Horizon 2020 Societal challenge 5:
Climate action, environment, resource
efficiency and raw materials

Deliverable 1.5

Synergy Exploitation Plan

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Content

List of Acronyms

EC - European Commission

EIP – European Innovation Partnership

IIASA - International Institute for Applied Systems Analysis

IRENA - The International Renewable Energy Agency

JPI - Joint Programming Initiative

MAGIC – Moving towards Adaptive Governance In Complexity

SEP – Synergy Exploitation Plan

WEF -Nexus – Water-Energy-Food Nexus

WssTP - Water and Sanitation Technology Platform

List of Tables

1. Introduction

The present *Synergy Exploitation Plan* (SEP) summarizes the planning and monitoring of activities related to *Task 1.4 Coordination/Synergies with Relevant EU Projects and Other Initiatives* that will take place during the entire duration of the project. The task is part of *Work Package 1* (Management) and covers the interaction with related projects and initiatives, especially the sister project SIM4NEXUS funded under the same WATER-2b-2015 call as MAGIC. The SEP is expected to evolve during the course of the project as project implementation gathers momentum.

The concept of Water-Energy-Food Nexus (WEF-Nexus), key to the project MAGIC, flags the interconnectedness of problems related to the human use of finite natural resources, of their governance regimes and of the biophysical and geopolitical contexts in which these problems ripen. The science and policy realms are sensitive to the new wave of knowledge needs that is arising from the new inter-sectoral approach, and motley research projects devoted to key WEF-Nexus challenges are emerging around the globe. MAGIC is one of the prominent commitments of the European Commission on the search for new avenues to understand, analyze and generate adequate policy responses to this type of challenges in the EU context. As such, it cannot be isolated from the rich network of related initiatives, since cooperation and reciprocity are safe means to guarantee a higher impact and effectiveness in the actions that the project aspires to implement.

The SEP will specifically contribute to MAGIC's key objective of generating and testing new narratives to render mainstream salient terms such as 'Nexus-analysis', 'Nexus-security' and 'Nexus-consistency'. For this purpose, the creation of new analytical tools by itself is insufficient because in order to be influential they must be embedded in socially-defined processes of decision-making. Dialogue spaces need to be opened with a wide variety of initiatives and dissemination strategies enacted in the context of a community building exercise transcending mechanistic scientist-policy maker separation (Funtowicz and Strand 2007), but taking full advantage of the rich spectrum of actors and institutions active in the WEF-Nexus. For this reason MAGIC will also devote this task to initiating and maintaining a network of contacts working on WEF-Nexus issues at different scales and in different contexts, actively looking for and where possible implementing fruitful synergies during the project and after its conclusion. Amongst these synergies are regular exchange of information, joint participation in relevant conferences and policy events, alignment of dissemination activities and social media campaigns, joint preparation of policy briefs or exchange and consolidation of results for related case studies.

The proposed strategy for exploitation of synergies with relevant EU projects and other initiatives is roughly divided along two lines:

- To coordinate and create synergies with the sister project SIM4NEXUS;
- To position MAGIC into the current constellation of WEF-Nexus initiatives and create a sustainable network for collaboration with relevant WEF-Nexus initiatives at national, pan-European and United Nations levels.

Regarding the synergy with SIM4NEXUS, MAGIC and SIM4NEXUS have already developed a fruitful collaboration through the realization of the joint coordination of the WEF-Biodiversity Nexus working group of the Water and Sanitation Technology Platform (WssTP). Regular skype meetings have been held during months 1-6 to design a common synergy plan for the next four years that is detailed in Section 2 of this SEP. In relation to the second line, a first exercise of mapping relevant WEF-Nexus initiatives is presented in Section 3 alongside a corresponding strategy for the generation of synergies. Section 4 alludes to the timeline for the different foreseen activities during the first year (months 1 to 12) and section 5 presents the monitoring and assessment plan.

2. Synergies with SIM4NEXUS

The primary focus of the synergy activities is directed to the sister project SIM4NEXUS. The following strategies for synergy have been identified in agreement with the coordinator of SIM4NEXUS:

1) *Exchange of information on project progress*: SIM4NEXUS (Floor Brouwer) and MAGIC (Mario Giampietro) are represented on each other's External Advisory Board. This implies that they will be actively following up on each other's project evolution by attending project and Advisory Boards meetings.

2) *Alignment, exchange and consolidation of project results*: The two projects will develop common case studies from year 2 onwards. The idea is to pick at least one, but potentially more, common case(s), which both projects will elaborate independently by applying their different approaches and methods. Results will be compared and discussed in a joint paper. As SIM4NEXUS has already defined its case studies, the MAGIC consortium will select one (or more) of these as common case studies (MAGIC will select its case studies with the input from EC policy makers by the end of year 1). In addition, a special issue of a scientific journal could potentially be an outcome of this joint work.

3) *Joint participation in the Water and Sanitation Technology Platform (WssTP) and lead of the WssTP Water-Energy-Food-Biodiversity Nexus Working Group (WG)*: Effective as of 15 September 2016, SIM4NEXUS and MAGIC jointly coordinate the Nexus WG in a rotating structure. SIM4NEXUS, represented by Floor Brouwer, leads the WG during the first year, with MAGIC, represented by Mario Giampietro, co-leading. These roles are alternated on a yearly basis, with MAGIC taking the lead in September 2017. The Nexus WG is expected to meet twice a year during the annual WssTP brokerage event (November) and the annual stakeholder conference (June).

   The two projects first chaired the Nexus WG meeting during the WssTP Brokerage Event, 23-24 November 2016. Participants were asked to provide ideas for the elaboration of the 2017 Work Plan. SIM4NEXUS proposed the idea of organizing a WEF-Nexus policy workshop by the end of 2017 (see next point). MAGIC proposed the idea of a focus group discussion for the next WG meeting in June 2016. In addition, it was suggested to create a wider WEF-Nexus cluster with other relevant WEF-Nexus projects and initiatives in Europe and MENA countries. Collaboration with other WssTP WGs will also be sought, such as Water and Agrifood, Water and Energy, Renewable Energy and Desalination, Water Management in

Gas Production and Storage (related to fracking), Managing Hydroclimatic Extreme Events, and/or Water beyond Europe.

Both projects have created a specific task force to support this effort with several partners from both consortia participating. In the case of MAGIC, UAB, JRC, and HUTTON form part of the task force, all of which are members of the WssTP.

4) *Joint organization of a European Policy Workshop*: The two projects will organize a policy workshop in Brussels in the second half of 2017 around the theme "The water dimension of a low-carbon economy in Europe". The idea is to organize the event as part of the activities of the WssTP Water-Energy-Food-Biodiversity Nexus Working Group, possibly just before or after the 2017 WssTP brokerage event and in collaboration with other WssTP working groups (e.g., Water and Energy WG; Water and Agrifood WG).

5) *Joint organization of a Science Event*: The two project consortia will organize a joint science event in the second half of 2018, possibly as part of the activities of the WssTP Water-Energy-Food-Biodiversity Nexus Working Group.

6) *Joint participation in other meetings and events, possibly upon suggestion of the Project Advisor, to promote the visibility and outputs of the projects*. Both projects have already participated in the event "Understanding the Water-Energy Nexus: Integrated Water and Power System Modelling", a workshop organized by the European Commission and the US Department of Energy, September 28-29, 2016, at the DG Joint Research Centre's Laboratories, Ispra, Italy. Other suggestions include major climate change events, such as the sessions of the Conference of the Parties (COP 22) to the United Nations Framework Convention on Climate Change (UNFCCC) or IPCC meetings. The COP22 of 7-18 November 2016 at Marrakech, flagged by the Project Advisor, was attended by MAGIC's Climate Analytics (CA) team. However, it was deemed too early to coordinate a common action with SIM4NEXUS for the COP22, and it was agreed to wait until 2017 when tangible results, relevant for these fora, will be available. Both project leaders will check with their respective consortia for relevant contacts to organize climate change-related activities.

7) *Alignment of other communication and dissemination activities*:

   - Organization of special sessions in conferences. Both project consortia will propose a list of potentially interesting conferences.
   - Joint twitter and social-media campaigns. Both projects are active on Twitter (@MAGIC_NEXUS; @SIM4NEXUS) and Facebook and plan to launch specific joint campaigns around key project results or milestones to improve their visibility and effectiveness.

3. Synergies with other WEF Nexus initiatives

3.1. Mapping other WEF nexus initiatives

This section commences the map of WEF-Nexus initiatives that are potentially relevant for synergies with MAGIC. The list will be expanded in parallel with project-network growth. In addition, a more detailed analysis of similarities and differences with these initiatives will be undertaken during the second year of the project with the aim of maximizing the impact of synergistic efforts.

3.1.1. Other EU funded projects

Several other EU-funded projects have been identified that specifically address the water-energy-food nexus, or the energy-water nexus (see Annex 1), the majority of these with a geographical focus on the Mediterranean area. (Annex 1 is far from exhaustive and will be expanded during the course of the project.) These projects offer opportunities for synergy exploitation with regard to innovations in industry (e.g., energy efficiency of industrial water uses –ENERGYWATER, WATERWATT– and waste water treatment plants–ENERWATER), the development of alternative energy technologies (e.g., development of water-efficient CSP plants –WASCOP– and solar thermal energy for desalinisation–STAGE-STE) and agriculture (energy and water efficient irrigation–WEAM4i, MADFORWATER), as well as with regard to dissemination and networking (e.g., IC4WATER, 4PRIMA, MEDSPRING, 5TOI_4EWAS). By far the most interesting project for synergy exploitation is DAFNE, given its similarity in project objectives.

DAFNE ("Use of a Decision-Analytic Framework to explore the water-energy-food Nexus in complex and trans-boundary water resources systems of fast growing developing countries", http://cordis.europa.eu/project/rcn/203272_es.html, coordinated by the Swiss Federal Institute of Technology (ETH), project duration 01-09-2016 to 31-08-2020): DAFNE focuses on the development of a decision-analytic-framework to quantitatively assess the social, economic, and environmental impact of expanding energy (hydropower) and food production in complex physical and political contexts, where natural and social processes are strongly interconnected and the institutional setting involves multiple stakeholders and decision-makers. DAFNE explicitly explores the water-energy-food Nexus at the river basin level, namely the Zambezi and Omo rivers in Africa. While this geographic area (Africa) in itself is not of direct interest to MAGIC, the project is highly relevant for the exploitation of synergies with regard to the development of a decision-analytical framework at the level of the river basin/watershed.

3.1.2. ETPs, EIPs and JPIs

During the last decade, the European Commission (EC) has put significant effort in sustaining an active ecosystem of public-private partnerships for the development and implementation of the EU strategy for research and innovation. Several supporting structures (European Technology Platforms (ETP), Joint Programming Initiatives (JPI) and European Innovation Partnerships (EIP)) have been created attending to specific policy-relevant topics with the aim of coordinating and maximizing the

impact of public investments in the consecutive Framework Programs. Several of these initiatives relate to the water-energy-food nexus and are of potential interest for MAGIC to create synergies:

Relevant ETPs

Among the relevant European Technology Platforms, the WssTP has already been discussed in section 2. Other ETPs that are of potential interest include the European Biofuels Technology Platform in relation to Task 6.2 Innovation Biofuels (WP 6), and the Zero Emissions Platform in relation to Task 6.7 Innovation EU low-carbon strategy (WP 6).

EIP WATER

The European Innovation Partnership (EIP) on Water is one of five EIP initiatives launched by the EC within the EU 2020 Innovation Union. The EIP Water facilitates the development of innovative solutions to address major European and global water challenges. At the same time, the EIP Water supports the creation of market opportunities for these innovations, both inside and outside of Europe. The platform has 29 action groups focused on specific Priority Areas. The following action groups in the Priority Area *Water-Energy Nexus* are of interest for MAGIC:

- Renewable Energy Desalination (http://www.eip-water.eu/RE_Desalination), relevant in relation to Task 6.6 Innovation Desalination (WP 6). MAGIC partner ITC is already a member of this action group.
- Water for Energy Framework.

EIP Water runs the website My Marketplace, which is an important hub for networking and dissemination of water research projects in Europe. It connects projects, people, organisations, products and services. MAGIC has already been added to the repository (http://www.eip-water.eu/projects/magic-moving-towards-adaptive-governance-complexity-informing-nexus-security).

EIP AGRI

EIP AGRI focusses on innovation challenges for a sustainable agriculture in Europe and around the world. There are 21 focus groups, two of which are of particular relevance for MAGIC:

- Benchmarking of Farm Productivity and Sustainability Performance – this focus group could be a potential valuable source of data for the Nexus Information Space.
- Water & agriculture – this group focusses on proposing adaptive strategies for dealing with water scarcity at the farm level and could be a potential source for innovations to be tested in MAGIC.

JPI WATER

The Joint Programming Initiative (JPI) on Water, launched in 2010, gathers Member States representatives with the aim of improving the effectiveness of water research and innovation to meet the objective of achieving sustainable water systems in Europe. It is a relevant actor in the structure of the Horizon 2020 program and works in close collaboration with both EIP Water and WssTP. According to the new EU research and innovation strategy, the partnership between

European Commission and Member States will be improved, and designated EC representatives belonging to various Directorates-General (DGs) will actively participate in the works of the European Technology Platforms, of the Joint Programming Initiatives and European Innovation Partnerships. Therefore, the JPI is an important synergy partner for MAGIC, not only for gaining visibility but also for engaging with stakeholders from relevant DGs with whom they maintain contact.

JPI runs an intense activity on systematization, dissemination and networking of water research in Europe, as well as on training on several aspects such as improving impact and effectiveness of water research. (On 24 September 2016, Violeta Cabello from the UAB team joined a webinar organized jointly by JPI and EIP water on how to maximize the impacts of innovation.) It pursues its own Strategic Research and Innovation Agenda with a different yet complementary vision than the one of WssTP. In addition, the platform has two important dissemination tools: (i) a project database where European research projects can be searched by country, institution or researcher; (ii) a recently added open data platform where all the open access publications, models, data, videos or events resulting from European projects are being gathered and made accessible to any citizen.

3.1.3. Other Relevant WEF-Nexus initiatives

During the past several years, the concept of WEF Nexus has gained prominence and a host of nexus initiatives has been launched within the EU, notably in the UK. The following list is far from exhaustive and only attempts to summarize those initiatives that appear promising for synergy exploitation.

The Water, Energy & Food Security Resource Platform

At the international level, the Water, Energy & Food Security Resource Platform currently leads the networking endeavors of Nexus initiatives. The platform was launched in 2011 after the Conference "The Water, Energy and Food Security Nexus–Solutions for the Green Economy" took place in Bonn, Germany. It is funded by the Federal Ministry of Economic Cooperation and Development and the European Union and serves as an independent global WEF-Nexus information hub. So far, most of its research focus has been located in the Middle East and North Africa Region as well as in Latin America and the Caribbean but their interviews and blog sections cover many other regions as well.

In addition to information on WEF-Nexus research projects, the platform website includes: (i) a calendar of relevant WEF-Nexus conferences and events; (ii) a rich section of resources with all sorts of information formats such as documents, publications, videos, policy documents, organizations, case studies or infographics. Both of these are extremely useful, both for dissemination and synergies exploitation, and to feed the project list of conferences to attend as well as to gain visibility of the different outputs expected from the MAGIC research activities by sharing them on the platform.

Partnership for Research and Innovation in the Mediterranean Area

PRIMA, Partnership for Research and Innovation in the Mediterranean Area, is a joint program for research and innovation on the WEF-Nexus in Mediterranean countries. Recently launched in 2014,

a network of 15 countries are participating (including Spain, Germany and Italy, which are represented in MAGIC) and will open future calls for research proposals from 2018 to 2028. This provides an excellent opportunity to seek new synergies, once MAGIC has reached its midterm, and potentially join other partnerships within the programme.

The Nexus Network

The United Kingdom is one of the countries where paramount attention is being paid to WEF-Nexus issues on the science & policy interface. A leader initiative in this endeavor is the Nexus Network, co-led by the University of Sussex, in partnership with the University of East Anglia and the Cambridge Institute for Sustainability Leadership. The network is funded by the UK Economic and Social Research Council (ESRC) and brings together researchers, policy makers, business leaders and civil society to develop collaborative projects and improve decision making, running different types of Nexus related projects with a particular focus on African countries and Ireland. In addition to the above mentioned universities, the STEPS Centre is another partner in this network that is of particular interest for MAGIC given its focus on transdisciplinary sustainability research.

The International Renewable Energy Agency

The International Renewable Energy Agency (IRENA) is an "intergovernmental organisation that supports countries in their transition to a sustainable energy future, and serves as the principal platform for international co-operation, a centre of excellence, and a repository of policy, technology, resource and financial knowledge on renewable energy" (IRENA website accessed October 2016). Even though its focus is on renewable energy, IRENA published in 2015 one of the most significant systematic reviews of WEF-Nexus research and policy challenges (see Ferroukhi et al. 2015) with the aim of promoting the role of these technologies to address WEF-Nexus challenges. Given the international reach of this platform and its technological innovation focus, it is a potential synergy partner for MAGIC activities.

The International Institute for Applied Systems Analysis

The International Institute for Applied Systems Analysis (IIASA) has recently launched a new project entitled Integrated Solutions for Water, Energy, and Land. The project aims to identify solutions for nexus challenges in selected regions of the world linking them to the achievement of the Sustainable Development Goals. IIASA is another important organisation to develop synergies with because of its specific complex systems approach. Last August 2016, IIASA organised a five days training workshop on Evidence Based Policy together with the European Commission and the African Union. The workshop was attended by Violeta Cabello from the UAB team, who presented the MAGIC project at the event.

Centre for the Evaluation of Complexity Across the Nexus

CECAN **(**UK) aims to pioneer, test and promote innovative evaluation approaches and methods across nexus problem domains, such as biofuel production or climate change, where food, energy, water and environmental issues intersect. In as such, this Centre presents an opportunity for synergy exploitation.

Fundación Canal

Canal de Isabel II in Madrid recently published the first book on the WEF-Nexus situation and challenges in Spain (See et al. 2016). This work presents relevant synergy options for the case studies of MAGIC as well as SIM4NEXUS in this country.

Other UK Nexus initiatives

Potentially interesting nexus research projects, identified in the specific UK context, include:

- **WEFWEBs** – aims to 'map the nexus' in various meanings of the word with a particular focus on waste management.
- **Stepping up –**Sustainability for Water, Energy and Food – focuses on showcasing how to scale up nexus-friendly innovations using agent-based modelling.
- **Vaccinating the Nexus** – focuses on "nexus shocks" and "WEF security" assessment in a wide range of scenarios.

3.2. Strategy to exploit synergies with WEF-Nexus initiatives

The following table shows the proposed strategies to exploit synergies with the different identified initiatives.

EU Research projects	
DAFNE & other EU projects	➢ Regular exchange of information with regard to project results and events ➢ Participation, where possible and relevant, in partner events ➢ Invitation to participate in MAGIC events ➢ Exchange of analytical materials produced ➢ Access to databases (if any) ➢ Dissemination of MAGIC's events, newsletter and other materials, and vice versa
ETP – JPI – EIP	
EIP WATER	➢ Add MAGIC to the project database 'My Marketplace' and keep the information updated; Contact other Nexus initiatives in the database for exchange of information and dissemination ➢ Participate in the action group for Renewable Energy Desalination (ITC is member) ➢ Contact the action group for Water for Energy Framework and encourage participation of interested MAGIC partners (e.g. UT, UAB) ➢ Participation in EIP Water events and invitation to attend MAGIC events
EIP AGRI	➢ Contact relevant focus groups and encourage participation of interested MAGIC partners (WU) in these groups ➢ Access to databases

	➢ Participation in EIP AGRI events and invitation to attend MAGIC events ➢ Dissemination of MAGIC's newsletter and other material
JPI WATER	➢ Participation in JPI workshops and webinars. The UAB team will keep an active role in informing MAGIC partners about this type of training events and encouraging participation. ➢ Add MAGIC to the JPI water project database and facilitate access to the research outputs in their open data platform ➢ Where possible, engaging relevant stakeholders in MAGIC
Other WEF Nexus initiatives	
WEF Security Platform, The Nexus Network, etc.	➢ Subscribe to network/platform mailing list or newsletters ➢ Dissemination of MAGIC's newsletter, publications, workshop/conference announcements, etc. ➢ Support social media campaigns on relevant WEF Security topics ➢ Publication of MAGIC's outputs in relevant resources site ➢ Mutual exchange of information (research projects) ➢ Access to databases (if any) ➢ Invitation to participate in MAGIC events ➢ Participation, where possible and relevant, in events organized by these platforms/networks/institutes

Table 1 Strategies to exploit synergies with different initiatives

4. Synergy Plan Timeline M1-12

Activity	1	2	3	4	5	6	7	8	9	10	11	12
SYNERGY WITH SIM4NEXUS												
Attendance to WssTP events and WIE												
Coordination of WssTP Nexus working group												
Regular meetings and coordination among both projects												
Start common case study(ies)												
Organization of special sessions in conferences and relevant events												
Social media campaigns												

SYNERGY WITH ETP – JPI – EIP												
Add MAGIC to repositories of research projects & regular update of information and project outputs												
Contact relevant working/action groups to explore synergies and participation												
Participation in relevant conferences, webinars and events organised by these platforms												
SYNERGY WITH WEF-NEXUS INITIATIVES												
Elaboration of a list of WEF-Nexus conferences and events												
Mapping relevant WEF-Nexus platforms, initiatives, and projects												
Follow Twitter and Facebook accounts of these initiatives; Support relevant campaigns												
Establish contacts with identified platforms and initiatives to explore potential synergies; mutual exchange of information												
Participation, where possible and relevant, in partner events and vice versa												
Update the SEP according to feedback received												
Create a synergies section in MAGIC website												

Table 2 Gantt chart of synergy exploitation activities during the first year of MAGIC

Legend

	Overall duration
	Design and implement activity
	Maintenance tasks

5. Monitoring and evaluation

Synergy exploitation will be monitored and evaluated against the criteria listed in the table below. The adopted metrics and the periodicity will vary according to specific synergy types identified.

Objective of synergy	Action	Evaluation criteria	Contingency Measure
Synergy with SIM4NEXUS	Coordination of WssTP Nexus Working Group	Number and diversity of participants in the WG; Number of activities organised	Increase dissemination efforts within and outside of WssTP; Prepare a specific campaign to raise visibility.
	Organization of scientific and policy events	Number of participants in the events	
	Joint participation in conferences and events	Number of attended events	Early identification of key conferences. Recall partners to actively participate in the events
	Common case study; Consolidation of results from both approaches	Number of papers published and editorial relevance of the journals; Joint paper contrasting results; Overall impact of the contributions.	Prioritise the identified common case study with SIM4NEXUS over the others.
	Social media campaigns	Analysis of the impacts of the campaigns (users reached, shares, new follows, etc.)	Remind partners to actively participate in the campaigns with their official accounts
Synergy with innovation platforms	Regular update of MAGIC information and project outputs in their repositories	Visits and downloads of MAGIC information in these repositories (if measurable).	Reminding the partners to actively participate in the platforms and attend the relevant meetings
	Participation in working groups	Number of meetings attended and diversity of working groups.	Seek participation through known contacts to guarantee acceptance
	Participation in events	Number of events	Early identification of key events. Coordinate participation of MAGIC partners
Synergy with other WEF-Nexus initiatives	Regular mutual exchange of information	Number of effective contacts established; Number and types of information exchange channels implemented	Remind the partners to prioritise the travel budget for participation in joint WEF-Nexus initiatives over ordinary scientific conferences
	Participation in partner events, and vice versa	Number of events attended; Number of joint sessions organised with other WEF-Nexus initiatives	Early identification of key events; Coordinate participation of MAGIC partners
	Synergies through social media	Number of retweets and shares from WEF-Nexus initiatives accounts; numbers of followers	Recall partners to actively participate in the campaigns with their official accounts

Table 3 Monitoring criteria for impact assessment of the SEP

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ANNEX 1: PRELIMINARY LIST OF EU-FUNDED PROJECTS WITH A FOCUS ON THE WATER-ENERGY-(FOOD) NEXUS

ACRONYM	NAME	Managed by	Programme	Type of action	Period	Link	Coordinator	Project objectives
4PRIMA	Partnership for Research and Innovation in the Mediterranean Area		H2020	CSA	2016-05-01 to 2017-10-31	http://cordis.europa.eu/project/rcn/205701_en.html	MIUR - Ministero dell'Istruzione, dell'Università e della Ricerca (Italy)	The 4PRIMA CSA will create the bases and will develop a set of activities aimed at supporting the establishment of a long-term, well-structured and integrated partnership for research and innovation (R&I) on food systems and water resources, among countries from both sides of the Mediterranean Sea ("PRIMA Initiative").
5TOI_4EWAS	Quintuple Helix Approach to Targeted Open Innovation in Energy, Water, Agriculture in the South Mediterranean Neighborhood	RTD C3 International Coop	H2020	CSA	2016-05-01 to 2019-04-30	http://cordis.europa.eu/project/rcn/204477_en.html	Universitat Autònoma de Barcelona (M. Valiente)	5TOI_4EWAS project will focus on Targeted Open Innovation in energy, water and agriculture societal challenges through a balanced innovation-friendly ecosystem in the Southern Mediterranean Neighborhood (SMN) based on quintuple helix and NEXUS approach.
DAFNE	Use of a Decision-Analytic Framework to explore the water-energy-food NExus in complex and trans-boundary water resources systems of fast growing developing countries.	EASME B2	H2020	RIA	2016-09-01 to 2020-08-31	http://cordis.europa.eu/project/rcn/203272_en.html	ETH Zürich	Focus on development of a decision-analytic-framework to quantitatively assess the social, economic, and environmental impact of expanding energy (hydropower) and food production in complex physical and political contexts, where natural and social processes are strongly interconnected and the institutional setting involves multiple stakeholders and decision-makers. The approach will be demonstrated by analysing two cross-boundary case studies, the Zambezi and the Omo river basins.
ENERGYWATER	Improving energy efficiency in industrial water processes through benchmarking and benchlearning tools in Europe manufacturing industry.	EASME B1	H2020	CSA	2016-02-01 to 2019-01-31	http://cordis.europa.eu/project/rcn/200074_en.html	Instituto Tecnológico de Castilla y Leon	Water and energy efficiency in Industry
ENERWATER	Standard method and online tool for assessing and improving the energy efficiency of wastewater treatment plants	EASME B1	H2020	CSA	2015-03-01 to 2018-02-28	http://cordis.europa.eu/project/rcn/194621_en.html	Universidad de Santiago de Compostela	Water and energy efficiency in Industry/Waste water treatment
IC4WATER	Tackling Water Challenges in the International Context		H2020	CSA	2017-01-01 to 2021-12-31	http://cordis.europa.eu/project/rcn/206013_en.html	Agence Nationale de la Recherche (ANR) (France)	IC4WATER's objectives include supporting agencies in stepping up international cooperation: through the sharing of best practices, networking, closer coordination of existing activities, and the establishment of new relationships to facilitate multidisciplinary networking across the water challenges at a wider scale, both with respect to research and geographical areas.
MADFORWATER	DevelopMent AnD application of integrated technological and management solutions FOR wasteWATER treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries (http://www.madforwater.eu/the-project/).	EASME B2	H2020	RIA	2016-06-01 to 2020-05-31	http://cordis.europa.eu/project/rcn/202631_en.html	University of Bologna	The aim of MADFORWATER is to develop a set of integrated technological and management solutions to enhance wastewater treatment, treated wastewater reuse for irrigation and water efficiency in agriculture in three MACs (Tunisia, Morocco and Egypt).
MEDSPRING	Mediterranean Science, Policy, Research & Innovation Gateway -	RTD C3 International Coop	FP7	CSA	finished	http://medspring.eu/	CIHEAM-IAMB Bari (Italy)	The project is focused on three societal challenges (Energy, High Quality Affordable Food, and Scarcity of resources) and aims at tackling policy objectives by creating a dialogue and coordination platform of governmental institutions, research organisations, associations and civil society.
STAGE-STE	Scientific and Technological Alliance for Guaranteeing the European Excellence in Concentrating Solar Thermal Energy	RTD G3 Renew Energy	FP7	CSA	2014-02-01 to 2018-01-31	http://cordis.europa.eu/project/rcn/111484_en.html	CIEMAT (Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas)	Solar thermal energy, among others for desalination
WASCOP	Water Saving for Solar Concentrated Power	RTD G3 Renew Energy	H2020	RIA	2016-01-01 to 2019-12-31	http://cordis.europa.eu/project/rcn/199297_en.html	Commissariat à l'énergie atomique et aux énergies alternatives (CEA)	WASCOP brings together leading EU and Moroccan Institutions, Universities, and commercial SMEs and industry to develop a revolutionary innovation in water management of CSP (Concentrating Solar Power) plants. Testing sites in France, Spain and Morocco.
WATERWATT	Improvement of energy efficiency in industrial water circuits using gamification for online self-assessment, benchmarking and economic decision support	EASME B1	H2020	CSA	2016-04-01 to 2019-03-31	http://cordis.europa.eu/project/rcn/200049_en.html	DECHEMA Gesellschaft für Chemische Technik und Biotechnologie e. V.	Water and energy efficiency in Industry
WEAM4i	WATER AND ENERGY ADVANCED MANAGEMENT FOR IRRIGATION	RTD I2 Eco-Inno	FP7	INNO-DEMO	2013-11-01 to 2017-04-30	http://cordis.europa.eu/project/rcn/111407_en.html	METEOSIM SL (Barcelona)	The aim of the project is to improve the efficiency of water use and reduce the costs of power irrigation systems in agriculture through the development a smart network for the management of irrigation that will act interactively on the rational use of water and energy. The project addresses 2 of the priorities of the EIP Water: "Water-Energy nexus" and "Decision support systems (DSS) and monitoring".