EU Framework Program for Research and Innovation (WATER-4a-2014 - H2020)

WaterInnEU

Project Nr: 641821

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

Deliverable D2.1
Data availability report

Version 3.1

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Description	The data availability report presents the database of European funded projects that support the implementation of the Water Framework Directive and the Floods Directive. Additionally, the report presents the applied criteria to include projects in the database, and explains the adopted strategy in categorizing these projects.		
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3.1	29-5-2015	LP_CREAF	Final revision	

Table of Contents

1. Introduction

This report, together with an excel spreadsheet, represents an initial selection of data on European projects. It is one of the deliverables of the WaterInnEU project. Projects are considered relevant when they support the implementation of the Water Framework Directive or Floods Directive, and when their results are assumed to be not yet optimally used (e.g., when they are not part of other well-known and easily accessible portals and databases). The term European project is here defined as a project that is (co-)funded by the European Union.

The project database is intended to support the Marketplace, which is the encompassing and final deliverable of WaterInnEU. The final shape of the Marketplace will be determined by the results of several, as yet unfinished, deliverables, amongst which the identification of the market requirements. This final shape of the Marketplace also determines the design parameters of the project database. The fact that the design parameters are not yet known was taken into account during the development of the initial version of the database structure and categories (Section 2).

Section 3 lists the projects selected for the database. For further specification and categorization of each of the projects, we refer to the database itself.

The online collection of the projects leads to insights about the practical usefulness of different portals. These and other insights that may support the implementation of the database part of the Marketplace are presented as recommendations in Section 4.

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2. Database definition

This section defines the bounding and categorization of the database. It explains which types of projects are covered by the database, and can be used as guide to understanding and using the database.

2.1. Scope

The database covers relevant research output from EU (co-)funded projects that are not yet optimally used and support the implementation of the Water Framework Directive or the Floods Directive. The definition includes projects delivering data, tools (both hardware and software), policy briefs or guidelines, or a combination of these. It excludes projects in which the only output is an extensive report.

Results of projects that primarily deliver data can be further subdivided into measurement data, model data, and administrative data. *Measurement data* includes all data that is directly measured or derived from direct measurements via a single processing step (e.g., a stage-discharge curve). Unprocessed measurement data, that may still include all outliers and unfilled gaps, is labeled as "Raw data". When a more extensive model processed the data, the reported output data is indicated as *model data*. *Administrative data* concerns administrative matter, such as water quality standards, permits, permitted effluent discharges, etc.

The database is geographically limited to Europe, with the exception of well-defined outputs of European research outside Europe and software tools applicable worldwide, when these are also applicable for specific cases within Europe. With respect to location, the database distinguishes between the level at which data are collected (e.g., at the local level), and the level at which data are reported (the "aggregation level", the river basin level). These levels can be expressed either in terms of administrative units or in terms of hydrological units. The geographic names of the aggregation level are also included. Finally, the states of the involved project partners are included (ISO 3166-1-alpha-2 codes).

2.2. Definitions and database categorization

The database presents a list of relevant European projects. European projects are here defined as projects that are (co-)funded by the European Union. European projects within the FP1 to FP7, Horizon2020 and Marie Curie funding programs are collected in the CORDIS database[1], which served as our main source of information when collecting the WaterInnEU database. Besides the CORDIS database, we applied the search engines of the COST[2] and LIFE[3] programs, as well as the Google search engine for general searches on the internet.

2.2.1. Database categorization

A comprehensive categorization is set up to make the database usable and accessible in multiple ways when the interface for the intended Marketplace is built. The following list defines the selected categories for describing all the projects in the database.

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[1] http://cordis.europa.eu/search/advanced_en
[2] http://www.cost.eu/COST_Actions/all_actions/?domain=197
[3] http://ec.europa.eu/environment/life/project/Projects/index.cfm

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- *Partners from*: indicates from which member states of the European Union and associated states the consortium partners in the project originate
- *Location*: location of the data, model, etc., or where it might be applicable
- *Aggregation level*: level to which the data, model output, etc. is aggregated. A geographical categorization is provided below.
- *Data collection*: level at which data, model output, etc. is obtained. A geographical categorization is provided below.
- *End date*: date on which the project finished / finishes.
- *Report*: a concluding report on the *project* is available.
- *Raw data*: data originating from measurements or models that is still unprocessed and contains all outliers and unfilled gaps. Data should be explicitly reported 'raw' by the original authors before we mark them as 'raw data'.
- *Metadata*: commenting data on the origin, quality, and handling of the data. The quality is assessed on a scale from 1 (very poor) to 5 (very good).
- *Software/application*: any digital tool, such as computer modeling software, GIS software, digital application for agent-based or participatory modeling, etc.
- *Model*: any (concrete) model, including readily built-up computer models and more specified a hydraulic / hydrological model, agent-based model, participatory model, conceptual model, etc.
- *Policy brief*: summary of a particular policy issue, the options for dealing with this, and recommendations regarding these options
- *Guidelines*: manual on how to execute projects or apply tools
- *Measurement data*: numerical data originating directly from measurements or indirectly using a simple procedure (e.g., discharge data resulting from a stage-discharge curve)
- *Model data*: data originating indirectly from measurements, but using a model
- *Administrative data*: data concerning administrative affairs (e.g., water quality standards, permits, permitted effluent discharges, etc.)
- *Keywords*: keywords concerning the topic of the research project
- *Approach*: on sentence describing the approach followed by the research project (i.e., the steps taken by the project in order to reach its goals)
- *Comments*: description of the project

2.2.2. Geographical descriptors

The database describes the geographical scope of projects in terms of administrative units or hydrological units, depending on which type of unit best describes the level of data collection and data aggregation (where data can be any type of research input or output). The geographical descriptor is presented in the database as *A#* for administrative or *H#* for hydrological units, using the following codes:

Administrative units:
1. *European Union*: (potentially) the whole of the European Union
2. *Country*: member state of the European Union or other sovereign state
3. *Region*: designated area within a country (e.g., provinces, water boards, etc.)
4. *Local*: municipal level

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Hydrological categorization:

0. *World*: planet Earth up to its atmospheric boundary layer
1. *Continent*: either of the six big landmasses on Earth
2. *River basin*: area that drains to a river that discharges into the sea / ocean
3. *Subbasin*: area that drains to a tributary
4. *Individual water body*: single, clearly definable water body (e.g., a river stretch, lake, aquifer, etc.)
5. *Point*: point scale (with respect to measurements / sampling)

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3. Selected projects

This section presents the current list of projects in the database. In the future, further narrowing of the database to meet user requirements might eliminate some of these projects. On the other hand, other relevant projects might be added. Therefore, the current list of projects only represents our current knowledge of existing European projects, and of what the end-user expects.

Research projects:

- @qua
  http://www.a-qua.eu/
- ACER
  http://climate-adapt.eea.europa.eu/projects1?ace_project_id=3103
- ACQWA
  http://www.acqwa.ch/
- ADVOCATE
  http://www.theadvocateproject.eu/
- AgriBMPWater
  http://www.bae.ncsu.edu/people/faculty/birgand/Downloads/Turpin_et_al_2005_EMS.pdf
- ALGAEIRE
  http://cordis.europa.eu/result/rcn/52356_en.html
- AQUABIOTOX
  http://www.iosb.fraunhofer.de/servlet/is/16952/
- AQUADAPT
  http://www.ua.es/es/internacional/internacionalizacion/aquadapt/
- Aquamoney
  http://www.ivm.vu.nl/en/projects/Projects/economics/aquamoney/
- AquaStress
  http://www.aquastress.net/
- Aquawarn
  http://aquawarn.com/
- Baseline
  http://www.bgs.ac.uk/research/groundwater/UKbaseline/home.html
- BeWater
  http://www.bewaterproject.eu/
- BIO FE-CLAY BARRIER
  http://cordis.europa.eu/project/rcn/82722_en.html
- BioFresh
  http://www2.freshwaterbiodiversity.eu/
- BIOSCROBE
  http://cordis.europa.eu/project/rcn/103211_en.html
- BIOSPEC
  http://www.qub.ac.uk/biospec/biospec.html
- BIOTECTOR+
  http://cordis.europa.eu/project/rcn/67944_en.html
- BRIDGE
  http://www.wise-rtd.info/en/info/background-criteria-identification-groundwater-thresholds
- CAPANDWFD
  http://www.ecologic.eu/node/1369
- Catchment Characterisation and Modelling
  http://ccm.jrc.ec.europa.eu/php/index.php?action=view&id=23
- CHARM
  http://www2.dmu.dk/1_Viden/2_Miljoe-tilstand/3_vand/4_Charm/charm_main.htm
- CHEEM
  http://cordis.europa.eu/result/rcn/60385_en.html
- CIP Eco-Innovation Project Database
  https://open-data.europa.eu/en/data/dataset/eco-innovation-project-database
- CIRCE
  http://www.circeproject.eu/
- CLIMB
  http://www.climb-fp7.eu/home/home.php
- CORFU
  http://www.corfu7.eu/
- Dessin
  https://dessin-project.eu/
- Digital Delta
  http://www.digitaledelta.nl/en/
- DROUGHT-R&SPI
  http://www.eu-drought.org/
- DYNOLUG
  http://cordis.europa.eu/project/rcn/88663_en.html
- E4Water
  http://www.e4water.eu/
- EAMN
  http://www.wise-rtd.info/en/info/european-aquatic-modelling-network-european-aquatic-habitat-modelling

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- EAQC-WISE — http://cordis.europa.eu/project/rcn/78607_en.html
- ECOMAWAT — http://cordis.europa.eu/project/rcn/99973_en.html
- EDGE/ECOPAG — http://www.edge-project.eu/ecopag/home/
- Effidrip — http://effidrip.eu/
- EFFINET — http://effinet.eu/
- EFI+ — http://efi-plus.boku.ac.at/
- EMERGE — http://www.mountain-lakes.org/emerge/more/index.html
- EMWIS — http://www.emwis.net/
- EnviroGRIDS — http://www.envirogrids.net/
- ERMITAGE — http://ermitage.cs.man.ac.uk/
- EU Water Initiative — http://www.euwi.net/about-euwi.html
- EUALGAE — http://www.cost.eu/COST_Actions/essem/Actions/ES1408
- EuroGEOSS — http://www.eurogeoss.eu/about/default.aspx
- Euroharp — http://www.wise-rtd.info/en/info/framework-and-approach-harmonised-quantification-and-reporting-procedures-nutrients-harp
- Eurolakes — http://www.wise-rtd.info/en/info/integrated-water-resource-management-important-deep-european-lakes-and-their-catchment-areas
- EuroLandscape — http://www.ec-gis.org/docs/F2305/GIS-GD.PDF
- EUROMBRA — http://www.mbr-network.eu/mbr-projects/proj-desc-eurombra.php
- European Drought Observatory — http://edo.jrc.ec.europa.eu/edov2/php/index.php?id=1000
- European Union Strategy for the Danube Region (EUSDR) — http://drdsi.jrc.ec.europa.eu/background
- EUROWET — http://www.ufz.de/index.php?en=5543
- EVALUWET — http://cordis.europa.eu/project/rcn/54746_en.html
- eWaterCycle — http://www.ewatercycle.nl/
- FLOBAR2 — http://www.geog.cam.ac.uk/research/projects/flobar2/aims/
- FloodFreq — http://www.cost.eu/COST_Actions/essem/Actions/ES0901
- FLOODsite — http://www.floodsite.net/default.htm
- FLUORO-BOOST — http://cordis.europa.eu/project/rcn/109162_en.html
- FOOTPRINT — http://sitem.herts.ac.uk/aeru/footprint/index.htm
- FRESHMON — http://www.freshmon.eu/
- FRESIS — http://cordis.europa.eu/project/rcn/94723_en.html
- Genesis — http://www.bioforsk.no/ikbViewer/page/prosjekt/hovedtema?p_dimension_id=16858&p_menu_id=16904&p_sub_id=16859&p_dim2=16860
- GIS4EU — http://www.gis4eu.eu/default.asp?l=1
- Glowasis — http://glowasis.eu/
- GOVERNAT — http://www.publicspace.ac.uk/projects/biodiversity-water-governance/
- HarmoniCOP — http://www.harmonicop.uni-osnabrueck.de/index.php
- HARMONIQUA — http://harmoniqua.wur.nl/
- HarmoniRIB — http://harmonirib.geus.info/
- HarmonIT — http://www.openmi.org/archives/harmonit
- IDOR — http://cordis.europa.eu/project/rcn/89607_en.html
- i-Five — http://www.i-five.eu/
- IMVUL — http://www.see.leeds.ac.uk/imvul/index.htm

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- INCA http://www.reading.ac.uk/geographyandenvironmentalscience/research/INCA/
- INFORM http://www.copernicus-inform.eu/
- INTERACTION http://www.ecologic.eu/2891
- ISFREM http://cordis.europa.eu/project/rcn/82914_en.html
- ISS-EWATUS http://issewatus.eu/
- i-widget http://www.i-widget.eu/
- iwrm.net http://www.iwrm-net.eu/
- L4CW-DEMO http://www.l4cw.eu/
- LAGOONS http://lagoons.biologiaatua.net/
- LISFLOOD http://floods.jrc.ec.europa.eu/lisflood-model.html
- Living Lakes http://www.wise-rtd.info/en/info/guidelines-preparation-management-plan-wetlands-and-shallow-lakes
- LUSOAQUABARCODE http://cordis.europa.eu/project/rcn/89851_en.html
- M3 http://www.life-m3.eu/index.php?id=9625
- MARS http://www.mars-project.eu/
- MEDIS http://www.uni-muenster.de/Umweltforschung/medis/summary/summary.html
- MedWater http://www.medwater.de/
- MEDWET http://medwet.org/
- MicroAQUA http://microaqua.eu/
- MICROCOKIT http://cordis.europa.eu/project/rcn/108672_en.html
- Minotaurus http://www.minotaurus-project.eu/
- MODELKEY http://www.modelkey.org/
- MODELLING COMPETENCE http://cordis.europa.eu/project/rcn/84766_en.html
- MOLTEN http://www.helsinki.fi/bioscience/ecru/projects/molten.htm
- MULINO http://siti.feem.it/mulino/
- NEPTUNE http://www.eu-neptune.org/project_summary/index_EN
- NeWater http://www.newater.uni-osnabrueck.de/index.php?pid=1000
- N-TOOLBOX http://research.ncl.ac.uk/nefg/ntoolbox/page.php?page=1
- ONUREM-COWSIM http://cordis.europa.eu/result/rcn/50107_en.html
- OPTIMA http://www.ess.co.at/OPTIMA/
- Opti-VFA http://www.opti-vfa.eu/
- Pangaea http://www.pangaea.de/
- Pegase Opera http://www.aquapole.ulg.ac.be/index_old.php?pg=3007
- PHOSFARM http://www.phosfarm.eu/
- PHYTOPLANKTON-ON-LIN http://cordis.europa.eu/project/rcn/51230_en.html
- PIPEGUARD http://www.pipeguard.eu/
- Plan Bleu http://planbleu.org/en/le-plan-bleu
- PPCPS-TRANSWATER http://cordis.europa.eu/result/rcn/49211_en.html
- PREPARED http://www.prepared-fp7.eu/
- PROMON http://cordis.europa.eu/project/rcn/188205_en.html
- PROMOTE http://cordis.europa.eu/project/rcn/78748_en.html
- Qualiwater http://www.iamz.ciheam.org/qualiwater/
- Quics https://www.sheffield.ac.uk/quics

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- RAIN — http://rain-project.eu/
- REBECCA — http://www.wise-rtd.info/sites/default/files/d-2012-02-21-REBECCA_flyer.pdf
- REFORM — http://www.reformrivers.eu/
- REFRAN-CV — http://www.aquaknow.net/es/links/regional-frequency-analysis-climate-variables-refran-cv-software-final-version
- REFRESH — http://www.refresh.ucl.ac.uk/
- RESTORE — http://www.ecrr.org/
- RISKBASE — http://www.sednet.org/download/RISKBASE_findings_&_recommendations.pdf
- SCOREPP — http://www.wise-rtd.info/en/info/priority-pollutant-behaviour-stormwater-best-management-practices
- SEDSRES — http://cordis.europa.eu/project/rcn/99218_en.html
- SEFCUMPAQ — http://cordis.europa.eu/project/rcn/93453_en.html
- SLIME — http://www.diadfish.org/english/SLIME.htm
- smartH2O — http://www.smarth2o-fp7.eu/
- SNOWMAN — http://snowmannetwork.com/
- SOCOPSE — http://www.socopse.se/2.3d9ff17111f6fef70e9800048665.html
- Solutions — http://www.solutions-project.eu/project/
- Spicosa — http://www.spicosa.eu/index.htm
- STAR — http://www.eu-star.at/frameset.htm
- SuRCaSE — http://www.wise-rtd.info/en/info/thematic-indicator-status-reports
- SWIFT-WFD — http://cordis.europa.eu/project/rcn/73864_en.html
- SWITCH-ON — http://www.project.water-switch-on.eu/?q=node/2
- TEMPQSIM — http://cordis.europa.eu/project/rcn/64772_en.html
- TIDE toolbox — http://www.tide-toolbox.eu/
- TOOLBOX — http://www.gwp.org/en/ToolBox/
- TRABOREMA — http://www.cordis.europa.eu/result/rcn/51706_en.html
- TRUST — https://www.trust-i.net/index.php
- TWIN2GO — http://www.twin2go.uos.de/
- UrbanWater — http://urbanwater-ict.eu/
- WASSERMED — http://wassermed.cmcc.it/
- Water4All — http://www.wise-rtd.info/en/info/handbook-best-practice-reduce-agricultural-impacts-groundwater-quality
- WaterDISS — http://waterdiss.eu/
- Waternomics — http://waternomics.eu/
- WatERP — http://www.waterp-fp7.eu/
- WELCOME — https://publicwiki.deltares.nl/display/IMSW/The+Welcome+Project
- WeSenseIt — http://wesenseit.eu/
- WETWIN — http://www.wetwin.eu/index.html
- WFD-Explorer (KRW-Verkenner) — https://publicwiki.deltares.nl/display/KRWV/KRW-Verkenner
- WISDOM — http://www.wisdom-project.eu/
- WISER — http://www.wiser.eu/
- XEROCHORE — http://www.feem-project.net/xerochore/

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4. Recommendations for further implementation

During the online collection of the research projects, several existing portals were visited with varying success in terms of searchability and accessibility of results. The WaterInnEU Marketplace aims to provide a platform that could, in theory, run into similar issues. Based on our experiences, we provide some recommendations that may support the implementation of the database into the Marketplace and keep the Marketplace relevant for a longer period.

4.1.   Maintenance

The current database only covers past research results. In the future, European projects will deliver new and more relevant results. This implies a need for maintenance of the database, because:

- New results that are relevant for the end-users should be incorporated in the database;
- Earlier results that are now in the database might become less relevant.

Since funding ends with the termination of the WaterInnEU project, this means that it is necessary to determine what happens with the Marketplace at that point. Three options are identified:

1. Assume the database is up to date for 5 to 10 years after which a new database is built;
2. Make it self-supporting (i.e., a user-based or wiki database);
3. Connect it to another (EU-funded) portal that continues to be maintained.

It seems clear that Option 1 is not optimal. One of the aims of the Marketplace is interaction between SMEs and water managers, which should be supported by timely data. In that sense, it seems more appropriate to select Option 2. However, care should be taken that the users should then also control the quality (Section 4.2). With respect to Option 3, the WaterInnEU consortium is currently considering a connection to the Marketplace to the EIP Water portal. If the Marketplace is going to be part of the EIP Water portal, maintenance of the platform can be ensured for a longer period.

4.2.   Quality control

The success of the Marketplace will also depend on the quality of the database. Therefore, a quality control system is needed. The quality control could for example be user-based. This will be necessary in case the Marketplace is going to be self-supporting, but also helps us better identify the requirements of our end users.

User-based quality control can be achieved by asking the end-user to rate the viewed database entries with respect to at most three criteria, for example:

1. General quality;
2. Relevance of the content (and for which tasks/purposes);
3. Presentation of the content (i.e., is the required information easy to find, up to date, etc.?).

A higher number of criteria may undermine the user's interest to answer, and is therefore not recommended. Commenting by means of a text box could be optional.

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Annex 1

- Database_v5.xlsx: spreadsheet with the identified European projects, showed at Figure 1 and accessible via: http://www.waterinneu.org/deliverables/Database_v5.xlsx

  This spreadsheet represents the current state of the project identification. The database of identified projects is expected to change over the course of the WaterInnEU project.

Project	Partners from	Location	Aggr. level	Data coll.	End date	Report	Raw data	Metadata level	Project	Hardware	Softw./appl.	Model	Pol./Guide	Meas. data	Model data	Admin. data	Keywords	Appro
@qua	FR,BE,DE,DK,ES	Europe	A1H1	A4H5	okt/13				X		X		X				ICT, SME, dis	provic
ACER	NL,DE	Rhine basin	A2H2	H4H5	jun/11	X			X				X				adaptation, c	devel
ACQWA	CH,IT,AT,CL,FR	Europe, Cer	A1H1	A4H5	mrt/14	X			X		X		X				climate chan	use ac
ADVOCATE	GB,BE,CH,DE,Pl	Europe, Bel	H4	H5	mrt/15	X			X	X			X				remediation,	devel
AgriBMPWater	FR,NO,AT,FI,IT	Europe	H2	H5	jan/04				X				X				agriculture, t	compa
ALGAEIRE	EI	Ireland	H4	H5	mrt/09	X			X				X	X			algae, lake, e	compa
AQUABIOTOX	DE	Europe	H4	H5	jul/16				X	X							monitoring, c	devel
AQUADAPT	ES,NL,FR,GB,SI	Europe, Spa	A2H2	A4H5	jul/05	X			X		X		X				decision sup	gener
Aquamoney	NL,DE,HU,BE,A	Europe, Dar	A1H1	A4	sep/09	X			X				X				economy, co	assess
AquaStress	IT,GB,NL,GR,DE	Europe	A2H2	A4H5	jan/09	X			X		X		X				water scarcit	delive
Aquawarn	EI,GB,IT,TR	Europe	H4	H5	nov/15	X			X	X							water quality	devel
Baseline	GB,CZ,BE,DK,ES	Europe, Eng	A2H2	H5	jun/03	X			X				X				water quality	establ
BeWater	ES,TN,CY,SI,IT,N	Mediterran	A1H2	A4	mrt/17	X			X		X						adaptation, p	partici
BIO FE-CLAY BARRIER	GB	Europe	H4	H5	sep/08	X			X				X	X			groundwater	resear
BioFresh	DE,BE,AT,MY,FI	Europe	A1H1	A4H5	apr/14	X		4	X				X	X	X		open platfor	build
BIOSCROBE	GB	Europe	H4	H5	sep/13	X			X				X				ecotoxicity, t	mode
BIOSPEC	DK,NL,CH,ES,GI	Europe	H2	H5	feb/05	X			X				X				ecology, hea	deteri
BIOTECTOR+	EI,IT,NO,NL,GB	Europe	H4	H5	jan/05				X	X							wastewater t	develc
BRIDGE	FR,AT,DK,GB,B	Europe	A1H1	A4H5	dec/06	X			X				X				groundwater	analys
CAPANDWFD	DE,PL	Europe	A1H1	A2H2	jun/06	X			X				X				policy, water	analys
Catchment Characteri	IT	Europe, Atl	H1	H0H5	-				X					X	X		database, dr	develc
CHARM	DK,FI,SE,EE,LV,	Europe	H2	H5	nov/04				X			X	X				water quality	develc
CHEEM	ES	Europe	H4	H5	jun/12	X			X				X				sediment, w	imple
CIP Eco-Innovation Pr	EU	Europe	A4	A4	-				X		X						database, inr	set up
CIRCE	IT,ES,DK,GR,DE	Mediterran	A2H2	A4H5	jun/11	X			X				X				climate chan	predic
CLIMB	DE,IT,FR,TN,TR	Mediterran	A1H1	A4H5	jan/10	X			X		X		X				risk assessm	advan
CORFU	GB,DK,NL,DE,FI	Europe, Asi	A4H4	A4H5	jun/14	X			X				X				urban, flood,	learn
Dessin	DE,ES,NL,DK,GF	Europe, Ath	A3H2	A4H4H5	dec/17				X		X		X				drought, wat	promc
Digital Delta	NL	The Netherl	A2H2	A4H4H5	jun/14	X			X		X						open platfor	digital
DROUGHT-R&SPI	NL,GR,CH,IT,FR	Europe, The	H2	H5	mrt/15	X			X				X				drought, wat	resear
DYNOLUG	GB	Europe	H4	H5	aug/10	X			X			X			X		biodynamic r	measc

Figure 1: View of the first records and fields of the database_v5.xlsx