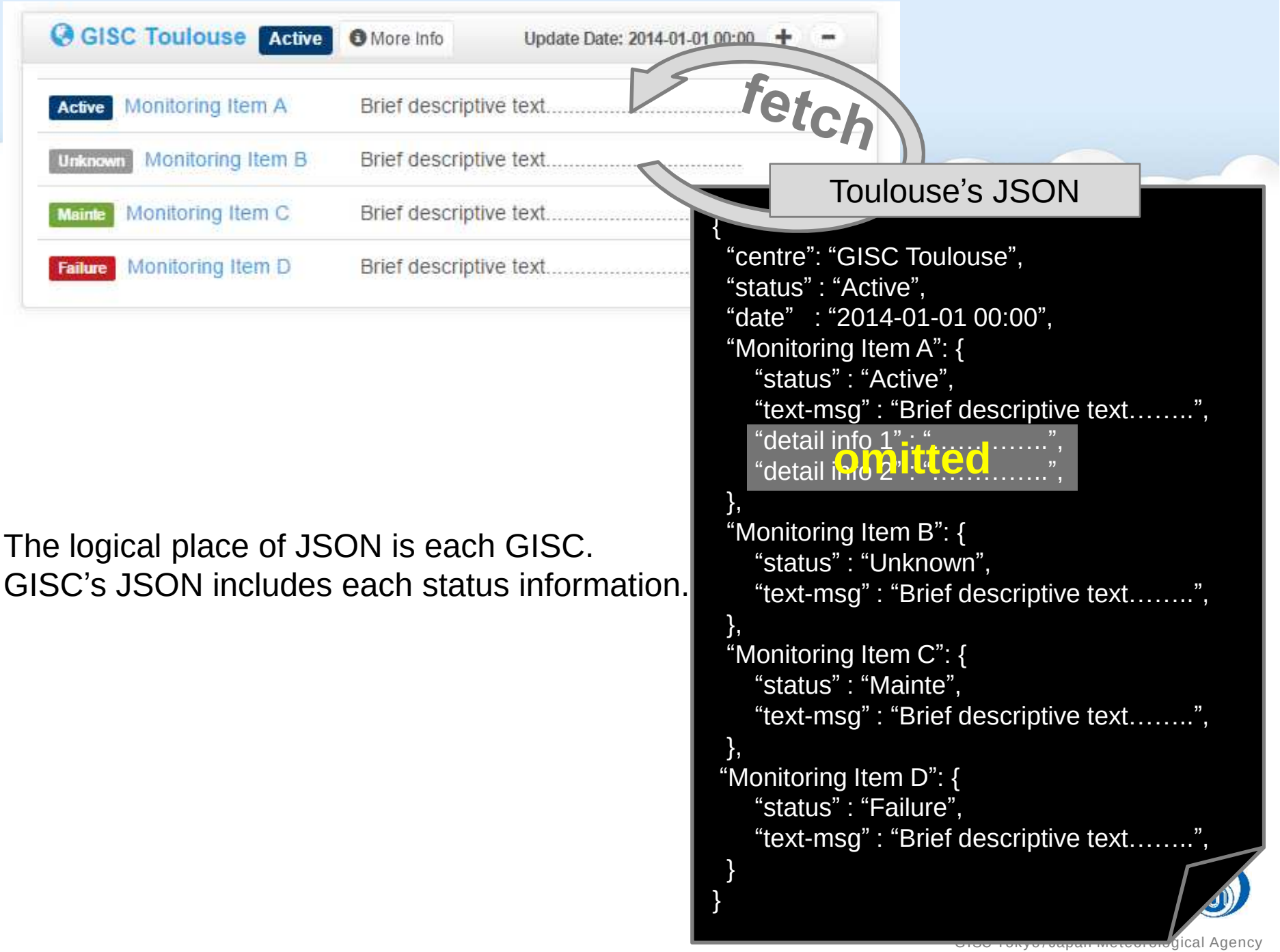
Drill down tab to show detail of the item

What should we monitor ?
What do users want to know status of ?

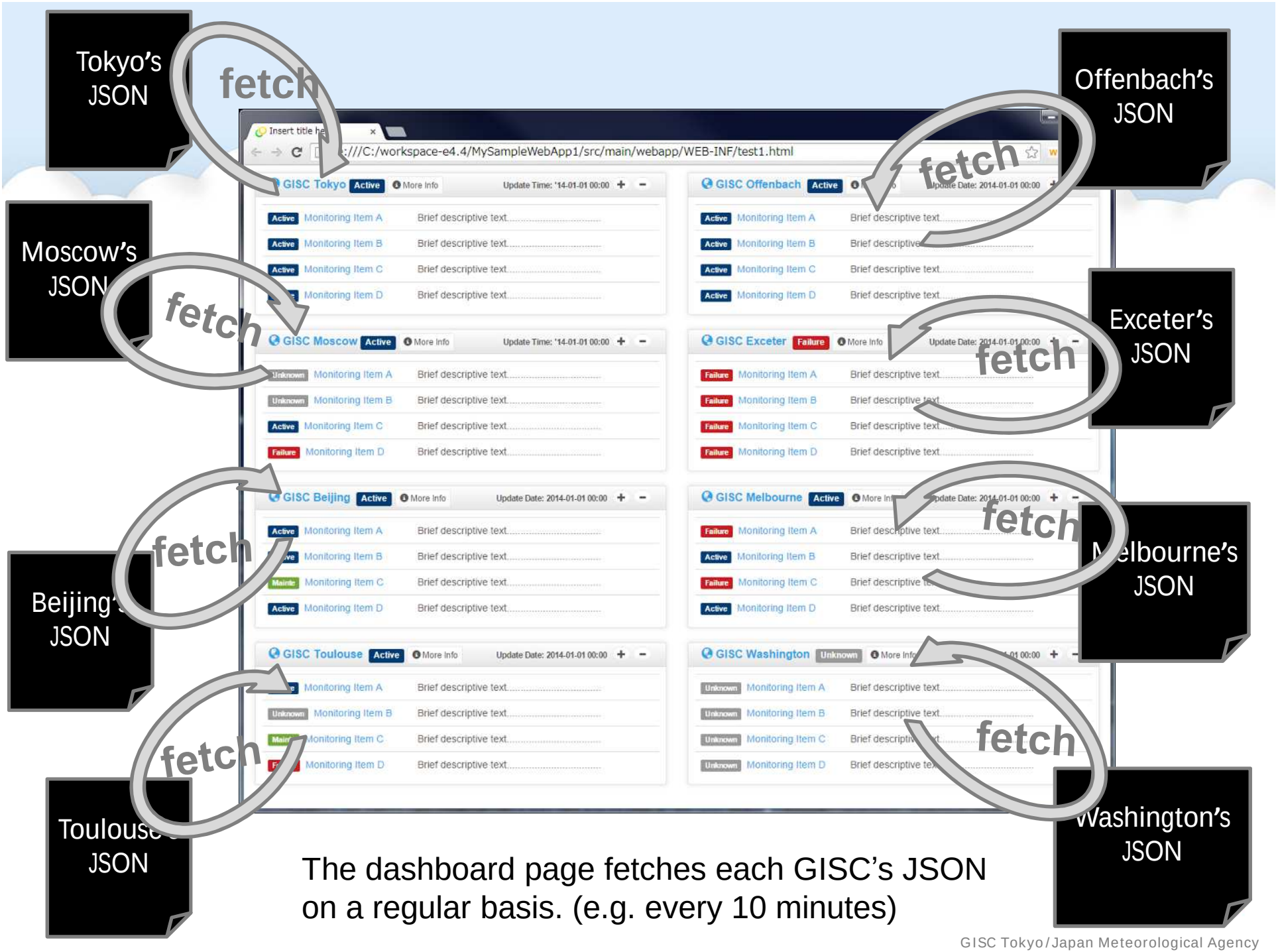


What the dashboard displays will be discussed in the task team hereafter.
The points would be as below.

- “meet user expectations”
- “cost effectiveness”
- “standardization of measuring method”

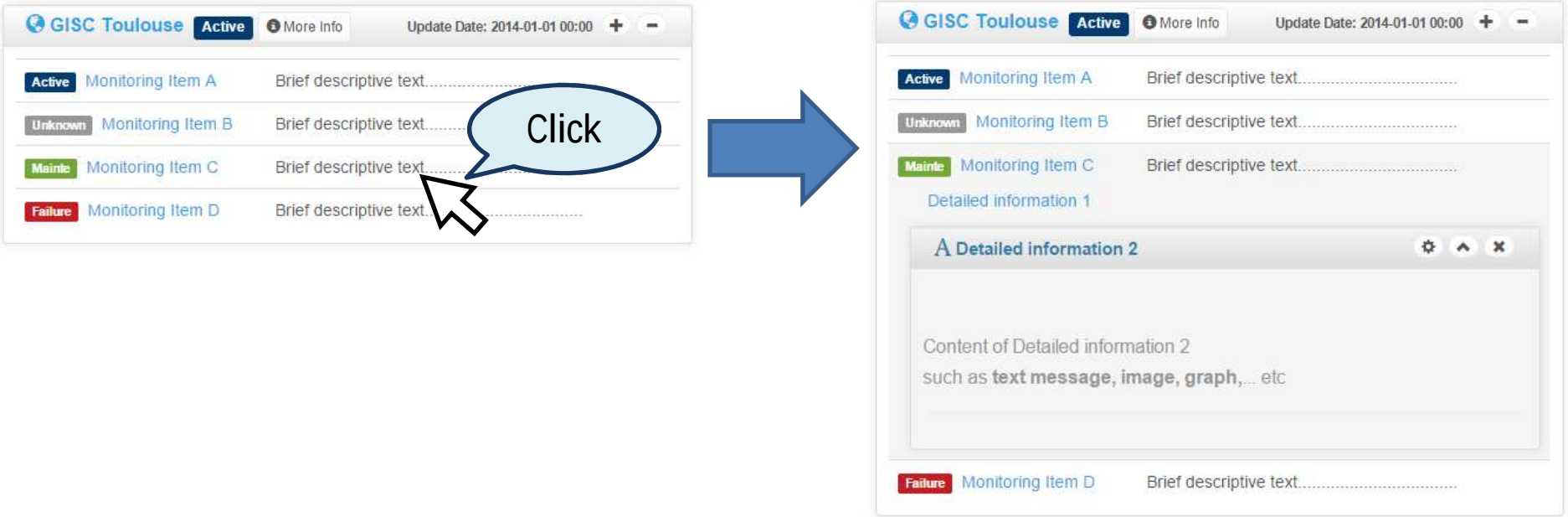


The logical place of JSON is each GISC.
GISC's JSON includes each status information.



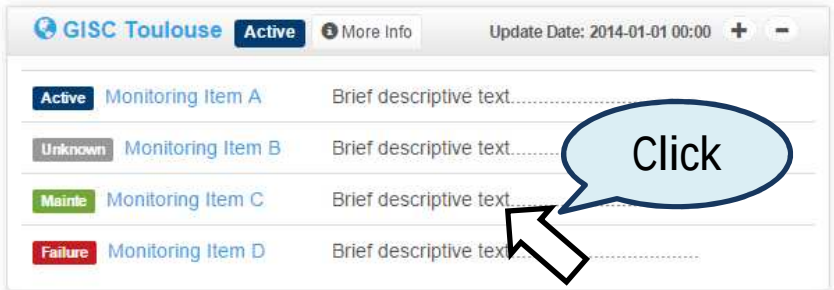
The dashboard page fetches each GISC's JSON on a regular basis. (e.g. every 10 minutes)

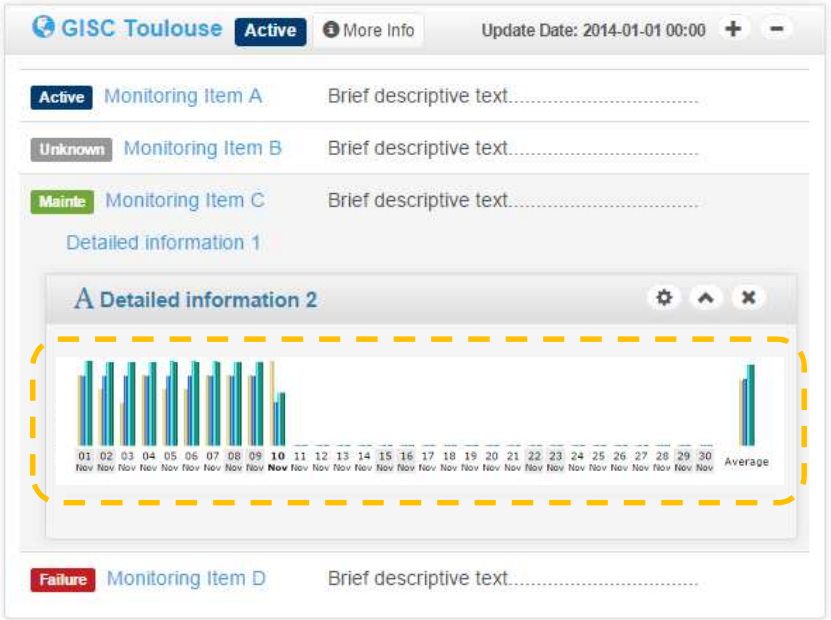
Drill down tab
to get more detailed information




```
"Monitoring Item C": {
    "status" : "Mainte",
    "text-msg" : "Brief descriptive text……..",
    "detail info 1" : "…….",
    "detail info 2" : "Content of Detailed information 2 …….",
},
```

Detailed information

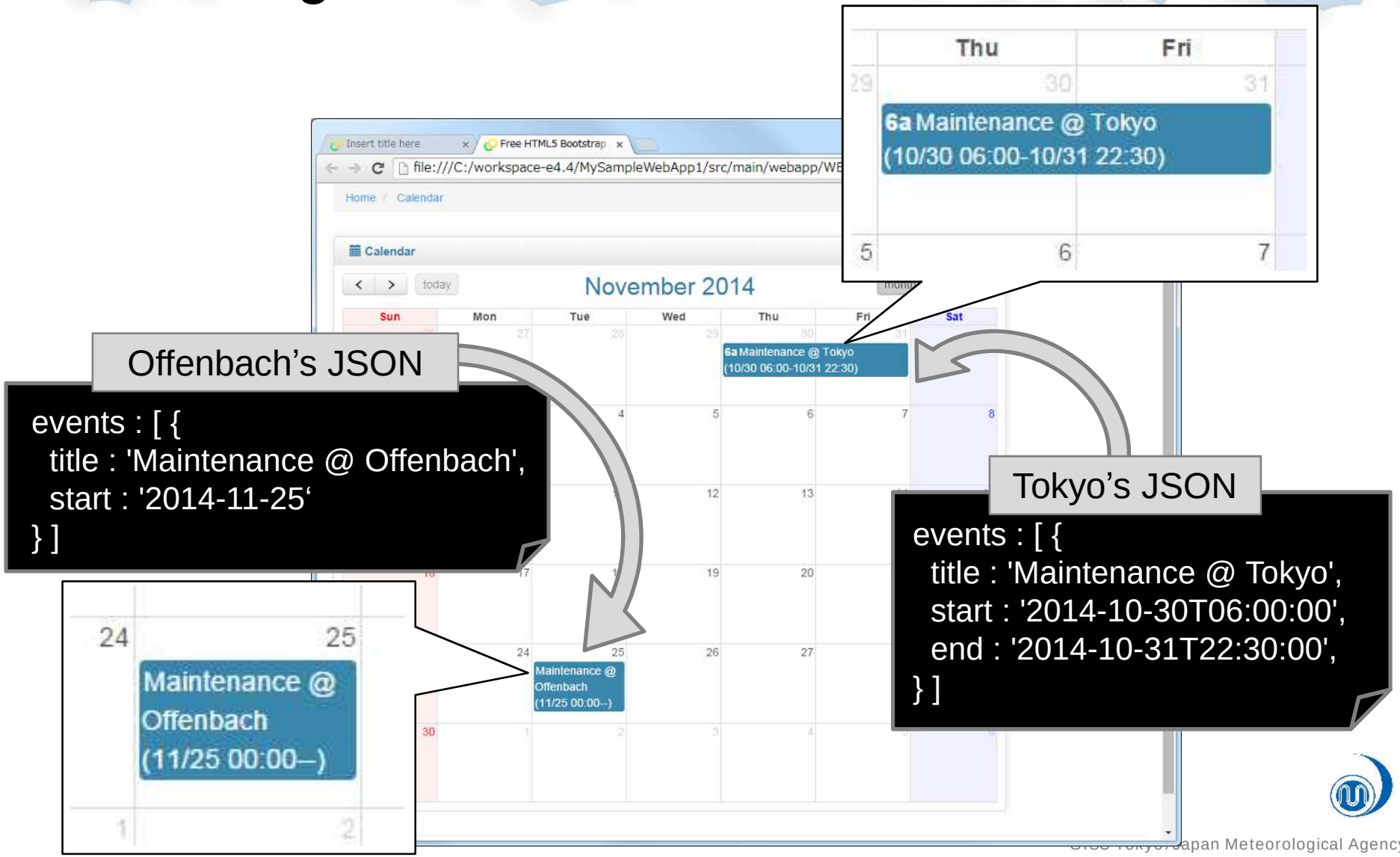




For example, time-series graph
which shows historical records of metric values.

```
"time-series of  item C": {
    "09UTC" : "49",
    "10UTC" : "67",
    "11UTC" : "54",
    "12UTC" : "71",
    "13UTC" : "46",
    "14UTC" : "38",
              :
},
```

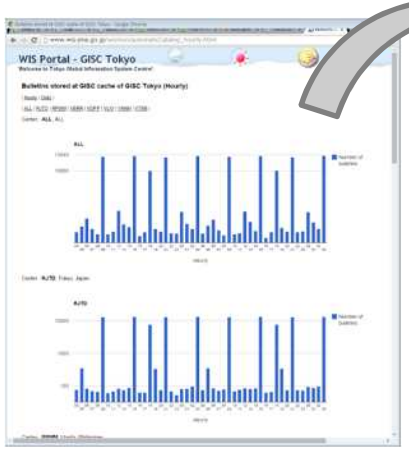
Common Calendar showing maintenance schedule of GISCs

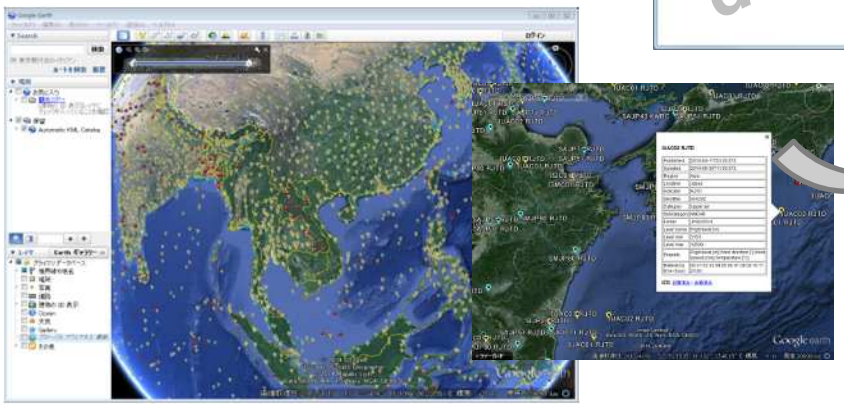


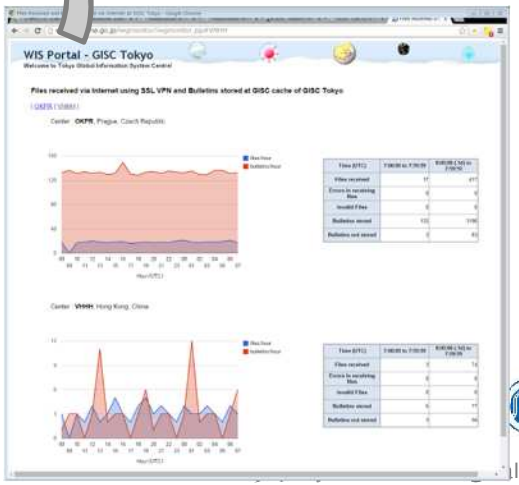
Local view of GISC Tokyo

Specialized monitoring page for GISC Tokyo

Some monitoring pages which JMA has already developed are scattered.
Others are to be developed hereafter.
These pages are to be collected on a local view.







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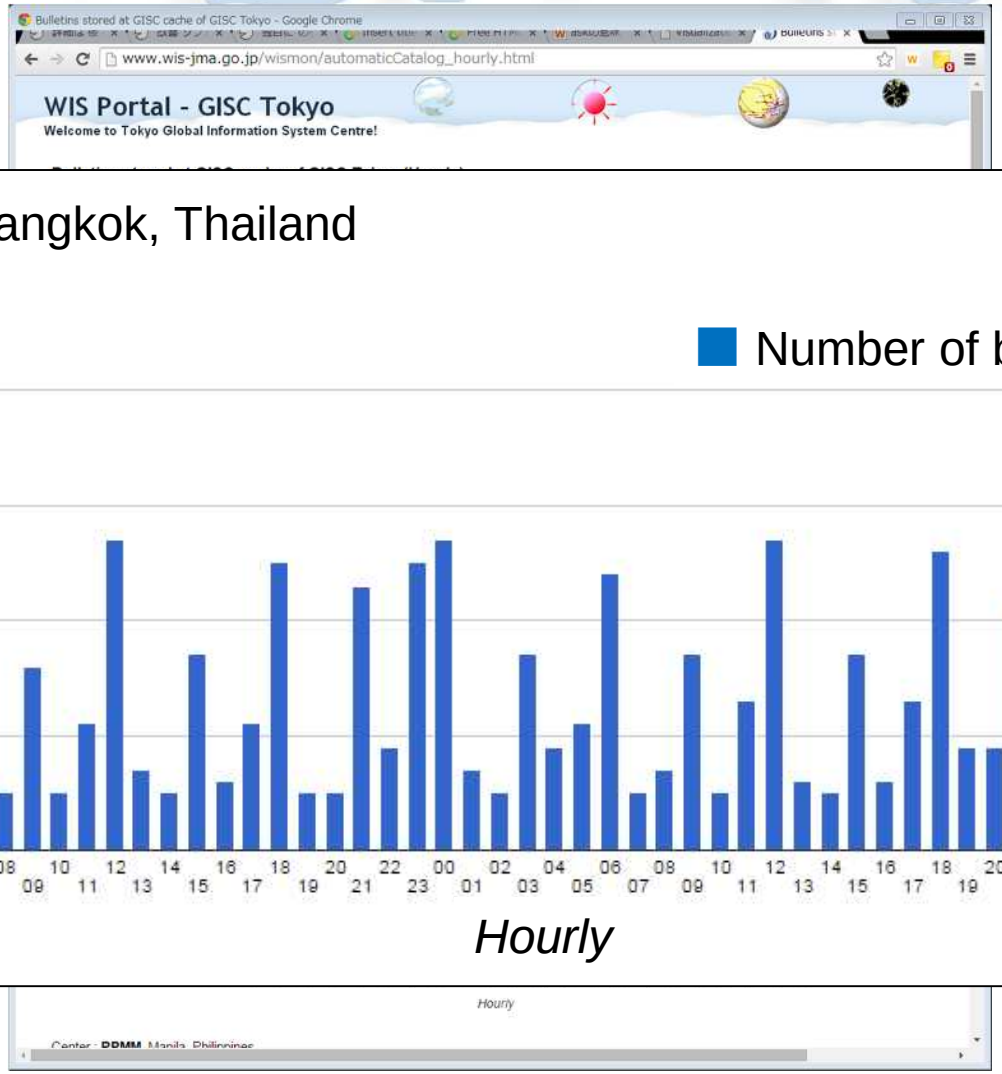
Monitoring NC/DCPC implement

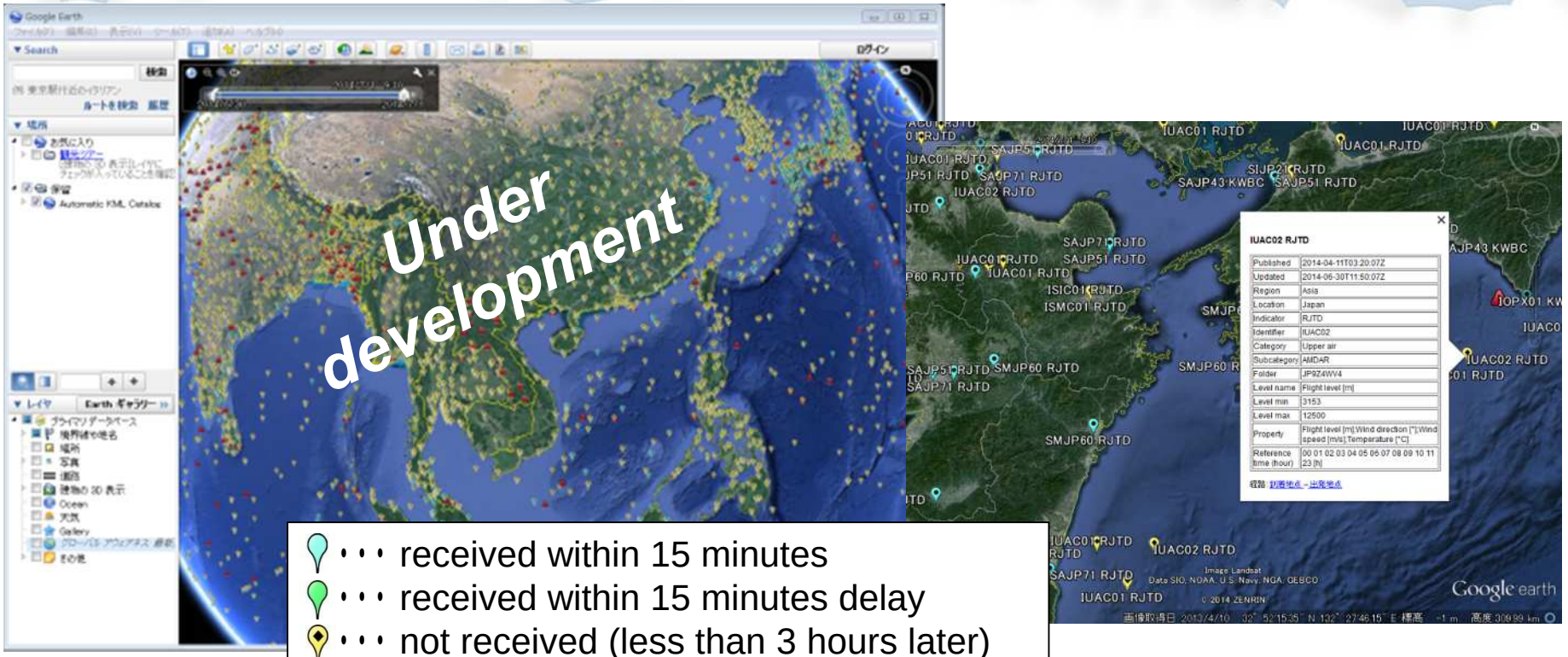
Bulletins stored at GISC Tokyo's cache



http://www.wis-jma.go.jp/wismon/automaticCatalog_hourly.html

Monitoring NC/DCPC implement

Statistics of incoming data to Tokyo



- ・・・ received within 15 minutes
- ・・・ received within 15 minutes delay
- ・・・ not received (less than 3 hours later)
- ・・・ not received (more than 3 hours later)

Information includes:

- Map display of geographical distribution of observing stations from which a report is received
- Statistics of incoming data to Tokyo

Pilot test

- The pilot implementation of WIS monitoring is to include at least two GISCs, one DCPC and one NC. (ICT-ISS asked TT-GISC.)
- Aiming to have a demonstration by March 2015.
- The pilot should report by September 2015.

Contribution of DCPC/NC to pilot test

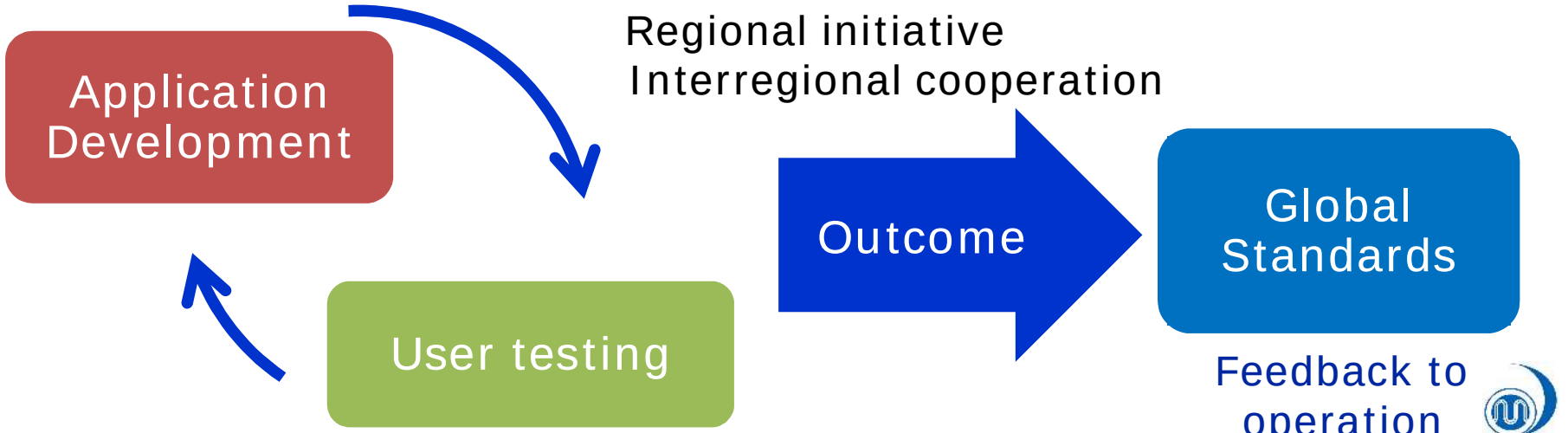
The details will follow later.

- User feedback

  For example

  – Proposal of additional item we should monitor

  – Comment or proposal of Layout & UI improvement



THANK YOU