

<b>Draft Project Title</b>	HYDROPTIM concept
<b>Short Description of the project idea and expected outcomes</b>	<p>Decision support tool for the optimization of the operation of hydraulic systems, based on the mathematical minimization of the system cost function (including energy, water sources, treatment costs, etc)</p> <p>HYDROPTIM minimizes the cost function, while satisfying the water demand and respecting the physical constraints.</p> <p>In off-line mode, HYDROPTIM is a support tool for building 'what-if' scenarios for decision making on infrastructure investments, water shortage, potential breakdowns, new energy contracts, etc.</p> <p>In on-line mode, HYDROPTIM provides the optimal set-points for the operation of the hydraulic system for the next period (hour, day) for a given time horizon (day, week)</p>
<b>Main Objectives</b>	HYDROPTIM has been demonstrated as off-line simulation tool in previous R&D projects, the new objective is the demonstration in operational mode for different water systems.
<b>List of potential activities</b>	<p>Demonstration in 2 or 3 large scale water systems:</p> <ul style="list-style-type: none"> <li>- modelization of the physical system</li> <li>- definition of the cost function</li> <li>- integration with the online data sources</li> <li>- deployment in operation and validation</li> </ul>
<b>Expected impact on European level</b>	<p>HYDROPTIM is a generic optimization tools applicable to any complex water system: bulk water conveyance infrastructures, water supply, water reuse schemes, sewage systems, irrigation infrastructures, hydrologic/hydraulic systems.</p> <p>HYDROPTIM will facilitate the adoption of the Integrated Water Resources Management concept at operational level. In addition, it will facilitate the development of new water reuse schemes.</p>
<b>Call identifier</b>	CIRC-2-2017
<b>Full topic</b>	b) Towards the next generation of water systems and services– large scale demonstration projects
<b>Type of action (RIA, CSA, etc.)</b>	IA
	I am looking for a project leader/coordinator
<b>Which kind of partner are you searching for?</b>	Industry water utilities
<b>Expertise or specific role of partners sought</b>	ICT interoperability
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**Description of the organisation**

Solutions provider for water and environmental sector