

Part A - Project summary

A.1 Project Identification

Acronym	URBAWa-FlMa		
Title	Urban and peri-Urban Water Management from methabolic-ecosystemic approach to Circular Economy		
Project Number	UIA02-190		
(Main) Urban Authority	Alcoy City Council		
ERDF rate	80.00%		
Project Duration	Start Date	01/11/2017	
	End Date	22/10/2020	
	Total Months	36	
Topic	Circular economy		

A.2 Project summary

Description	<p>Historically, there was little consideration of the impact of past land development and urban planning decisions upon hydrological systems in urban area's range. Despite their close relationship, water resources management (WRM) have typically been carried out separately and guided by different institutional arrangements. The impacts of urbanization growth on hydrological systems and the dependence of urbanized areas upon these systems, call for better integration between urban, regional planning and WRM to ensure the sustainability and resilience of cities to future changes and uncertainties. The Integrated WRM approach has proven to be a suitable option for efficient, equitable and sustainable development. Moreover, from a circular economy point of view, quantifiable standing as well as variable parameters must be integrated in a useful model, minimizing the loss of water and its energy and mater related flows. The inputs, outputs and inner flows will be analyzed and accounted form sustantability and eco-efficiency point of view.</p> <p>In water-poor and touristic pressured regions, experiencing acute or chronic shortages, optimization techniques are a useful tool for supporting the decision process of water protection and allocation.</p> <p>In order to maximize the value of water, a new enabling key model, the URBAN WATER DEAL, will be developed, involving multiple supply sources and users, improving at all level the institutional capacity to address future changes and uncertainties</p>
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Partner		ERDF co-financing		Contribution			Total	
Partner	Country	EUR	ERDF rate	Public	Private	Total	Budget	% of project budget
PP 1 - Alcoy City Council	ES	793,689.92	80.00%	198,422.48	0.00	198,422.48	992,112.40	22.19%
PP 2 - Alcira City Council	ES	940,269.80	80.00%	235,067.45	0.00	235,067.45	1,175,337.25	26.29%
PP 3 - Alicante City Council	ES	859,306.00	80.00%	214,826.50	0.00	214,826.50	1,074,132.50	24.03%
PP 4 - Valencian Polytechnic University	ES	221,068.20	80.00%	55,267.05	0.00	55,267.05	276,335.25	6.18%
PP 5 - University of Valencia General Study	ES	183,821.76	80.00%	45,955.44	0.00	45,955.44	229,777.20	5.14%
PP 6 - Water General Directorate	ES	534,786.96	80.00%	133,696.74	0.00	133,696.74	668,483.70	14.95%
PP 7 - Alicante University	ES	43,739.00	80.00%	10,934.75	0.00	10,934.75	54,673.75	1.22%
Total (€)		3,576,681.64	80.00%	894,170.41	0.00	894,170.41	4,470,852.05	100.00%

Part C - Project description

C.1 Project relevance and innovativeness

C.1.1 Main challenge(s) to be addressed

Main challenge(s) to be addressed

Following the UNO, FAO and EEA previsions, there is likely to be a global shortfall of 40 % in water by 2030. As 70% of European population lives currently in urban areas, urban adaptation to climate change will be an overwhelming challenge. Cities in semi-arid regions as east and southeast Spanish regions, will suffer the most severe consequences. Additionally, Mediterranean river basins present a torrential regime with floods and droughts periods (less than 5 years recurrence). Those characteristics highlight the water management and, overall urban water management, as a critical bottleneck to adapt and transform cities into attractive climate-resilient and sustainable places.

Public-small and medium experiences that provides knowledge about water use and reuse technologies(a) already exist through the world. Moreover, Spain and specially the Mediterranean area, has a contrasted experience in implementation of partial solutions of reuse and water savings. However, a realistic knowledge of large water's amount reuse, technically, economically, environmentally as well as social acceptance, from societal impacts to input costs, are not well known. This situation hinders closing the water loop.

As the use of water is concerned, three urban nuclei: Alcira (end of river basin, high flood risk, poor water quality), Alcoy (upper river basin, then first water user and polluter), Alicante (big urban area, droughts and aquifer salination) will be compared. Alcira locates in a main agricultural surrounding, Alcoy in more industrial one, and Alicante is one of the most touristic cities in Spain, surrounded by a complete industrial and agricultural region with a clear saline water aquifer intrusion. Through an exhaustive analysis of technical, infrastructural, environmental and socio-economic parameters (viability), a common organizational scheme for an efficient water cycle will be proposed.

The social awareness is one of the pillars of the acceptance of water paradigm change (quality, use, value, etc). A conjugation of up-bottom and bottom-up approaches will be therefore necessary in this case. It is well-known that a multi-actor (fig.1 attachment) approach for global water use understanding is an essential component for the achievement and success of the project. For that purpose, through all the project life cycle, from the project design to implementation, a large panel of social, technical, scientific, private, legal and administrative agents will be involved. This board, with the active integration of DGA (This board, with the active leading role of DGA), guarantee the translation and overall the continuity of the conclusions of this project. A special regard to the young public involvement, with specific activities, will be developed.

C.1.2 Proposed solution

Proposed solution

An integrated proactive response scheme is the conceptual proposed solution by a commitment. The participation of a wide actors' spectrum will be achieved by the creation of the URBAN WATER DEAL (UWD)

The most impacting figure of this institutional agreement will be the firm of a binding contract (covenant) that involves transversal obligations for the signatory authorities, the Urban Water Contract (UWC).

It will include:

- Act and Promote Efficiency, Ecoefficiency and Savings in the Use of Urban and Periurban Water Resources, in all Aspects of its Cycle, by the acceptance of
- the inclusion of technical, infrastructural, environmental and socio-economic parameters in the management and governance systems, from eco-efficiency (7th ENVIRONMENT ACTION PROGRAMME TO 2020), with a special mention to Circular Economy (DECISION No 1386/2013/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 November 2013 on a General Union Environment Action Programme to 2020 "Living well, within the limits of our planet"), to sustainable urban development,
- the common organizational scheme as base-line consequence of the three water use management systems analysed, the integration from technical, infrastructural, environmental to socio-economic parameters for a more realistic approach of water use in urban and periurban area in water-poor touristic pressured regions, experiencing acute or chronic shortages,
- the modification of local norms and budget headings to offer the best possible sustainable water public service, including reuse norms, critical budget endorsements related to water resources (soil salination, energy requirements)
- the adherence to a data transparency interactive network platform with public accessibility, that will include, social, scientific, and economic as well as educational contribution and propositions,

This form will offer an essential agreement to validate and quantify actions, as great water movement infrastructures modifications, small private or public-private initiatives linked to the use of water, scientific approaches of water cycles improvements, and dispersed institutional arrangements. The development and implementation of an integrated accounting tool for water use viability and sustainability linked to energy efficiency use in urban water cycles will be one of the successes of the project.

Supported by the Regional Government of Valencia, the last step of the UWC, a transversal normative revision will empower the UWD at regional level, expanding its use and extracted knowledge applications. Due to the valentian common water culture, the onslaughts of climate change and a proactive attitude of most establishments, the breeding ground for this empowerment is raising. Strengthened by a solid, regional policy framework, born in large participative multi-actors involvement, the UWD will act as catalyst for sustainable urban development and its adaptation to climate change, through circular economy approaches.

C.1.3 Innovativeness of the proposed solution

Innovativeness of the proposed solution

Existing water use systems are often inefficient. From catchment to consumer and back to catchment, water is lost, polluted, wasted and misused. Such systems will contribute to exacerbate the gap between available freshwater supply and demand. The water pathway should be developed as a closed loop system. While urban-regional Ecosystemic approach through flow studies will be one of the base lines of the study, both knowledge of metabolic urban function and integration of socio-economic stakeholders in a multi-agent partnership, as further UWM transformation is concerned. It will contribute to the Urban Circular Economy Applied Knowledge. This action plan, by the characterisation of 3 urban nucleus with different complementary base line concepts, and their disruption points in the water loop, will offer real solutions to minimize the Urbs (often considered as a "black box") impact on water systems, allowing then, best water use and reuse practices implementation. From the steady state studies to the integration of infrastructural rearrangements, water use efficiency, reuse, water quality increase, their costs and viability studies, the project will propose the above-mentioned Urban Water Deal, as an integrated social proactive enabling key model of urban water cycle and the Urban Water Contract as binding agreement. A critical point for the persistence of the proposed model viability as well as for public acceptance is that, following ecosystemic flows approach, the study of the path, variation rates and acceptance impact of emergent contaminants, including their costs-opportunity rates in urban water management, has to be introduced. From the point of view of water-resource circular economy concepts, an exquisite study of water reuse should include this knowledge for the "rejection" of regenerated water. From the effort of the European Data Portal referring to best practices (BP), dataset guidance and their local guidance will be integrated at regional level by the competent authorities. Due to the complex areas of interest of this project, the recommendations of UNO Habitat II, III, The International Recommendations for Water Statistics (IRWS), System of Environmental-Economic Accounting for Water (SEEA-Water) and the Recommendation of the OECD Council on water, have been kept in mind as reference of BPs' base-line. Some BPs in water infrastructure asset management from the The Global Water Research Coalition (GWRC), too. It has also considered The Green Public Procurement issues in all represented authorities in this proposition as participation standard. The BREFs line of the implementation of emissions legislation are analysed too for BATs proposal in the solution outputs. One of the project's key is to close the water loop, increasing reused water rates so, as CECs is concerned, "Development of the first Watch List under the Environmental Quality Standards" (JRC Tech report), is one of the reference documents.

C.1.4 Potential obstacles and resistance

Potential obstacles and resistance

As developed in Partners Description, the General Water Directorate (DGA) of the Generalitat Valenciana (government and administration with autonomous competences in water management for 4.959.968 hab.) is the intellectual promoter of this work. This proposal requires "non-strictly financial parameters" to go on, because of economic static approaches and politically sensitive changes. WMin this region has historically come to a common understanding with enough independence of political conditions. Due to the traditional scarcity and drought situations aggravated by the city population increment (historical migrations, modern touristic pressures), and, overall, actual climate change conditions, a wide socio-political and economical consensus is upraising. Under the coordination of DGA and Alcoy Mayor Leadership, the all-level governance support is integrated. Other possible detected resistances are the public acceptance of the reused water quality and their uses; high cost of infrastructural renewal; entrenched economic interests, the lack or dispersion of needed data. This project is designed to provide those missing data. Another resistance will be the "Nihil de nobis, sine nobis", "Nothing about us without us", underlying concept acceptance. The inclusion of scientific society, industrial chambers, consumers, farmers and environmental associations, from the design stage to the implementation of proposed solutions, is the way of understanding and a guarantee of success.

C.1.5 Integrated Approach

Integrated approach

This solution (UWD-UWC) is in fact, a powerful tool for the re-connection between urban water use, reuse and its quality, its value and citizenship rights. The common effort for the creation of a symbiosis between the multi-actor communities, the water knowledge area, and governance schemes will offer an integrated action plan for closing the water loop.

As an integral approach, the binding purpose of this solution moves away from "laissez-faire" policies towards a rational model of urban water management. The adaptation to climate change, risk prevention and management or the environmental protection and resource efficiency are obvious concepts that lay in the foundation of this proactive proposition. The enhancement, development and promotion of water circular economy, as water as resource is concerned, is another underlying concept.

The expected water savings (lower input flows, reuse, etc.) will relieve the scarcity of water in urban land-scale environment, affording sustainability in inner and surrounding urban productive tissue and avoiding jobs loss. The increase of provided and produced knowledge will be transferred to all industrial, social and governance stratum.

The feedback of governance decisions will be then more transparent and public administration more efficient.

Due to the inclusion ab initio of wide stakeholders groups, promoting public awareness, fair costs redistribution based on viability studies, also contemplate the social dimension of access to the UN-SDG6.

C.1.6 Link to ERDF thematic objectives and investment priorities

Link to ERDF Thematic Objectives and Investment Priorities

Investment priorities (IP) that appear in the article 5 of Regulation 1301/2013, are strongly linked with thematic objectives (TO) that appear in article 9 of regulation 1303/2013. This project contributes mainly to IP from 1 to 4, however a significant support to several other paragraphs of both has been observed, as listed below:

TO1/IP1.a.b Is a cross-cutting priority present in the core of the project. It is guaranteed for the participation of universities and its technology transfer departments, in an integrated partnership.

TO2/IP2.c As a solution for water monitoring this project assess the advantage of e-government strategies based on the use of ITC's developing a Cities-to-EU water portal

TO3/IP3.c is a consequence of the knowledge extracted from the project

TO4/IP4.c Reducing energy consumption by improving water infrastructures

TO5/IP5a.b Developing floods and droughts mitigation actions

TO6/IP6.b.e.f.g Investing in and supporting technologies for the adaptation to EU requirements and water use efficiency (EIP Water Priorities)

TO9/IP9.b Urban physical and socio-economic regeneration with new infrastructures and new organizational approaches leading to a more equitable water use.

TO10/IP10 A new master degree specialization in urban sustainability and other training activities are planned for UPV & UV by using the knowledge extracted from this project

TO11/IP11 Improving the responsible authorities capacity to achieve an efficient governance of water resources

C.2 Project context and local partnership

C.2.1 Link with other local/regional/national strategies and policies

Link with other local/regional/national strategies and policies

National and regional EU norms transposition are often considered at local level as sufficient "implication" in strategic water cycle issues. Fortunately, the implication of regional authorities of the Valencian Region, has grown up those two last years as WM and Urban WM is concerned. Long term national Plans of water qualities, treatments, and more specific ones (ie. bathing water qualities) have been crushed by Spanish crisis. Of course, Watershed National departments have played this functions. However, these crisis years have almost stopped medium and long term plans (Hydrological national plan). Though, in water management inclusions as circular economy, or ecoefficiency are concerned, some little essays have been concluded. Alcoy as Aalborg Carte signatory has developed a urban water strategic plan. Unfortunately the fulfilment hasn't been convincing. Alicante developed a Strategic plan for healthy and sustainable city in 2025, following Europe 2020 strategy frame. Following the same pattern, the expected results were low. Alcira, in "response" to a "recent drinking water contamination" sic) has boosted a more restrictive drinking water local regulation. As former said, without a strong coordination figure as DGA that will impulse such integrated projects, micro or partial strategies will never offer real results and advances in environmental, socio-economics, ecoefficiency and circular economy improvements in urban water management.

C.2.2 Synergies with other projects and initiatives

Synergies with other projects and initiatives

DGA has a long list of synergic initiatives promotion. As example, in the last "Conference on WM and renewable energies in the Mediterranean" (CMPR-CIM/Valencia, 18-10-2016) the coordination task force (DGA), has extract some enabling key policies that support related WM and UWM general initiatives. Contribute to the sustainable development of the Med providing concrete responses to strategic challenges in the areas of Water was approved as one of the future policy pillars. The typology outputs were overall political positions and exchange of experiences. Through similar experience, cooperation in the EU and MED agendas as Water Framework Directive implementation on water reuse initiatives and development, or, transmitted opinions of the Committee of the Regions on "Effective water management system: an approach to innovative solutions" have been proposed. Follow-up of MED Cop Climate 2016, COP 22 in Marrakech, Nexus Water-Energy-Food Security (UN Water) and new Sustainable Development Objectives are also considered in synergic meeting's agenda. The ENPI-Water-DROP-Project-II-B4.3/0617, Integrated Water Resources Management GUIDELINES for the MEDITERRANEAN BASIN, has offered hopeful synergies.

As preparatory work, professional networking activities with the acceptance of DGA and the three involved urban authorities, have been developed. Barcelona, Paris, Bruxelles Region-capitale and Tuscani region inter alia, will institutionally been up to date of this project.

C.2.3 Involvement of wider stakeholders in project design

Involvement of wider stakeholders in project design

Following the idea of "nothing about us without us", DGA has traditionally been the receptacle that has collected suggestions and proposals for the regional and cities stakeholders. The consultation process for this project "officially" started at early January 2017, but DGA has a wider set of contribution from social sector about water issues.

The most active stakeholders participating in the Project design have been: Valencian Farmers Association, Wetland Friends Association, New Water Culture Foundation, Ecologist in Action, Valencian Consumers Association, Alcoy Chamber of Commerce (Industrial sector), Alicante and Castellon Universities and all the City Councils in La Ribera Baixa District.

Addressing its activities to the achievement of a sustainable urban development, climate change adaptation, eco-efficiency and circular economy, DGA has coordinated some meetings and assemblies with stakeholder's representatives, enabling the creation of an emerging social dialogue about these issues. These dialogues manifest the social worries and urban authorities have to give reasonable answers to challenges like: water reuse (quality) for different applications; inefficient or disrepair water supply systems (water leaks); who can do the best and cost-effective management and exploitation of urban water systems, public or private entities?; which is the best urban vegetation for irrigation water savings; use of drinkable or waste water for this purpose; how much is end-user reasonable payment for water treatments (potabilization, depuration, regeneration, desalination, etc.); how manage disagreements in cost-sharing; what can offer rain water and flooding catchment; aquifer salinization and bad water quality uptake.

Most activities and graphic reportages for Project design phase have been shared in the following link: <http://www.agroambient.gva.es/ca/web/agua/fondos-europeos>

C.2.4 Involvement of wider stakeholders in project implementation

Involvement of wider stakeholders in project implementation

As knowledge is referred, Université libre de Bruxelles, Universidad de Barcelona, Aalborg Universitet, are involved stakeholders due to their participation and transversal experience in modelling, IUWM live cycle assessment, and indicators proposals (preponderance in WP4, 6).

Experts will also be invited through UPV, UV and UA networks. Legal and regulatory knowledge experts board from Spanish Ministerio de Agricultura, Pesca, Alimentacion y Medioambiente, Ministerio de economia y competitividad, EEA, European Agency for urbanism, regional and urban policy will be involved in coordination with local authorities (preponderance in WP4,5).

Social and economic stakeholders (ie.: SMEs) are present through all the lifecycle project and will be the also "partners" for after project actions and knowledge transfer (preponderance in WP4,5,6,7). SME's stakeholders, will take more importance in technical investment part realisation (ie.: water management new technologies), as receptor of the extracted knowledge (preponderance WP6,8). In WP7 a set of activities are specially developed to increment the multi-actors communities.

Through the Regional Government official relationship, other Regional Governments will be invited and informed at project start, follow-up, and advances (Madrid, Barcelona, Paris-Région capitale, City council of Lisboa).

In this multidimensional project, thematic task group under the Coordination Team will be created for activities scheme proposal. (PDF doc, fig 2)

C.3 Project objectives, results and outputs

C.3.1 Overall objectives and expected results (changes in the local situation)

<p>PROJECT main objective(s)</p>	<p>The achievement of the main objectives are realistically feasible thanks to the composition of the regional and urban authorities and the delivery partners team. The last objective, and the principal one, represent a summary and the real achievement of this proposition.</p> <ol style="list-style-type: none"> 1)-Definition of guidelines, methodology and economic, social, data acquisition and legal framework in urban water's areas of interest (including water quality of regenerated waters, flows of emergent contaminants and energy needing linked to water cycle). 2)-Analytic revision of european, national, regional and local norms to detect barriers or bottlenecks for BAT Brefs integration or application at local level in water management is concerned (including historical water rights). 3)-Data acquisition and integration of technical, environmental, scientific and socio-economical approaches to define urban water management BP, with the goal of achieve the circular economy in water matters (including cascade water use patterns, use of regenerated water and eco-efficiency). 4)-Development and application of cost-benefices viability schemes, by inclusion of environmental, good health and well-being parameters (including costs projections of the "do nothing" paradigm), achieving a fair way to share water cost and its public acceptance. 5)-Inclusion of urban, peri-urban, and near-regional multi-actor communities in decisional processes, developing social and public awareness about water value and use, and the circular economy (including a network platform, the Urban Water Portal) by water knowledge divulgation and water education development. <p>As result of the objectives here above proposed, the main objective of this action plan is:</p> <ol style="list-style-type: none"> 6)-Revision and regulatory development of Urban Water Deal through the Urban Water Contract Mayor's firm commitment.
<p>PROJECT main result(s)</p>	<p>MO1 Result: -Obtaining of both analytic and descriptive model of urban water eco-systemic flows, urban inner metabolism flows, critical points detection and their quantitative distributions (Including parametrized life cycle assessment, environmentally and eco-efficiently quantified).</p> <p>MO2 Result: -Transversal adaptation or modified BAT proposition, for implementation of BREFs and GPP (lowering water fingerprint, some CEC's inclusions) to local policy and norms. Regional common normalisation transposition or analysis will be elevated to european organisms.</p> <p>MO3 Result: -Adapted implementation of data monitoring (water quality- CEC's-, flows, etc.) and of technical solutions for water savings, water cascade use and circular use of water or regenerated water.</p> <p>MO4 Result -Short, medium and long term investment plan viability studies of proposed and implemented solutions, including eco-efficiency, environmental and well-being parameters.</p> <p>MO5 Result -Increase of actors communities number and their adherence to the participative network platform.</p> <p>MO6 result: -Application and viability test of the UWD-UCD development in three mediterranean cities with different water management situations.</p> <p>Quantified global results: It is obvious that some MOR (main objective result), have only a yes or no realisation result. Unfortunately, in depth measurements of water flows are practically inexistent or imprecise. (sad example: only the 68% of total valencian urban water public supply network is measured, 32% is estimated. INE, 2014)</p> <p>However expected result's quantification are: -Lower the total urban water external uptake in 20% for covering the same needing. -Lower water leaks in 50% -Increase the cascade water use in 40% -Increase the water reuse through regeneration process in 15% -Lower industrial water consumption through stimulation of responsible production & consumption patterns in 10% -Increase the quality of recycled water in one or two levels (Spanish Quality Index)</p>

C.3.2 Outputs

Work package	Output Number	Project output	Target value of project expected output(s)
WP.4 Urban Water Deal: Baseline and Framework Development	O 4.1.1	Laws Revision	1
	O 4.2.1	Methodology and Guidelines	1
	O 4.3.1	Urban Water Portal	1
	O 4.4.1	Set of courses and training activities	1
	O 4.5.1	Political Compromises Document "Urban Water Contract"	1
WP.5 Urban Water Deal Institutional Agreement Application in 3 case study by Urban Water Contract Implementation	O 5.1.1	Political Compromises Signature	1
	O 5.2.1	Local Regulations and Policies Improvement	1
	O 5.3.1	Socio-Economic Water Aspects Improvement	1
	O 5.4.1	Technical Studies Implementation Results	3
	O 5.5.1	Civil Servants and technicians better trained for Circular Economy Management	1
WP.6 Academic Knowledge Extraction and Training Activities Development	O 6.1.1	Set of courses and training activities	1
	O 6.2.1	Set of university courses	1
	O 6.3.1	New Master Degree	1
	O 6.4.1	Formal proposal for a better urban water regulation	1
WP.7 Social and Political Awareness	O 7.1.1	Final Report of social feeling	1
	O 7.2.1	Results of the volunteering activities	1
	O 7.3.1	Society losing the fear	1
	O 7.4.1	Gamification Software	1
	O 7.5.1	Urban Water Reportage	1
WP.8 Set of Investments in Public Urban Water Services Improvement	I 8.1	3D Modeling Geographic Information System Software, Equipment Purchase and necessary Inspections Performance	1
	I 8.2	Grants for encourage citizen initiatives to improve Urban Water Management in the frame of the Urban Water Deal	1
	I 8.3	Innovative Infrastructures Building Required for the Urban Water Deal Implementation	1

C.3.3 Measurement of results

Measurement of results

The lack or dispersion of data is a common situation in such studies. The access and data's production strategy of the UWD-UWC consist precisely in the creation of an enabling key coordination structure for that purpose at highest level of regional water's authorities. Basic data are accessible (Eurostat, INE, CHJ, DGA, etc), precise one, never. The global measurement strategy consists in the evaluation the impact/benefit of the water value chain improvement from the perspective of the circular economy. A lot of global "indicators" of water quality, sustainability, climate change, environmental impact, etc, are available (JRC, OCDE), however they don't offer a view of evolutionary state of active measures efficiency. Part of this proposition tends to cover this lack. However, the applied model will include parameters as different as atmospheric conditions, or turbidity flow schemes (transport of contaminants) or WWTP/quality of drinking water costs, it will be easy to define the variation rates of the efficiency of measures in water quality depending costs (environmental sustainability) as well as water savings in function of adopted measures or water origin/demand dependence (costs of water movements). It will appear that infrastructures design or modification (and their costs) will be rapidly simulated and adopted (ie.: in torrential regime, to avoid floods or drought, this is a critical point for mitigation or water retention and reuse). Dynamic participation scheme including multi-actors community representatives through and after the life cycle's project will be measured as public acceptance level. The quantity and quality of those representation as well as their implication will be a good evaluation method of social acceptance. Large N-age statistic analysis, is the most used method. Excepted specific objectives referred to available national index levels, for all the above expressed reasons, the quantified objectives are mostly expressed as variation rates.

C.3.4 Methodology for monitoring and measurement of outputs and results

Methodology for monitoring and measurement of outputs and results

MO1: Based on international experiences, the Bruxelles r-c studies (modified Baccini-Eurostat 2001) are used as base line and basic descriptive water model used. However, the analytic flows and inner urban water metabolism (processes) require from more specific data acquiring and specification (Zhang), the water supply planning in water deficit areas (Molinós-Hernandez) optimization model, will offer a good approximation to analytic model aspects. Others reference papers and applied models (conf.: Bibliographic review) will be taken in mind. National Statistic Institute, Watershed Institutes, Urban authorities, regional government databases, etc., will provide the baseline data.

MO2: The specialized legal boards of DGA and Alcoy, Alicante and Alcira cities, helped by University specialized department, will support the exhaustive norms analysis, from local to international level. It includes, UNO/UNEP/OCDE & FAO recommendations on water accounting, water fingerprint, LCA ISO's, value chains, and circular economy EU target's developments.

MO3: GIS (mapping), geo-radar (leaks detection), ITC monitoring support for water quality and flow analysis, are mainly supported by the three universities delivery partners. As emergent contaminants is concerned, UPV chemical dpt. will be in charge.

MO4: Expanded Data Envelopment Analysis (DEA), as well as cost-benefits matrices will be used in different scenarios for viability testing and checks. The Aquaenvic tool (LCA, LCC-costs minimization-) from LIFE10/ENV/ES/520 and new parametrization adds will be used.

MO5: Social investigation programs will be used. ACP, AFP, and ANOVA (SPSS, SPAD) analysis will be performed for principals descriptive acceptance range of implication, participation and actuation. It will define a scale of multidimensional project acceptance

The quantitative expected results will be calculated on the obtained baseline data.

*The attached PDF bibliography give guidance of chosen indicators.

C.3.5 Target groups

Target Groups

Main target groups are european authorities, concretely the water management policy and decision makers. This project aims to lead water policy makers to improve water management policies and regulation enabling better control systems and stimulation the application of best technologies in a scheme based in a circular economy approach.

As explained in WP3, target groups include main decision makers from industrial and agricultural sectors (Farmers communities and industrial bussiness associations) because they are the end-users of a significative porcentaje of the regenerated water (in most of the regeneration processes less than 25% of treated water reaches quality enough to be drinkable, however, more than 3/4 of the remaining 75% can be used for agricultural and industrial application following Eopean and national legislation. This is why, urban water circular economy involves the "use in cascade" with the participation of the mentioned industrial/agricultural sector in dependence of the main economic activity of the city. More concretely, Alcoy will involve its industrial bussiness association and industrial commerce camera. Alcira will implicate the farmers communities existing around the city, and Alicante will involve industrial as well as touristic sector SMEs as project target groups.

In a more directly approach, the inhabitants os three urban nuclei shall be considered as target groups. The communication strategy includes the participation of several social groups of the cities, developing activities for the involvement and awareness of all of them.

C.4 Project Project scaling up and transferability

C.4.1 Scaling up of the project

Scaling up of the project

Alcoy, the Main Urban authority, is a signatory of the Aalborg Carte in 1998 (The Charter of European Sustainable Cities and Towns Towards Sustainability). In addition, this action plan, as yet mentioned, is supported by the DGA (Key decision-maker, highest Regional Government Authority in water matters) and Alicante, the second most important city in the Valencian Region (450.000 habitants). It is per se, an applied scalable proposition.

The multi axis methodology that will be developed and applied, include a cost/inhabitant estimation, in function of implementation actions required to obtain the quantified MOR results. The DGA by the co-approval of UWD and UWC with cities, will study regional contributions to the implementation of the required actions (regional budget headings).

Moreover, the national-regional allocation investments will be considered. The own regional contributions will round 2.5 times/years the amount of the cost of this project. The prevision of UWD-UWC adherence is from 6 to 9 more urban and peri-urban authorities in the following 5 years, covering about 60% of total regional population (about 3.000.000 people), offering economic, social and environmental improvements to 25% of regional territory. In addition to the participating three urban nuclei, two more cities of the Valencian Region have already marked their interest.

C.4.2 Transferability of the project: evidence of demand for your project in other cities

Transferability of the project: evidence of demand for your project in other cities

Following the EEA previsions for climate change, it is obvious that all mediterranean and peri mediterranean cities will be the most affected by water scarcity. Moreover, saline intrusions (cf.: Alicante example) will appear in most costal european urban areas. Floods are also a corre-lated climate change phenomenon (cf.: Alcira example) more and more recurrent in north and central europe too. Water quality of pristine water (diffuse contamination, CEC's, eutrophica-tion, etc.) are a common EU and world concern. The choice of the three urban authorities involved in the resolution of this action scheme cover these situations.

In addition to those situations, the water-resource will then become a crucial issue in sustainability schemes. From the circular economy point of view, the water loop is the near perfect resource-candidate for the demonstration of this concept. Without sustainable water use, at same level that renewable energies, circular economy doesn't exist

This project, that meets investment priorities of EFRD, perfectly encompassed in the Europe 2020 strategy, will demonstrate that applied strategic approaches is the best future option to sustainable urban water management, perfectly transferable to others european cities.

As political aspects are concerned, various times water worked to either foster greater urban cohesion or generate new forms of political conflict. This last aspect is fortunately low-ered by historical and clear survival reasons in Valencian region. The european urban authori-ties should take example of their possible future looking at a seriously endangered region by water scarcity and their proposition of feasible solutions.

C.5 References

C.5.1 References of the project

References

Part D - Work plan

WP Nr.	Title	Work package type	Start date	End date
1	Preparation	Preparation	12/2016	10/2017
2	Project Management	Project Management	11/2017	10/2020
3	Communication	Communication	11/2017	10/2020
4	Urban Water Deal: Baseline and Framework Development	Implementation	11/2017	08/2018
5	Urban Water Deal Institutional Agreement Application in 3 case study by Urban Water Contract Implementation	Implementation	08/2018	05/2020
6	Academic Knowledge Extraction and Training Activities Development	Implementation	04/2018	10/2020
7	Social and Political Awareness	Implementation	11/2017	09/2020
8	Set of Investments in Public Urban Water Services Improvement	Investment	12/2018	10/2020
9	Closure and knowledge transfer	Closure	10/2020	10/2021



Number	WP Title	Start Date	End Date	WP budget
1	Project preparation	16/12/2016	31/10/2017	20,000.00

Partners' involvement

WP responsible partner Alcoy City Council

Summary

Preparation and submission of the application form

Work Package Budget

Partner name	Staff cost (€)	Office and administration (€)	Travel and accommodation (€)	External expertise and services (€)	Equipment (€)	Infrastructure and construction works (€)	Sub-Total (€)	Revenues (€)	Total (€)
Alcoy City Council	0.00	0.00	0.00	20,000.00	0.00	0.00	0.00	0.00	20,000.00

Work Plan Per Work Packages - WorkPackage 2 (Project Management Work Package)

Title	Project management
Start Date	01/11/2017
End Date	22/10/2020
Budget	369,913.55

Partners Involvement

Responsible Partner	PP 6 - Water General Directorate
Involved Partners	PP1 - Alcoy City Council PP2 - Alcira City Council PP3 - Alicante City Council PP4 - Valencian Polytechnic University PP5 - University of Valencia General Study PP6 - Water General Directorate PP7 - Alicante University
Summary	<p>DGA due to its competences, will act as the responsible partner of the Project Management WP. However, this activity will require the participation of all partners and public authorities involved. Project Management WP, will be implemented with the support and the advice of UPV as the Technical and Engineering coordinator. Both organizations will be supported by an independent group of experts who will carry out the technic-administrative work including the performance of necessary reports. This external group of experts with high experience in EU co-funded projects management tasks will guarantee the quality and transparency in project management achieving a teamwork by the use of a network among all the participants enabling the information flows. The project management WP objective is to catch these information flows making UIAPS know them.</p> <p>In this WP framework at least one report each 6 months will be sent to UIAPS. These reports will include the state of the project, its financial and temporal accomplishment and the selected quantitative and qualitative indicators measuring project results and social impact.</p> <p>Independent experts team will assign a score to each activity of the project in relation with its objectives fulfillment.</p>

Activities and Deliverables

Activity number	Activity title	Activity description and partners involved	Start date	End date
A2.1	Periodic Reporting to UIA Permanent Secretariat	<p>This activity will begin with a starting report, informing the initial situation of the project and establishing the baseline. A set of 5 additional reports will be sent to keep and adequate interaction between the UIA Permanent Secretariat and Project Partnership.</p> <p>An external technical team conducts this task, which help DGA, UPV and Public Authorities in preparing tasks and will carry out monitoring and supervision in an independent and impartial way. Reports will describe the status of the project according to technical and economic indicators of progress / supervision both technical and administrative progress, which together with the deliverables associated to each task reflect the work performed and the means allocated in each action.</p>	Start date 01/11/2017	End date 22/10/2020

Deliverable number	Deliverable and partners involved		Target value	Delivery date
D 2.1.1	Title	Initial Report	Target value 1	Delivery date 08/02/2018
	Description	This initial report will inform the baseline situation at the project starting. The measurement of results and the methodology used is described in section C3.3 and C3.4, however this report will enlarge the set of progress indicators that will be used and will settle the starting point.		
D 2.1.2	Title	First Milestones Report	Target value 1	Delivery date 26/07/2018
	Description	As the project will last for 36 and important milestones are achieved in the first 6, a second report after this first period is adequate to keep a reasonable communication with UIA permanent secretariat. This report will describe the status of the project according to technical and economic indicators of progress / supervision both technical and administrative progress, which together with the deliverables associated to each task reflect the work performed and the means allocated in each action for this period.		
D 2.1.3	Title	Mid-Term First Report	Target value 1	Delivery date 21/02/2019
	Description	The third Project Management report correspondig to the second activity period. The date has been scheduled to englobe the most importat milestones of this period. This report will describe the status of the project according to technical and economic indicators of progress / supervision both technical and administrative progress, which together with the deliverables associated to each task reflect the work performed and the means allocated in each action for this period.		
D 2.1.4	Title	Mid-Term Second Report	Target value 1	Delivery date 25/11/2019
	Description	A Project Management report for the third project period. This report will describe the status of the project according to technical and economic indicators of progress / supervision both technical and administrative progress, which together with the deliverables associated to each task reflect the work performed and the means allocated in each action for this period.		
D 2.1.5	Title	Final Period Initiation Report	Target value 1	Delivery date 05/05/2020
	Description	A Project Management Report before starting the last working phase. This report will describe the status of the project according to technical and economic indicators of progress / supervision both technical and administrative progress, which together with the deliverables associated to each task reflect the work performed and the means allocated in each action for this period.		
D 2.1.6	Title	Final Project Management Report	Target value 1	Delivery date 22/10/2020
	Description	The last Project Management report. It shall be in line and used as a baseline for the realization of the final progress report and the final qualitative report in the frame of "Clousure and Knowledge Transfer" WP. This report will describe the succes level at the end of the project according to technical and economic indicators of progress / supervision both technical and administrative progress, which together with the deliverables associated to each task reflect the work performed and the means allocated in each action for the whole Working Time.		

A.2.2	Project Activities Coordination	UPV and DGA will be the responsables of the coordination of project activities. As engineering university, UPV has the capability for technical and academic tasks coordination and supervision. DGA as regional government entity, has the capability for coordinating urban authorities participation. As a complex and multidisiplinary project with an actors wide spectrum, this one requires a meticulous coordination that could guarantee the accomplishment of the objectives in the scheduled time.	Start date 01/11/2017	End date 22/10/2020
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Deliverable number	Deliverable and partners involved		Target value	Delivery date
D 2.2.1	Title	Project Coordination Tasks	Target value 1	Delivery date 22/10/2020
	Description	A report with a record of all the coordination activities: Necessary meetings, e-mails, guidances etc, will shape this deliverable.		

Work Package Budget

PP1 - Alcoy City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	As the Main Public Authority, this partner's staff are the responsible of communication with UIAPS thus will have constat staff working on, in a partial time.	N/A						
Amount (€)	8,916	1,337.40	0	0	0	10,253.40	0	10,253.40
PP2 - Alcira City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Some work ours of this partner's staff will be dedicated to Project Management Tasks throughout the Project	N/A						
Amount (€)	1,836	275.40	0	0	0	2,111.40	0	2,111.40
PP3 - Alicante City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Some work ours of this partner's staff will be dedicated to Project Management Tasks throughout the Project	N/A						
Amount (€)	1,836	275.40	0	0	0	2,111.40	0	2,111.40
PP4 - Valencian Politechnic University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	The required personal for partnership coordination and project management tasks. At least one person will dedicate nerby 40-50% of work time to this WP	N/A	This amount will cover all the necessary displacements among the City Councils, UPV and DGA offices for Project Management tasks. As well traels to appointments and meeting with other stakeholders					
Amount (€)	31,899	4,784.85	8,000	0	0	44,683.85	0	44,683.85
PP5 - University of Valencia General Study	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Some work ours of this partner's staff will be dedicated to Project Management Tasks throughout the Project	N/A						
Amount (€)	1,625	243.75	0	0	0	1,868.75	0	1,868.75

PP6 - Water General Directorate	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Some work ours of this partner's staff will be dedicated to Project Management Tasks throughout the Project	N/A		The implementation of this WP will be supported for an external group of experts in Project Management in order to ensure the the quality of the work				
Amount (€)	18,000	2,700.00	0	286,316	0	307,016.00	0	307,016.00
PP7 - Alicante University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Some work ours of this partner's staff will be dedicated to Project Management Tasks throughout the Project	N/A						
Amount (€)	1,625	243.75	0	0	0	1,868.75	0	1,868.75
Total (€)	65,737.00	9,860.55	8,000.00	286,316.00	0.00	369,913.55	0.00	369,913.55

Indicative budget breakdown per year					
Year	2017	2018	2019	2020	Total
Amount (%)	30 %	15 %	20 %	35 %	100.00 %
Budget (€)	110,974.06	55,487.03	73,982.71	129,469.74	369,913.55

Work Plan Per Work Packages - WorkPackage 3 (Communication Work Package)

Title	Communication
Start Date	12/11/2017
End Date	22/10/2020
Budget	123,986.95

Partners Involvement

Responsible Partner	PP 6 - Water General Directorate
Involved Partners	PP1 - Alcoy City Council PP2 - Alcira City Council PP3 - Alicante City Council PP4 - Valencian Polytechnic University PP5 - University of Valencia General Study PP6 - Water General Directorate PP7 - Alicante University

Summary

The communication strategy will be developed in two levels. In an international level, the participation in european platforms, entities and programmes such as URBACT, EUROCITIES, Energycities, EIP water and WssTP will be used for communication actions disseminating the information along Europe. As well, the position of Valencian Government in the European Committee of the Regions is an important factor for policy actors awareness.

In a local level, the involvement of further local authorities and decision-makers is a communication priority, as well as the involvement of civil organizations (as mentioned in section C2.3 and C2.4). This will be achieved by official acts (that will be done coinciding with the main project milestones) coordinated by DGA.

For non governmental communications, UPV and UV will play a fundamental role by involving the University Community in the communications actions, a key sector in the objectives achievement. Both university will enable the participation of the project's partnership in seminars and conferences related with water management. Moreover, Universities will perform together a set of scientific and non-scientific publications about the project's achievements, for example in the magazine "Urban Water Journal". There is agreed with local journals that will publish relevant articles

DGA and Urban Authorities will enable a site inside its webs, for publishing all the project's news and other relevant information.

Communication objective

In the water circular economy context, one of the main impediments is the lack of public acceptance of the reused water due to the popular beliefs about it could have worse quality than the pristine water. The objective of this WP is to respond to the public worry enabling the public acceptance of re-used water if it has been properly treated.

Target groups

In a first approach, main target groups will be the inhabitants of the urban areas involved in this project. Also, decision-makers of the industrial (impresarios associations) and agricultural (agriculteurs and irrigators communities) sectors who will be the end-users of a significative percentage of reused water. Urban authorities from nearby areas will be the second target group and in a wider view, all the European Urban authorities and of course, other water management policy makers.

Activities and Deliverables

Activity number	Activity title	Activity description and partners involved	Start date	End date				
A.3.1	Start up activities	The start up event will consist on a great conference where one representative of each Urban authority, each Delivery Partner and UIAPS staff will explain their roles in the project. Representatives of main urban authority, DGA, UPV, UV and UIA Permanent Secretariat will offer a dissertation to explain the framework of the project and the possibilities that UIA offers for urban authorities in the region. Regional public authorities (Mayors), decision-makers and civil organizations will be summoned for DGA however, the event will be open for all citizens. DGA will as well launch a call for european public authorities. The act will be recorded and uploaded to the partner's website. This act will be celebrated on the UPV's events hall.	Start date 25/01/2018	End date 26/01/2018				
	Deliverable number	Deliverable and partners involved	Target value	Delivery date				
	D 3.1.1	<table border="1"> <tr> <td>Title</td> <td>Start up activity deliverable</td> </tr> <tr> <td>Description</td> <td>A digital format report about the act. It will be composed of a recording and pictures of the event as well as a transcription of the dissertations that will include the questions and answers as an indicator of the interaction with the public. A registration sheet with the signature of all the participants will be attached</td> </tr> </table>	Title	Start up activity deliverable	Description	A digital format report about the act. It will be composed of a recording and pictures of the event as well as a transcription of the dissertations that will include the questions and answers as an indicator of the interaction with the public. A registration sheet with the signature of all the participants will be attached	Target value 1	Delivery date 26/01/2018
Title	Start up activity deliverable							
Description	A digital format report about the act. It will be composed of a recording and pictures of the event as well as a transcription of the dissertations that will include the questions and answers as an indicator of the interaction with the public. A registration sheet with the signature of all the participants will be attached							
A.3.2	Publications	UPV has already agreed with the scientific journal "Urban Water Journal" that at least one article will be published for the UIA project. Several other newspaper are foreseen to publish articles about this project. Urban Water Deal Document will be done as an "all together" publication between all the partners. This last publication will be part of the teaching materials of the master degree developed in WP6. These publications will, of course, make clear reference to the ERDF and the UIA funding.	Start date 22/08/2019	End date 20/10/2020				

Deliverable number	Deliverable and partners involved		Target value	Delivery date
D 3.2.1	Title	"Urban Water Journal" Article	Target value 1	Delivery date 15/01/2020
	Description	A copy of the "Urban Water Journal" with an article about this UIA project will be delivered. This article will explain in a scientific level language, the project's details, in order to achieve a good awareness in the scientific community. Urban Water Journal aims to provide a forum for the research and professional communities dealing with water-related and water-based systems in the urban environment.		
D 3.2.2	Title	Compendium of articles	Target value 1	Delivery date 15/09/2020
	Description	A compendium of all published articles, in relation with this project, will be delivered close to the end project date. There exist several potential journals, magazines and newspapers that is expected to be interested in the project. The "Publications" activity will lead to achieve quality and numerous publications that will be reflected on this deliverable.		
D 3.2.3	Title	Urban Water Deal Document	Target value 1	Delivery date 21/11/2019
	Description	Urban Water Deal, is one of the main project's outputs. As a communication activity, this document will be published as a single book. A copy of this book will be delivered as a project's deliverable.		

A.3.3	Digital activity	All partners are going to create a new site on their web to announce their participation in the project. As well, a new web will be created, where all the partners will contribute. This website will consist on two parts, one of them is the "Urban Water Portal" which is an output of the implementation WP4. The other part of the website will be a portal for project knowledge spread. This part will be done as a communication WP digital activity. Web site will be created by partners own staffs. Nevertheless, Project's Partnership will work hard for having a significative presence in social media. The creation of a Twitter, Facebook and LinkedIn account are guaranteed.	Start date 10/01/2018	End date 21/10/2020
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Deliverable number	Deliverable and partners involved		Target value	Delivery date
D 3.3.1	Title	Compendium of news published in the Partners and Urban Authorities websites	Target value 1	Delivery date 21/10/2020
	Description	As all partners will publish informations on their own websites, this compendium will compile all the digital communication works for their own websites.		
D 3.3.2	Title	Project's Website	Target value 1	Delivery date 15/01/2018
	Description	After the project's approval, partners will create all together a website. A document with the description of this website will be a deliverable for this activity.		

A.3.4	Public events	As explained in section C.2.4, is expected to make at least 1 public act each 6 months since the starting date. This acts will include the participation of main stakeholders to explain the project's achievements in public awareness. Acts will be organized as a public chat, where all assistants will be able to ask questions after the projects representatives spoken. As the start up event, these activities are planned to be realized in the UPV events hall, however it could change, realizing activities in each participating city (Alcoy, Alira, Alicante) to assure a fair geographical localizations distribution. Participation in other public events like seminars and conferences, as national, international as UIA organized is foreseen.	Start date 05/04/2018	End date 22/10/2020
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Deliverable number	Deliverable and partners involved		Target value	Delivery date
D 3.4.1	Title	First Public Event, Transcription and Record	Target value 1	Delivery date 14/06/2018
	Description	A file that will include the transcription of the discourse and subsequent dialogues as well as a video record of the activity. In the implementation WP "Social Awareness" these records and transcription will be used to analyze the impact of the project effects on population.		
D 3.4.2	Title	Second Public Event, Transcription and Record	Target value 1	Delivery date 24/01/2019
	Description	A file that will include the transcription of the discourse and subsequent dialogues as well as a video record of the activity. In the implementation WP "Social Awareness" these records and transcription will be used to analyze the impact of the project effects on population.		
D 3.4.3	Title	Third Public Event, Transcription and Record	Target value 1	Delivery date 15/08/2019
	Description	A file that will include the transcription of the discourse and subsequent dialogues as well as a video record of the activity. In the implementation WP "Social Awareness" these records and transcription will be used to analyze the impact of the project effects on population.		
D 3.4.4	Title	Forth Public Event, Transcription and Record	Target value 1	Delivery date 20/02/2020
	Description	A file that will include the transcription of the discourse and subsequent dialogues as well as a video record of the activity. In the implementation WP "Social Awareness" these records and transcription will be used to analyze the impact of the project effects on population.		
D 3.4.5	Title	Fifth Public Event, Transcription and Record	Target value 1	Delivery date 13/08/2020
	Description	A file that will include the transcription of the discourse and subsequent dialogues as well as a video record of the activity. In the implementation WP "Social Awareness" these records and transcription will be used to analyze the impact of the project effects on population.		
D 3.4.6	Title	Sixth Public Event, Transcription and Record	Target value 1	Delivery date 20/10/2020
	Description	A file that will include the transcription of the discourse and subsequent dialogues as well as a video record of the activity. In the implementation WP "Social Awareness" these records and transcription will be used to analyze the impact of the project effects on population.		
D 3.4.7	Title	Participation in external events	Target value 1	Delivery date 20/10/2020
	Description	The participation in other events like seminars and confereces is expected. This participacion can be either as public or as spoker. The assitance to the events will be recorded in a report that will be a deliverable for this action.		

A3.5	Promotional material	Regenerated bottled water and desalinated bottled water, is a new concept of promotional material. When waste water is submitted to a regeneration proces good enough to make it drinkable (e.g.nano-filtration) it could be called regenerated water. Desalinated is a seawater submitted to a desalination process. Both waters will be produced by using DGA water treatment infrastrucutres and will be bottled for human consumption. This promotional material is linked to the WP7 and will be used in the raising awareness activities. Also, as a promotional material, will be given in the project's public events and as a present for key decision-makers in order to demonstrate the healthiness of these waters. Promotional pens are also considered here.	Start date 05/02/2018	End date 25/03/2020
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Deliverable number	Deliverable and partners involved		Target value	Delivery date
D 3.5.1	Title	Regenerated and Desalinated Bottled Water	Target value 3	Delivery date 25/03/2020
	Description	At least 3 different kinds of regenerated/desalinated water will be produced while the project implementation. These kinds of water will be bottled for human consumption and one bottle of each kind will be sent to the UIA permanent secretariat. These at least three bottles will be the deliverable of this activity, including a report that will explain the regeneration/desalination process		

A3.6	Media relations	<p>DGA and other project partners are important entities in national or even european level. Project's news are expected to attract as much national as international media. Currently part of the work for media contacting is already done.</p> <p>TV Mediterráneo, a TV channel of the valencian region, is already interested in covering the news related to the UIA project, having agreed will cover the start up activity.</p> <p>Several national radio have shown as well their interest in talking about the project.</p> <p>UPV radio and UPV tv, are the UPV media channels which have national scope. Are as well followed by internet across the world by university public. Since UPV is a project partner, there is guaranteed that will use its own media for project diffusion.</p>	<p>Start date</p> <p>12/11/2017</p>	<p>End date</p> <p>11/10/2020</p>
	<p>Deliverable number</p>	<p>Deliverable and partners involved</p>	<p>Target value</p>	<p>Delivery date</p>
	<p>D 3.6.1</p>	<p>Title</p> <p>Media Relations File</p> <p>Description</p> <p>A file including the record of all the press appearances (press releases, photos, fact sheets) as well as a report of all media contact will be performed as deliverable for this activity.</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>11/10/2020</p>

A3.7	Final dissemination activity (mandatory)	<p>The final communication activity will consist on the organization of the International Urban Water Conferences, a public event where international experts (e. g. BATir: http://batir.ulb.ac.be; Ecores, are expected to come) and UIA permanent secretariat will be encouraged to participate as speakers. Conferences will consist on water management innovations and new achievements and, of course, UIA Program (as PS) and this project results and attainments</p> <p>Urban Authorities and decision-makers around Europe will be invited to the event as well as Civil Society and SME's representatives.</p> <p>UPV events hall will serve as a perfect place for this activity</p> <p>This event will be co-financed by regional government, and private and public enterprises.</p>	<p>Start date</p> <p>20/10/2020</p>	<p>End date</p> <p>22/10/2020</p>
	<p>Deliverable number</p>	<p>Deliverable and partners involved</p>	<p>Target value</p>	<p>Delivery date</p>
	<p>D 3.7.1</p>	<p>Title</p> <p>Final Event Record</p> <p>Description</p> <p>A file including a video record of the event, a transcripto of the event discussions and dialogues and a report with the explanation of how the event has been carried out.</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>22/10/2020</p>

Work Package Budget

PP1 - Alcoy City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Alicante city Council staffs will mandatory participate in all public events as organizing and supporting DGAas speakers. As well will participate in media relations, website and publication -Website	N/A	Car travels to assist the events (from Alcoy to either Alcira, Alicante or Valencia). Also travels to assist to external events are contemplated in this section	·Participation in external events (registration fees) ·Promotional material acquisition				
Amount (€)	4,447	667.05	1,641	2,675	0	9,430.05	0	9,430.05
PP2 - Alcira City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Alcira city Council staffs will collaborate in all public events as organizing and supporting DGAas speakers. As well will participate in media relations, website and publication -Website	N/A	Car travels to assist the events (From Alcira to either Alcoy, Alicante or Valencia) Also travels to assist to external events are contemplated in this section	·Participation in external events (registration fees) ·Promotional material acquisition Promotional Pens)				
Amount (€)	3,398	509.70	550	2,675	0	7,132.70	0	7,132.70
PP3 - Alicante City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Alicante city Council staffs will collaborate in all public events as organizing and supporting DGAas speakers. As well will participate in media relations, website and publication -Website	N/A	Car travels to assist the events (From Alicante to either Alcoy, Alcira or Valencia) Also travels to assist to external events are contemplated in this section	·Participation in external events (registration fees) ·Promotional material acquisition (
Amount (€)	3,410	511.50	1,650	2,675	0	8,246.50	0	8,246.50
PP4 - Valencian Polytechnic University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	UPV will have a key role in publications, media relations and in the organization of communications events. UPV will use its own staff combined with students volunteer work -Website	N/A	Most of the events will be done in Valencia, however is expected to make at least one public event in Alicante Province. Participation in external events will need a budget reservation for travels	Participation in external events (registration fees)	Since UPV is contributing with its own events hall for public events, normal fees (1500€/day) shall be considered as seen in the link: http://www.upv.es/entidades/AG/info/web/ag/info/tarifas2016.pdf			
Amount (€)	7,469	1,120.35	1,050	675	9,000	19,314.35	0	19,314.35

PP5 - University of Valencia General Study	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Professor Frances will be responsible of the drafting of most of the publications and will have a key role as speaker in public events. His fees are contemplated here -Website	N/A	Most of the events will be done in Valencia, however is expected to make at least one public event in Alicante Province. Participation in external events will need a budget reservation for travels	Participation in external events (registration fees)				
Amount (€)	4,911	736.65	1,050	675	0	7,372.65	0	7,372.65
PP6 - Water General Directorate	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	-Staff coordinating Communication activities through the office for media relations and communications of the Valencian Regional government. -Website	N/A	This item will cover DGA representatives travels to attend the events. As well travels for invited personalities are budgeted here.	-Participation in external events -Payment for press appearances and publicity -Publication of the book "Urban Water Deal" (1000 copies, around €5 each copy) International experts participation	Promotional Gifts Costs. 25,000 bottles (Around €1 per bottle) including the plastic bottle, the labels, transport and the cost of desalination/regeneration processes			
Amount (€)	8,740	1,311.00	15,050	15,636	25,512	66,249.00	0	66,249.00
PP7 - Alicante University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Participating in Events as well as in the web design	N/A	Car travels to assist the events (from Alcoy to either Alcira, Alicante or Valencia). Also travels to assist to external events are contemplated in this section	Participation in external events (registration fees)				
Amount (€)	3,418	512.70	1,636	675	0	6,241.70	0	6,241.70
Total (€)	35,793.00	5,368.95	22,627.00	25,686.00	34,512.00	123,986.95	0.00	123,986.95

Indicative budget breakdown per year					
Year	2017	2018	2019	2020	Total
Amount (%)	25 %	20 %	20 %	35 %	100.00 %
Budget (€)	30,996.74	24,797.39	24,797.39	43,395.43	123,986.95

Work Plan Per Work Packages - WorkPackage 4 (Implementation Work Package)

Title	Urban Water Deal: Baseline and Framework Development
Start Date	22/11/2017
End Date	15/08/2018
Budget	312,250.90

Partners Involvement

Responsible Partner	PP 6 - Water General Directorate
Involved Partners	PP1 - Alcoy City Council PP2 - Alcira City Council PP3 - Alicante City Council PP4 - Valencian Polytechnic University PP5 - University of Valencia General Study PP6 - Water General Directorate PP7 - Alicante University
Summary	<p>Urban Water Deal (UWD) is a functional conceptual model for urban water management, based on Metabolic Ecosystemic approach to urban ecosystem. UWD is being created with the aim of being applicable to every urban area.</p> <p>The actions included in this WP describe the main sections of the UWD. Inside this WP, the definition of the Metabolic-Ecosystemic Flows Scheme is shaping . UWD is still a concept framed for the knowledge and experience of the partnership. Even though the partner's capacities are excellent for this task, the implementation of the project solution is not only made of good will, but it needs a big amount of work. This WP tackles the necessary works performance.</p> <p>Starting with a Legislation and Policy revision as a baseline and frame definition. Once it's finished, university experts and authorities technicians will develop the methodology for UWD implementation. After that the Urban Water Portal website will be done as a management and social awareness tool. The subsequent action consists in the proposition of the adequate training for civil servants implementing a water circular economy scheme.</p> <p>This WP will finish with the creation of the Urban Water Contract, a binding political compromise which shall be signed for each authority implementing the UWD getting closer to the circular economy.</p>

Activities, Deliverables and Outputs

Activity number	Activity title	Activity description and partners involved	Start date	End date
A.4.1	Legislation and Policy Revision	<p>This activity will include the revision of regional, national and EU legislative frameworks in order to detect legislative barriers and bottlenecks as well as opportunities for reinforce water regulation. In the same way this activity shall detect european initiatives and strategies that could make synergies with the Urban Water Deal (UWD).</p> <p>As a preparation for WP5 this activity shall generate an adequate methodology for locals laws analysis and its positive or negative influence in the UWD implementation.</p> <p>As spanish government entities, DGA and 3 Urban Authorities have the capacity to demand legal consultancy support to spanish state through the state's legal consultancy department DGA will use as well regional government laws consultants</p>	Start date 22/11/2017	End date 29/03/2018
	Deliverable number	Deliverable and partners involved	Target value	Delivery date
	D 4.1.1	<p>Title Legal Revision Summary</p> <p>Description A report with a summary of the work performed in this action will be sent as deliverable for this activity. The main conclusions, as bottlenecks and regulatory regulatory barriers for best technologies applications, will be on a special section for facilitate its revision by the UIA Permanent Secretariat and, if required, for the pertinent UIA expert. Will be delivered together with a report about how the work has been performed.</p>	Target value 1	Delivery date 29/03/2018
	Output Number	Project output	Target value	Delivery date
	O4.1.1	<p>Title Laws Revision</p> <p>Description A report created by project's partners, where all the water concerning regulation, from regional (Comunidad Valenciana), national (Spain) and European, will be compiled. As well an analysis of this regulation in order to detect normative bottlenecks and regulatory barriers to the Urban Water Deal Performance.</p>	Target value 1	Delivery date 29/03/2018

A4.2	UWD Implementation Methodology and Guidelines	<p>With the participation of both academic and governmental sectors, this activity will be able to create the adequate methodology for the performance of following activities:</p> <p>4.2.1 Investigation of society's feeling and social acceptance baseline 4.2.2 Study of economic aspects and costs distribution 4.2.3 Infrastructures revision, cartography and 3D modelling 4.2.4 Data acquisition protocols including the use of ITCs for monitoring 4.2.5 Establishment of a baseline for Best Available Technologies and technics in relation with each urban authority problems and competences</p> <p>There exist several guidelines for circular economy implementation, climate change urban adaptation, water treatments for regeneration, that will consist the baseline for this action</p>	<p>Start date</p> <p>03/12/2017</p>	<p>End date</p> <p>21/06/2018</p>															
<table border="1"> <thead> <tr> <th data-bbox="225 459 359 517">Deliverable number</th> <th colspan="2" data-bbox="359 459 1134 517">Deliverable and partners involved</th> <th data-bbox="1134 459 1299 517">Target value</th> <th data-bbox="1299 459 1489 517">Delivery date</th> </tr> </thead> <tbody> <tr> <td data-bbox="225 517 359 663">D 4.2.1</td> <td data-bbox="359 517 507 575">Title</td> <td data-bbox="507 517 1134 575">Methodology and Guidelines</td> <td data-bbox="1134 517 1299 663">Target value</td> <td data-bbox="1299 517 1489 663">Delivery date</td> </tr> <tr> <td></td> <td data-bbox="359 575 507 663">Description</td> <td data-bbox="507 575 1134 663">A copy of all the methodology and guidelines developed will constitute the deliverable for this activity, together with a report about how the work has been performed.</td> <td data-bbox="1134 575 1299 663">1</td> <td data-bbox="1299 575 1489 663">21/06/2018</td> </tr> </tbody> </table>					Deliverable number	Deliverable and partners involved		Target value	Delivery date	D 4.2.1	Title	Methodology and Guidelines	Target value	Delivery date		Description	A copy of all the methodology and guidelines developed will constitute the deliverable for this activity, together with a report about how the work has been performed.	1	21/06/2018
Deliverable number	Deliverable and partners involved		Target value	Delivery date															
D 4.2.1	Title	Methodology and Guidelines	Target value	Delivery date															
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Output Number	Project output		Target value	Delivery date															
O 4.2.1	Title	Methodology and Guidelines	Target value	Delivery date															
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A4.3	"Urban Water Portal" desing and planning	<p>"Urban Water Portal" is a website where the most important data bout urban water of each participating Urban Authority will be shared.</p> <p>Maps of urban water flows (in a simplified and figurative mode) will be use as a powerful information tool for stakeholders and other citizens who ill be able to express their opinion and make propositions as a kind of network. These maps will depict most important data, as energy consumption, water quality parameters, water reservoir volumes...</p> <p>This activity leads to the desing and planning of this on-line platform, the implementation of each map of each city is carried out in the WP5.</p>	<p>Start date</p> <p>22/01/2018</p>	<p>End date</p> <p>17/07/2018</p>															
<table border="1"> <thead> <tr> <th data-bbox="225 1263 359 1321">Deliverable number</th> <th colspan="2" data-bbox="359 1263 1134 1321">Deliverable and partners involved</th> <th data-bbox="1134 1263 1299 1321">Target value</th> <th data-bbox="1299 1263 1489 1321">Delivery date</th> </tr> </thead> <tbody> <tr> <td data-bbox="225 1321 359 1480">D 4.3.1</td> <td data-bbox="359 1321 507 1379">Title</td> <td data-bbox="507 1321 1134 1379">Urban Water Portal Report</td> <td data-bbox="1134 1321 1299 1480">Target value</td> <td data-bbox="1299 1321 1489 1480">Delivery date</td> </tr> <tr> <td></td> <td data-bbox="359 1379 507 1480">Description</td> <td data-bbox="507 1379 1134 1480">A document with a report about how the work has been performed and a "Urban Water Portal" website description and webmap.</td> <td data-bbox="1134 1379 1299 1480">1</td> <td data-bbox="1299 1379 1489 1480">17/07/2018</td> </tr> </tbody> </table>					Deliverable number	Deliverable and partners involved		Target value	Delivery date	D 4.3.1	Title	Urban Water Portal Report	Target value	Delivery date		Description	A document with a report about how the work has been performed and a "Urban Water Portal" website description and webmap.	1	17/07/2018
Deliverable number	Deliverable and partners involved		Target value	Delivery date															
D 4.3.1	Title	Urban Water Portal Report	Target value	Delivery date															
	Description	A document with a report about how the work has been performed and a "Urban Water Portal" website description and webmap.	1	17/07/2018															
<table border="1"> <thead> <tr> <th data-bbox="225 1489 359 1547">Output Number</th> <th colspan="2" data-bbox="359 1489 1134 1547">Project output</th> <th data-bbox="1134 1489 1299 1547">Target value</th> <th data-bbox="1299 1489 1489 1547">Delivery date</th> </tr> </thead> <tbody> <tr> <td data-bbox="225 1547 359 1749">O 4.3.1</td> <td data-bbox="359 1547 507 1606">Title</td> <td data-bbox="507 1547 1134 1606">Urban Water Portal</td> <td data-bbox="1134 1547 1299 1749">Target value</td> <td data-bbox="1299 1547 1489 1749">Delivery date</td> </tr> <tr> <td></td> <td data-bbox="359 1606 507 1749">Description</td> <td data-bbox="507 1606 1134 1749">Urban Water Portal is an interactive website that ill continue in use after the end of the projects. This website will be enlarged as more urban authorities will start joining and implementig the Urban Water Deal. This won't produce revenues, however will lead to a better administrative and management effectiveness improving the administration's environmental behaviour</td> <td data-bbox="1134 1606 1299 1749">1</td> <td data-bbox="1299 1606 1489 1749">17/07/2018</td> </tr> </tbody> </table>					Output Number	Project output		Target value	Delivery date	O 4.3.1	Title	Urban Water Portal	Target value	Delivery date		Description	Urban Water Portal is an interactive website that ill continue in use after the end of the projects. This website will be enlarged as more urban authorities will start joining and implementig the Urban Water Deal. This won't produce revenues, however will lead to a better administrative and management effectiveness improving the administration's environmental behaviour	1	17/07/2018
Output Number	Project output		Target value	Delivery date															
O 4.3.1	Title	Urban Water Portal	Target value	Delivery date															
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A4.4	Staffs Instruction Training basics for civil servants implementig the Urban Water Deal	<p>As UPV and UV have water management experts, researchers and teachers (e. g. Professor Francesc Hernandez, UV) this activity will consist on the definition of necessary skills and habilities that civil servants and other urban authorities require for the best understanding and performance of the circular economy.</p> <p>Once the definition is performed and agreed between urban authorities, DGA and Universities, in the frame of this activity, the training activities and courses will be created in A6.1</p> <p>In this activity, the implication of external experts from european institutions and european universities as advisors, will be an essential phase, that will enable the collection of the best knowledge in Europe about Circular Economy issues</p>	<p>Start date</p> <p>04/12/2017</p>	<p>End date</p> <p>24/05/2018</p>															

Deliverable number	Deliverable and partners involved		Target value	Delivery date
D 4.4.1	Title	Training and courses description	Target value 1	Delivery date 24/05/2018
	Description	A report including all courses and training activities description (ternary, expected duration, target users...) The report will include a description on how the work has been performed (participant people, number of meetings, bibliography consulted, external experts that have taken part in the process...)		

Output Number	Project output		Target value	Delivery date
O 4.4.1	Title	Set of courses and training activities	Target value 1	Delivery date 24/05/2018
	Description	The set of courses and training activities developed in this activity, is an output that can be considered tangible or intangible (as knowledge is intangible but papers are tangible). This output will be used for others actions WP 5 and 7. As well, one of the expected results of this project is to achieve that other urban authorities sign the Urban Water Deal, so this output will remain in use after the end of the project and potentially will be updated along the time.		

A4.5	Public Authorities Political Compromises Proposal (Urban Water Contract)	Urban Water Deal will include a set of political compromises called "Urban Water Contract". This activity consist in the development of these political compromises in water management. Compromises will leave from a connexion between technical and academic part with the political actors. As well, this proposal will include the social view, extracted in the desing of this project. The Urban Water Contract will collect political compromises that a public authority shall sign for joining the "Urban Water Deal" These compromises will be made bearing in mind main european circular economy, urban and water political initiatives accomplishment. Aalborg carte, basque declaration and the covenant of mayors will constitute a baseline for this action	Start date 15/01/2018	End date 15/08/2018
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Deliverable number	Deliverable and partners involved		Target value	Delivery date
D 4.5.1	Title	Urban Water Contract	Target value 1	Delivery date 15/08/2018
	Description	A report summarizing the work performed and including the "Urban Water Contract" with all the political compromises that mayors will sign, will constitute the deliverable for this action.		

Output Number	Project output		Target value	Delivery date
O 4.5.1	Title	Political Compromises Document "Urban Water Contract"	Target value 1	Delivery date 15/08/2018
	Description	The Urban Water Contract will collects political compromises that a public authority shall sign for joining the "Urban Water Deal". These compromises will be sign for mayors of three participating urban authorities (Acoy, Alcira, Alicante). This fact constitutes a tangible output (signed documents) and an intangible output since politicians are compromising for doing a proper water management adapting the Urban Water Deal for their cities		



Work Package Budget

PP1 - Alcoira City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	In this WP, civil servants of this urban authority will dedicate part of their work time to work on the project's activities. From administrators to technicians specialized in water management	N/A	This WP involves a necessary set of meetings with at least one representative of each entity shall be present. Most of them will take place in Valencia city so transport costs are budgeted here.	-External expert's fees for legal consultancy, mainly A4.1 but also in all the other activities -External expert's fees for policy advise in A4.5				
Amount (€)	15,038	2,255.70	10,974	8,950	0	37,217.70	0	37,217.70
PP2 - Alcira City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	As salary in all the city councils are approximately the same, there is budget the same amount of money for each Urban Authority. The three will have same participation on this WP.	N/A	This WP involves a necessary set of meetings with at least one representative of each entity shall be present. Most of them will take place in Valencia city so transport costs are budgeted here.	-External expert's fees for legal consultancy, mainly A4.1 but also in all the other activities -External expert's fees for policy advise in A5.5				
Amount (€)	15,038	2,255.70	11,182	3,400	0	31,875.70	0	31,875.70
PP3 - Alicante City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	As salary in all the city councils are approximately the same, there is budget the same amount of money for each Urban Authority. The three will have same participation on this WP.	N/A	This WP involves a necessary set of meetings with at least one representative of each entity shall be present. Most of them will take place in Valencia city so transport costs are budgeted here.	-External expert's fees for legal consultancy, mainly A4.1 but also in all the other activities -External expert's fees for policy advise in A4.5				
Amount (€)	15,038	2,255.70	10,824	3,550	0	31,667.70	0	31,667.70
PP4 - Valencian Polytechnic University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	UPV representative (Prof. Guillem) will work partially in this WP. In a timely manner Prof. Guillem will distribute and coordinate work between different UPV specialists (Professors, researchers...)	N/A	This WP involves a necessary set of meetings with at least one representative of each entity shall be present. Meetings with different members of the university and project collaborators are budgeted	UPV will require external advise and assistance for actions A4.2 and A4.4 UPV coordinator will select advisors from other european countries to cover a wide range of expertise	An intensive use of UPV equipment (meeting room computers...) shall be offset			
Amount (€)	37,029	5,554.35	12,077	12,642	1,700	69,002.35	0	69,002.35

PP5 - University of Valencia General Study	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	The Research Group in Water Economy is a key participant on this WP. Professor Hernandez (group director) will dedicate a great percentage of his worktime and will coordinate his Group participation	N/A	This WP involves a necessary set of meetings with at least one representative of each entity shall be present. Meetings with different members of the university and project collaborators are budgeted	UV will require external advise and assistance for actions A4.2 and A4.4 UV coordinator will select advisors from other european countries to cover a wide range of expertise				
Amount (€)	32,181	4,827.15	11,927	12,254	0	61,189.15	0	61,189.15
PP6 - Water General Directorate	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	DGA's technics will provide the necessary support for the implementation of this WP. Technics and DGA's Director will work on a partial time for this WP. Salaries are civil servant normal salaries.	N/A	This WP involves a necessary set of meetings with at least one representative of each entity shall be present. Necessary meetings with other regional government entites are also budgeted here.	-External expert's fees for legal consultancy, mainly A4.1 -External expert's fees for policy advise in A4.5 -External informatc and programation expert's fees for A4.3				
Amount (€)	18,924	2,838.60	12,246	22,517	0	56,525.60	0	56,525.60
PP7 - Alicante University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Department of ecology of UA will collaborate on the development of this WP. Some staff will dedicate part of their work time to the project implementation	N/A	This WP involves a necessary set of meetings with at least one representative of each entity shall be present. Meetings with different members of the university and project collaborators are budgeted	UA will require the assistance of external experts mainly in A4.2 and A4.5				
Amount (€)	15,758	2,363.70	5,406	1,245	0	24,772.70	0	24,772.70
Total (€)	149,006.00	22,350.90	74,636.00	64,558.00	1,700.00	312,250.90	0.00	312,250.90

Indicative budget breakdown per year					
Year	2017	2018	2019	2020	Total
Amount (%)	10 %	90 %	0 %	0 %	100.00 %
Budget (€)	31,225.09	281,025.81	0.00	0.00	312,250.90

Indicative budget breakdown per activity		
Activity	Amount (%)	Budget (€)
A 4.1	20 %	62,450.18
A 4.2	26 %	81,185.23
A 4.3	14 %	43,715.13
A 4.4	25 %	78,062.73
A 4.5	15 %	46,837.64
Total	100.00 %	312,250.90

Work Plan Per Work Packages - WorkPackage 5 (Implementation Work Package)

Title	Urban Water Deal Institutional Agreement Application in 3 case study by Urban Water Contract Implementation
Start Date	20/08/2018
End Date	28/05/2020
Budget	337,081.95

Partners Involvement

Responsible Partner	PP 6 - Water General Directorate
Involved Partners	PP1 - Alcoy City Council PP2 - Alcira City Council PP3 - Alicante City Council PP4 - Valencian Polytechnic University PP5 - University of Valencia General Study PP6 - Water General Directorate PP7 - Alicante University

Summary	Once WP4 has developed the Urban Water Deal (UWD) frame (Legal, technical, socio-economic and political, methodological aspects) and while in WP6 (A6.1) the necessary courses and training activities are being developing to be used in A5.5 at the end of this WP5, the UWD shall be putted into practice through this WP. In this WP, the three participating urban authorities City of Alcoy, Alcira and Alicante) will implementate UWD. During the implementatin of this WP, the viability of this concept will be assessed with the aim to transfer it to other locations and for circular economy of other resources. After the finalization of this WP, DGA as the regional government entity responsible of water management, will elevate the UWD and the extracted knowledge to the European Comitee of the Regions as a proposal for a interregional new water management regulation for the achievement of a real water circular economy. As well, the results of this WP will be trasfered to other urban authorities around Europe (WP9) as an example of good practices and better regulations real application. Even though it couldn't exist without other WP, this one is the most important WP since its a real application of currently existent best practices and new regulations that will be proposed.
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Activities, Deliverables and Outputs

Activity number	Activity title	Activity description and partners involved	Start date	End date				
A.5.1	Political Compromises Signature	Political compromises developed in WP4 A4.5 will be signed in this action. The act is planned to be made in one of the Communication events refered in WP3 A3.4 and will be performed after the end of A4.5 since WP4 is mandatory previous to this WP. The act of signing will join 3 Urban Authorities mayors and DGA directeur and will be performed in each city council and in DGA office as a centralizer authority. These acts will take a week to be realized. The signature will start in Alcoy city council on August 20, later in Alcira on day 22, Alicante on day 24 and in DGA office on August 27 2017. A commemorative souvenir will be made.	Start date 20/08/2018	End date 27/08/2018				
	Deliverable number	Deliverable and partners involved	Target value	Delivery date				
	D.5.1.1	<table border="1"> <tr> <td>Title</td> <td>Political compromises signature</td> </tr> <tr> <td>Description</td> <td>Activity ends on August 27 2018. DGA civil servants will have the responsibility to redact this deliverable. Deliverable will include a record of the 4 signature events (three urban authorities and DGA, the responsible authority of water management in the regional government), a graphic reportage and a commemorative souvenir.</td> </tr> </table>	Title	Political compromises signature	Description	Activity ends on August 27 2018. DGA civil servants will have the responsibility to redact this deliverable. Deliverable will include a record of the 4 signature events (three urban authorities and DGA, the responsible authority of water management in the regional government), a graphic reportage and a commemorative souvenir.	Target value 1	Delivery date 27/08/2018
Title	Political compromises signature							
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	Output Number	Project output	Target value	Delivery date				
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Description	This activity will produce an intangible, very valuable output. This output is a formal signed commitment of each urban authority and DGA (three city councils and DGA, the responsible authority of water management in the regional government), to adopt the best practices on urban water management. These compromises will remain in force after the end of the project.							

A5.2	Local Norms and Policies Revision	<p>Even though legislation revision in regional, national and european level has been performed in WP4 A4.1, this action carries out a local legislation revision in each urban authority. These revisions will be a necessary baseline for the succes of the A6.4. Revision will be performed by using the methodology developed in WP4.</p> <p>Civil servants, from the legal department of each authority, are in charge of. Special attention for the inclusion of Circular Economy, LCA and Eco-Efficiency concepts will be included.</p> <p>Universities will collaborate, but are not responsables for this activity.</p>	<p>Start date</p> <p>03/09/2018</p>	<p>End date</p> <p>10/01/2019</p>
	<p>Deliverable number</p> <p>D 5.2.1</p>	<p>Deliverable and partners involved</p> <p>Title: Report of Regulations and Policies Revision</p> <p>Description: This report will analyze the regulatory bottlenecks and normative barriers for implementation of Integrated Urban Water Management issues. The absence of clear (but foreseen) transnational, national and regional transposition of EU norms in CECs, circular economy and eco-efficiency are concerned, produces a local normative imlementation gap.</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>10/01/2019</p>
	<p>Output Number</p> <p>O 5.2.1</p>	<p>Project output</p> <p>Title: Local Regulations and Policies Improvement</p> <p>Description: By means of this analysis, a better match between policies and regulations will be achieved. As developed in UWC binding covenant (Section C1.2) BPs on urban water public management, will receive a regulatory support that currently doesn't exists (Overall in maters of water circular economy, eco-efficiency, public service efficiency and CECs). This experience approach will be offered to EU transposition. Medium & long terms benefits are expected from this output.</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>10/01/2019</p>

A5.3	Implementation of Water Socio-Economics Aspects Studies	<p>By means of the methodology develop in WP4 A4.2, the three urban authorities will perform socio-economic studies (sociological, viability and costs re-distribution approach). Once key aspects identified, urban authorities will be the responsible of procedures and BPs applications following the headlines of the above developed Institutional Agreement UWD and its Binding Covenant UWC. Parametrisation studies, following multi-actors requisites, will be obviously integrated in this action. Once A5.4 is started and UW Portal (develop in A4.4) is fulfill with each urban authority data, cocio-economic analysis of the extracted data starts.</p>	<p>Start date</p> <p>10/01/2019</p>	<p>End date</p> <p>21/04/2020</p>
	<p>Deliverable number</p> <p>D 5.3.1</p>	<p>Deliverable and partners involved</p> <p>Title: Common Socio-Economic Scheme Implementation</p> <p>Description: Economic and viability studies of proposed actions for integral urban and peri-urban water management improvements, social investigation (social and public sense of urban water paradigm modification, change of urban water management organitacional scheme and water related conflicts resolution).</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>21/04/2020</p>
	<p>Output Number</p> <p>O 5.3.1</p>	<p>Project output</p> <p>Title: Socio-Economic Water Aspects Improvement</p> <p>Description: This action will lead to the achievement of an intangible, very valuable output. A better management of socio-economic urban water issues will be obtained. A more fairness of water treatment costs distribution and a better social acceptance of these costs is one of the considerable results of this action. Other interesting result will be the detection of the factors that determine water costs and its impacts on circular economy transition.</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>21/04/2020</p>

A5.4	Technical Actions Implementation	<p>Through methodology and baseline developed in WP4 (A4.2.3, A4.2.4 and A4.2.5), technical and engineering urban water management actions will be implemented here. This action is directly linked with I8.1 and will lead to a set of improvement proposals (design of innovative infrastructures necessary for a circular economy transition and water management eco-efficiency increase) shaped in I8.3.</p> <p>This action includes the obtention of water supply and discharge net cartography (monitoring critical spots), leaks detection, collectors visual inspection, contamination points identification... Obtention and transposition of data to the Urban Water Portal</p>	<p>Start date</p> <p>22/04/2019</p>	<p>End date</p> <p>06/12/2019</p>	
	Deliverable number	Deliverable and partners involved		Target value	Delivery date
	D 5.4.1	<p>Title</p> <p>Technical Studies Report</p>	<p>Description</p> <p>All referred technical actions above mentioned will be extensively reported. This reports compendium, will be eminently technic and very huge. It will be performed by Universite's experts working together with SMEs specialist. The complexity of the multi-disciplinary accomplishments will be here unaffordable. One report for each urban authority will be sent.</p>	<p>Target value</p> <p>3</p>	<p>Delivery date</p> <p>06/12/2019</p>
	Output Number	Project output		Target value	Delivery date
	O 5.4.1	<p>Title</p> <p>Technical Studies Implementation Results</p>	<p>Description</p> <p>This output consist in the strategic operative improvements and action scaling up for the fulfillment of goals of efficiency and eco-efficiency from the point of view of circular economy and water value chain. As postuled in the UWD-UWC enabling key covenant.</p>	<p>Target value</p> <p>3</p>	<p>Delivery date</p> <p>06/12/2019</p>

A5.5	Civil Servant Training	<p>As circular economy and eco-efficiency are concepts whose application is a new challenge for Urban Authorities around Europe, Civil Servants and other technicians working for the government, will need to be trained in these concepts in order to enable a real administration efficiency and quality on the offered services. In this action, the set of courses and training activities proposed in A4.4 and developed in A6.1, will be teached to the relevant staff in each urban authority. These courses, adequated to the job position of each staff, shall lead civil servants and technicians to a better understandig of the concept "circular economy" and the possibilities that it offers for money saving and environmental better practices development.</p>	<p>Start date</p> <p>22/10/2019</p>	<p>End date</p> <p>28/05/2020</p>	
	Deliverable number	Deliverable and partners involved		Target value	Delivery date
	D 5.5.1	<p>Title</p> <p>Civil Servant Training Activity</p>	<p>Description</p> <p>This deliverable, shall explain which subjects and courses have been teached to each staff and the pertinance of that in relation with the previuos experience and the job position of each one. Training staff will sign in a registry as a proof of its assitance, which will be useful as an indicator of the suces of this action.</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>28/05/2020</p>
	Output Number	Project output		Target value	Delivery date
	O 5.5.1	<p>Title</p> <p>Civil Servants and technicians better trained for Circular Economy Management</p>	<p>Description</p> <p>A very interesting and valuable intangible output will be extracted from this activity. The increase of managements and technics skills and habilities water circular economy related, will possibilittate a real implementation of a circular economy scheme for water. These habilities will generate benefits evn after the end of the project and shall be updties in the future to guarantee the highest efficiency of the local and regional administrations.</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>28/05/2020</p>



Work Package Budget

PP1 - Alcoira City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Alcoira Staffs will organize the first signature act in A5.1 In A5.2 will work on regulation revision. Will collaborate in A5.3 and A5.4 Staffs in training shall be paid for days invested in training A5.5	N/A	A5.1 transport of Mayors to events A5.5 transport to UPV to receive training	Social investigation studies in 5.3 will require external assistance for enquires and polls. A5.2 will require consultation to external experts A5.1 may require a small catering (coffee & croissants)	For events in A5.1 City Councils events rooms will be used as well as some material for assistants comfort. The degradation of this equipment by its use is covered here			
Amount (€)	32,713	4,906.95	1,175	24,431	382	63,607.95	0	63,607.95

PP2 - Alcira City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	A5.1 Alcira staffs will organize the second signature act In A5.2 will work on regulation revision. Will collaborate in A5.3 and A5.4 Staffs in training shall be paid for days invested in training A5.5	N/A	A5.1 transport of Mayors to events A5.5 transport to UPV to receive training	Social investigation studies in 5.3 will require external assistance for enquires and polls. A5.2 will require consultation to external experts A5.1 may require a small catering (coffee & croissants)	For events in A5.1 City Councils events rooms will be used as well as some material for assistants comfort. The degradation of this equipment by its use is covered here			
Amount (€)	29,957	4,493.55	1,128	19,419	345	55,342.55	0	55,342.55

PP3 - Alicante City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	A5.1 Alicante staffs will organize the third signature act In A5.2 will work on regulation revision Will collaborate in A5.3 and A5.4 Staffs in training shall be paid for days invested in training A5.5	N/A	A5.1 transport of Mayors to events A5.5 transport to UPV to receive training	Social investigation studies in 5.3 will require external assistance for enquires and polls. A5.2 will require consultation to external experts A5.1 may require a small catering (coffee & croissants)	For events in A5.1 City Councils events rooms will be used as well as some material for assistants comfort. The degradation of this equipment by its use is covered here			
Amount (€)	40,388	6,058.20	1,161	55,133	369	103,109.20	0	103,109.20

PP4 - Valencian Polytechnic University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	UPV experts will advice urban authorities in A5.3 As well UPV will take the leadership in A5.4 putting 5 experts in around 50% of worktime In A5.5 UPV professor will teach civil servants	N/A	In A5.3 and A5.4 UPV staffs will attend to coordination meetings in Urban Authorities locations. Also will travel to supervise the works performance		In A5.5 UPV will be the training center making available the use of its equipment for the training activities			
Amount (€)	35,600	5,340.00	2,720	0	1,680	45,340.00	0	45,340.00

PP5 - University of Valencia General Study	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	UV Professor F. Hernandez will have a key role in A5.3 as a consultant. In A5.4 will support UPV in specific tasks. In A5.5 UV Professors will teach civil servants together with UPVs	N/A	In A5.3 and A5.4 UV staffs will attend to coordination meetings in Urban Authorities locations. Also will travel to supervise the works performance					
Amount (€)	24,350	3,652.50	1,432	0	0	29,434.50	0	29,434.50
PP6 - Water General Directorate	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	DGA Staffs will organize the last signature act in A5.1. In A5.2 DGA's will work on regulation revision. In A5.4 DGA Staffs in training shall be paid for days invested in training in A5.5	N/A	Transport of DGA directeur and section chiefs to events performed in A5.1. Also the staffs displacements to UPV to receive lessons is budgeted here	A5.2 will require external laws experts advice. Also a small catering for event (A5.1) is budgeted here. In A5.5 some lessons will be taught for external experts which is budgeted here	For events in A5.1 DGA's events rooms will be used as well as some material for assistants comfort. The degradation of this equipment by its use is covered here			
Amount (€)	22,788	3,418.20	566	2,462	375	29,609.20	0	29,609.20
PP7 - Alicante University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	UA experts will support A5.3 in particular moments. As well UA will support A5.4 and A5.5 for particular tasks using around 10% of one staff worktime	N/A	In A5.3 and A5.4 UA staffs will attend to coordination meetings in Urban Authorities locations. Also will travel to supervise the works performance					
Amount (€)	8,557	1,283.55	798	0	0	10,638.55	0	10,638.55
Total (€)	194,353.00	29,152.95	8,980.00	101,445.00	3,151.00	337,081.95	0.00	337,081.95

Indicative budget breakdown per year					
Year	2017	2018	2019	2020	Total
Amount (%)	0 %	29 %	36 %	35 %	100.00 %
Budget (€)	0.00	97,753.77	121,349.50	117,978.68	337,081.95

Indicative budget breakdown per activity		
Activity	Amount (%)	Budget (€)
A.5.1	2 %	6,741.64
A.5.2	20 %	67,416.39
A.5.3	40 %	134,832.78
A.5.4	31 %	104,495.40
A.5.5	7 %	23,595.74
Total	100.00 %	337,081.95

Work Plan Per Work Packages - WorkPackage 6 (Implementation Work Package)

Title	Academic Knowledge Extraction and Training Activities Development
Start Date	16/04/2018
End Date	22/10/2020
Budget	178,515.25

Partners Involvement

Responsible Partner	PP 4 - Valencian Polytechnic University
Involved Partners	PP1 - Alcoy City Council PP2 - Alcira City Council PP3 - Alicante City Council PP4 - Valencian Polytechnic University PP5 - University of Valencia General Study PP6 - Water General Directorate PP7 - Alicante University

Summary	<p>A key factor for a real adoption of a circular economy (mainly when hydric resource is concern), is the correct training of technicians and other civil servants in charge of water affairs management.</p> <p>This WP faces the lack of a standardized training programmes for urban water management responsables.</p> <p>In a first moment this WP will gather the necessary and more updated knowledge to create adequate courses for this purpose. This knowledge collection involves the participation of external experts (Environmental Strategies Research Group, Natural Resource Management, Department of Systems Ecology, Stockholm University, Laboratory of Hydrology and Geochemistry of Strasbourg and the research group on building, architecture and Town planning "BATir" group of the Université Libre de Bruxelles... and others) together with the knowledge developed and extracted during the project implementation.</p> <p>In a second phase, this knowledge will be transferred to University courses which will be offered to SMEs and other interested entities. As revenues from this output can be estimated now, the UIA permanent secretariat will be informed in the appropriate moment.</p> <p>As a final activity, a new master degree will be created by the collaboration of three involved universities.</p>
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Activities, Deliverables and Outputs

Activity number	Activity title	Activity description and partners involved	Start date	End date				
A6.1	Civil Servant Courses Creation	<p>This activity involves the creation of courses to solve the lack of adequate training of civil servants and other responsible technicians in water management affairs.</p> <p>The work will be carried out mainly for the Universities, that once A4.4 is performed will design the courses leamy. External expertise and knowledge consultation to other european entities is a key point for this action.</p> <p>Universities as "Università Politecnica delle Manche" and "University of Luxemburg", research centres as "Laboratory of Hydrology and Geochemistry of Strasbourg" and the research group on building, architecture and Town planning "BATir", are examples of the entities which are expected to participate as external experts.</p> <p>This activity will conclude in A5.5</p>	Start date 16/04/2018	End date 22/10/2019				
	Deliverable number	Deliverable and partners involved	Target value	Delivery date				
	D 6.1.1	<table border="1"> <tr> <td>Title</td> <td>Set of Courses</td> </tr> <tr> <td>Description</td> <td>This deliverable will consist of a description of how the work has been performed, summarizing all the meetings and participation of external experts. This report will include a copy of all the developed courses. Responsibles of this deliverable will be the universities.</td> </tr> </table>	Title	Set of Courses	Description	This deliverable will consist of a description of how the work has been performed, summarizing all the meetings and participation of external experts. This report will include a copy of all the developed courses. Responsibles of this deliverable will be the universities.	Target value 1	Delivery date 22/10/2019
Title	Set of Courses							
Description	This deliverable will consist of a description of how the work has been performed, summarizing all the meetings and participation of external experts. This report will include a copy of all the developed courses. Responsibles of this deliverable will be the universities.							
	Output Number	Project output	Target value	Delivery date				
	O 6.1.1	<table border="1"> <tr> <td>Title</td> <td>Set of courses and training activities</td> </tr> <tr> <td>Description</td> <td>The set of courses developed under this activity will consist a valuable output which will remain in use after the end of the project for new staff training. This set of courses will be easily transferible to be used by other urban authorities around Europe. These courses will need to be updated in the future. It's a tasks that will be performed in the frame of future projects and activities. This output will be used in WP5 since are expected to be a requirement for UWD joint</td> </tr> </table>	Title	Set of courses and training activities	Description	The set of courses developed under this activity will consist a valuable output which will remain in use after the end of the project for new staff training. This set of courses will be easily transferible to be used by other urban authorities around Europe. These courses will need to be updated in the future. It's a tasks that will be performed in the frame of future projects and activities. This output will be used in WP5 since are expected to be a requirement for UWD joint	Target value 1	Delivery date 22/10/2019
Title	Set of courses and training activities							
Description	The set of courses developed under this activity will consist a valuable output which will remain in use after the end of the project for new staff training. This set of courses will be easily transferible to be used by other urban authorities around Europe. These courses will need to be updated in the future. It's a tasks that will be performed in the frame of future projects and activities. This output will be used in WP5 since are expected to be a requirement for UWD joint							

A6.2	Creation of University Courses for Urban Water Management Learning	<p>Several courses developed in the previous action (A6.1) are, with small modifications, courses of a great interest as for professionals updating as for university students. These courses can be offered through the University's Permanent Formation Centres. These courses offered to SME's staffs will contribute to increase its competitiveness in water management tasks. It is expected that these courses could generate revenues, however as its impossible to estimate, these are not budgeted here. Anyway courses are expected to be cheap and supported by university's scholarships.</p>	<p>Start date</p> <p>01/09/2019</p>	<p>End date</p> <p>23/01/2020</p>
	<p>Deliverable number</p> <p>D 6.2.1</p>	<p>Deliverable and partners involved</p> <p>Title: University Courses</p> <p>Description: A report, summarizing how the work has been performed, will constitute the core of the deliverable. Will include as well a detailed courses description. The responsible partners for this deliverable are the universities.</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>23/01/2020</p>
	<p>Output Number</p> <p>O 6.2.1</p>	<p>Project output</p> <p>Title: Set of university courses</p> <p>Description: The set of courses for university learning will be the output for this action. This set of courses will need an adequate team of teachers for being taught properly, however, as a teaching materials are very valuable.</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>23/01/2020</p>
A6.3	Interuniversity Master Degree for Urban Water Management Specialization	<p>Both involved universities have already several Master's Degrees in environmental resources studies and management, however a Degree focused on urban eco-systems or urban water management does not yet exist. The knowledge extracted during the project implementation (WP 4, 5, 7 and 8) will be used as conceptual basis for the development of a new Master's Degree as specialized studies in urban water management, enabling the instruction of professionals with the necessary skills to reach a holistic view of all the aspects in water management, from socio-economics to environmental and engineering approaches. This activity will be performed for the 3 participating universities and will be done using the work developed in A6.2 and A6.3</p>	<p>Start date</p> <p>20/01/2020</p>	<p>End date</p> <p>22/10/2020</p>
	<p>Deliverable number</p> <p>D 6.3.1</p>	<p>Deliverable and partners involved</p> <p>Title: New Master Degree Report</p> <p>Description: Universities will be the responsible for this deliverable performance. This deliverable will consist on a detailed description of the master degree and the work performed to carry it out.</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>22/10/2020</p>
	<p>Output Number</p> <p>O 6.3.1</p>	<p>Project output</p> <p>Title: New Master Degree</p> <p>Description: The developed master degree will be implanted as a shared titulation between the 3 participating universities. It will constitute a very interesting output which will remain in function long time ago after the project end.</p>	<p>Target value</p> <p>1</p>	<p>Delivery date</p> <p>22/10/2020</p>
A6.4	Transposition of Knowledge to Normative	<p>Urban Authorities and DGA have the firm will of use the knowledge extracted from this work to propose new regulations and normatives in urban water management. Urban Authorities and DGA representatives, advised by universities experts, will draw up a formal document proposing possibilities for new and better regulation on urban water management and technics. This document will be boosted on a regional level. In a national and european level will also be defended through the normal ways (European Committee of the Regions and EuroMediterranean regional comitee)</p>	<p>Start date</p> <p>18/09/2019</p>	<p>End date</p> <p>21/10/2020</p>

Deliverable number	Deliverable and partners involved		Target value	Delivery date
D 6.4.1	Title	Knowledge transposition to normative, activity report	Target value <input type="text" value="1"/>	Delivery date <input type="text" value="21/10/2020"/>
	Description	A detailed report about how the activity has been developed including the formal legal document expressing the proposal, will consist the deliverable for this activity. Responsibles of this activity will be urban authorities and DGA		
Output Number	Project output		Target value	Delivery date
O 6.4.1	Title	Formal proposal for a better urban water regulation	Target value <input type="text" value="1"/>	Delivery date <input type="text" value="21/10/2020"/>
	Description	This formal proposal which, in a first approach, will have the support of the regional government, will constitute an intangible output for this project. Responsibles are, as for the deliverable, Urban Authorities and DGA.		

Work Package Budget

PP1 - Alcoy City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	In A6.1 Alcoy City Council's staff shall attend to the courses development to highlight which are the main deficiencies in civil servants and technicians working in whatever water management tasks	N/A	This budget item will cover the costs for necessary displacements and meetings for A6.1 and A6.4					
Amount (€)	752	112.80	233	0	0	1,097.80	0	1,097.80
PP2 - Alcira City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	In A6.1 Alcira City Council's staff shall attend to the courses development to highlight which are the main deficiencies in civil servants and technicians working in whatever water management tasks	N/A	This budget item will cover the costs for necessary displacements and meetings for A6.1 and A6.4					
Amount (€)	752	112.80	195	0	0	1,059.80	0	1,059.80
PP3 - Alicante City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	In A6.1 Alicante City Council's staff shall attend to the courses development to highlight which are the main deficiencies in civil servants and technicians working in whatever water management tasks	N/A	This budget item will cover the costs for necessary displacements and meetings for A6.1 and A6.4					
Amount (€)	817	122.55	237	0	0	1,176.55	0	1,176.55
PP4 - Valencian Polytechnic University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	In A6.1 several UPVs teachers will work on the courses development. As well will be needed in A6.2 and mainly in A6.3. In A6.4 this staff will work just advising	N/A	Action A6.1, A6.2 A 6.3 will require several meetings and displacements, however most of the interactions may be made by telephon and internet which makes this item cheaper.	A6.1 will require several contacts with european experts in urban water. Their contribution will be used in all the training activities involved in this project. UPV has selected a group of experts.				
Amount (€)	36,696	5,504.40	1,036	36,562	0	79,798.40	0	79,798.40

PP5 - University of Valencia General Study	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	In A6.1 Water Economics Groups of UV will work on courses development. As well will be needed in A6.2 and mainly in A6.3 In A6.4 this group will work just advising	N/A	Action A6.1, A6.2 A 6.3 will require several meetings and displacements, however most of the interactions may be made by telephon and internet which makes this item cheaper.	A6.1 will require several contacts with european experts in urban water. Their contribution will be used in all the training activities involved in this project. UV has selected a group of interest				
Amount (€)	27,710	4,156.50	961	38,663	0	71,490.50	0	71,490.50
PP6 - Water General Directorate	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	DGA's staff will work in A6.1 as Urban Auhortie's staff. DGA's staff will be also important in A6.4 development	N/A	Action A6.1, A6.2 A 6.3 will require several meetings and displacements, however most of the interactions may be made by telephon and internet which makes this item cheaper.	DGA will need external consultation to support the other parnes on the implementation of this WP. From legislative and policy affairs to technical aspects should be advised for an expert team.				
Amount (€)	1,657	248.55	416	12,350	0	14,671.55	0	14,671.55
PP7 - Alicante University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	UA staff will support the development of actions A6.1, A6.2 A6.4 and will have an important role in A6.3	N/A	UA is located in Alicante, far away of Valencia, UA participant staffs will need to travel to Valencia at least 3 or 4 times for this WP.					
Amount (€)	7,211	1,081.65	928	0	0	9,220.65	0	9,220.65
Total (€)	75,595.00	11,339.25	4,006.00	87,575.00	0.00	178,515.25	0.00	178,515.25

Indicative budget breakdown per year					
Year	2017	2018	2019	2020	Total
Amount (%)	0 %	17 %	49 %	34 %	100.00 %
Budget (€)	0.00	30,347.59	87,472.47	60,695.19	178,515.25

Indicative budget breakdown per activity		
Activity	Amount (%)	Budget (€)
A 6.1	85 %	151,737.96
A 6.2	3 %	5,355.46
A 6.3	8 %	14,281.22
A 6.4	4 %	7,140.61
Total	100.00 %	178,515.25

Work Plan Per Work Packages - WorkPackage 7 (Implementation Work Package)

Title	Social and Political Awareness
Start Date	22/11/2017
End Date	02/09/2020
Budget	324,421.10

Partners Involvement

Responsible Partner	PP 6 - Water General Directorate
Involved Partners	PP1 - Alcoy City Council PP2 - Alcira City Council PP3 - Alicante City Council PP4 - Valencian Polytechnic University PP5 - University of Valencia General Study PP6 - Water General Directorate PP7 - Alicante University

Summary	<p>In the current society, circular economy has a dangerous lack of social acceptance that can carry out problems for decision-makers who wants to adapt a circular economy management approach.</p> <p>In the case of water, public acceptance is one of the most important impediments. From the partner's previous work, there is observed, that even farmers and agriculters reject the use of regenerated water in most of the cases even when it is of good quality, better than te quality of the normal source of water used.</p> <p>Framed in these conditions, this activity leads to achieve a good social understanding of what is "water circular economy" and the advantages that the use of regenerated water offers. The aim is to inform to society in general about all the factors related to desalated and regenerated water.</p> <p>Topics like emergent pollutants, best regeneration and desalination treatments and quality of the resultant water, green urban water infrastructures, water saving measures or the fairness of water prices shall be highlighted by this WP.</p> <p>Social awareness is a key factor not only for this work, but for the viability of circular economy across Europe.</p>
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Activities, Deliverables and Outputs

Activity number	Activity title	Activity description and partners involved	Start date	End date				
A7.1	Social Investigation and public feeling knowing	<p>As told before, one of the main barriers for water circular economy is related with social acceptance. While DGA has performed a very valuable previous work collecting worries and suggestions of stakeholders representatives, there has not been before a real wide spectrum social investigation. Sociograms, surveys, polls, discussion groups, interviews and other pertinent social investigation technics will be used for data collection as a way to inquire what the society feels for water circular economy.</p> <p>This activity will also provide knowledge on how perform awareness campaigns in a more effective way.</p> <p>A budget of €20.000 is assigned to this action in DGA External Services box, however, US staffs are also crucial on this action.</p>	Start date 22/11/2017	End date 12/04/2018				
	Deliverable number	Deliverable and partners involved	Target value	Delivery date				
	D 7.1.1	<table border="1"> <tr> <td>Title</td> <td>Public Feeling about water economy</td> </tr> <tr> <td>Description</td> <td>A document summarizing all the tasks performed in the frame of this action and including a copy of the final report of social feeling (output) will constitute the deliverable for this action</td> </tr> </table>	Title	Public Feeling about water economy	Description	A document summarizing all the tasks performed in the frame of this action and including a copy of the final report of social feeling (output) will constitute the deliverable for this action	Target value 1	Delivery date 12/04/2018
Title	Public Feeling about water economy							
Description	A document summarizing all the tasks performed in the frame of this action and including a copy of the final report of social feeling (output) will constitute the deliverable for this action							
	Output Number	Project output	Target value	Delivery date				
	O 7.1.1	<table border="1"> <tr> <td>Title</td> <td>Final Report of social feeling</td> </tr> <tr> <td>Description</td> <td>This activity performed by three urban authorities, but also by DGA, will of course produce a tangible output which is the report on social feeling and all the data related, but the knowledge and lessons learned for urban authorities and DGA (government entities), constitutes an intangible knowledge output which is also valuable.</td> </tr> </table>	Title	Final Report of social feeling	Description	This activity performed by three urban authorities, but also by DGA, will of course produce a tangible output which is the report on social feeling and all the data related, but the knowledge and lessons learned for urban authorities and DGA (government entities), constitutes an intangible knowledge output which is also valuable.	Target value 1	Delivery date 12/04/2018
Title	Final Report of social feeling							
Description	This activity performed by three urban authorities, but also by DGA, will of course produce a tangible output which is the report on social feeling and all the data related, but the knowledge and lessons learned for urban authorities and DGA (government entities), constitutes an intangible knowledge output which is also valuable.							

A.7.2	Volunteering Activities	<p>In the frame of this activity, each city council has organized a set of volunteering activities in their municipal area.</p> <ul style="list-style-type: none"> ·Alcoy will realize citizen campaigns for ravines cleaning ·Alcira will construct artificial wetlands as green filters for water purification in the peri-urban area, with the participation of volunteers citizens as for example schools and SME doing cooperative social responsibility activities. As well Alcira will lead reforestation campaigns as well with the participation of volunteers. ·Alicante in organizing volunteers campaigns for construction urban green areas as gardens and urban orchards as receptors of non drinkable regenerated waters <p>Budget for this action includes works supervisors salaries and equipment</p>	<p>Start date</p> <p>15/11/2018</p>	<p>End date</p> <p>25/03/2020</p>
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Deliverable number	Deliverable and partners involved		Target value	Delivery date
D 7.2.1	Title	Report on volunteering activities	Target value	Delivery date
	Description	<p>These deliverables will consist on one report for each urban authority. Reports will detail the performed volunteering activities and will provide visual recording (photos), of the result of each successful work. These photos will be a comparison of the previous status of the activities areas and the status after the activity is performed. It will provide a visual indicator of the activity success. Reports will be complemented with a registry of participants.</p>	3	25/03/2020

Output Number	Project output		Target value	Delivery date
O 7.2.1	Title	Results of the volunteering activities	Target value	Delivery date
	Description	<p>This output has two levels: First, we have to consider the intangible value of the society awareness that will be achieved by the participation of stakeholders and other interested social groups in these activities. The tangible output for this project, will be the improvement in the environmental characteristics of the peri-urban area in each city that will consist on a larger forestal area and artificial wetlands (Alcira), urban orchards and gardens (Alicante) and cleaned ravines (Alcoy)</p>	1	25/03/2020

A.7.3	Desalinated/Regenerated Water Tasting	<p>Each urban authority will organize on their municipally a set of public open activities for regenerated/desalinated water tasting where local key decision-makers will be encouraged to assist.</p> <p>For its part, DGA, as a regional government responsible in water management issues, has the capacity to generate greater social impact, so DGA will organize as well these water tasting activities where, regional and national decision-makers will be summoned as well as mayors of regional cities. Decision-makers of national and european entities will be as well warmly invited to assist.</p> <p>This activity leads people decide which regeneration/desalination treatment achieves the best water flavour. All waters will have completely health safety, of course.</p>	<p>Start date</p> <p>17/04/2019</p>	<p>End date</p> <p>02/09/2020</p>
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Deliverable number	Deliverable and partners involved		Target value	Delivery date
D 7.3.1	Title	Water Tasting Records	Target value	Delivery date
	Description	<p>A report summarizing all the water tasting events, including a description of the events as well as pictures, a registry of all the participants and a summary of people's feeling about the tasted water, will constitute the deliverable for this action.</p>	1	02/09/2020

Output Number	Project output		Target value	Delivery date
O 7.3.1	Title	Society losing the fear	Target value	Delivery date
	Description	<p>The intangible output of this activity is one of the main outputs of this work plan. As told before, people is still unreasonable worried for the use of regenerated water. The achievement of this action in the field of social acceptance will constitute a key step in the transition to a circular economy.</p>	1	02/09/2020

A.7.4	Children Adaptated Activities and Gamification	<p>Understanded in the frame of this activity, gamification is the transformation of knowledge and training courses (WP6) in fun activities to bring this knowledge close to non specialized social actors.</p> <p>The development of an interactive software for not only childrens, but also adults, could enjoy, learning about urban water flows, treatments, and the main issues related with the distribution and recycling of this resource.</p> <p>Water Economics Group of UV, one of the DeliveryPartners, has already a first version of this interactive software.</p>	Start date 15/10/2019	End date 23/06/2020
	Deliverable number	Deliverable and partners involved	Target value	Delivery date
	D 7.4.1	<p>Title Software Urban Water Knowledge Gamification</p> <p>Description A report describing in a detailed way, the process for software development and how it works, will constitute the deliverable for this activity.</p>	Target value 1	Delivery date 23/06/2020
	Output Number	Project output	Target value	Delivery date
	O 7.4.1	<p>Title Gamification Software</p> <p>Description The software developed in this activity constitutes a tangible output that will remain in use for urban authorities, DGA and universities. Partnership will cede this software to local public schools and other social entities.</p>	Target value 1	Delivery date 23/06/2020

A.7.5	Urban Water Reportage	<p>In this activity a reportage will be performed. Project development will be included, however, the main topic of the reportage, will be a general view of urban water, its associated processes and its importance. The film will be adressed to a spread spectrum of audiences, however will be focussed on the main target groups.</p> <p>This activity will be carried out with the support of an external SME from the audiovisual area.</p> <p>In the communication works WP3, the output of this project will be a very useful tool. The contacted TV channel may broadcast this reportage.</p> <p>To this action budget of €150.000 will be assigned in DGA External Expertise and services box.</p>	Start date 15/02/2018	End date 25/03/2020
	Deliverable number	Deliverable and partners involved	Target value	Delivery date
	D 7.5.1	<p>Title Water Reportage Deliverable</p> <p>Description This deliverable will provide, together with the project management reports, a detailed view on the economical aspects of this action, as well as a description of the works performed for this activity development.</p>	Target value 1	Delivery date 25/03/2020
	Output Number	Project output	Target value	Delivery date
	O 7.5.1	<p>Title Urban Water Reportage</p> <p>Description This reportage will be a very useful output for social wareness that will remain in use. As planned for the gamification software (O.4.1), this output will be used for urban authorities, DGA and Universities for education and awarenes tasks after the end of the project. It will also be ceded to schools and other social entities in order to give to this output the best possible diffusion.</p>	Target value 1	Delivery date 25/03/2020



Work Package Budget

PP1 - Alcoy City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Civil servants will carry out the A7.2 and A7.3 organizing and attending the events on this Urban Authority area.	N/A	Activity A7.2 will require transport to the areas where volunteers activities will be realized. Both actions(A7.2 and A7.3) require transport to be organized.		Alcoy shall make available the use of its own equipment as well as purchase, or renting, further equipment for volunteering activities (safety gloves, bags, trucks...) Water bottles are budgeted in WP3			
Amount (€)	9,896	1,484.40	2,121	0	1,274	14,775.40	0	14,775.40
PP2 - Alcira City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Civil servants will carry out the A7.2 and A7.3 organizing and attending the events on this Urban Authority area.	N/A	Activity A7.2 will require transport to the areas where volunteers activities will be realized. Both actions(A7.2 and A7.3) require transport to be organized.		Alcira shall make available the use of its own equipment as well as purchase, or renting, further equipment for volunteering activities (shovel, construction material) Water bottles are budgeted (WP3)			
Amount (€)	8,860	1,329.00	1,973	0	8,974	21,136.00	0	21,136.00
PP3 - Alicante City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	Civil servants will carry out the A7.2 and A7.3 organizing and attending the events on this Urban Authority area.	N/A	Activity A7.2 will require transport to the areas where volunteers activities will be realized. Both actions(A7.2 and A7.3) require transport to be organized.		Alicante shall make available the use of its own equipment as well as purchase, or renting, further equipment for volunteering activities (growing plants material) Water bottles are budgeted (WP3)			
Amount (€)	8,860	1,329.00	2,050	0	3,309	15,548.00	0	15,548.00
PP4 - Valencian Polytechnic University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	-UPV staffs will work partially for the performance of A7.4 -A7.1 will need as well, a data analysis where UPV experts will participate	N/A	Performances of the activities where UPV is involved will require a set of meetings that forces UPVs staffs to move to urban authorities cities, Valencia, Alicante university and other meeting places		UPVs material degradation (meeting rooms, computers etc) is budgeted here			
Amount (€)	14,422	2,163.30	1,283	0	328	18,196.30	0	18,196.30

PP5 - University of Valencia General Study	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	·UV staffs are main responsible for action A7.4 ·A7.1 will need as well, a data analysis where UV experts (economis and sociologist) are essential to perform this task	N/A	Performances of the activities where UV is involved, will require a set of meetings that forces UV's staffs to move to urban authorities cities, Valencia, Alicante university and other meeting places		UVs material degradation (meeting rooms, computers etc) is budgeted here			
Amount (€)	49,231	7,384.65	1,283	0	523	58,421.65	0	58,421.65
PP6 - Water General Directorate	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	DGA will play a key role, due to its capacities, in the organization and coordination of events. As well will be responsible of this WP implementation	N/A	DGA's staffs will necessitate a set of displacements for assisting coordination meetings and participate in the different meetings. Also, contracting external services will require displacements.	·External Support for realization of a social investigation in a regional level (polls and other social study technics) ·Realization of the documental of Urban Water by an external filming team	DGA's material that will be used for A7.3, such as meeting rooms, posters, etc... is budgeted here.			
Amount (€)	5,369	805.35	1,278	186,550	410	194,412.35	0	194,412.35
PP7 - Alicante University	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Sub-total	Revenues	Total
Description	UA will support the implementation of the activities. UA staff will dedicate part of their worktime to support this WP	N/A	The involvement of UA in several activities of this WP, will require a set of meetings that forces UA's staffs to move to urban authorities cities, Valencia, university and other meeting places					
Amount (€)	736	110.40	1,085	0	0	1,931.40	0	1,931.40
Total (€)	97,374.00	14,606.10	11,073.00	186,550.00	14,818.00	324,421.10	0.00	324,421.10

Indicative budget breakdown per year					
Year	2017	2018	2019	2020	Total
Amount (%)	1 %	27 %	33 %	39 %	100.00 %
Budget (€)	3,244.21	87,593.70	107,058.96	126,524.23	324,421.10

Indicative budget breakdown per activity		
Activity	Amount (%)	Budget (€)
A 7.1	37 %	120,035.81
A 7.2	6 %	19,465.27
A 7.3	5 %	16,221.06
A 7.4	3 %	9,732.63
A 7.5	49 %	158,966.34
Total	100.00 %	324,421.10

Work Plan Per Work Packages - WorkPackage 8 (Investment Work Package)

Title	Set of Investments in Public Urban Water Services Improvement
Start Date	03/12/2018
End Date	22/10/2020
Budget	2,789,682.35

Partners Involvement

Responsible Partner	PP 6 - Water General Directorate
Involved Partners	PP1 - Alcoy City Council PP2 - Alcala City Council PP3 - Alicante City Council
Summary	This WP is a support for the achievement of the project objectives through the development of the 4 Implementation WP (4, 5, 6, 7)
Justification	The Urban Water Deal, includes a set of "Best Practices" in water management which will be adopted by each participating city council. These practices involve a set of investments for structural improvements and for management and decision-making tools. Most of the investment have been realized for city council as previous work in a continuous improvement activity, however not all the activities can be faced for city councils. Grants for NGO or SME to perform initiatives on structural improvements are an innovative way to improve water services and in the same time, implicate and aware citizens in water supply issues. 3-D water systems modelation software together with ITC's water sensorization tools for telemanagement, are a very innovative management ways and are proposed by several experts for being one of the Best Reference Technics (e. g. European Urban Green Infrastructure Conference, Vienna 2015) on urban water management. At first time, the purchase of a software that accomplish the requirements is needed, there are several options in the market, however, during the project, UPV, UV and UA will be working together, as well in developing their own software for these tasks. Also, a geo-radar pipelines inspection, a leakage detection and a visual inspection are considered here. Improve water management systems necessarily require better infrastructures whose construction (crucial for the succes of the project) agrees with the spirits of UIA Programme as Investments.

Work Package Budget

PP1 - Alcoy City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Infrastructure and works	Sub-total	Revenues	Total
Description	I8.1: corresponds to the costs of civil servants involved in this action I8.2&I8.3: is the cost of civil servants working on burocratic, to cover evaluation court costs and works supervision	N/A		For I8.1 some services will need to be externalized: Ultrasound Water Leaks Inspection, geo-radar works, inside pipes video inspection	For I8.1. Costs are related with the purchase of the necessary equipment: ITC's water sensors for telemanagement	For I8.2 the sum is the total amount of the grants for implementing initiatives for water use improvements. For I8.1 and I8.3 urban authorities bears the most of the cost for Infrastructure and works			
I8.1	30,711	4,606.65	0	72,000	182,387	0	289,704.65	0	289,704.65
I8.2	9,423	1,413.45	0	0	0	80,000	90,836.45	0	90,836.45
I8.3	8,860	1,329.00	0	0	0	430,000	440,189.00	0	440,189.00
Partner total (€)	48,994.00	7,349.10	0.00	72,000.00	182,387.00	510,000.00	820,730.10	0.00	820,730.10

PP2 - Alcira City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Infrastructure and works	Sub-total	Revenues	Total
Description	I8.1: corresponds to the costs of civil servants involved in this action I8.2&I8.3: is the cost of civil servants working on bureaucratic, to cover evaluation court costs and works supervision	N/A		For I8.1 some services will need to be externalized: Ultrasound Water Leaks Inspection, geo-radar works, inside pipes video inspection	For I8.1. Costs are related with the purchase of the necessary equipment: ITC's water sensors for telemanagement	In I8.3 Alcira will build an innovative infrastructure for floods protection that stores the water for a later use in the city.			
I8.1	22,150	3,322.50	0	42,800	120,600	0	188,872.50	0	188,872.50
I8.2	6,624	993.60	0	0	0	0	7,617.60	0	7,617.60
I8.3	8,860	1,329.00	0	0	0	850,000	860,189.00	0	860,189.00
Partner total (€)	37,634.00	5,645.10	0.00	42,800.00	120,600.00	850,000.00	1,056,679.10	0.00	1,056,679.10
PP3 - Alicante City Council	Staff costs	Office and administration	Travel and accommodation	External expertise and services	Equipment	Infrastructure and works	Sub-total	Revenues	Total
Description	I8.1: corresponds to the costs of civil servants involved in this action I8.2&I8.3: is the cost of civil servants working on bureaucratic, to cover evaluation court costs and works supervision	N/A		For I8.1 some services will need to be externalized: Ultrasound Water Leaks Inspection, geo-radar works, inside pipes video inspection	For I8.1. Costs are related with the purchase of the necessary equipment: ITC's water sensors for telemanagement	Alicante will repair the obsolete pipelines system by the use of an innovative sheathing to avoid saline intrusions from seawater.			
I8.1	42,180	6,327.00	0	130,000	261,800	0	440,307.00	0	440,307.00
I8.2	10,211	1,531.65	0	0	0	0	11,742.65	0	11,742.65
I8.3	8,890	1,333.50	0	0	0	450,000	460,223.50	0	460,223.50
Partner total (€)	61,281.00	9,192.15	0.00	130,000.00	261,800.00	450,000.00	912,273.15	0.00	912,273.15
Total (€)	147,909.00	22,186.35	0.00	244,800.00	564,787.00	1,810,000.00	2,789,682.35	0.00	2,789,682.35

Indicative budget breakdown per year					
Year	2017	2018	2019	2020	Total
Amount (%)	0 %	15 %	45 %	40 %	100.00 %
Budget (€)	0.00	418,452.35	1,255,357.06	1,115,872.94	2,789,682.35



Investment 1

Title 3D Modeling Geographic Information System Software, Equipment Purchase and necessary Inspections Performance

Investment Description Since Urban Water Deal is designed, it includes the modeling of all existing water infrastructures, its location in the field and other significant elements like topography, buildings etc... The purchase of this innovative software will provide a useful tool for enable urban authorities to have the best managing capacity possible. The investment includes the purchase of a modelling software for 3D structures inclusion in a basic GIS. This tool be used as well as a training tool in the WP6 for training activities developed by the universities and is a key tool for the master degree lessons. This software will remain in use by project partners even after the end of the project as other urban authorities will adapt this management system so will use the developed tool (software included). For this work there is also needed some complementary actions: a pipelines detection with geo-radar to enable its modelling, a water leaks detection with ultra-sound system and a visual inspection of the pipes inside. In the frame of this investment, these works need sensorization gadgets (ITCs) that will provide continuous monitoring of water parameters (volume, salinity, pH and other quality indicators) that will be integrated in the management tool. DGA as the highest public authority responsible of water issues, will centralize all data increasing its advising capacities. This software is needed for DGA to perform its tasks as maximum water responsible in the region.

Involved Partners PP 1 - Alcoy City Council
PP 2 - Alciria City Council
PP 3 - Alicante City Council

Budget 918,884.15

Locations of investment

Number	Country	NUTS 2 level	NUTS 3 level
1	SPAIN	Comunidad Valenciana	Alicante / Alacant
2	SPAIN	Comunidad Valenciana	Valencia / València

Investment Risk In spanish mediterranean area, some of the most ancient water conduits were made even in the morish spanish age, so the current state is sometimes appalling. This fact makes the modeling of these systems and mainly the installation of sensorization tools a hard and difficult task. Urban Authorities have the compromise of make the necessary updates and repairs in order to adapt their urban water systems to the installation of monitoring tools.

Investment Documentation In accordance with spanish legislation, the modelation of water infrastructures and water pathways and the installation of monitoring tools on water supply pipes or sewage pipes. is competence of each urban authority with the agreement of DGA. As all mentioned authorities are project participants (Urban Authorities and DGA delivery partner and project promotor) is not necessary to get worried of the permissions achievement.

Ownership As the Cartography Engineering department of UPV is going to have the main role in the modelization and cartography activity, there is reasonable that UPV will own the software, meanwhile DGA as the regional water management authority, shall have as well the ownership of the modeling software and, of course, each participating city council (3 Urban authorities) shall have the capacity to check their own water systems, so will need the software as well and all the data and modelation realized to their own system shall belong each one of them being shared with DGA as a higher management entity. So, UPV, urban authorities and DGA will use a spanish legal figure of shared property. ITC's and monitoring equipment will belong each urban authority in whose territory are installed.

Activities, Deliverables

Activity number	Activity title	Activity description and partners involved	Start date	End date											
A.8.1	3D Modelation of Urban and peri-urban Water Infrastructures	<p>This activity is in line with A.5.4 (WP5) which consists of an application of technical considerations of the Urban Water Deal. The performance of 3D modelation of water infrastructures and installation of monitoring tools, corresponds to this Investment action.</p> <p>This 3-D modeling in combination with the sensorization tools is the most effective and innovative ways to detect leaks and infrastructures malfunctioning.</p> <p>As well will work for defining of best ways transport recirculated water, avoiding put together in the same pipe different quality waters.</p> <p>A.5.4 is complemented with this activity by the performance of the pipelines inspection works (georadar, leaks detection and visual inspection) enabling the modelation and fails detection.</p>	Start date <input type="text" value="03/12/2018"/>	End date <input type="text" value="24/02/2020"/>											
	<table border="1"> <thead> <tr> <th>Deliverable number</th> <th colspan="2">Deliverable and partners involved</th> <th>Target value</th> <th>Delivery date</th> </tr> </thead> <tbody> <tr> <td rowspan="2">D.8.1.1</td> <td>Title</td> <td><input type="text" value="3-D Modelation"/></td> <td rowspan="2"> Target value <input type="text" value="3"/> </td> <td rowspan="2"> Delivery date <input type="text" value="24/02/2020"/> </td> </tr> <tr> <td>Description</td> <td> <p>A report with a summary of the works performed in relation with this action. As three cities are involved, one report for each city will be sent as deliverable.</p> <p>Reports will include a file with the 3-D modelation in order to UIA Permanent Secretariat could check the good performance. As software is required, the modelation will be sent in a video file, however, the real functioning of the tool could be checked by a visit or in the Project End event. Results of the inspections works will be included in the modelation marking the key points and the faults.</p> </td> </tr> </tbody> </table>	Deliverable number	Deliverable and partners involved		Target value	Delivery date	D.8.1.1	Title	<input type="text" value="3-D Modelation"/>	Target value <input type="text" value="3"/>	Delivery date <input type="text" value="24/02/2020"/>	Description	<p>A report with a summary of the works performed in relation with this action. As three cities are involved, one report for each city will be sent as deliverable.</p> <p>Reports will include a file with the 3-D modelation in order to UIA Permanent Secretariat could check the good performance. As software is required, the modelation will be sent in a video file, however, the real functioning of the tool could be checked by a visit or in the Project End event. Results of the inspections works will be included in the modelation marking the key points and the faults.</p>		
Deliverable number	Deliverable and partners involved		Target value	Delivery date											
D.8.1.1	Title	<input type="text" value="3-D Modelation"/>	Target value <input type="text" value="3"/>	Delivery date <input type="text" value="24/02/2020"/>											
	Description	<p>A report with a summary of the works performed in relation with this action. As three cities are involved, one report for each city will be sent as deliverable.</p> <p>Reports will include a file with the 3-D modelation in order to UIA Permanent Secretariat could check the good performance. As software is required, the modelation will be sent in a video file, however, the real functioning of the tool could be checked by a visit or in the Project End event. Results of the inspections works will be included in the modelation marking the key points and the faults.</p>													



Investment 2

Title	Grants for encourage citizen initiatives to improve Urban Water Management in the frame of the Urban Water Deal
Investment Description	<p>A set of small grants will be created while the project implementation time, with the objective of encourage citizen initiatives that could be in accordance with the objectives of the Urban Water Deal. These grants will be bound to a initiatives that could be developed inside the urban areas participating in the project (Alcoy, Alcira and Alicante)</p> <p>These subvention will be constituted for a part of this investment and a part of the own funds of DGA and the own funds of each city council.</p> <p>Its mandatory to explain in the grants specifications that these grants are in the frame of an UIA Project.</p> <p>In the projects type that will be co-financed with these grants, there are the creation of artificial wetlands, small works for water infrastructures updates, awareness campaign, water saving measures, leaks repair, floods storage structures... However, initiatives on structural improvements will be prioritized</p> <p>Each city council will be free to choose which initiatives are co-financed.</p> <p>Grants will consist on around 40% UIA funds, 40% Urban Authority own funds and 20% DGA funds</p> <p>UIA contribution for this investment will be €80.000 for each city council, so a total contribution of €240.000</p> <p>So each municipality will have a grants budget of €180.000</p> <p>At least 9 initiatives, (3 in each municipality) shall be co-financed</p> <p>Each beneficiary shall contribute with, at least 20% of the real costs of the initiatives</p> <p>Target beneficiaries are NGOs and SMEs that could justify environmental concerns</p>
Involved Partners	<p>PP 1 - Alcoy City Council</p> <p>PP 2 - Alcira City Council</p> <p>PP 3 - Alicante City Council</p>
Budget	110,196.70

Locations of investment

Number	Country	NUTS 2 level	NUTS 3 level
1	SPAIN	Comunidad Valenciana	Alicante / Alacant
2	SPAIN	Comunidad Valenciana	Valencia / València

Investment Risk	<p>The main risk associated to this investment is the possibility that the beneficiaries could make a fail on their initiative or a money missuse.</p> <p>In relation to this risk, urban authorities have established security measures. Initiatives and beneficiaries will be scrupulously selected according to the quality of the initiative and, of course, the beneficiaries economical and technical solvence, and capacities for achieve the initiative target objectives.</p> <p>Meanwhile, in case of money missuse or a breach of the grants conditions, each urban authority and DGA will use their legal departments in order to make the necessary actions to solve problems.</p>
Investment Documentation	<p>Grants Spanish law 38/2003 establishes a serie of criteria that an entitie must fulfill to be able to get a grant.</p> <p>In general, an NGO or SME shall have at least 2 years of existence for receive a grant, as well shall prove that it's not in bankruptcy or judicially disabled. These conditions will figure in the calls for proposals. As well will establish the condition that entities shall prove environmental concerns and/or water management experience and capacities. It could be checked by reading the NGO statutes, the environmental policy of the enterprise, or by previous activities in the field of environment and water.</p> <p>In relation to the actions performance, the permissions for the realization of these actions is a urban authorities (Alcoy, Alcira or Alicante) responsibility and competency with the agreement of DGA. As all these authorities are participants, the availability of the permissions is guaranteed.</p>
Ownership	<p>The ownership of each result of each grant will be the Urban Authority in whose area the co-funded initiative is performed.</p> <p>This fact shall be included in the call for proposals terms of reference to make clear for each applicant that the results of the initiative will be a city council ownership.</p>

Activities, Deliverables



Activity number	Activity title	Activity description and partners involved	Start date	End date
A.8.2	Call of proposal for Water Management Improvement Initiatives	<p>Its a joint action for the three participating urban authorities and shall be performed in he same time in the 3 locations.</p> <p>Each Urban Authority shall launch a call for proposal for water management improvement initiatives on each municipality. Each one will select a court of judges to assess each initiative and thecide which are the best according wich the criteria of the ERDF priority investments and temathic objecties.</p> <p>Initiatives will have a period of 8 months to be carried out, to prove the realization and to deliver to each urban authority a cost justification.</p> <p>At least 9 initiatives, (3 in each municipality) shall be co-financed</p>	<p>Start date</p> <p>15/10/2019</p>	<p>End date</p> <p>24/09/2020</p>
	Deliverable number	Deliverable and partners involved	Target value	Delivery date
		<p>Title</p> <p>Water Management Improvement Initiatives Reports</p>		
	D 8.2.1	<p>Description</p> <p>One report for each co-funded initiative will be delivered. These reports will include a detailed description of the funded initiatives and an audit of the costs justification. Beneficiaries shall fill a form that will guide them to make a kind of project management report ebanling a clear description of the performed initiative and the followed methodology. Also will provide beneficiaries with a financial form for a clear costs justification. As at least a total of 9 initiatives are expected to be co-funded, 9 is the target value of these deliverables.</p>	<p>Target value</p> <p>9</p>	<p>Delivery date</p> <p>24/09/2020</p>

Investment 3

Title	Innovative Infrastructures Building Required for the Urban Water Deal Implementation
Investment Description	<p>A previous study of the three urban areas, performed as a part of the previous work, highlights several key points that shall be corrected to agree with the Urban Water Deal main aim (a correct urban water management procedure). These infrastructures will be designed while the project is in development (WP4 & WP5) however, its already possible to make some approximated predictions in the kind, size and costs of these infrastructures.</p> <p>Alcoy, an industrial city seated on a mountain with a considerable slope. These circumstances make water movements in Alcoy, a high energy consumption process. The implementation of a innovative solar powered pumping system will enable Alcoy to achieve a low energy water transportation infrastructure. *Estimated building cost is €430.000</p> <p>Alicra, being an agricultural economy city, would find very useful the construction of a structure to storage flood water enabling the use of this resource for agricultural and urban tasks, palliating floods damages. Will consist of a new concept of a stormwater tank. *Estimated building costs €850.000</p> <p>Alicante is a near sea coastal city whose subsoil is suffering sea water intrusions (presumably due to the sea level increase as a side-effect of climate change). This situation (aggravate by the infrastructure oldness) is endangering Alicante's main pipelines which are suffering saline water intrusions. Impermeabilization of these pipelines is the most adequate fast reaction. *Estimated repair cost is €450.000</p>
Involved Partners	PP 1 - Alcoy City Council PP 2 - Alicra City Council PP 3 - Alicante City Council
Budget	1,760,601.50

Locations of investment

Number	Country	NUTS 2 level	NUTS 3 level
1	SPAIN	Comunidad Valenciana	Valencia / València
2	SPAIN	Comunidad Valenciana	Alicante / Alacant

Investment Risk	<p>The main risk associated with this Investment is the achievement of the necessary permissions for the planned construction, however, (as mentioned below) as the responsables of these permises are each urban authority and DGA (Promotor of this project and main regional authority in water management affairs) the obtaining of those permission in guaranteed. Other risk are the typical related with infrastructures constructions activities. These risks will be unavoidably present and shall be considered. The solid experience in hydraulic tasks of DGA technicians, which will support urban authorities in this activity, is the best measure that can be taken here (DGA Technicians participation is not budgeted here, however, for the regional normative, Urban Authorities shall necessarily be supported by DGA staffs. This participation will be covered by DGA)</p>
Investment Documentation	<p>These activities will require several permissions. The competence for the required permissions below are responsibility of each Urban Authority with the agreement of DGA as the regional water management main authority.</p>
Ownership	<p>The owner of the results of this investment, will be the urban authority where the Urban Authority (City Council) where each infrastructure is constructed.</p> <p>Alcoy will own the near 0 carbon emission water transportation system installed on Alcoy area.</p> <p>Alicra will own the floods water storage structure built on its area and will use the water to irrigation and other applications.</p> <p>Alicante will enjoy the repairs perormed on its pipelines facing the new challenged presumably due to the climatic change.</p>

Activities, Deliverables

Activity number	Activity title	Activity description and partners involved	Start date	End date
A8.3	Innovative Infrastructures Implementation	<p>Once WP4 and WP5 (A5.3 & A5.4) are started, this activity will lead to the building of the necessary infrastructure above mentioned. A5.4 will get the basis for the exact sizing of these infrastructures. Urban water deal will require that the authorities that implement it, carry out the best water management practices reducing the water inputs required for the city sustainability. These investments have been thought-out following the EEA Report "Urban Adaptation to Climate Change", the handbook "Adapting Urban Water Systems to Climate Change", the "EU Action Plan for a Circular Economy, Closing the Loop" and the handbook on green public procurement "Buying Green!"</p> <p>This is the best way to go closer to a water circular economy in each city</p>	<p>Start date</p> <p>13/10/2019</p>	<p>End date</p> <p>22/10/2020</p>
	Deliverable number	Deliverable and partners involved	Target value	Delivery date
	D 8.3.1	<p>Title</p> <p>Infrastructures Design</p> <p>Description</p> <p>Once A5.4 is started, A8.3 will use the extracted data to perform the exact design and sizing of these structures. One report for each Urban Authority will be sent to the UIA Permanent Secretariat and UIA assigned expert. These reports will include the exact design of the structures and the technical construction planning as well as the pertinent permissions and licences in order to enable permanent secretariat to be aware of the details concerning this investment. The responsible of these deliverables are each one of the Urban Authorities</p>	<p>Target value</p> <p>3</p>	<p>Delivery date</p> <p>19/12/2019</p>
	D 8.3.2	<p>Title</p> <p>Infrastructures Construction Report</p> <p>Description</p> <p>The Project Management team will compile all the information regarding the performance of these constructions. Budgets, incidents and technical data will be included in this deliverable as a detailed record of this activity. Each urban authority supported by the external Project Management Team will be the responsible of these deliverables.</p>	<p>Target value</p> <p>3</p>	<p>Delivery date</p> <p>22/10/2020</p>

Work Plan Per Work Packages - WorkPackage 9 (Closure and knowledge transfer work package)

Title	Closure and knowledge transfer
Start Date	23/10/2020
End Date	22/10/2021
Budget	15,000.00

Partners Involvement

Responsible Partner	PP 1 - Alcoy City Council
Involved Partners	PP1 - Alcoy City Council PP2 - Alcira City Council PP3 - Alicante City Council PP4 - Valencian Polytechnic University PP5 - University of Valencia General Study PP6 - Water General Directorate PP7 - Alicante University
Summary	An external certified auditor will be contracted to make the required audited expenditure. Alcoy city council civil servants will fill the final payment claim forms. By using the final project management report, performed in WP2, the Final Progress Report required in this WP. Due to the previous project management work, the administrative closure is expected to be an easy process. In relation with A9.1, the final qualitative report will be performed on the basis of the final project management report (WP2) and the academic knowledge extraction activity (WP6). This previous work will facilitate the fill of the final qualitative report. The participation in the UDN will be carried out for the Urban Areas Representatives, the required UIA expert and, if seems necessary, representatives from each delivery partner.

Activities and Deliverables

Activity number	Activity title	Activity description and partners involved	Start date	End date				
A9.1	Transfer of knowledge activities	<ul style="list-style-type: none"> Drafting and submission of the final qualitative report Participation to Urban Development Network (UDN) Project evaluation with UIA Experts 	Start date 23/10/2020	End date 22/10/2021				
	Deliverable number	Deliverable and partners involved	Target value	Delivery date				
	D 9.1.1	<table border="1"> <tr> <td>Title</td> <td>Final qualitative report</td> </tr> <tr> <td>Description</td> <td>Final qualitative report</td> </tr> </table>	Title	Final qualitative report	Description	Final qualitative report	Target value 1	Delivery date 22/10/2021
Title	Final qualitative report							
Description	Final qualitative report							
A9.2	Administrative closure	Preparation and submission of final progress report	Start date 23/10/2020	End date 23/01/2021				
	Deliverable number	Deliverable and partners involved	Target value	Delivery date				
	D 9.2.1	<table border="1"> <tr> <td>Title</td> <td>Final progress report</td> </tr> <tr> <td>Description</td> <td>Final progress report</td> </tr> </table>	Title	Final progress report	Description	Final progress report	Target value 1	Delivery date 23/01/2021
Title	Final progress report							
Description	Final progress report							



Work Package Budget

Partner name	Staff cost (€)	Office and administration (€)	Travel and accommodation (€)	External expertise and services (€)	Equipment (€)	Infrastructure and construction works (€)	Sub-Total (€)	Revenues (€)	Total (€)
Alcoy City Council	0.00	0.00	0.00	15,000.00	0.00	0.00	0.00	0.00	15,000.00

Part E - Project Budget
E.1 Project Budget Co-Financing Source (Fund) - Breakdown per Partner

Partner		ERDF co-financing		Contribution			Total	
Partner	Country	EUR	ERDF rate	Public	Private	Total	Budget	% of project budget
PP 1 - Alcoy City Council	ES	793,689.92	80.00%	198,422.48	0.00	198,422.48	992,112.40	22.19%
PP 2 - Alcira City Council	ES	940,269.80	80.00%	235,067.45	0.00	235,067.45	1,175,337.25	26.29%
PP 3 - Alicante City Council	ES	859,306.00	80.00%	214,826.50	0.00	214,826.50	1,074,132.50	24.03%
PP 4 - Valencian Polytechnic University	ES	221,068.20	80.00%	55,267.05	0.00	55,267.05	276,335.25	6.18%
PP 5 - University of Valencia General Study	ES	183,821.76	80.00%	45,955.44	0.00	45,955.44	229,777.20	5.14%
PP 6 - Water General Directorate	ES	534,786.96	80.00%	133,696.74	0.00	133,696.74	668,483.70	14.95%
PP 7 - Alicante University	ES	43,739.00	80.00%	10,934.75	0.00	10,934.75	54,673.75	1.22%
Total (€)		3,576,681.64	80.00%	894,170.41	0.00	894,170.41	4,470,852.05	100.00%

E.2 Project Budget - Overview per Partner/ per Period

Partner	Preparation (Period 0)	Jan - Dec 2017	Jan - Dec 2018	Jan - Dec 2019	Jan - Dec 2020	Closure	Total
PP 1	20,000.00	9,303.06	182,651.75	401,577.90	363,579.69	15,000.00	992,112.40
PP 2	0.00	5,815.53	210,869.47	504,771.92	453,880.34	0.00	1,175,337.25
PP 3	0.00	6,017.30	201,607.55	455,421.16	411,086.49	0.00	1,074,132.50
PP 4	0.00	25,315.94	104,294.89	74,228.04	72,496.38	0.00	276,335.25
PP 5	0.00	9,106.92	93,288.31	66,754.19	60,627.78	0.00	229,777.20
PP 6	0.00	116,263.73	173,747.41	156,657.45	221,815.11	0.00	668,483.70
PP 7	0.00	4,617.63	28,998.25	10,607.45	10,450.42	0.00	54,673.75
Total (€)	20,000.00	176,440.10	995,457.64	1,670,018.10	1,593,936.21	15,000.00	4,470,852.05
% of total budget	0.45%	3.95%	22.27%	37.35%	35.65%	0.34%	100.00%

E.3 Project Budget - Overview per Partner/ per Work Package

Partner	Preparation (WP 1)	WP 2	WP 3	WP 4	WP 5	WP 6	WP 7	WP 8	Closure (WP 9)	Total
PP 1	20,000.00	10,253.40	9,430.05	37,217.70	63,607.95	1,097.80	14,775.40	820,730.10	15,000.00	992,112.40
PP 2	0.00	2,111.40	7,132.70	31,875.70	55,342.55	1,059.80	21,136.00	1,056,679.10	0.00	1,175,337.25
PP 3	0.00	2,111.40	8,246.50	31,667.70	103,109.20	1,176.55	15,548.00	912,273.15	0.00	1,074,132.50
PP 4	0.00	44,683.85	19,314.35	69,002.35	45,340.00	79,798.40	18,196.30	0.00	0.00	276,335.25
PP 5	0.00	1,868.75	7,372.65	61,189.15	29,434.50	71,490.50	58,421.65	0.00	0.00	229,777.20
PP 6	0.00	307,016.00	66,249.00	56,525.60	29,609.20	14,671.55	194,412.35	0.00	0.00	668,483.70
PP 7	0.00	1,868.75	6,241.70	24,772.70	10,638.55	9,220.65	1,931.40	0.00	0.00	54,673.75
Total (€)	20,000.00	369,913.55	123,986.95	312,250.90	337,081.95	178,515.25	324,421.10	2,789,682.35	15,000.00	4,470,852.05
% of total budget	0.45%	8.27%	2.77%	6.98%	7.54%	3.99%	7.26%	62.40%	0.34%	100.00%

E.4 Project Budget - Overview per Work Package/ per Period

Work Package	Preparation	Jan - Dec 2017	Jan - Dec 2018	Jan - Dec 2019	Jan - Dec 2020	Closure	Total
WP 1	20,000.00						20,000.00
WP 2		110,974.07	55,487.03	73,982.71	129,469.74		369,913.55
WP 3		30,996.74	24,797.39	24,797.39	43,395.43		123,986.95
WP 4		31,225.09	281,025.81	0.00	0.00		312,250.90
WP 5		0.00	97,753.77	121,349.50	117,978.68		337,081.95
WP 6		0.00	30,347.59	87,472.47	60,695.19		178,515.25
WP 7		3,244.21	87,593.70	107,058.96	126,524.23		324,421.10
WP 8		0.00	418,452.35	1,255,357.06	1,115,872.94		2,789,682.35
WP 9						15,000.00	15,000.00
Total (€)	20,000.00	176,440.10	995,457.64	1,670,018.10	1,593,936.21	15,000.00	4,470,852.05
% of total budget	0.45%	3.95%	22.27%	37.35%	35.65%	0.34%	100.00%

E.5 Project Budget - Overview per Partner/ per Budget Line

Partner	Staff	Office and administration	Travel and accommodation	External expertise and services	Equipment	Infrastructure and construction works	Sub-total	Revenues	Total
PP 1	120,756.00	18,113.40	16,144.00	143,056.00	184,043.00	510,000.00	992,112.40	0.00	992,112.40
PP 2	97,475.00	14,621.25	15,028.00	68,294.00	129,919.00	850,000.00	1,175,337.25	0.00	1,175,337.25
PP 3	131,630.00	19,744.50	15,922.00	191,358.00	265,478.00	450,000.00	1,074,132.50	0.00	1,074,132.50
PP 4	163,115.00	24,467.25	26,166.00	49,879.00	12,708.00	0.00	276,335.25	0.00	276,335.25
PP 5	140,008.00	21,001.20	16,653.00	51,592.00	523.00	0.00	229,777.20	0.00	229,777.20
PP 6	75,478.00	11,321.70	29,556.00	525,831.00	26,297.00	0.00	668,483.70	0.00	668,483.70
PP 7	37,305.00	5,595.75	9,853.00	1,920.00	0.00	0.00	54,673.75	0.00	54,673.75
Total (€)	765,767.00	114,865.05	129,322.00	1,031,930.00	618,968.00	1,810,000.00	4,470,852.05	0.00	4,470,852.05
% of total budget	17.13%	2.57%	2.89%	23.08%	13.84%	40.48%	100.00%	0.00%	100.00%

E.6 Project Budget - Overview per Work Package/ per Budget Line

Work Package	Staff Costs (€)	Office and administration (€)	Travel and accommodation (€)	External expertise and services (€)	Equipment (€)	Infrastructure and Works (€)	Sub-total (€)	Revenues (€)	Total (€)
WP 1	0.00	0.00	0.00	20,000.00	0.00	0.00	0.00	0.00	20,000.00
WP 2	65,737.00	9,860.55	8,000.00	286,316.00	0.00	0.00	369,913.55	0.00	369,913.55
WP 3	35,793.00	5,368.95	22,627.00	25,686.00	34,512.00	0.00	123,986.95	0.00	123,986.95
WP 4	149,006.00	22,350.90	74,636.00	64,558.00	1,700.00	0.00	312,250.90	0.00	312,250.90
WP 5	194,353.00	29,152.95	8,980.00	101,445.00	3,151.00	0.00	337,081.95	0.00	337,081.95
WP 6	75,595.00	11,339.25	4,006.00	87,575.00	0.00	0.00	178,515.25	0.00	178,515.25
WP 7	97,374.00	14,606.10	11,073.00	186,550.00	14,818.00	0.00	324,421.10	0.00	324,421.10
WP 8	147,909.00	22,186.35	0.00	244,800.00	564,787.00	1,810,000.00	2,789,682.35	0.00	2,789,682.35
WP 9	0.00	0.00	0.00	15,000.00	0.00	0.00	0.00	0.00	15,000.00
Total (€)	765,767.00	114,865.05	129,322.00	1,031,930.00	618,968.00	1,810,000.00	4,470,852.05	0.00	4,470,852.05
% of total budget	17.13%	2.57%	2.89%	23.08%	13.84%	40.48%	100.00%	0.00%	100.00%

Part F - Partners contribution

Source(s) of Contribution

Total Contribution Total Contribution Target

PP1 - Alcoy City Council

Name of Organisation/ Source of Contribution	Legal Status	% of Total Partner Contribution	Amount (€)	Cash or In-kind Contribution	Comment
<input type="text" value="Own funds of the entity"/>	<input type="text" value="Public"/>	<input type="text" value="35.49 %"/>	<input type="text" value="70,422.48"/>	<input type="text" value="in-kind"/>	<input type="text" value="Alcoy City Council will contribute in-kind with the required equipment purchase and facilities use. Alcoy has already reserved a budget headline to cover the project expenses and the advanced payments. As well, in I8.1, I8.3 (WP8) and A5.4, this city council will cover the costs of the necessary structural updates for the succes of the project by using own funds, however due to the incertainly of the costs it's not budgeted here as well as a contribution of €80.000 in I8.2"/>
<input type="text" value="Own funds of the entity"/>	<input type="text" value="Public"/>	<input type="text" value="64.51 %"/>	<input type="text" value="128,000.00"/>	<input type="text" value="cash"/>	<input type="text" value="By the mean of a formal agreement, all the partner authorities (Alicante, Alcira and Alcoy city council, and DGA as a regional authority) have decided to directly contribute to the project with an input of cash of €320.000, where each authority will contribute with €80.000. Also, costs derived form the civil servants and other technicians work time is budgeted here as a cash contribution."/>
Total (€)		<input type="text" value="100.00"/>	<input type="text" value="198,422.48"/>		Contribution Target <input type="text" value="198,422.48"/>

PP2 - Alcira City Council

Name of Organisation/ Source of Contribution	Legal Status	% of Total Partner Contribution	Amount (€)	Cash or In-kind Contribution	Comment
<input type="text" value="Own funds of the entity"/>	<input type="text" value="Public"/>	<input type="text" value="44.70 %"/>	<input type="text" value="105,067.45"/>	<input type="text" value="in-kind"/>	<input type="text" value="Alcira City Council will contribute in-kind with the required equipment purchase and facilities use. Alcira has already reserved a budget headline to cover the project expenses and the advanced payments. As well, in I8.1, I8.3 (WP8) and A5.4, this city council will cover the costs of the necessary structural updates for the succes of the project by using own funds, however due to the incertainly of the costs it's not budgeted here as well as a contribution of €80.000 in I8.2"/>
<input type="text" value="Own funds of the entity"/>	<input type="text" value="Public"/>	<input type="text" value="55.30 %"/>	<input type="text" value="130,000.00"/>	<input type="text" value="cash"/>	<input type="text" value="By the mean of a formal agreement, all the partner authorities (Alicante, Alcira and Alcoy city council, and DGA as a regional authority) have decided to directly contribute to the project with an input of cash of €320.000, where each authority will contribute with €80.000. Also, costs derived form the civil servants and other technicians work time is budgeted here as a cash contribution."/>
Total (€)		<input type="text" value="100.00"/>	<input type="text" value="235,067.45"/>		Contribution Target <input type="text" value="235,067.45"/>

PP3 - Alicante City Council

Name of Organisation/ Source of Contribution	Legal Status	% of Total Partner Contribution	Amount (€)	Cash or In-kind Contribution	Comment
Own funds of the entity	Public	48.80 %	104,826.50	in-kind	Alicante City Council will contribute in-kind with the required equipment purchase and facilities use. Alicante has already reserved a budget headline to cover the project expenses and the advanced payments. As well, in l8.1, l8.3 (WP8) and A5.4, this city council will cover the costs of the necessary structural updates for the succes of the project by using own funds, however due to the incertainly of the costs it's not budgeted here as well as a contribution of €80.000 in l8.2
Own funds of the entity	Public	51.20 %	110,000.00	cash	By the mean of a formal agreement, all the partner authorities (Alicante, Alcira and Alcoy city council, and DGA as a regional authority) have decided to directly contribute to the project with an input of cash of €320.000, where each authority will contribute with €80.000. Also, costs derived form the civil servants and other technicians work time is budgeted here as a cash contribution.
Total (€)		100.00	214,826.50		Contribution Target 214,826.50

PP4 - Valencian Politechnic University

Name of Organisation/ Source of Contribution	Legal Status	% of Total Partner Contribution	Amount (€)	Cash or In-kind Contribution	Comment
Own funds of the entity	Public	69.17 %	38,227.05	cash	UPV will contribute to the project implementation making available the participation of its staff (Professors, researchers, technicians, teachers...)
Own funds of the entity	Public	30.83 %	17,040.00	in-kind	UPV classrooms, teaching materials and events hall, will be used in WP3, WP4, WP5, WP6 and WP7. That is how UPV is contributing in-kind to the project budget
Total (€)		100.00	55,267.05		Contribution Target 55,267.05

PP5 - University of Valencia General Study

Name of Organisation/ Source of Contribution	Legal Status	% of Total Partner Contribution	Amount (€)	Cash or In-kind Contribution	Comment
Own funds of the entity	Public	100.00 %	45,955.44	cash	UV staffs (mainly the Water Economics Group) will contribute to the project with personal work time. This work carries a set of costs (fees and taxes) that are also budgeted here as a cash contribution. UV experts and teachers will have a key role in WP4, WP5, WP6 and WP7.
Total (€)		100.00	45,955.44		Contribution Target 45,955.44

PP6 - Water General Directorate

Name of Organisation/ Source of Contribution	Legal Status	% of Total Partner Contribution	Amount (€)	Cash or In-kind Contribution	Comment
Own funds of the entity	Public	40.16 %	53,696.74	cash	DGA (Water General Directorate) as a regional water management authority, will contribute in cash with staffs worktime and with the required currently purchased equipment. DGA has already reserved a budget headline to cover the project expenses and the advanced payments. As well in l8.2, will contribute with an extra of €240.000 to support the grants activity, which is not budgeted here, but will be shaped in the appropriate deliverable.
Own funds of the entity	Public	59.84 %	80,000.00	cash	By the mean of a formal agreement, all the partner authorities (Alicante, Alcira and Alcoy city council, and DGA as a regional authority) have decided to directly contribute to the project with an input of cash of €320.000, where each authority will contribute with €80.000.
Total (€)		100.00	133,696.74		Contribution Target 133,696.74



PP7 - Alicante University

Name of Organisation/ Source of Contribution	Legal Status	% of Total Partner Contribution	Amount (€)	Cash or In-kind Contribution	Comment
Own funds of the entity	Public	100.00 %	10,934.75	cash	This item is budgeted to cover the payment of AU participating staff as a in cash contribution.
Total (€)		100.00	10,934.75		Contribution Target 10,934.75

Part G - Risk Management

Description of the risk	Properties		Actions to mitigate the risk
<p>A lack of coordination between different Urban Authorities and task groups would slow down the project implementation and would carry a deadlines breakdown.</p>	<p>Impact</p>	<p>Serious</p>	<p>The presence of DGA (regional authority main responsible of water affairs) as the main project promotor enables an adequate coordination between different authorities and stakeholders. Moreover a coordination task group has been defined to avoid management failures. This group is constituted by one representative of each participating entity and will be lead for DGA and UPV coordination experts.</p>
<p>Non public acceptance of re-used water, even though it would be of adequate quality. As explained in WP7, some social groups reject regenerated and reused water due to the common belief that it is unsafe. This fact entails a risk for a real circular economy implementation.</p>	<p>Impact</p>	<p>Serious</p>	<p>Foreseeing this risk, an whole WP has been designed focused on social unacceptance mitigation. WP7 includes activities A7.1, A7.3 and A7.5 for awareness, public involvement and water circular economy acceptance.</p>
<p>Economical Aspects Risks. In a first instance, shall consider the entrenched economical interests that a new scheme in water management could affect. Linked with the above explained, there is a risk associated with the distribution of water treatment costs which are required for a circular water use.</p>	<p>Impact</p>	<p>Incident</p>	<p>To prevent this risk, the project design team, has prepare some measures. The involvement from the design phase of Industrial Chambers, bussiness associations and other socio-economic stakeholders, ensures the common acceptance of new economic schemes. A5.3, as costs distribution revision is concern, will be highly linked with communication activities in order to guarantee total transparency.</p>
<p>Investments WP carry out significative risks related with the activities included. These risks are explained in each investment description. Construction of infrastructures, grants open to public participation and the purchase of special 3D modelation material together with the performance of services such as pipelines state inspection, pipelines localization by geo-radar and ultra sound system for leaks detection may produce considerable risks.</p>	<p>Impact</p>	<p>Serious</p>	<p>UPV and DGA engineers and technicians, have a solid experience in this kind of tasks and are compromised to take care of these actions advising and supporting Urban Authorities. These risk are the typical risks associated to the performance of infrastructures and other technics tasks, except in relation to the grants, where a risk of money misusing is detected. As explained in WP8 city councils will check the solvency of each beneficiary and will use their legal departments to palliate risks.</p>



Part H - Confirmation

(Main) Urban Authority confirmation and signature

(Main) Urban Authority Alcoy City Council

By signing the application form the (Main) Urban Authority hereby confirms that:

- the Urban Authorities involved in this project proposal are not involved in other proposals submitted to the UIA Initiative as part of this current Call for Proposals;
- the project neither in whole nor in part has or will receive any other complementary EU funding (except for the funding indicated in this application form) during the whole duration of the project;
- the project partners listed in the application form are committed to take part in the project's activities and financing;
- the (Main) Urban Authority and the project partners will act according to the provisions of the relevant national and EU legislation and policies (especially regarding structural funds, public procurement, state aid, environment and equal opportunities) as well as the specific provisions of the UIA Initiative;
- the information in the Application Form is accurate and true to the best knowledge of the (Main) Urban Authority
- general information about this project can be used by the UIA Initiative to liaise with national and regional authorities in charge of implementation of operational programmes funded by the European Structural and Investment Funds

Forename, Surname	<input type="text" value="Francés, Antonio"/>	Date	<input type="text" value="05/04/2017"/>
Position	<input type="text" value="Mayor"/>	Place	<input type="text" value="Alcoy City Council, Alcoy Spain"/>

Authorized signature of (Main) Urban Authority