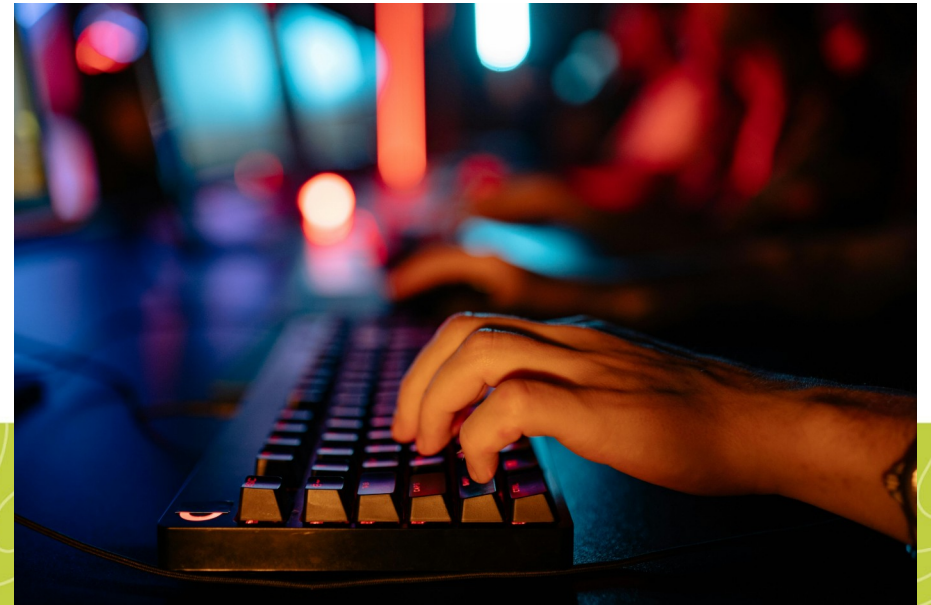


Hands on WIS 2.0

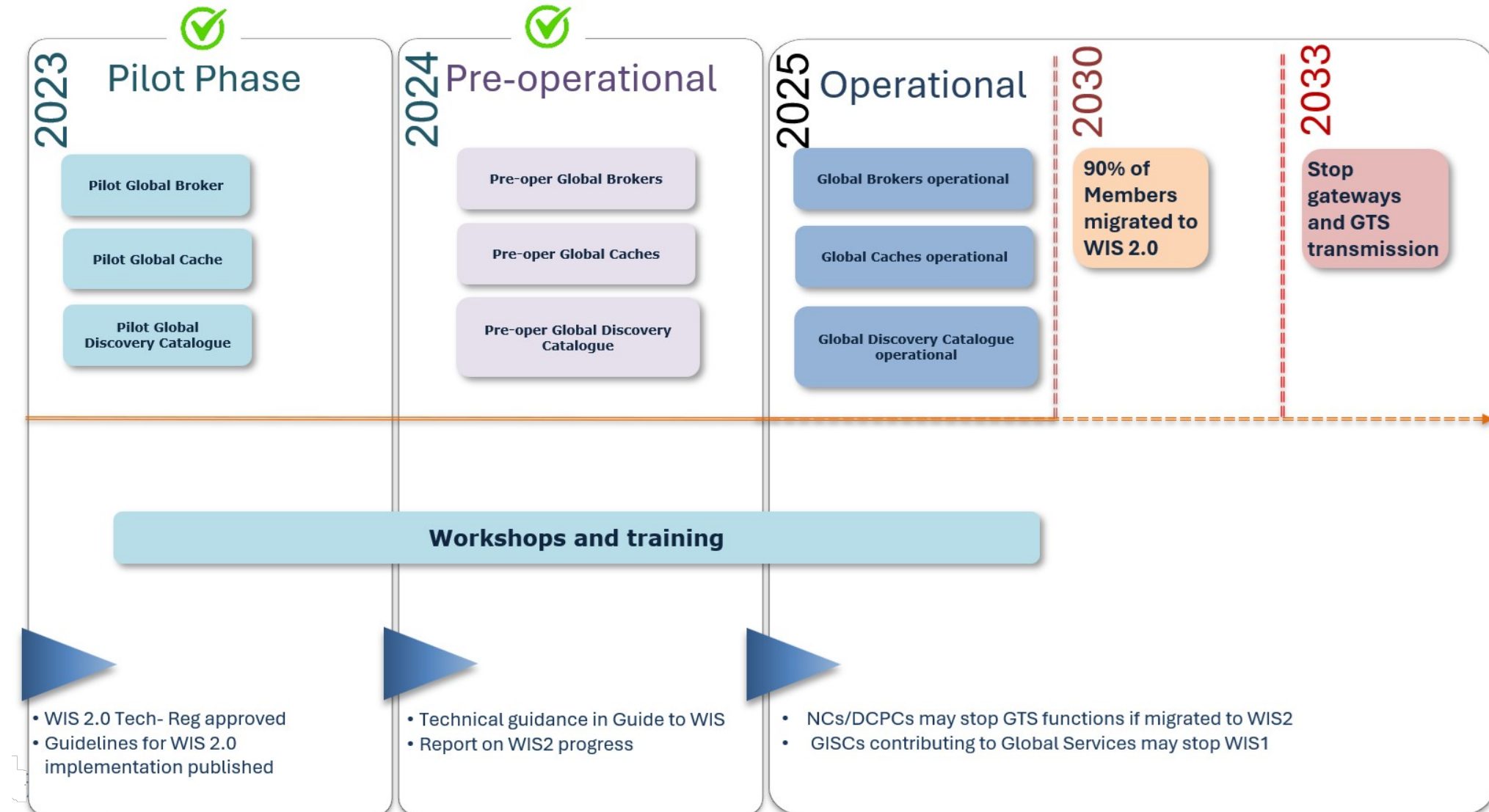
Database Group

Johann Dorn

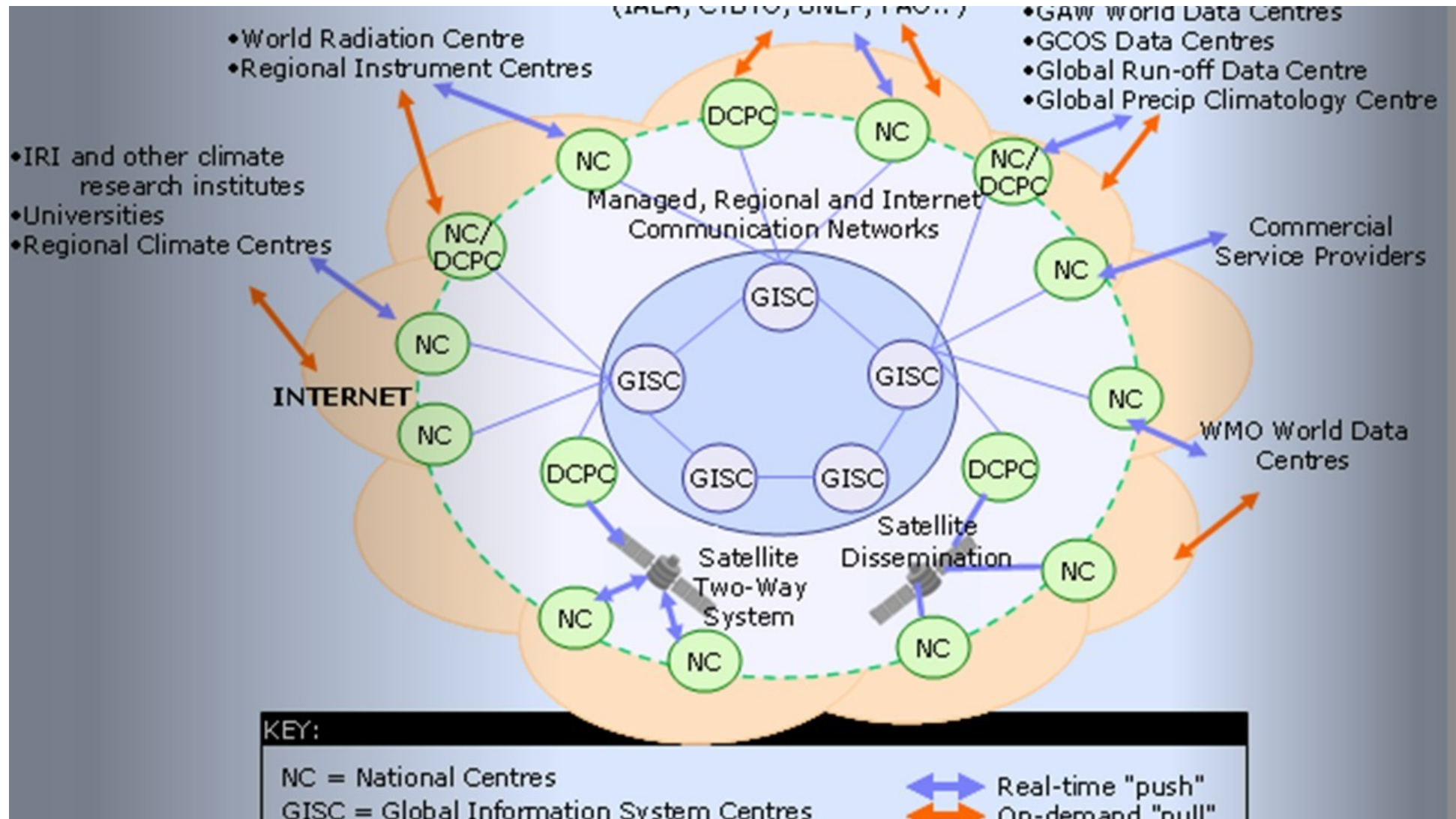
johann.dorn@geosphere.at



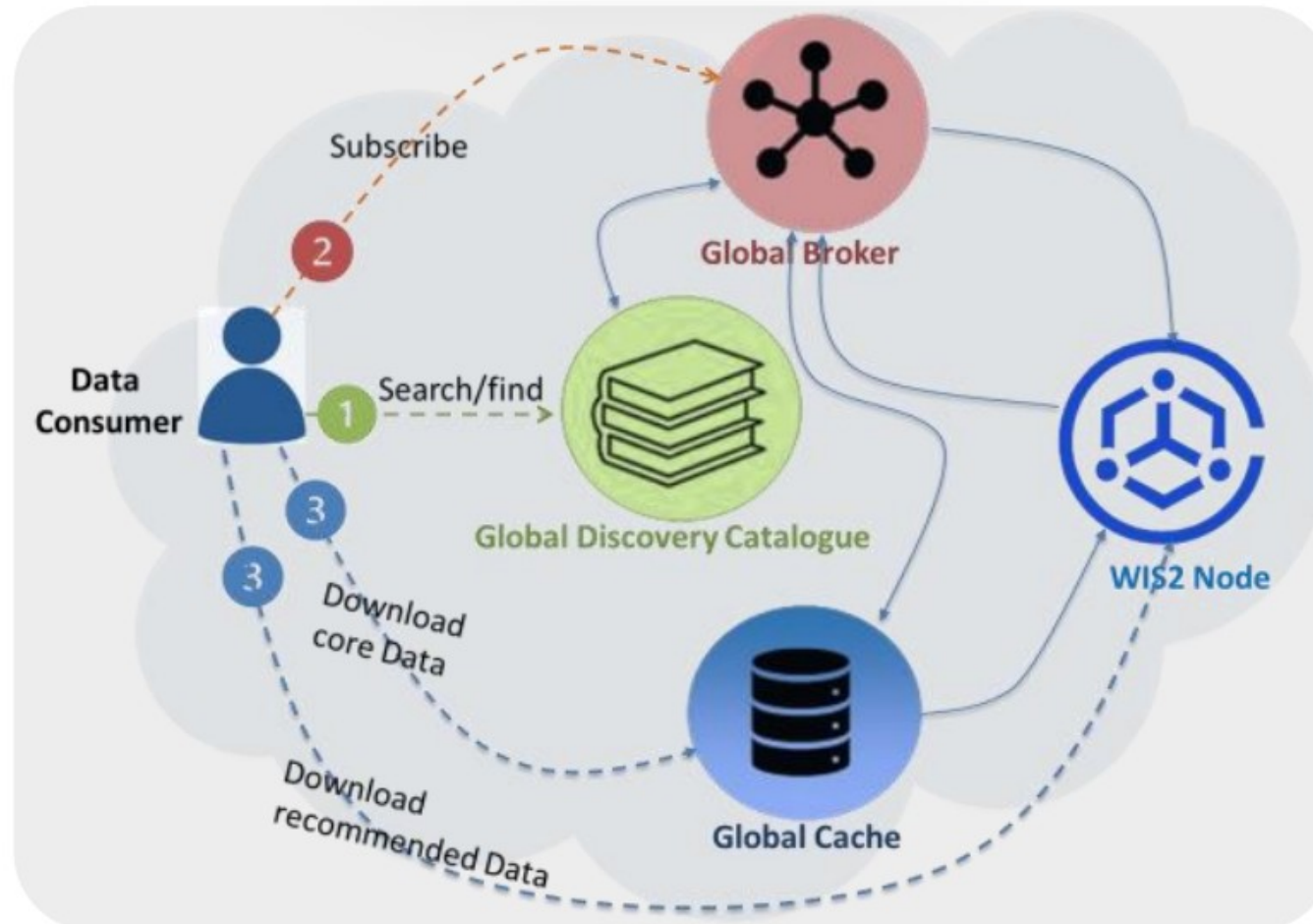
05. November 2025



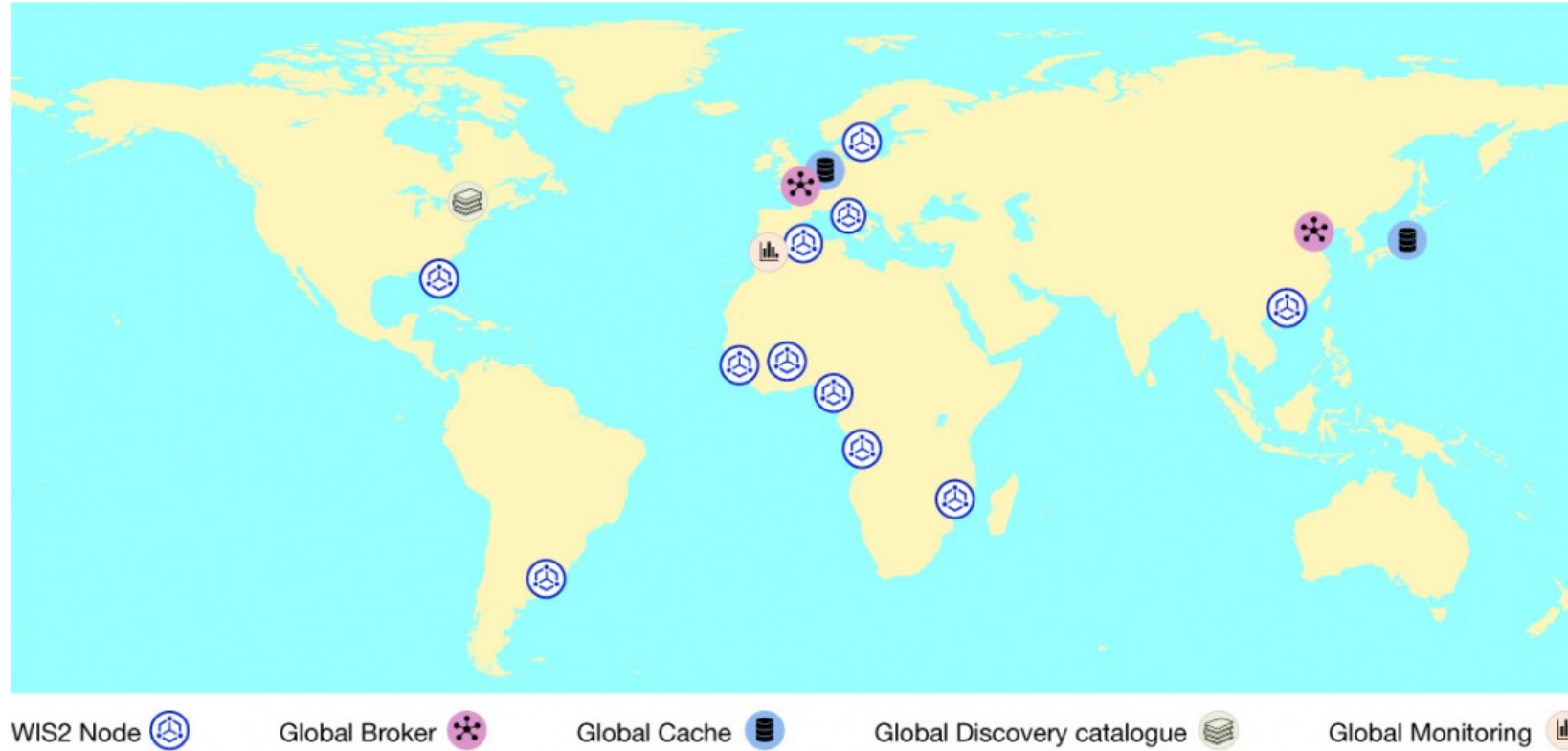
- https://community.wmo.int/en/GTS_WIS2_Transition_Guidance



WIS 2.0



<https://community.wmo.int/en/wis2-global-services>



<https://www.ecmwf.int/en/newsletter/176/computing/wis-20-wmo-data-sharing-21st-century>

- **Principle 1:** Each NMHS (national meteorological service) will be able to make the migration during the agreed **period 2025-2030**.
- **Principle 2:** **No GTS data loss** during the transition.
- **Principle 3:** Each Centre will **decide when** decommissioning the WIS1 and GTS.
- **Principle 4:** New data (eg. GBON, **Climate**, Hydrology, Cryosphere) will be exchanged solely on WIS2.



- 2 separate WIS2 nodes in Austria
- 2 software packages are tested:
 - wis2box
 - IBL Moving Weather
- Recommendation to Generale Directorate
- WIS2 Q&A session by RTH DWD



origin/a/wis2/+/data/core/climate/surface-based-observations/daily

Level	Name	Examples
1	channel	origin,cache
2	version	a, b, c, ...
3	system	wis2
4	centre-id	at-geosphere, ...
5	notification type	data, metadata
6	data-policy	core, recommended
7	earth-system-discipline	climate, hydrology, weather, ...

- https://codes.wmo.int/wis/_topic-hierarchy
- <https://wis2grep.kma.go.kr/>



- <https://www.hivemq.com/demos/websocket-client/>

- **host:** globalbroker.meteo.fr

- **port:** 443

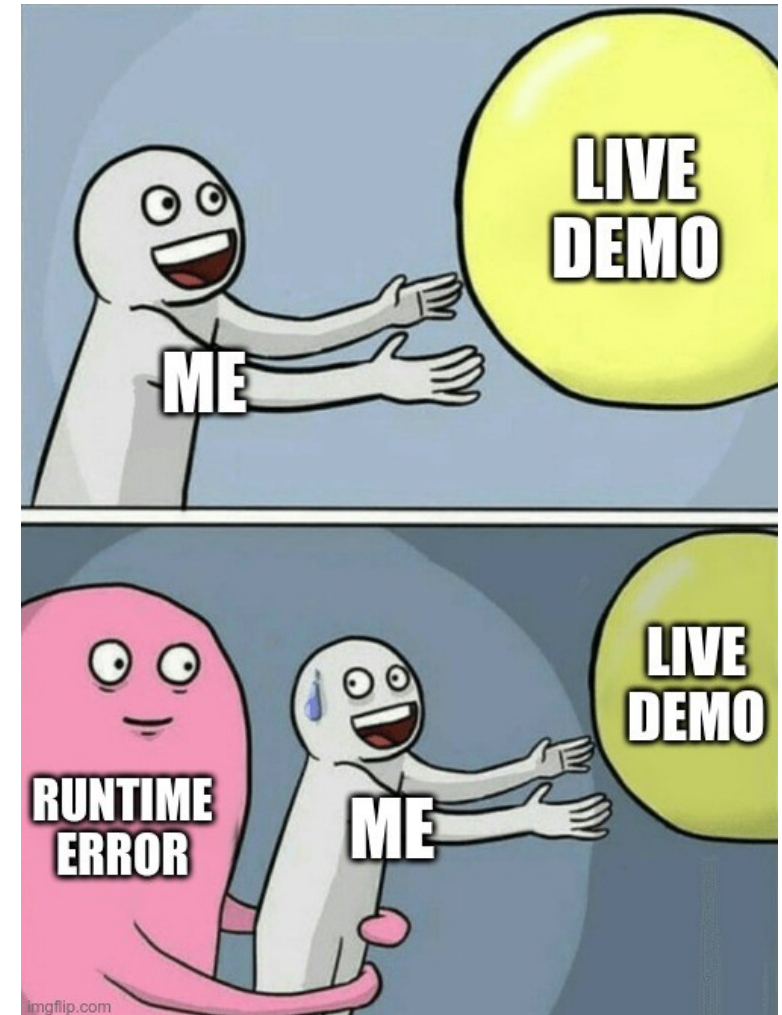
- **user** everyone

- **topic:** origin/a/wis2/+/data/core/#

- <https://jsonpretty.org/json-to-table>

- <https://wis2grep.kma.go.kr/>

- <https://tableconvert.com/csv-to-html>





- WIS2 uses **internet infrastructure**
- WIS2 builds on **free and open standards**
- WIS2 is (rather) **easy** for reading data
- GTS will be **end-of-life** 2030 (2033)
- **Climate data** on WIS2 will increase



THANKS FOR YOU ATTENTION