UNESCO-IHP WINS:

A key tool in the implementation and monitoring IHP VIII activities

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Beirut – Lebanon

"Data is the new oil. Data centres are the factories of the 21st century. Data is the lifeblood of decision-making. It provides the raw material for accountability"

Ban Ki-Moon, former United Nations Secretary-General
during his official visit to Republic of Korea, Umoon
at two forums on May 20 2015

WINS is a geographical information platform

Welcome to IHP-WINS

Système de réseau d'information sur l'eau (IHP-WINS)

Le Programme hydrologique international (PHI) fondé en 1975 et mis en œuvre par séquences programmatiques ou phases de six ans, entre dans sa huitième phase (PHI-VIII) pendant la période 2014-2021. Il se consacre à la recherche dans le domaine de l'eau, à la gestion des ressources en eau, ainsi qu'à l'éducation et au renforcement des capacités.

Layers   Map   Users

# What is the Water Information Networking System (WINS)?

Objectives:

- To become a *global reference* for water-related decision makers and stakeholders at all levels.
- To store, share and analyse data on water resources
- To allow access to *open data from several sources* (UNESCO-IHP, other UN programmes, regional organizations, countries, etc.) and at various levels
- To support *decision-makers and stakeholders* involved in governance and management of water resources
- To *build capacity* in knowledge management

What is the Water Information Networking System (WINS)?

More than a database, WINS is:

A geographical information platform
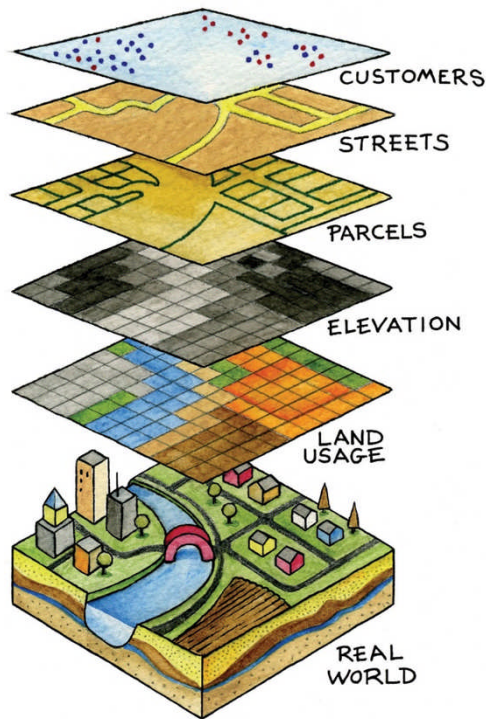
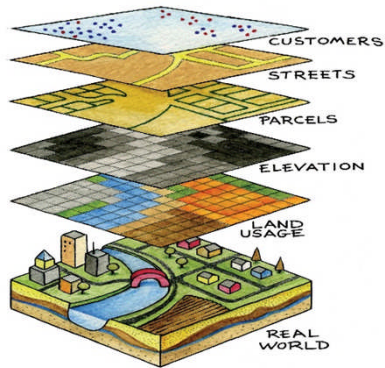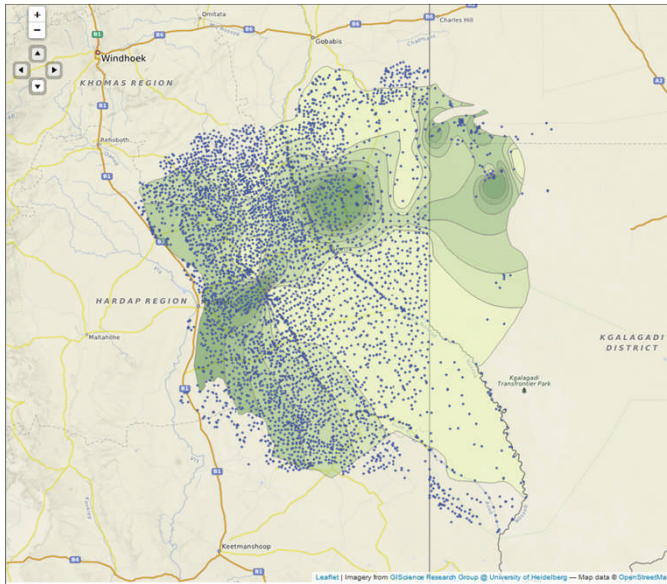**A knowledge sharing platform**

A networking platform

WINS is a Geographical Information System

WINS is a geographical information platform

Data are in the form of LAYERS that are georeferenced (i.e. all data have coordinates)

LAYERS can be uploaded, viewed, downloaded, and **OVERLAID**
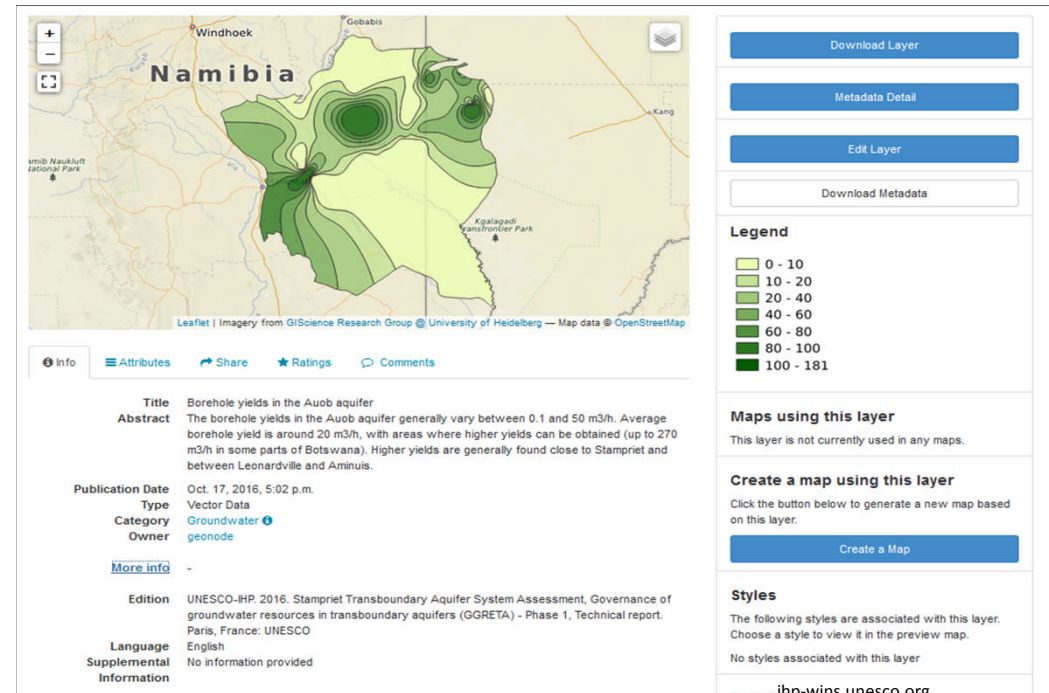

This creates **MAPS** that can be:
- printed,
- Saved on WINS,
- Exported (in image format: PDF, JPEG, etc...)

Ex: Boreholes and boreholes yield in the Stampriet aquifer (Namibia, Botswana, South Africa)

WINS is a geographical information platform

Each layer has **METADATA** that show all information related to the layer:
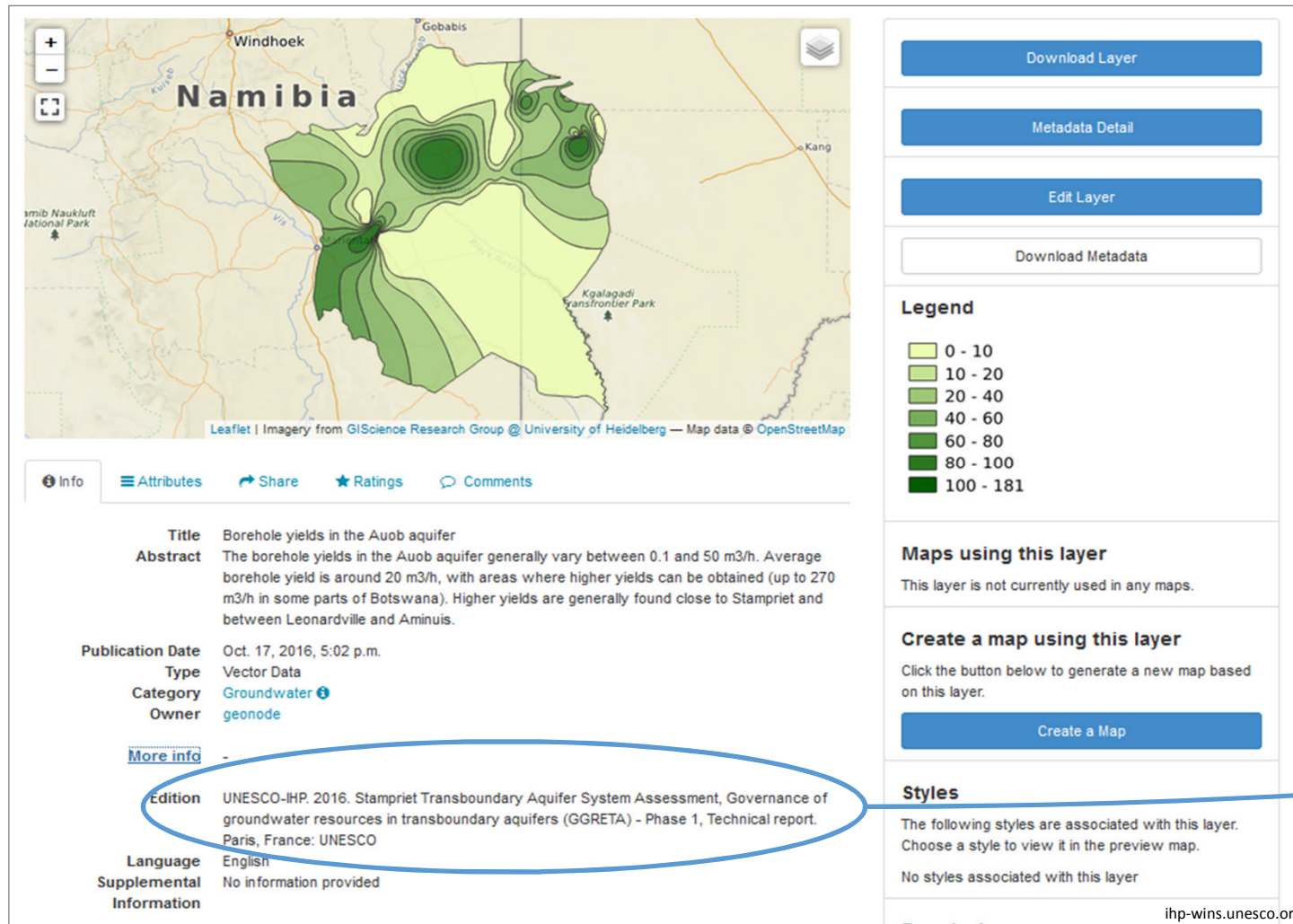
- Owner,
- Author,
- Date,
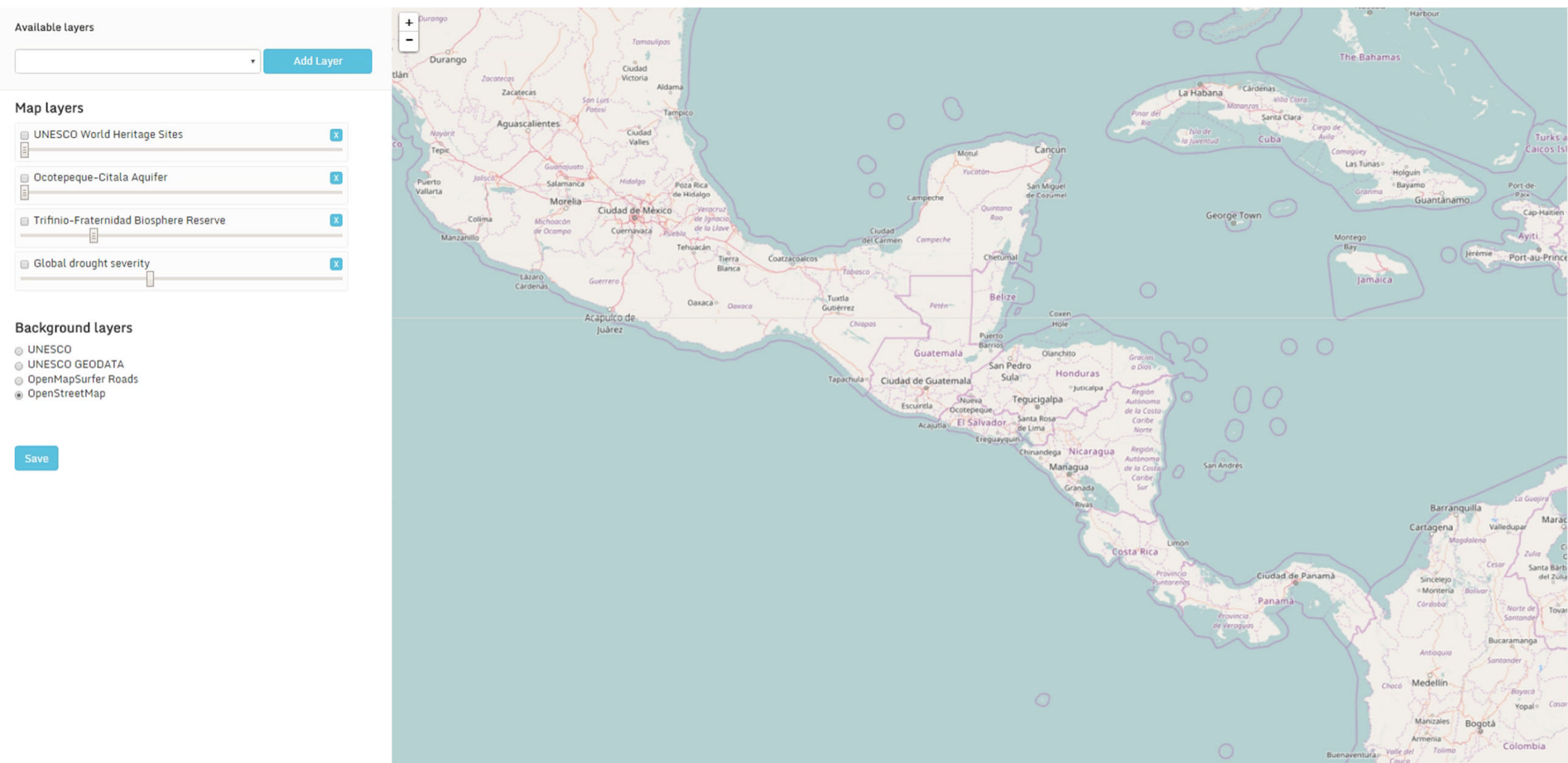- Source,
- Abstract,
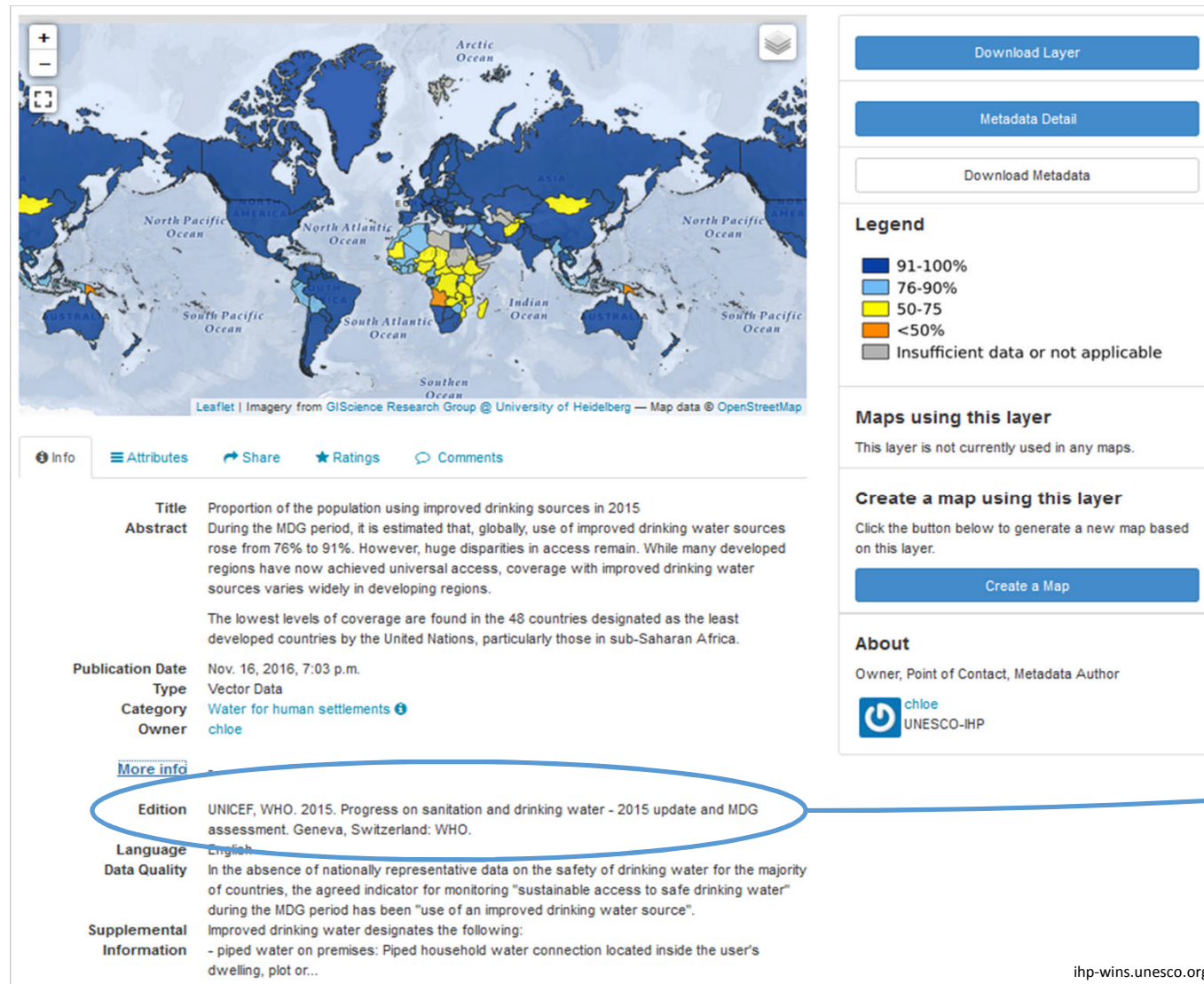- Contact person, etc.

Data at regional level

Data collected in the framework of a UNESCO-IHP project, and officially validated by Botswana, Namibia and South Africa

WINS data can also be OVERLAID

Available layers

[▾] [Add Layer]

Map layers

☐ UNESCO World Heritage Sites   [X]

☐ Ocotepeque–Citala Aquifer   [X]

☐ Trifinio-Fraternidad Biosphere Reserve   [X]

☐ Global drought severity   [X]

Background layers

○ UNESCO
○ UNESCO GEODATA
○ OpenMapSurfer Roads
◉ OpenStreetMap

[Save]

Proportion of the population using improved drinking sources in 2015

Data at country level

Data from a UN organization source

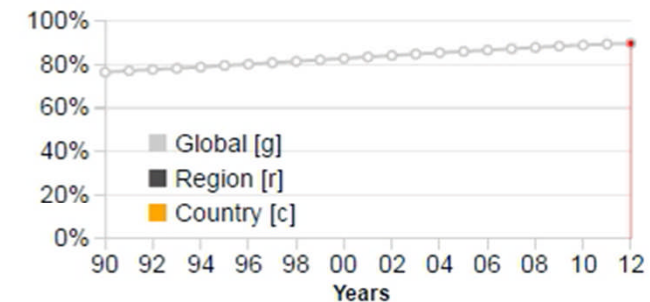Access to improved water supply by country, on average [2012]

Access to water % of the pop.

UNICEF, WHO.
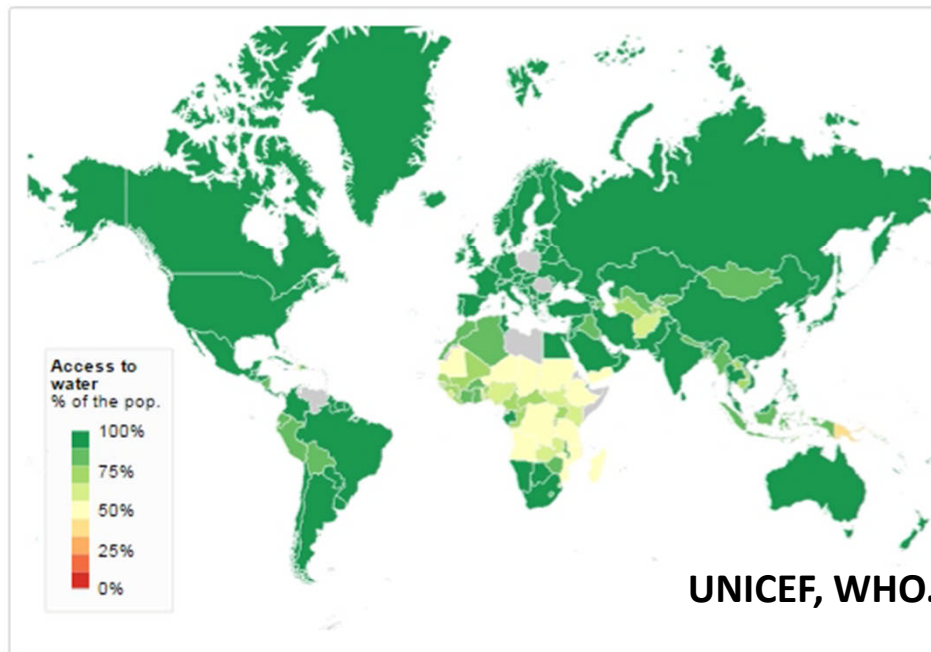
Country details

Select a country or click the curves

Focus (UNICEF regions)

- Global
- Industrialized countries
- Central and Eastern Europe, CIS
- East Asia and the Pacific
- South Asia
- Middle East and North Africa
- Eastern and Southern Africa
- West and Central Africa
- Latin America and the Caribbean
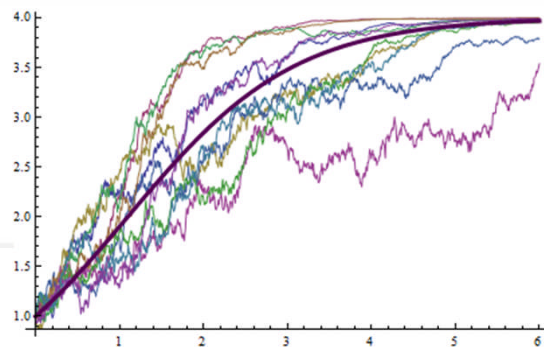
Options

Choose time series to display: Access to...

water supply ▼ on average ▼

Animation controls:

Pause | Replay
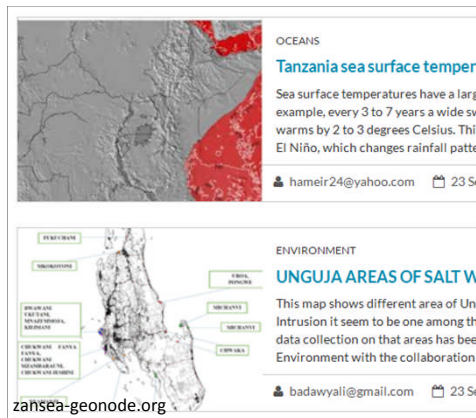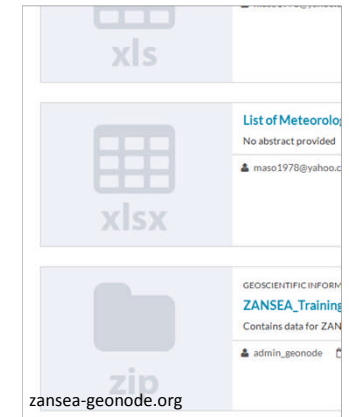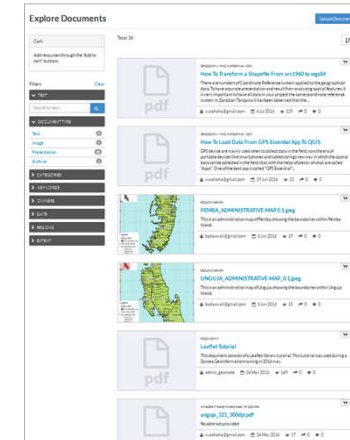
Choose animation speed: (milliseconds per year)

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WINS is a knowledge sharing platform

WINS is a knowledge sharing platform

Various types of DOCUMENTS can be stored and accessed on WINS (e.g. databases, reports, graphs, tables, videos, webinars, …)

DOCUMENTS can be viewed, printed and/or downloaded.

zansea-geonode.org

zansea-geonode.org

This allows to create an INSTITUTIONAL MEMORY of the work related to water resources

As for layers, each document has METADATA that give all information: owner, author, date, source, abstract, contact person, etc.

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WINS is a networking platform

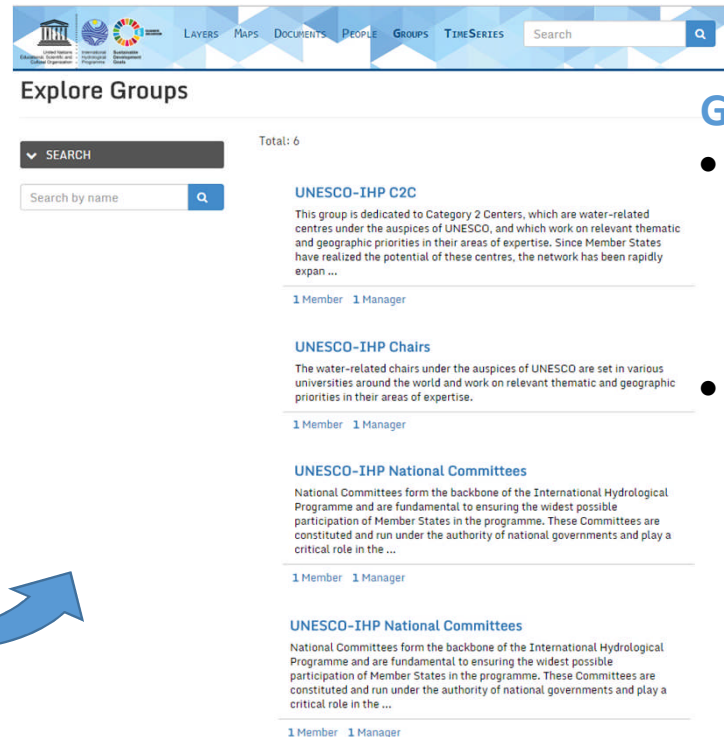# WINS is a networking platform

USERS and **GROUPS** membership allow people to network.

USERS can be members of **GROUPS**

Chloé
Email
Position
Organization
Location
Voice
Fax
Description
Keywords

ihp-wins.unesco.org

USERS
provide information on their activities (e.g. comments, documents rating, upload of information, etc...)

GROUPS:
- can be created for Member States, organizations, UNESCO-IHP sections, etc.
- have **MANAGERS** who are **GROUP** admins

GROUP can be:
- public
- public on invitation
- private

In a **GROUP**, members can **EXCHANGE MESSAGES** and update on other's work

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How data will be uploaded?

Data is uploaded by **USERS** belonging to a **GROUP**, composed of **USERS** + **MANAGER**

A **USER** uploads data

The **USER** fills the metadata and sets data as "private"

A **MANAGER** checks work done by its **USERs**. After checking, he can change the permissions for data and make it public

UNESCO-IHP does the final and overall data format before data are released publicly

Until data and metadata are checked by an experienced **MANAGER**, they cannot go public, to avoid spreading errors.

MANAGERS can decide on:
- who can view the data
- who can download it
- who can update metadata
- who can edit styles
- who can manage it (update, delete, change permissions, publish/unpublish it)

Upload Layers

Drop files here

or select them one by one:

Browse...   No files selected.

Files to be uploaded
Select the charset or leave default

UTF-8/Unicode

Clear   Upload files

Edit Metadata

Editing details for geonode:jmpwater2015last

Update

Owner
chloe

Title
Proportion of the population using improved

Date
2016-11-16 07:08 PM

Date type
Publication

Edition
UNICEF, WHO. 2015. Progress on sanitation and

Abstract
During the MDG period, it is estimated that, globally, use of improved drinking

Permissions

Who can view it?

☑ Anyone
The following users:
Choose users...
The following groups:
Choose groups...

Who can download it?

Who can change metadata for it?

Who can edit data for this layer?

Who can edit styles for this layer?

Who can manage it? (update, delete, change permissions, publish/unpublish it)

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hope-initiative.net

UNESCO's Hydro free and/or Open-source software Platform of Experts (HOPE)

HOPE - INITIATIVE .net
for Africa

Search form

SYMPOSIUM

International Symposium 2016

October 1, 2016 — 0 Comments

TRAINING

Training in FREEWAT Software 2016

TAGS

FOSS   HYDROLOGY   MODELING

OPEN SOURCE   SDG   SOFTWARE

SOIL   SYMPOSIUM   TRAINING

WATER   WORKSHOP

Advantages of WINS

Accessible, interactive and user friendly platform for a wide audience

State of the art technology:
- *Open source and extendable IT architecture* - - - - - ➤ ❋ GeoNode
- Federated data search
- Non-commercials tool with *reduced maintenance costs*
- Less dependent on specific technologies and vendors
- WINS has no cost for the Member States

Sustainability:
- WINS is a direct contribution to IHP's Intergovermental process and part of the Intergovernmental Programme, which ensures its sustainability.

Advantages of WINS

Data security and reliability:

- **Data is hosted and safely stored at UNESCO HQs server**
- **Protected workspaces** to store, process and visualize information
- **Transparency through data rating system and possibility to leave comments**
- **Immunity on data**

WINS is in line with international standards on:

- Sharing of information (WMS, WFS, SOS)
- Connect to external data sources and systems

"IHP-WINS' graphical representation of reliable data is one of the most powerful ways to raise understanding of one of the most complex problems – it will help decision makers".

Jack Moss, Executive Director,
International Federation of Private Water Operators (AquaFed)

L'EAU