



OpenWIS® Association

Stronger Together

For the benefits of its Members and the WMO Community

Version 3.0 – January 2021

Background

- 2009/2010, the UK Met Office, Meteo France initiated the project, and soon after Korean Meteorological Agency, Australian Bureau of Meteorology and Meteo France International decided to join their efforts to develop a software solution offering WIS functions for all type of Centers:
 - The OpenWIS software
- 2011, the Partners agreed to create a Consortium in order to maintain, further develop and licence the OpenWIS® software
- 2013, the partners resolved that the OpenWIS Association should take legal form and signed a Memorandum of Understanding concerning the establishment of the “OpenWIS Association”
- 2014, NOAA/NWS and FMI joined the Association
- 2015, Institut Royal de Météorologie agreed to host the OpenWIS Association and the articles of the Association are published in the Moniteur Belge and the Association is therefore officially created
- 2017, ECMWF joined as an Associate Partner
- 2018, India Meteorological Department joined the Association



The Members



Met Office



FINNISH METEOROLOGICAL INSTITUTE



KMA
Korea Meteorological Administr



METEO FRANCE INTERNATIONAL



Australian Government
Bureau of Meteorology



OpenWIS Association

- International Non-Profit Organization governed by the laws of Belgium
- Aims:
 - Facilitate collaboration on the development, promotion and sharing of open source software for the management and exchange of meteorological information;
 - Foster cooperation and coordination within the meteorological community on the management and exchange of meteorological information
- Purpose
 - encourage coordination and cooperation between OpenWIS Members and Partners in areas of collective interest
 - manage and undertake open source software development
 - participate in calls for proposals in respect of externally funded projects



OpenWIS Association

- The OpenWIS Association provides a global **delivery framework** for collaborative, open-source software development:
 - Governance
 - Funding
 - Licensing
 - Code management
 - Testing
 - Development policies & procedures
 - Issue & change management
 - Build & release
 - Documentation
 - Project web site

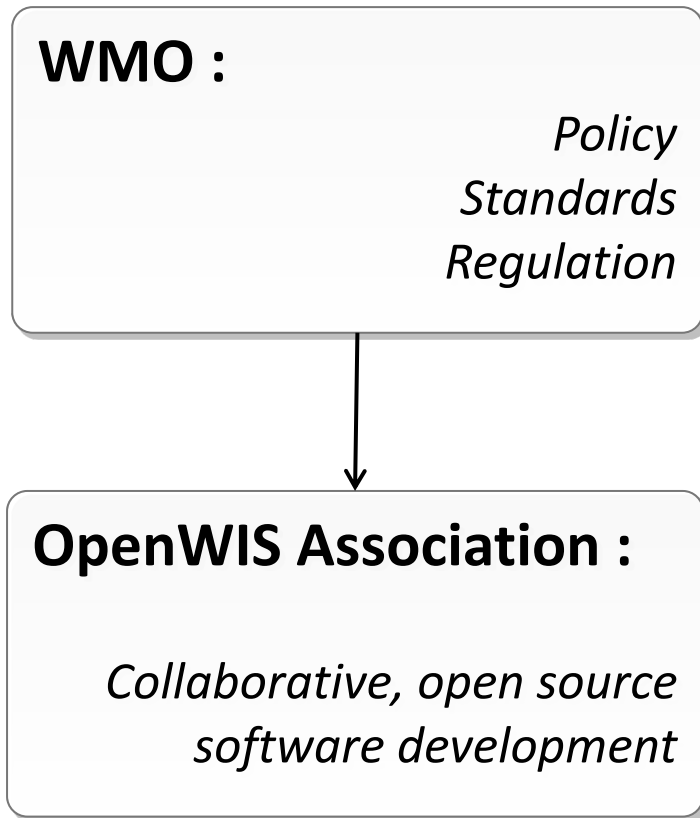


Why an Association?

- We collaborate because we desire to share costs and benefit from collective knowledge
- All of this started with the OpenWIS software
 - Working together to develop a software solution compliant with the WIS
 - Establishing a framework to nurture this software
- Establishing formal collaborations on a case by case basis is inefficient and expensive
 - Creating an association to welcome new members as Strategic Partners, Associated Partners or Contributors to a particular project
 - Defining working methods to host additional projects



OpenWIS Association



- OpenWIS Association is **complementary** to WMO's mission
- The OpenWIS **delivery framework** allows the meteorological community to efficiently pool resources in response to changes in policy, regulation and standards
- OpenWIS Association: an umbrella for many projects



Roles and management structure

The Project Management Committee (one per project)

- Manages the technical issues related to the Project
- Runs and manages all software development
- Collects software requirements
- Manages Contributor License Agreements from software developers
- Makes any technical decisions that may be necessary to the efficient and effective running of the project

The Technical Committee

- Monitors, guides, and influences the software architectures used by the Projects
- Mentors the new Projects
- Maintains and reviews the OpenWIS® Development Process.
- Advises the Steering Committee on the above matters
- Organises annual « Developer Conference »

The Board

- Manages the day-to-day activities of the Association
- Admits of any person as a member
- Alters Association Articles, Internal Rules
- Grants the status of an OpenWIS® Partner
- Decides on the budget of the Association
- Establishes projects
- Review the work and guide Steering Committee and Technical Committee

The Steering Committee

- Makes recommendations to the Board concerning financial matters and creation of new projects
- Can create other teams or ad hoc committees
- Is responsible for ensuring that the OpenWIS® software continues to meet the evolving needs of the WIS and WIS centres, operates efficiently, remains secure and conforms to relevant standards
- Decides upon membership and composition of Technical Committee
- Creates and dissolves Project Management Committees

The OpenWIS® Software

- The OpenWIS® Software is widely used around the global by many Centers.
- It is fully compliant with the WIS requirements and is available, free of charge, with a GPLv3 license.



OpenCDMS project

- In 2020, the WMO community working on the development of an OpenCDMS compliant software contacted the Association in order to host the development
- The Board meeting of the Association welcomed the proposal, and the project is now part of the Association
- In the coming years, it should provide a Reference Open Source Data Management System for atmospheric, hydrological, marine, phenological, composition and other environmental data with a time-series component



The future: WIS2

- As highlighted in the WIS2 strategy, the solution will be built on standards and as much as possible on off the shelf solution.
- Nevertheless, there are always part of the overall solution that will require additional software e.g.:
 - as WIS2 is envisaged as an evolution and not a revolution, there will be a need in “glueing” together WIS2 related software (eg. pub/sub broker) and legacy equipment (MSS)
 - additional monitoring functionalities for our operational needs
 - ...
- Consequently, when the time will come, the Openwis Association will launch a WIS2 software project



How to contribute ?

- The Association offers different means to contribute
 - Using the various open source software provided and giving feedback
 - Signing a Contributor Licensing Agreement and participate in the development (software, documentation,...) of one or more projects
 - Joining the association
 - Contributing partners to support in kind or in money the work of the Association
 - Associate partners can be members of the Technical Committee. They can influence all technical related choices on all the software projects supported by the association
 - Strategic partners are members of the Steering Committee. They can influence all strategic related choices and defines the overall orientation of the Association



Stronger together for open source solutions

- In order to server our users, WMO will have to adopt a new pace for implementing changes
- Many WMO projects (WIS2, WIGOS, GFCS,...) will require significant evolution on the technical solutions used by the NMHSs.
- We believe that contributing to open source software is the most efficient way to proceed
 - We can share the cost of development and maintenance and provide top-class solutions that can be widely used by many sites
 - We need fully operational and mature system ready for our activities
 - We need to be interoperable inside and outside meteorology
 - We need to reduce the Total Cost of Ownership of the solutions employed



Joining the OpenWIS Association

- The OpenWIS Association:
 - Provides a global delivery framework for collaborative, open-source software development
 - Has a solid base of members from multiple WMO regions
 - Is well structured to host multiple projects
 - Has already proven its effectiveness with the OpenWIS software
- By contributing to one or more software project, or by joining the Association as a Contributing, Strategic, Associate partner, you can also be part of this success story.
- More information on www.openwis.io or by sending an email to contact@openwis.io

Come and join us!

