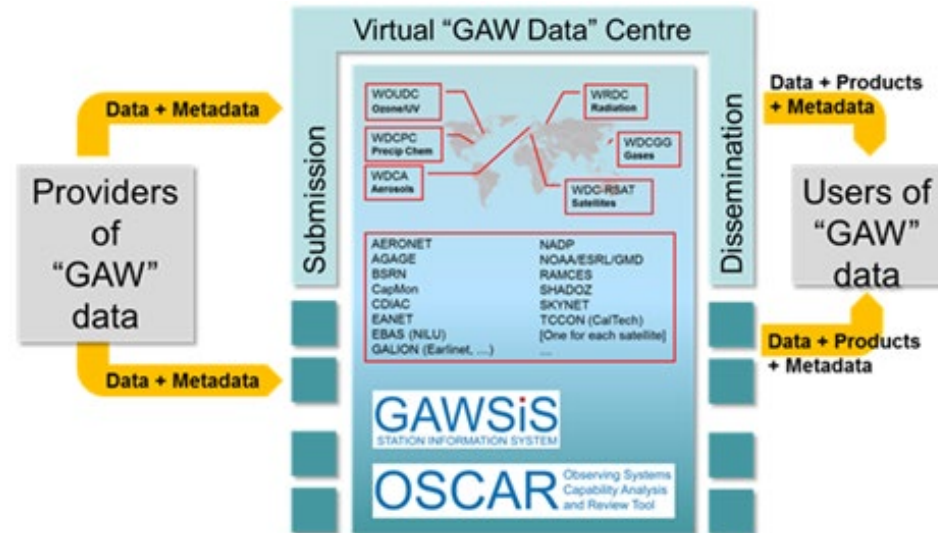
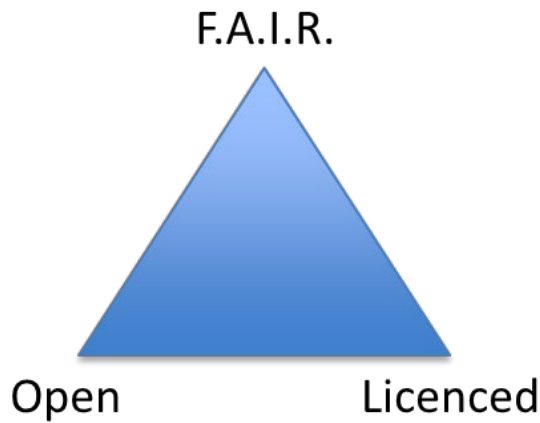
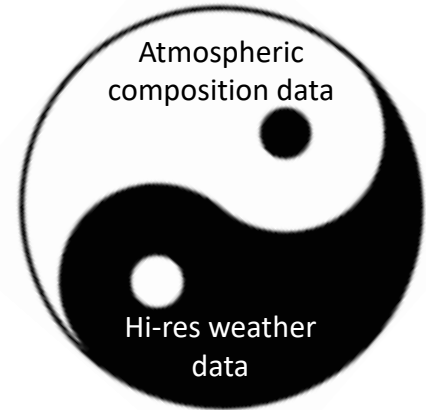


Requirements and approaches for Data collection and exchange of atmospheric composition data in WMO

WMO Expert Team on Atmospheric Composition Data Management



Science for services



Services for science

A unified WMO data policy supporting Open and F.A.I.R. exchange of all data and the application of licences is welcomed by atmospheric composition data providers and users and will help to improve science and services for the benefit of society.



WMO OMM



GAW

Data collection and exchange of atmospheric composition data in WMO

WMO Expert Team on Atmospheric Composition Data Management

Requirements

Research data required by diverse service providers, operational data required by research

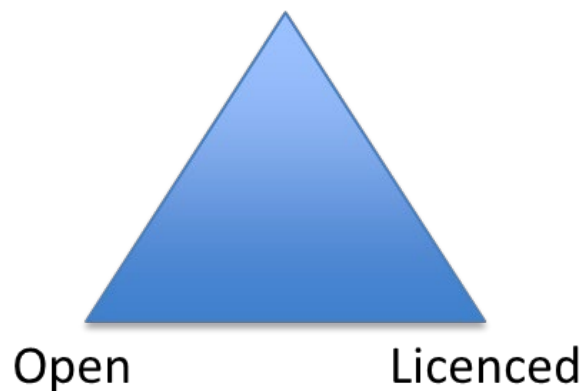
- Data on atmospheric composition with appropriate spatial and temporal resolution and adequate metadata.
- Access to high resolution meteorological information to drive atmospheric transport and process models.

Approaches

Atmospheric composition observations range from legally required to scientifically driven, but almost exclusively **publicly funded**

- Diverse Ownership of data
- Different but similar data policies in place: Mostly based on **open and fair exchange**; **Data licences** dominated by Creative Commons (CC)

F.A.I.R.



‘Open’ means ‘free and unrestricted’.
‘F.A.I.R.’ data are findable, accessible, interoperable and reusable.
 A **‘data licence’** is a legally binding agreement between the data provider and the data user that may or may not impose restrictions on the use of the data.

Role of WMO Resolution 42

It is recommended that WMO encourages **Open and F.A.I.R. data exchange** for all data and endorses an approach where all data exchanged (essential and additional) carry a **licence** that clearly documents conditions and restrictions (or no conditions) on their use.

Atmospheric composition research needs free access to hi-res weather data!

