


Proposal Evaluation Form

	EUROPEAN COMMISSION	Evaluation Summary Report - Research and innovation actions/Innovation actions
Horizon 2020 - Research and Innovation Framework Programme		

Call: H2020-CIRC-2017TwoStage
Funding scheme: IA
Proposal number: 776451-1
Proposal acronym: FullWaterRecovery
Duration (months): 36
Proposal title: Integrated Water Cycle characterization, simulation and upgrade for safe reuse of water-sludge resources in agricultural and touristic areas
Activity: CIRC-02-2017

N.	Proposer name	Country	Total Cost	%	Grant Requested	%
1	UNIVERSITA DEGLI STUDI DI UDINE	IT	8,750,000	100.00%	8,750,000	100.00%
2	KEMIJSKI INSTITUT	SI	0	0.00%	0	0.00%
3	AGENCIA ESTATAL CONSEJO SUPERIOR DEINVESTIGACIONES CIENTIFICAS	ES	0	0.00%	0	0.00%
4	INSTITUT ZA POLJOPRIVREDU I TURIZAM USTANOVA	HR	0	0.00%	0	0.00%
5	ISTITUTO DI RICERCHE FARMACOLOGICHE MARIO NEGRI	IT	0	0.00%	0	0.00%
6	ACQUEDOTTO POIANA SPA	IT	0	0.00%	0	0.00%
7	TECHNISCHE UNIVERSITAET WIEN	AT	0	0.00%	0	0.00%
8	IRISACQUA srl	IT	0	0.00%	0	0.00%
9	Consorzio tutela vini "Friuli Colli Orientali e Ramandolo"	IT	0	0.00%	0	0.00%
10	AGENZIA REGIONALE PER LA PROTEZIONE DELL'AMBIENTE DEL FRIULI VENEZIA GIULIA	IT	0	0.00%	0	0.00%
11	GIT Grado Impianti Turistici S.p.A.	IT	0	0.00%	0	0.00%
12	Soc. Agr. Friul Prati s.s di Lucca G&M	IT	0	0.00%	0	0.00%
13	MOSAICO TECNOLOGIE AMBIENTE E INDUSTRIE SRL	IT	0	0.00%	0	0.00%
Total:			8,750,000		8,750,000	

Abstract:

The project proposal deals with the water services and recovery actions in the context of the circular economy. The overall objective is to develop an innovative approach for the management of water resources by the optimization and design of simulation and upgrades of the Integrated Water Cycle (IWC), intended as collection-distribution-sewerage-sanification-drain-residual impact control of water in anthropic activities. The project aims to develop a new paradigm for wastewater treatment and residuals control for the safe reuse of water both for irrigation of vineyards and public green in tourist and recreational areas. The primary purpose of the project is thinking a new approach to the closure of the water cycle, increasing the efficiency of the wastewater treatment plants through the re-use of water/sludge/nutrients resource. The proposal is a large scale demonstration project in which innovative solutions are presented and organized in three phases: a) characterization and simulation of selected IWC with the study and development of innovative solutions for water, sludge and nutrients safe recovery; b) design and pilot implementation of the new systems achieved in the first phase in a specific regional-basin area of agronomic and tourist interest in Friuli Venezia Giulia Region (Italy); c) planning and transfer the innovative standards and guide-lines, in other regions with different hydrogeological and climate features. The main goal of the project is the characterization of Integrated Water Cycles by modelling flows and treatments, checking processes, seeking recovery potential and controlling toxicity of residuals, in order to safely reuse water effluents, sludge and nutrients for various purposes. The development of a pilot demonstration project for water resources recovery will lead to new perspectives for reuse and will form a new operational paradigm, easily exportable and implemented in other partner countries and other territorial realities.

Evaluation Summary Report

Evaluation Result

Total score: 6.00

Form information

Proposals must be evaluated as they were submitted, NOT on their potential if certain changes were made.

Therefore, do not recommend any modifications (e.g. consortia composition, resources or budget, or inclusion of additional work packages).

All shortcomings must instead be reflected in lower score.

If a proposal is partly out of scope, this should be reflected in the scoring and explained in the comments

SCORING

Scores must be in the range 0-5.

Interpretation of the score:

0 The proposal fails to address the criterion or cannot be assessed due to missing or incomplete information.

- 1 Poor.** The criterion is inadequately addressed, or there are serious inherent weaknesses.
- 2 Fair.** The proposal broadly addresses the criterion, but there are significant weaknesses.
- 3 Good.** The proposal addresses the criterion well, but a number of shortcomings are present.
- 4 Very good.** The proposal addresses the criterion very well, but a small number of shortcomings are present.
- 5 Excellent.** The proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.

Criterion 1 - Excellence

Score: **3.00** (Threshold: 4/5.00 , Weight: 100.00%)

The following aspects will be taken into account, to the extent that the proposed work corresponds to the topic description in the work programme:

Clarity and pertinence of the objectives

The proposal addresses the specific challenge and scope of the topic well. However, a number of shortcomings are present in relation to the work programme requirements: the development of a business plan is not addressed, regulatory/ governance issues are marginally touched upon with no mention of specific actions, while activities aiming at facilitating the market uptake are not elaborated.

Soundness of the concept, and credibility of the proposed methodology

The overall concept is sound, yet not well-elaborated and presents significant weaknesses/ shortcomings: the specific technologies to be employed in the demo sites are not described, the specific activities and their interconnections are not elaborated (only medium-long term results are presented); there is a lack of clear, measurable and time bound outputs; it is unclear in sections of the text if the project is upgrading existing facilities, providing additional facilities or monitoring existing processes. The proposal states that the end TRL will be between 5 and 7, nevertheless the information provided regarding the starting TRL, the target TRL and the reasons why the consortium thinks this is achievable is not adequate, which is also considered a shortcoming.

Extent that proposed work is beyond the state of the art, and demonstrates innovation potential (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisational models)

The proposed work targets advancing the state-of-art in general terms as it sets to achieve new operational standards for the simulation of the Integrated Water Cycle with the possibility of resource recovery, considering new approach to safety, acceptability and policy. Yet, the overall projects' ambition in relation to the call is limited, since concrete activities to evolve these standards into innovative services of the future are poorly addressed, and this is considered a shortcoming. Exploitation activities that will boost replication are also lacking. Some specific and measurable key performance indicators that could indicate the innovative and ground-breaking aspects of the proposal are lacking. The later are also shortcomings.

Appropriate consideration of interdisciplinary approaches and, where relevant, use of stakeholder knowledge

Inter-disciplinary considerations are sufficiently addressed, focusing on the involvement of the water managing authorities and the water service stakeholders. A part of the project will be devoted to the water customers' involvement, supporting the collaboration among municipalities, tourist promotion companies, winery companies and water facility companies, enhancing thus the social aspects of the project. Additionally, the agricultural (irrigation) and tourist sectors are addressed.

Criterion 2 - Impact

Score: **3.00** (Threshold: 4/5.00 , Weight: 100.00%)

The following aspects have been taken into account:

The extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the work programme under the relevant topic

The outputs of the project address some of the expected impacts of the call, but a number of shortcomings are present: although it is mentioned in the proposal that the choice to limit the study to one area allows to investigate various issues, it can jeopardize the expected impact of the project since limited (as opposed to having demos in multiple areas where different practices, socio-economic and governance/institutional settings exist); replication of new business models in other areas and replication of models for synergies between appropriate funding instruments is stated, yet no specific actions are listed to strengthen the statement (e.g. concrete replication/exploitation activities are not described); means to achieve a closing of the infrastructure and investment gap in the water service sector are marginally addressed; the creation of new markets in the short and medium term seems limited to the local business (neither the market size nor the market potential are described in the proposal). An additional shortcoming is that the proposal does not provide any quantification of the expected impacts (i.e. measurable estimates of technical and financial impacts and/or target are not provided).

Scope of the proposal

Status: **Yes**

Comments (in case the proposal is out of scope)

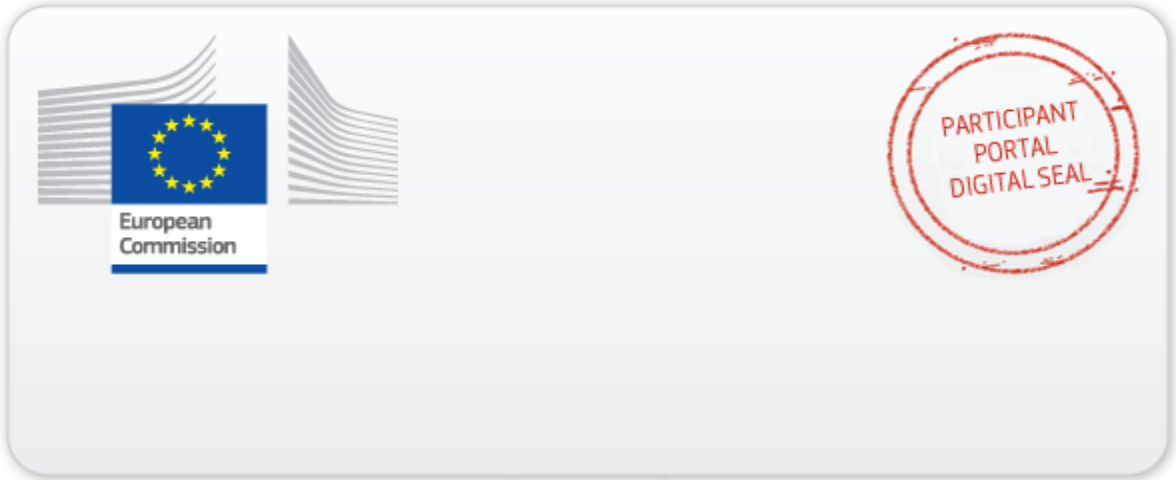
Not provided

Use of human embryonic stem cells (hESC)

Status: **No**

If yes, please state whether the use of hESC is, or is not, in your opinion, necessary to achieve the scientific objectives of the proposal and the reasons why. Alternatively, please also state if it cannot be assessed whether the use of hESC is necessary or not because of a lack of information.

Not provided



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