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Applying European market leadership to river basin networks and spreading of innovation on water ICT models, tools and data.

Deliverable D 7.1
Draft tutorials and multimedia products

Version 3.1

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3.0	21/07/2016	AL	Final report
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2. Selection of the products to be promoted by WaterInnEU

The first task of WP7, task 7.1, foresaw the analysis of the material produced from the outcomes of the other WPs of the project and in particular of WP4, WP5 and WP6 to prepare the information on which the e-learning material will be based. Other Open Educational Resources (OER) material were examined and used as reference for structuring the e-learning and the multimedia material.

In order to select the products to be promoted by the WaterInnEU market place and that were the object of the e-learning material the following steps were carried out:

- Establishing a baseline of products, this activity consisted in collecting all the material prepared in previous deliverable for data collection such as 2.1 Data availability report, Water companies and solutions report.
- Carry out a first screening of the products of the EU funded projects available. Different criteria were used to cut out a first number of products from the available list such as:
 - Obsolescence,
 - Innovation,
 - Availability of concrete products as results of the projects,
 - Openness of the products (open source were preferred),
 - The existence of a team still able to support the products,
 - The relevance with the topics of WaterInnEU (EU WFD, etc.),
 - Wider applicability, products that could address only a specific issue in a specific geographic place were not considered,
 - Availability of information about the project.
- Once the first pre-screening was carried out, a deeper project analysis took place. This activity consisted in analysis of all the projects of the database established in the previous mentioned reports. The projects were grouped in the following clusters according to thematic (Annex 1):
 - Flood
 - Droughts
 - Agriculture and Irrigation

- GIS& Earth Observation related projects
- River Management, Ecosystem& Restoration
- Water Quality

In annex 1, the complete list of projects analysed are listed.

- Definition of the selection procedure and criteria, this activity consisted in defining together with the consortium the most relevant criteria for the selection process for the WaterInnEU market place. In addition to the other criteria above listed, other criteria were added for this deeper analysis such as:
 - Marketability,
 - Attractiveness for existing SMEs,
 - Attractiveness for the river basin case studies of WaterInnEU,
 - Willingness from the consortium of the project developing the product to collaborate with WaterInnEU,
 - Balance of products for different topics.
- Based on these long list, thanks to the de a short list of products was drafted (Annex 2). Out of this last list some of these products were selected to be the subject of the work of the e-learning. In the following paragraphs, they will be presented.

3. Task 7.3 Draft Tutorials and multimedia products

3.1.1. The draft material for the e-learning and tutorials

The e-learning courses and the multimedia products were designed in order to comply with the objectives of the project and of this specific Work Package.

The information and data gathered in previous WPs were to develop training materials in order to carry out an e-learning course. The course will have also to contribute to a worldwide dissemination of EU funded activities in the water sector and promote the use of relevant international water standards.

The final list of e-learning courses that will be produced and included in the e-learning platform of the WaterInnEU Marketplace are the following:

- **Aquasurvey**
- **REFRAN-CV**
- **Impact Toolbox**

- **Guidos Toolbox**
- **Weiss**
- **ASR and SUBSOL**
- **Skill exchange and mentoring**, in addition, another tutorial will be included for the specific task 7.4 of the WP7, concerning skills exchange and mentoring.

For this specific deliverable, ADESBA and ASR will not be included because the contact with the DESSIN consortium (responsible for the development of both products) was defined too late, and not enough material was available. In addition, most of the material for the two project is in German and when available it will require time for translation that was not foreseen in the work package. Finally, in total the number of e-learning courses with tutorials will be 8.

The e-learning tutorial will include presentations, videos, documents, manuals, references etc.

In the next paragraphs. As the e-learning platform will be ready only at the end of the project as foreseen, in this deliverable the e-learning tutorials are presented in this document and all the material is available at this link:

http://www.waterinneu.org/deliverables/E_learning_WaterInnEU.zip

This is a temporary repository for this draft version of the e-learning material, the final version will be integrated to the WaterInnEU marketplace platform. This next future integration is explained in corresponding Deliverable

http://ddd.uab.cat/pub/worpaper/2016/148387/641821_D6.1_-

[_First virtual Market Place report.pdf](#)

In the next paragraphs an overview of the e-learning tutorial will be given.

3.1.2. Aquasurvey

AQUASURVEY is a software to manage field campaigns for data collection. AQUASURVEY supports users through all the necessary steps to carry out field data campaigns such as: the design of the survey, the management of the field operators, the collection of data using mobile devices, and the integration of data collected in GIS or statistical software. This process does not need an Internet connection during data collection. In fact, the mobile app

includes several offline options to overcome Internet connection problems or absence during the implementation of field campaigns.

This tool allows to monitor and geo-reference ongoing survey, and to integrate data collected by different surveyors. It can also produce customised graphs and statistics, which can provide an overview of collected datasets through automatic reporting.

The AQUASURVEY consists of two components: one desktop component for designing the survey, assigning the work to surveyors and managing results; and a mobile app for Android devices for carrying out the actual data collection in the field.

AQUASURVEY is an open-source application, developed with European Union funding, and is free of charge.

The e-learning course is structure as follows:

- The introduction to the course
- A theoretical presentation on how to design field surveys with questionnaires with elements of statistics (this is optional)
- A presentation on how to use the different components of the software to accompany the video tutorials
- A detailed manual for reference
- 7 video tutorials:
 1. An intro to the software
 2. Desktop component – settings
 3. Desktop component – managing users
 4. Desktop component – creating surveys
 5. Desktop component – deploying surveys
 6. Mobile app – data collection
 7. Desktop component - reporting and exporting results

3.1.3. REFRAN-CV

REFRAN-CV is a software to process time series of data from ground meteorological stations (precipitation or temperature data), in order to generate spatially-explicit products (return period maps) based on the L-moments statistics. This tool and the associated products at local and regional scale can be used in the development planning process and,

concretely, to prepare investment in multi-purpose (irrigation, flood and drought prevention, environment protection) hydraulic infrastructure. L-moments statistics are used to estimate the probability distribution function of precipitation data. The L-moments have the advantage of being less susceptible to the presence of outliers and performing better with smaller sample sizes. This is of particular interest in the case of datasets where the time series lengths are heterogeneous as this is usually the case in developing countries.

REFRAN-CV is an open-source application, developed with European Union funding, and is free of charge.

The e-learning course is structure as follows:

- This introduction to the course
- A theoretical presentation on the L-moments statistics (this is optional)
- A presentation on how to use REFRAN-CV
- A detailed manual for reference
- 2 video tutorials including:
 1. How to install the software
 2. The use of the REFRAN-CV software for a case study in Venezuela

3.1.4. Impact Toolbox

IMPACT Toolbox offers a combination of remote sensing, photo interpretation and processing technologies in a portable and stand-alone GIS environment, allowing non specialist users to easily accomplish all necessary pre-processing steps while giving a fast and user-friendly environment for visual editing and map validation. No installation or virtual machines are required. IMPACT offers:

- Quick Data Visualization
- Map Visualization & Editing
- Ground Truth Collection
- Batch Processing Modules

IMPACT Toolbox is an open-source application, developed with European Union funding, and is free of charge.

The e-learning course is structure as follows:

- The introduction to the course

- A PDF as quick introduction to the main features of IMPACT Toolbox
- 2 theoretical presentations on classification
- An Impact tool classification presentation
- A specific presentation on how processing Sentinel2 data through Impact
- An Impact toolbox user guide

3.1.5. GuidosToolbox

GuidosToolbox (Graphical User Interface for the Description of image Objects and their Shapes) contains a wide variety of generic raster image processing routines, including related free software such as GDAL (to process geospatial data and to export them as raster image overlays in Google Earth), and FWTools (pre/post-process and visualize any raster or vector data). All tools are based on geometric principles and can thus be applied at any scale and to any kind of raster data. GuidosToolbox also includes MSPA (Morphological Spatial Pattern Analysis), a customized sequence of mathematical morphological operators targeted at the description of the geometry and connectivity of the image components. MSPA features and application examples are described on the MSPA-website (<http://forest.jrc.ec.europa.eu/download/software/guidos/>).

GuidosToolbox is an open-source application, developed with European Union funding, and is free of charge.

The e-learning course is structure as follows:

- The introduction to the course
- An introduction to GUIDOS GWS1_Introduction.ppt
- A theoretical presentation on MSPA (Morphological Spatial Pattern Analysis) GWS2_MSPA.ppt
- A presentation on GUIDOS' features GWS3_Features.ppt
- A presentation on GUIDOS' examples GWS4_Examples.ppt
- 2 video tutorial including:
 - o Overview of GUIDOS
 - o The use of the GUIDOS software
- A video presentations in two parts
- A detailed manual for reference

- Relevant publications on GUIDOS
- Sample data and instructions to illustrate using these tools

3.1.6. WEISS

WEISS is a Life+ project co-financed by the European Commission. WEISS or the Water Emissions Inventory is a planning Support System aimed at reducing the pollution of water bodies.

The WEISS software operates at a high geographical resolution (1 ha grid) and integrates all relevant emission sources (both diffuse and point), all transport routes, and a planning support module. It also enables the assessment of various technical and policy measures aimed at reducing the pollution loads in the water bodies.

For more information about the WEISS software <http://weiss.vmm.be/documents>

This e-learning course is about the WEISS DEMO version.

Structure of e-learning course

The material is ready but is not available at the moment as we are awaiting approval from the consortium that developed WEISS. The material will included in the deliverable D7.2 “Tutorials and multimedia software”.

- The introduction to the course.
- Theoretical presentation about the theory behind WEISS and how it works.
- A presentation on how to use the different components of the software to accompany the video tutorials
- 4 video Tutorials:
 1. Filling an empty WEISS system with emission sources
 2. Adding a diffuse source
 3. Adding the year 2012 in WEISS and importing the list of E-PRTR point sources of 2012 and adding new estimations
 4. Analysis of WEISS calculations: computation and viewing results.

3.1.7. ASR and SUBSOL

Coastal areas are the most productive and economically dominant regions of the world. The high water demand in these regions, however, puts tremendous pressure on their freshwater resources and ecosystems. This leads to problems like seasonal water shortage, saltwater intrusion, and disappearance of wetlands.

Building on national, regional and European research and innovation programs, in the past five years, a set of innovative, practical concepts have been developed for protection, enlargement and utilization of freshwater resources in coastal areas. These subsurface water solutions (SWS) combine innovations in water well design and configuration, allowing for advanced groundwater management, and maximum control over freshwater resources. SWS have been successfully piloted by public-private partnerships. These full-scale pilots have demonstrated SWS capacity to support sustainable freshwater supply in coastal areas, energy reduction, food production, and financial savings.

SUBSOL targets a market breakthrough of SWS as robust answers to freshwater resources challenges in coastal areas, by demonstration, market replication, standardization and commercialisation. The route to market includes business cases, market scans and capacity building in selected regions in Europe (Mediterranean, Northwestern Europe) and worldwide (USA, Brazil, China, Vietnam). SUBSOL will share experiences and outcomes with stakeholder groups through an online platform that will be linked to existing networks, including EIP-Water.

The SUBSOL consortium combines knowledge providers, technology SMEs, consultants, and end-users from across Europe. Our ambition is to introduce a new way of thinking in terms of water resources management, promoting the sustainable development of coastal areas worldwide. This will stimulate economic growth and will create market opportunities and jobs for the European industry and SMEs.

The material is ready but is not available at the moment as we are awaiting approval from the consortium that developed ASR and SUBSOL. The material will included in the deliverable D7.2 “Tutorials and multimedia software”.

E-learning structure DRAFT:

- 1- Video introduction to issue and solutions supplied by SUBSOL technologies (check the “video_draft” document annexed)
- 2- Presentation ppt about the explanation of the SUBSOL technologies. For instance the difference between the three technologies, the theory and the research behind, etc.

In particular the VIDEO introduction, which is the main product of this work will be organised as follows.

Duration =3-4 min

Style: video scribing for example

<https://www.youtube.com/watch?v=msnOHuPep9I&feature=youtu.be>

1-Sketch

Where do we use freshwater?

World average: 70% agriculture, 20% industry, 10% domestic use

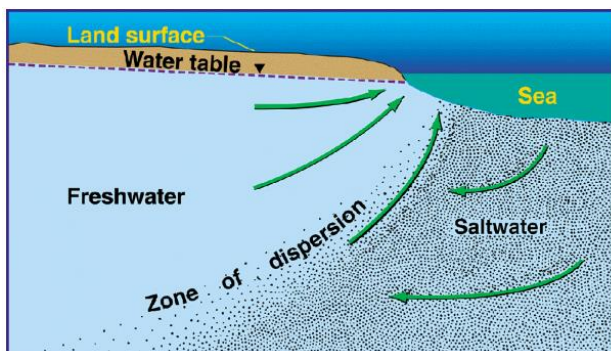
and where does the water we use come from?

2/3 ground water, 1/3 lakes, rivers and other sources

2-Sketch

Almost the 80% of the people in the world live in coastal areas and they use groundwater to live. But what happens to the groundwater next to the sea?

3-Sketch



Drawing a sketch like this.

Under natural conditions, the seaward movement of freshwater prevents saltwater from encroaching coastal aquifers, and the interface between freshwater and saltwater is maintained near the coast or far below the surface. This interface is actually a diffuse zone in which freshwater and saltwater mix, and is referred to as the zone of dispersion (or

transition zone). Groundwater pumping can reduce freshwater flow towards coastal discharge areas and cause saltwater to move towards the freshwater zones of the aquifer. Saltwater intrusion decreases freshwater storage in the aquifers, and, in extreme cases, can cause the impossibility of using supply wells.

4-Sketch

Saltwater intrusion occurs because of different reasons, including (showing with a sketch):

- climate change
- no freshwater recharge
- extreme pumping

5-Sketch

All this has a serious consequence for all of us because we have:

- less freshwater,
- the crops cannot grow well,
- ecosystem damaged.

6- Sketch

SUBSOL partners have developed a set of practical tools and concepts that have the ability to solve all these issues.

A sketch showing the solutions for all these issues:

- less freshwater -> how SUBSOL helps increasing freshwater and avoiding salty water intrusion with the pumping system.
- the crops cannot grow well -> how SUBSOL helps crops growing (no salty water, fertilized water...)
- ecosystems damages > how SUBSOL helps reducing impact on ecosystems (secondary effect)

3.1.8. Skill exchange and mentoring – task 7.4

In the framework of task 7.4 a set of tools have been analysed that allow for companies, researchers, decision makers, public and private users and stakeholders at various levels to share knowledge and exchange ideas.

The list of tools were first identified through an informal survey at water sector level amongst water practitioners. This survey was complemented with a list of the most used internet website not oriented to a specific sector. Almost all of them (a part OpenIdeo) are European Union solutions. We added also OpenIdeo because is widely used in European projects.

The results are two group of tools:

- The water sector skill exchange and mentoring tools:
 - o www.aquaknow.net
 - o <http://aquaspe.com/>
 - o <https://www.viawater.nl/>
 - o <http://www.emwis.org/>
- Platforms that are not specific for the water sector but can also be used for that:
 - o <http://openideo.com/>
 - o <http://www.climate-kic.org/>

The platforms can only be grouped in commercial and institutional. Institutional platforms are free of charge and sometimes based on open source software while subscription and use of commercial platforms are paying. Below the list:

Institutional (free):

- o www.aquaknow.net
- o <https://www.viawater.nl/>
- o <http://www.emwis.org/>

Commercial (paying):

- o <http://openideo.com/>
- o <http://www.climate-kic.org/>
- o <http://aquaspe.com/>

In this e-learning tutorials the different features of these platforms will be illustrated with some videos on their use or promotional video explaining why they are useful.

There is a section for each one of the platform mentioned.

4. Conclusion

This deliverable was organised in different phases. First of all the identification of the products to be supported through the e-learning. Then the design of the e-learning support together with the consortium and the developers of the products. Finally the implementation

of the courses and tutorials. 7 e-learning courses have been defined and another one will be added in the next deliverable “ADESBA” as still the support to this product is not defined. All the tutorials presented are available at: http://www.waterinneu.org/deliverables/E_learning_WaterInnEU.zip the final version will be integrated to the WaterInnEU marketplace platform. This is draft version and some of the material could not be presented for this deliverable because the consortium and the developers of those products did not give their approval on time. In any case these materials will be included in the deliverable D7.2.

Annex 1: List of projects analysed in the process to select products as subject of the e-learning platform of WaterInnEU

List of Flood related projects:

- 1) CORFU (<http://www.corfu7.eu/>)
- 2) EWATERCYCLE (<http://www.ewatercycle.nl/>)
- 3) RAIN (<http://rain-project.eu/>)
- 4) FLOODFREQ (http://www.cost.eu/COST_Actions/essem/ES0901)
- 5) FLOODSITE (<http://www.floodsite.net/default.htm>)
- 6) LISFLOOD (<https://ec.europa.eu/jrc/en/publication/eur-scientific-and-technical-research-reports/lisflood-distributed-water-balance-and-flood-simulation-model-revised-user-manual-2013>)
- 7) REFRAN-CV (<http://www.aquaknow.net/es/links/regional-frequency-analysis-climate-variables-refran-cv-software-final-version>)
- 8) WESENSE (<http://wesenseit.eu/>)

List of Drought related projects:

- 1) ACER (http://climate-adapt.eea.europa.eu/projects1?ace_project_id=3103)
- 2) AQUADAPT (http://cordis.europa.eu/project/rcn/60444_en.html)
- 3) AQUASTRESS (<http://www.aquastress.net/>)
- 4) CLIMB (<http://www.climb-fp7.eu/home/home.php>) also ClimateChange-related!
- 5) DESSIN (<https://dessin-project.eu/>)
- 6) DROUGHT RSPI (<http://www.eu-drought.org/>)
- 7) EDO (<http://edo.jrc.ec.europa.eu/edov2/php/index.php?id=1000>)
- 8) GLOWASIS (<http://glowasis.eu/>)
- 9) XEROCHORE (<http://www.feem-project.net/xerochore/>)

List of Agriculture and Irrigation related projects:

- 1) CLIVAGRI (<http://www.cost734.eu/>)
- 2) ERMITAGE (<http://ermitage.cs.man.ac.uk/>)
- 3) EURO AGRIWAT (<http://www.cost-es1106.eu/>)
- 4) EFFIDRIP (<http://effidrip.eu/>)
- 5) MEDWATER (<http://www.medwater.de/>)
- 6) Meteorological Application for Agriculture (<http://agromet-cost.bo.ibimet.cnr.it/>)
- 7) N TOOLBOX (<http://research.ncl.ac.uk/nefg/ntoolbox/page.php?page=1>)

- 8) SOILEROSION (<http://soilerosion.net/cost634/>)
- 9) PHOSFARM (<http://www.phosfarm.eu/>)
- 10)WATER4ALL (<http://www.wise-rtd.info/en/info/handbook-best-practice-reduce-agricultural-impacts-groundwater-quality>)
- 11)WATERBEE (<http://waterbee.iris.cat>)

List of GIS& Earth Observation related projects:

- 1) Propagation of Uncertainties (<http://cost731.bafg.de/servlet/is/9691/?lang=en>)
- 2) GIS4EU (<http://www.gis4eu.eu/default.asp?l=1>)
- 3) UAS (<http://www.cost-uas.net/index.php?id=23>)
- 4) RADAR (<http://www.smhi.se/cost717/>)
- 5) ENVIROGRIDS (<http://www.envirogrids.net/>)
- 6) EUROGEOSS (<http://www.eurogeoss.eu/about/default.aspx>)
- 7) AQUASURVEY (<http://www.aquaknow.net/en/aquasurvey-software>)
- 8) EUROLANDSCAPE (http://cordis.europa.eu/project/rcn/64613_en.html)
- 9) FRESHMON (<http://www.freshmon.eu>)
- 10)GNSS4SWEC (<http://gnss4swec.knmi.nl/>)
- 11)INFORM (<http://www.copernicus-inform.eu/>)
- 12)IMPACT (<https://ec.europa.eu/jrc/en/publication/impact-portable-gis-toolbox-image-processing-and-land-cover-mapping>)
- 13)GUIDOS Tools box (<https://ec.europa.eu/jrc/en/publication/impact-portable-gis-toolbox-image-processing-and-land-cover-mapping>)

List of River Management, Ecosystem& Restoration related projects:

- 1) ASR (<https://dessin-project.eu/?p=2078>)
- 2) HARMONICOP (<http://www.harmonicop.uni-osnabrueck.de/index.php>)
- 3) IDOR (http://cordis.europa.eu/project/rcn/89607_en.html)
- 4) ISFREM (http://cordis.europa.eu/project/rcn/82914_en.html)
- 5) MARS (<http://www.mars-project.eu/>)
- 6) FLOBAR2 (<http://www.geog.cam.ac.uk/research/projects/flobar2/aims/>)
- 7) REFORM (<http://www.reformrivers.eu/about>)
- 8) RESTORE (<http://www.ecrr.org/>)
- 9) RISKBASE (http://cordis.europa.eu/project/rcn/80081_en.html)
- 10)STAR (<http://www.eu-star.at/frameset.htm>)

11) TRABOREMA (http://www.cordis.europa.eu/result/rcn/51706_en.html)

List of Water Quality related projects:

- 1) ADESBA (<https://dessin-project.eu/?wpdmpro=ms7-dessin-spezifikation-adesba-rtc>)
- 2) AQUA (<http://www.acqwa.ch/>) ALSO RELATED TO CLIMATE CHANGE
- 3) BIOSCROBE (http://cordis.europa.eu/project/rcn/103211_en.html)
- 4) ADVOCATE (<http://www.theadvocateproject.eu/>)
- 5) QUALIWATER (<http://www.iamz.ciheam.org/qualiwater/>)
- 6) TEMPQSIM (http://cordis.europa.eu/project/rcn/64772_en.html)
- 7) INCA
(<http://www.reading.ac.uk/geographyandenvironmentalscience/research/INCA/>)
- 8) MODELKEY (<http://www.modelkey.org/>)
- 9) M3 (<http://www.life-m3.eu/index.php?id=9625>)
- 10) AQUAWARN (<http://www.aquawarn.com/>)
- 11) CAPANDWFD (<http://ecologic.eu/node/1369>)
- 12) CHARM (http://www2.dmu.dk/1_Viden/2_Miljoe-tilstand/3_vand/4_Charm/charm_main.htm)
- 13) CYANOCOST (<http://cyanocost.com/>)
- 14) DIGITALDELTA (<http://www.digitaldelta.nu/en/>)
- 15) EFFINET (<http://effinet.eu/>)
- 16) EFI+ (<http://efi-plus.boku.ac.at/>)
- 17) EMERGE (http://www.mountain-lakes.org/emerge/more/index.html#more_index)
- 18) EMWIS (<http://www.emwis.net/>)
- 19) EUROHARP (<http://www.wise-rtd.info/en>)
- 20) FOOTPRINT (<http://sitem.herts.ac.uk/aeru/footprint/index.htm>)
- 21) GENESIS
(http://www.bioforsk.no/ikbViewer/page/prosjekt/hovedtema?p_dimension_id=16858&p_menu_id=16904&p_sub_id=16859&p_dim2=16860)
- 22) HARMONQUA (<http://harmoniqua.wur.nl/>)
- 23) L4CW (<http://www.l4cw.eu/>)
- 24) Lagoons (<http://lagoons.biologiaatua.net/>)
- 25) MODELKEY (<http://www.modelkey.org/>)

