



WMO OMM

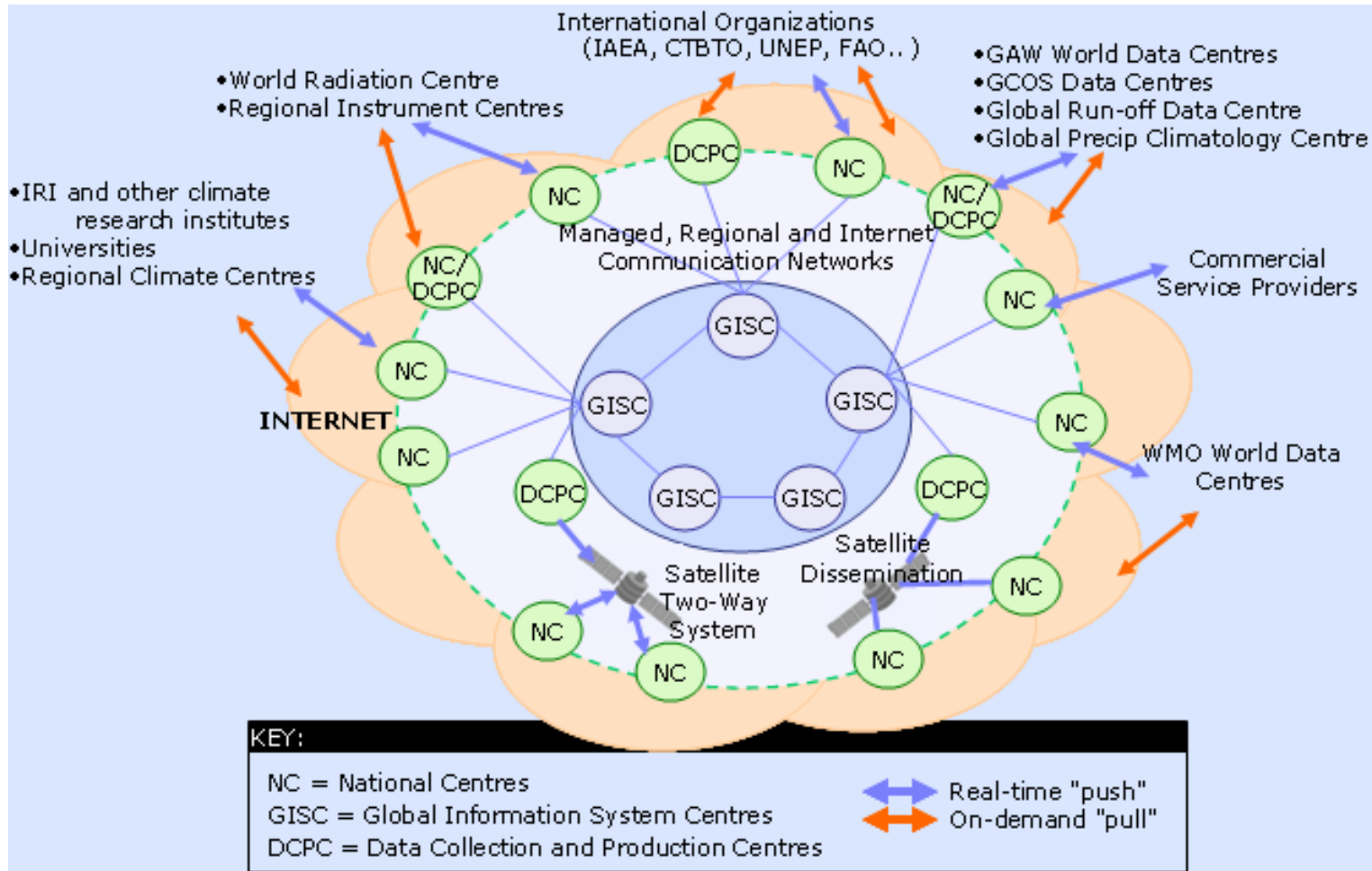
World Meteorological Organization
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WIS 2.0

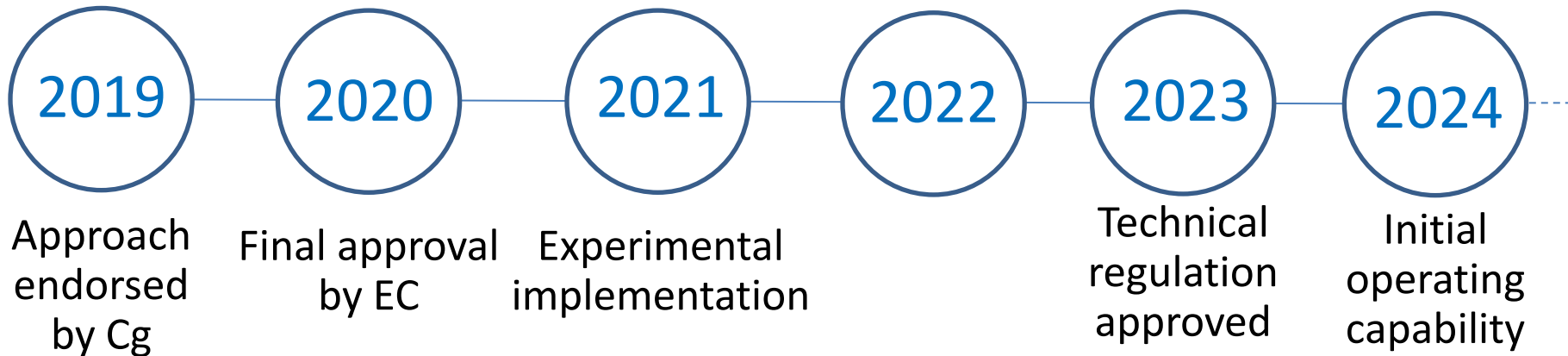
Enrico Fucile

Chief DRMM Division

WIS core components



WIS 2.0 Implementation



WIS 2.0 Implementation approach

- 11 Principles providing a technical framework
- Recognition that WIS 2.0 is heavily dependent on industry.
- Workshop on Future Technology (19-20 March) to align the framework with the industry plans.

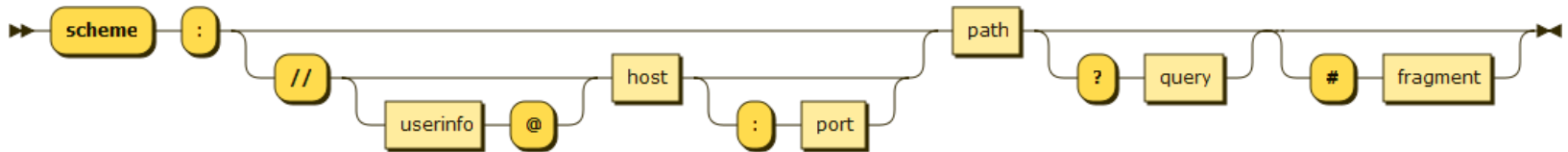
WIS 2.0 Principles

1. **WIS 2.0: adopts Web technologies and leverages industry best practices and open standards**



WIS 2.0 Principles

2. WIS 2.0: uses **Uniform Resource Locators (URL)** to identify resources.



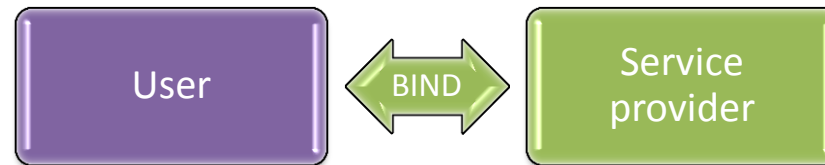
WIS 2.0 Principles

3. WIS 2.0: prioritizes use of **public telecommunications networks** (i.e. Internet) when publishing digital resources .



WIS 2.0 Principles

4. WIS 2.0: requires provision of **Web services / APIs** to access or interact with digital resources published using WIS.



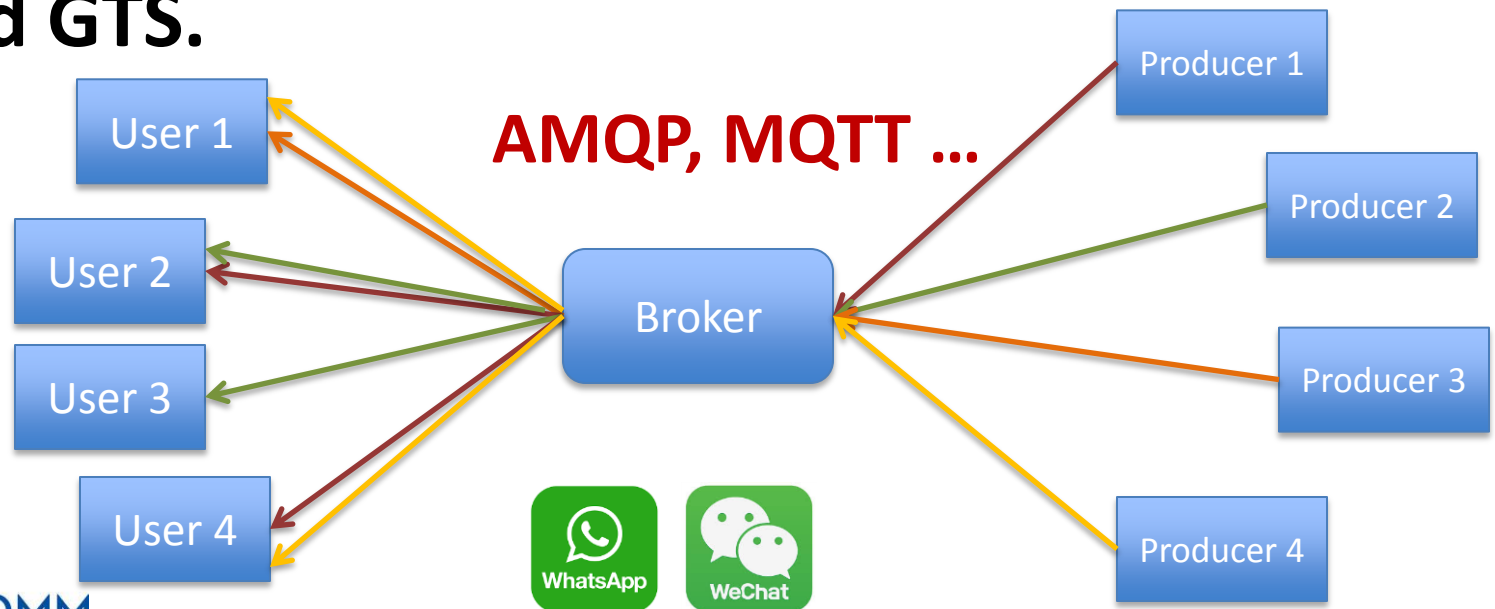
WIS 2.0 Principles

5. WIS 2.0: encourages NCs and DCPCs to provide **'data reduction'** services via WIS that **process 'big data'** to create results or products that are small enough to be **conveniently downloaded** and used by those with minimal technical infrastructure.



WIS 2.0 Principles

6. WIS 2.0: will add **open standard messaging protocols** that use the **publish-subscribe** message pattern to the list of data exchange mechanisms approved for use within WIS and GTS.



WIS 2.0 Principles

7. WIS 2.0: will require all services that provide **real-time distribution** of messages (containing data or notifications about data availability) to **cache/store the messages for a minimum of 24-hours**, and **allow users to request cached messages for download**.
8. WIS 2.0: will adopt **direct data-exchange** between provider and consumer.



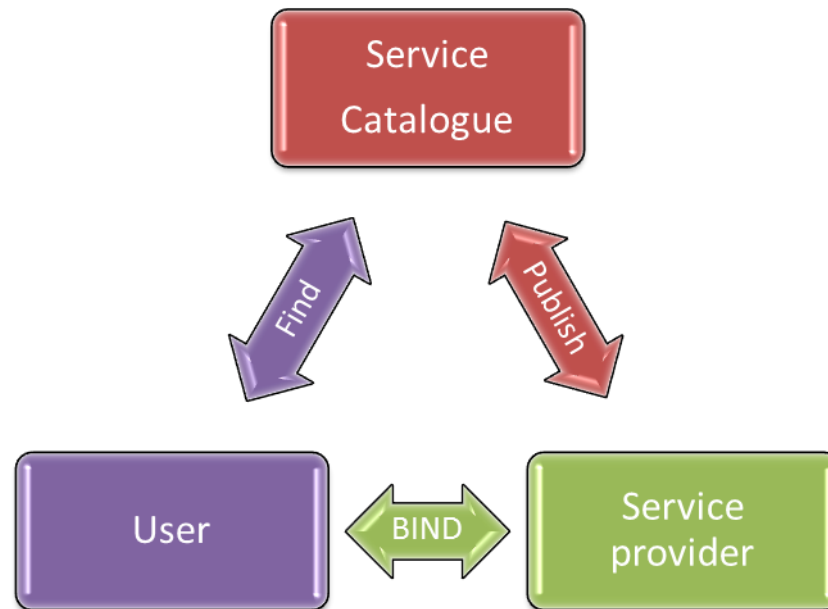
WIS 2.0 Principles

9. WIS 2.0: will phase out use of routeing tables and bulletin headers.

T1T2 A1A2 ii CaCa YYGGgg CCCC

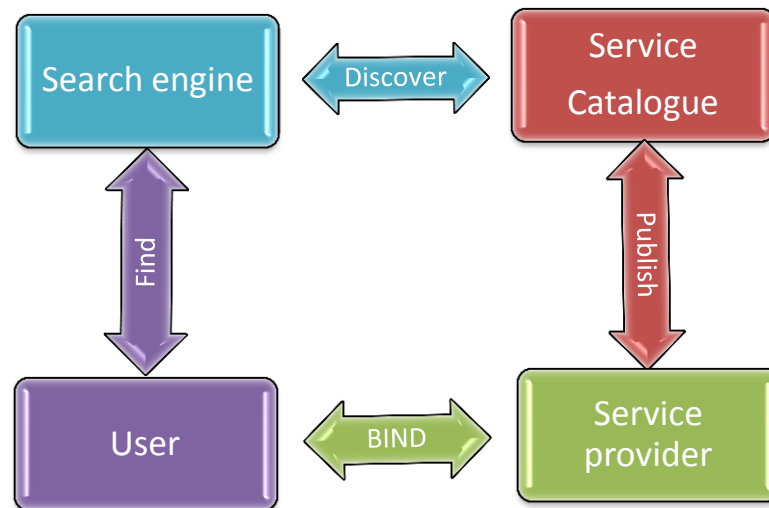
WIS 2.0 Principles

10. WIS 2.0: will provide a **Catalogue containing metadata that describes both data and the service(s) provided to access that data.**



WIS 2.0 Principles

11. WIS 2.0: encourages data providers to publish metadata describing their data and Web services in a way that can be **indexed by commercial search engines**.



Thank you Merci



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