

WMO Information System at Japan Meteorological Agency

Eiji (aka Eizi) TOYODA

Japan Meteorological Agency

Cg-XVI
18-21 May 2011, Geneva



What is WIS?

- Single coordinated global infrastructure of WMO for telecommunications and data management functions

Overarching Information System of



All WMO & Related Programmes



For GTS centres:

- ▶ WIS is *not* a new different network
- ▶ Part A:
 - Continued enhancement of GTS
- ▶ Part B:
 - Extension to more flexible service:
i.e. DAR (data discovery, access & retrieval)
 - Inclusion of non-WWW programmes



Overarching system of systems

- ▶ Existing communities & systems continue to evolve
- ▶ Interoperability is added on top of that

WIS Interoperability				
World Weather Watch	Climate	Satellite	Global Atmos. Watch	...



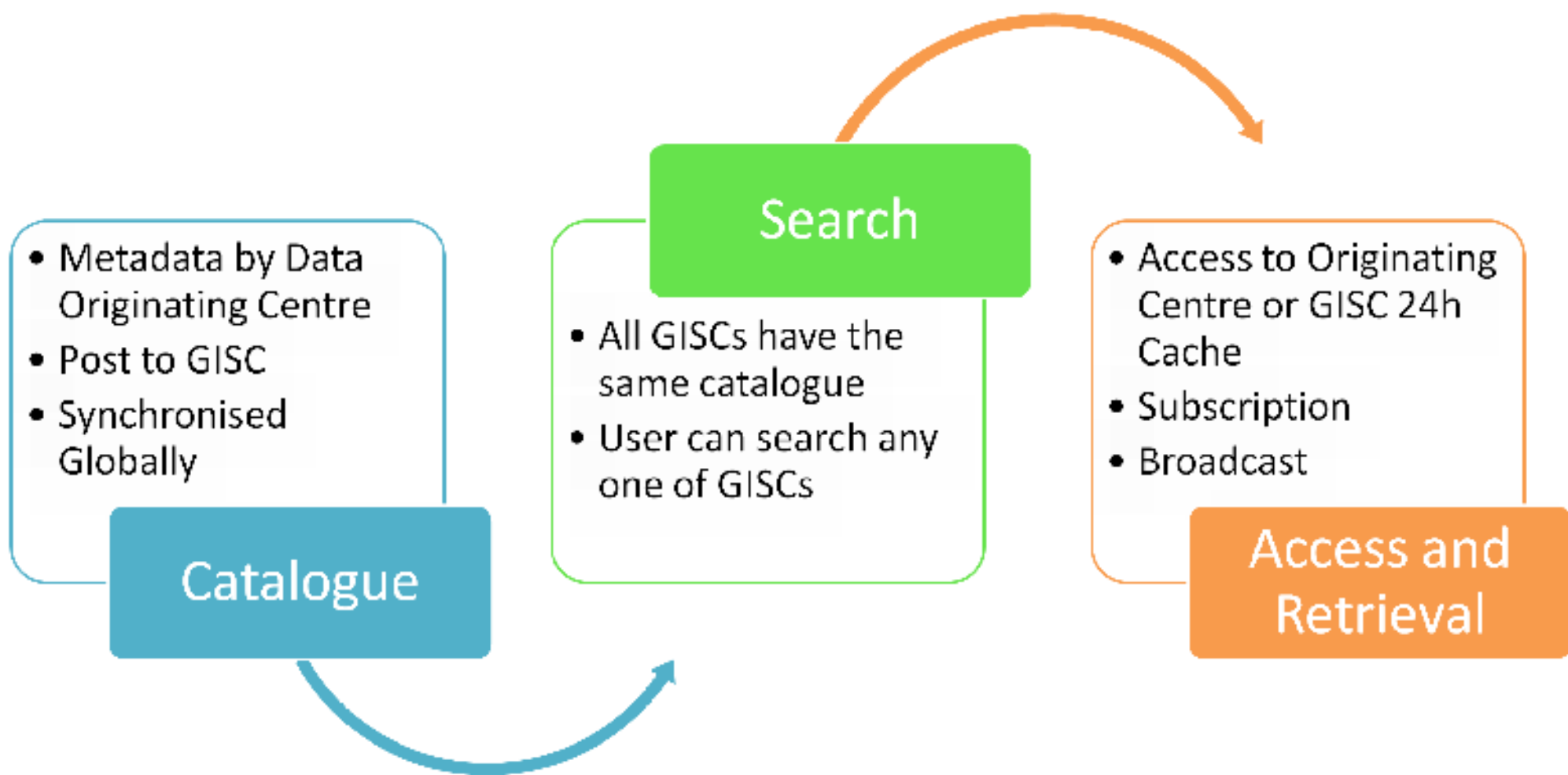
Aspects of interoperability

DAR

- ▶ Catalogue: *now hot issue*
 - Not only GTS messages
 - But also data of many DCPCs
- ▶ Data services
 - GISC Cache: provides GTS data on Internet
 - Diverse protocols, but Catalogue link to all
- ▶ Data formats
 - WMO Code form and widely-used standards
 - Future agenda with OGC



DAR: discovery, access, retrieval



Metadata: elements of catalogue

- ▶ Created by data provider
 - Will replace bulletin catalogue
- ▶ Collected to GISC
- ▶ Synchronised among GISCs
 - OAI-PMH is
WIS standard
protocol



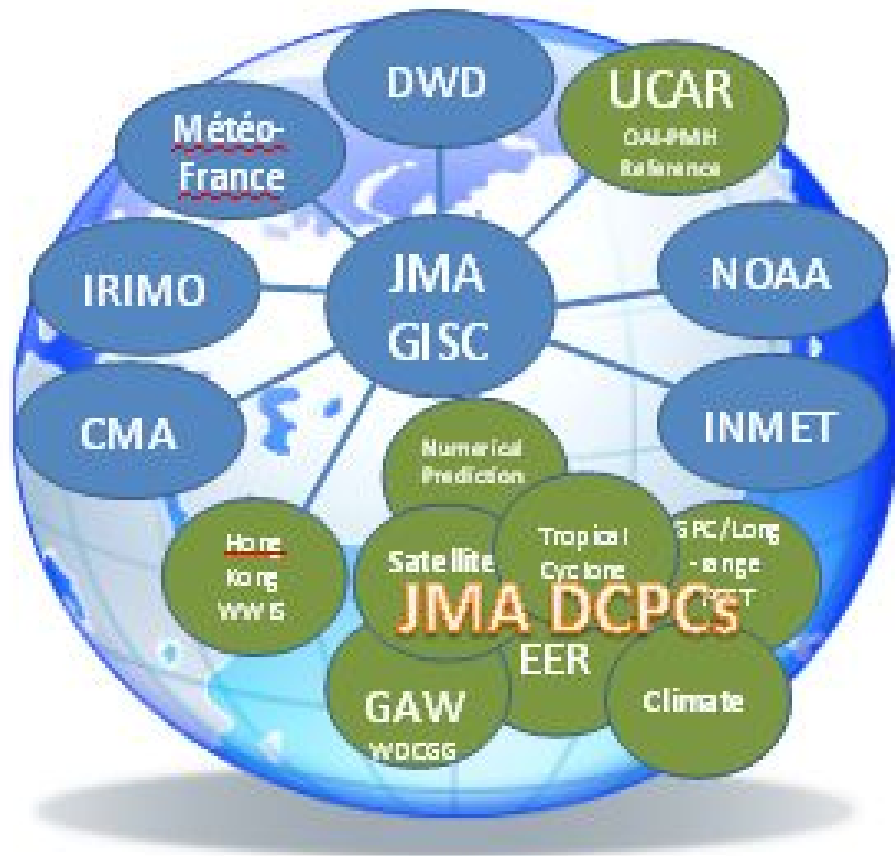
Metadata for GTS data

- ▶ It's you: all NCs are supposed to manage
 - But please don't get scared!
- ▶ Meteo-France will circulate first-cut metadata
- ▶ GISC Tokyo will support later maintenance
 - Won't be so much different from existing management of bulletin catalogue



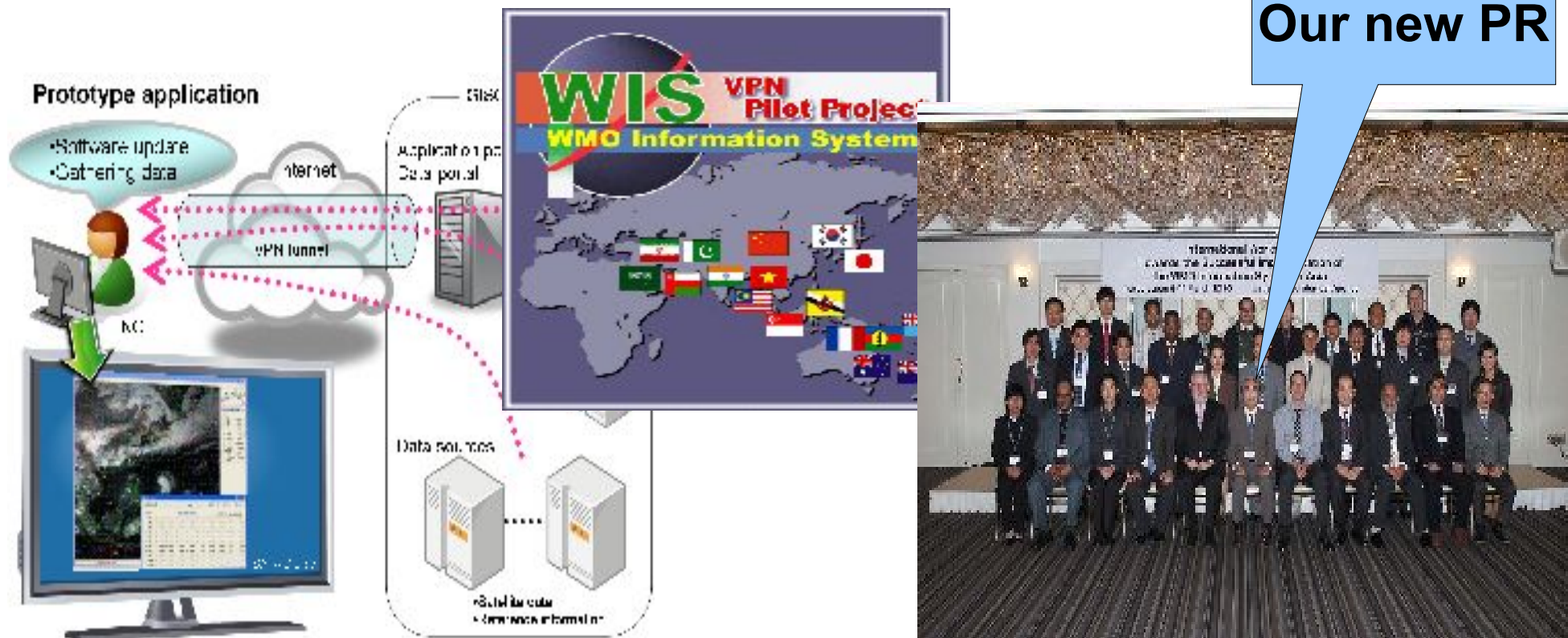
Development cooperation

- ▶ JMA running metadata synchronisation with GISCs and DCPCs
- ▶ Interoperable with all other catalogue implementations



Capacity building

- ▶ RA-II/V pilot project since 2003
- ▶ 2010 March workshop



For more information, please contact:

Dr TOYODA Eizi
Japan Meteorological Agency
toyoda.eizi@gmail.com

