



Introduction to WIS Centers

Enrico Fucile



WMO OMM

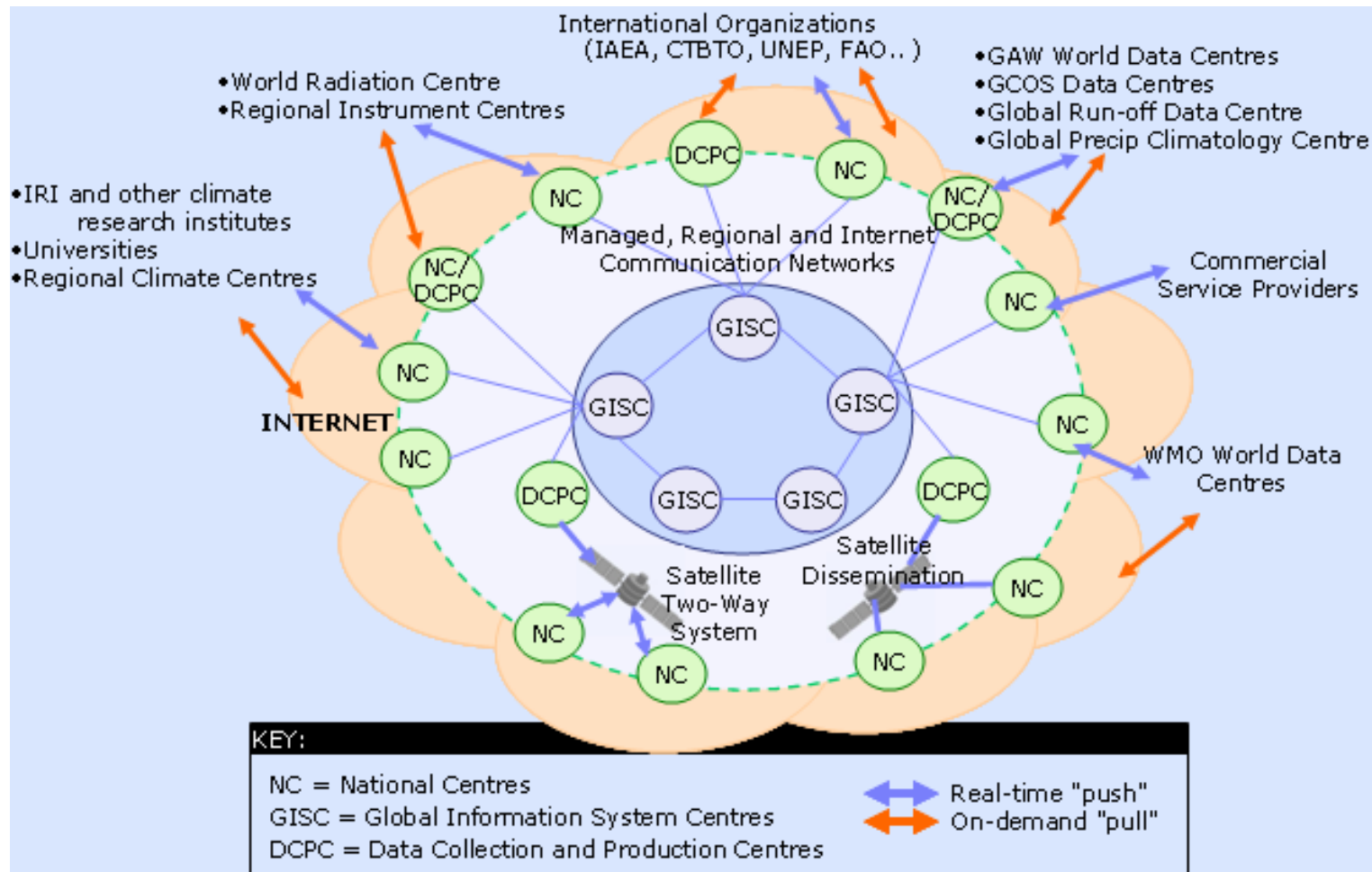
World Meteorological Organization
Organisation météorologique mondiale

WIS services

- Routine **collection** and **dissemination** service for time-critical and operation-critical data and products:
 - real-time “push” mechanism
 - Mostly (but not only) dedicated telecommunication means providing a guaranteed quality of service.
- Data **Discovery, Access and Retrieval (DAR)** service:
 - “pull” mechanism
 - through the internet
- Timely delivery service for data and products
 - delayed mode “push” mechanism
 - combination of dedicated telecommunication means and internet



WIS core components



WIS Centres

Global Information System Centres (**GISC**)

- **Receive observational data and products** that are intended **for global exchange from NCs and DCPCs** within their **area of responsibility**;
- **Disseminate**, within its area of responsibility, the entire set of data and products agreed by WMO for routine global exchange;
- **Hold the entire set of data and products** agreed by WMO for routine global exchange **for at least 24 hours** and make it available via WMO request/reply ("Pull") mechanisms;
- **Provide around-the-clock connectivity** to the public and private networks at a bandwidth that is sufficient to meet its global and regional responsibilities;
- **Co-ordinate with the Centres within its area of responsibility** a WIS telecommunications infrastructure that can meet the WIS requirements.
- Ensure that they have procedures and arrangements in place to provide **swift recovery or backup of their essential services in the event of an outage** (due to, for example, fire or a natural disaster);

WIS Centres

Data Collection or Production Centres (DCPC)

- **Collect data and products intended for dissemination** to NCs within its area of responsibility (i.e. regional collections)
- **Collect special programme-related** data and products;
- Produce regional or specialized data and products;
- **Provide data and products intended for global exchange to their responsible GISC;**
- Disseminate information not intended for global exchange;
- Describe their products according to an agreed WMO standard and provide access to this **catalogue of products** and provide this information as appropriate to other centres, in particular a GISC;
- Ensure that they have procedures and arrangements in place to provide **swift recovery or backup of their essential services** in the event of an outage (due to, for example, fire or a natural disaster);

WIS Centres

National Centres (NC)

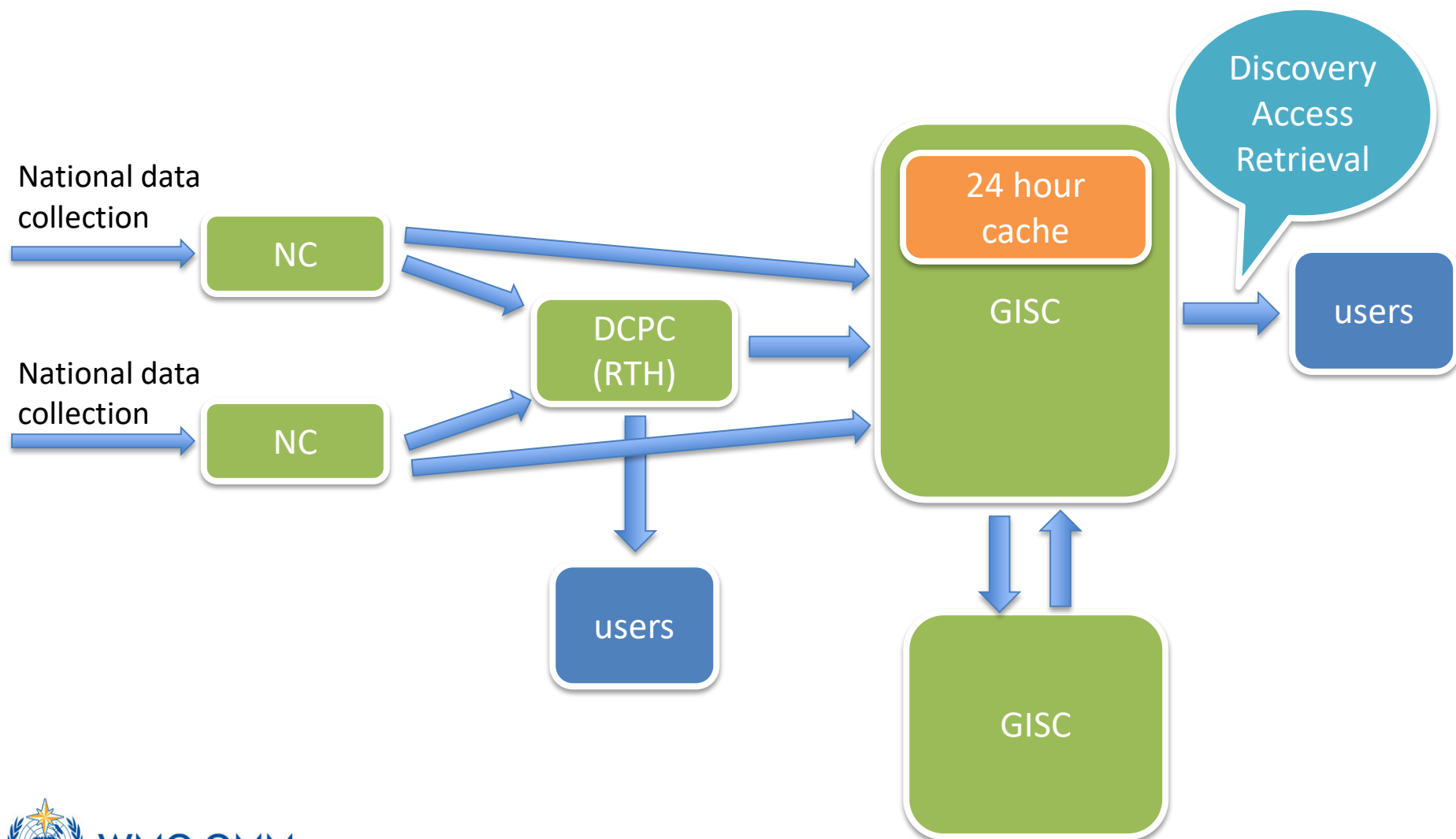
- **Collect observational data from within their country**
- Collect, generate and disseminate products for national use
- **Authorize their national users to access WIS**
- Provide observations and products intended for global dissemination to their responsible GISC
- Provide observations and products intended for regional or specialized distribution to the responsible DCPC

GISCs

1. [GISC Beijing](#)
2. [GISC Exeter](#)
3. [GISC Jeddah](#)
4. [GISC Melbourne](#)
5. [GISC Moscow](#)
6. [GISC Offenbach](#)
7. [GISC Seoul](#)
8. [GISC Tokyo](#)
9. [GISC Toulouse](#)
10. [GISC Tehran](#)
11. [GISC Washington](#)
12. [GISC Brasilia](#)
13. [GISC Casablanca](#)
14. [GISC New Delhi](#)
15. [GISC Pretoria](#)



WIS/GTS Global data exchange



Thank you Merci



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