**Annex 5**

**Templates for Mid-Term Evaluation Report**

**(Individual and Consensus)**

**Water Joint Programming Initiative**

**2018 Joint Call**

*Closing the water cycle gap - Sustainable management of water resources*

These Project Management Guidelines will be effective from the date of the National funding decisions and shall remain in force until the last final project report is approved in 2022.

**The Mid-Term Consensus Report will be made available to the Consortium as well as CSC and JPI Water GB.**

**MID-TERM INDIVIDUAL EVALUATION REPORT**

**PROJECT TITLE AND ACRONYM**

Name of Coordinator: **Bob Su**

Project code: WaterWorks2017- **iAqueduct**

Duration of project: **36 Months**

Start date:  **11-06-2019** End date: **11-06-2022**

**DETAILS OF THE EVALUATOR**

Name: Antonio Lo Porto

Organisation: IRSA-CNR

Date of review: 11/04/2021

### **Scientific and technological progress** (*Maximum 250 words)*

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| *Please describe the work performed and the results obtained during the lifetime of the project, and the conformity of work progress within the initial schedule. Take into account the following aspects:*   * *Has progress been achieved towards reaching the project objectives according to the original description and milestones?* * *Detailed update on methodology & results* * *How has the progress of the project promoted a multi-disciplinary work?* * *Dissemination of the results (publications, patents, other)*   The partnership has done some advancement in the planned work, notably in running some joint field activity in one of the test sites (Alento) and applying a downscaling methodology to remotely sensed data. The MidTerm report does not allow in many points to understand if a certain piece of the job has been carried out during the project life or is “inherited” from other previous projects. As a matter of facts, despite the verbose description of achievements done within the project (?), none of the expected deliverables has been completed. In one case (D2.2) the Deliverable is reported to have been published as a paper which is anyway not listed in any other place in the document (and is not existing on WOS or Scopus).  There is no reference to the expected completed Deliverables (as in the proposal) D0.1\_1 D0.1\_2, D0.1\_3, D0.1\_4, D1.1, D2.1, D6.1  The report touches D6.2 (expected however at the end of the second year) but refers to activities that hardly can be linked to the expected content.  The report includes a list of 10 published scientific papers which however in all the cases (but two) acknowledge several other funding programs, without any reference to Water JPI. In a couple of cases the referred published articles do not exist and in one case is surprisingly referring to some scientific activity done in Tibet…  Dissemination activity includes the publication on the web of the demo of a tool. The job carried out so far show a good degree of multi-disciplinary.  The proposal includes six study sites but none of these (excluding the Alento site) is even mentioned in the report.  The report is really verbose, includes too many descriptions of work to be done in the future and gives the impression of trying to impress the reader rather than to report the actual amount of work done |

### **Collaboration, coordination and mobility within the Consortium** (*Maximum 250 words)*

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| *Please evaluate the collaboration, coordination and mobility within the Consortium*  *Take into account the following aspects:*   * *Efficiency on the coordination and organization of the projects* * *Collaboration effective between the partners* * *Mobility of the research between the consortia* * *Does the project meet the transnational nature and its added value?*   The report allows to understand that a good and fruitful collaboration has been put in place in general within the partnership, so that is easy to appreciate the transnational nature of the job and its added values.  Social Science aspects have not been enough covered so far. |

### **Coordination with other international project funded by WaterWorks2017, or other instruments** (*Maximum 250 words)*

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| *Please evaluate the external collaboration of the Consortium,*  *Take into account the following aspects:*   * *Collaboration effective with other projects funded by WaterWorks2017* * *Collaboration effective with other projects or consortia*   No collaboration activity with other WaterWorks2017 projects has been referred nor mentioned in the Report.  Several project partners share the presence in other consortia (a Cost Action or an Italian National Research project) on very similar topics so that they can conveniently save time and resources within the present project |

### **Coverage of the themes and sub-themes of the call** (Maximum *250 words)*

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| *Please evaluate the relation within the project results and the themes and the sub-themes of the call.*  *Theme 1. Enabling sustainable management of water resources.*  *The overall aim for this theme is to develop new governance and knowledge management approaches.*   * *Sub-theme 1.1. Promoting adaptive water management for global change:*   *The aim of sub-theme 1.1 is to increase knowledge and to develop evidence-based methodologies and technologies for monitoring the cumulative impacts of human activities and climate change on the water cycle, but also to develop management options on the water cycle (considering all cycle compartments) and water / ecosystem services. This knowledge must be applicable for the adaptive management of water resources on a regional scale, while enabling downscaling to address local or catchment situations.*   * *Sub-theme 1.2. Integrative management by implementing Natural Water Retention Measures (NWRM) such as Managed Aquifer Recharge (MAR):*   *The aim is to increase the knowledge and develop NWRMs such as MAR in a multidisciplinary way, to protect, prolong, sustain and augment freshwater supplies. Evidence of their effectiveness and on the multiple benefits they deliver should be demonstrated.*   * *Sub-theme 1.3. Mitigating water stress in coastal zones and urbanized areas:*   *The aim is to develop and demonstrate a comprehensive coastal zone management system based on monitoring and modelling to ensure the provision of freshwater security under a range of conditions including saline intrusion, sediment management, storms, floods and droughts, but also specific coastal water uses. Please, refer to H2020 calls on nature-based solutions to propose complementary actions.*  *Theme 2. Strengthening socio-economic approaches to water management.*  *The overall aim of this theme is envisaging education and communication initiatives to raise social awareness of consumption habits and water scarcity and to increase the levels of social acceptance and use of recycled water.*   * *Sub-theme 2.1. Integrating economic and social analyses into decision-making processes:*   *The aim is to increase the knowledge the effectiveness and efficiency of existing economic mechanisms and policy instruments related to water management, with a special emphasis on implementation of water policies (such as the EU Water Framework Directive) and development of a circular and green economy. The approach should aim to break boundaries between services valuation including more flexible pricing and charging mechanisms, management tools and institutions, and the employment of economic and social sciences to develop best practice management guidelines for efficient water uses, including under extreme events such as droughts and floods.*   * *Sub-theme 2.2. The reuse of water:*   *The aim is to develop integrative methods and cost-effective technologies for the implementation of acceptable and sustainable solutions on a large scale for different reuse cycles, spanning from irrigation, via livestock drinking water, to human consumption. Furthermore, goals include assessments of social acceptance for the use of recycled water and the development of integrated approaches combining technological solutions with social-psychological acceptability, economic viability and appropriate governance approaches. Research into the removal of emerging contaminants must consider the cost of the technology vs yield and realistic options for reuse of the recovered water. Please refer to projects funded under previous Water JPI Joint Calls (2013, 2015, 2016 and 2017) to avoid any duplication. See Joint Calls on Water JPI website.*   * *Sub-theme 2.3. Connecting science to society:*   *The aim is to increase understanding of the role of socio-economic approaches to water uses in hydrological cycles. Knowledge building should address stakeholders' and public awareness of water challenges and values, and how perception of policy measures and technological solutions are formed and how stakeholders can be steered towards desirable behaviour. Local and/or regional context (attitude, social norms, cultural context, etc.) should be taken into consideration. The value of improved water stewardship overall should be considered by developing sustainable business models.*   * *Sub-theme 2.4. Promoting new governance and knowledge management approaches:*   *The aim is to develop innovative water management tools and approaches suitable for decision-making based on an analysis of the limitations of current practices. These approaches should involve the broad participation of stakeholders (including public monitoring, communication and education), multidisciplinary research, and short and long-term water cycle scenarios to support decision-making and the integration of water policy into other policy fields. In effect, governance capacities for implementation of water policies at the local and regional levels should be enhanced.*  *Theme 3. Supporting tools for sustainable integrative management of water resources.*  *This theme aims to complement the actions developed under the European Strategy Forum for Research Infrastructures (ESFRI) and other European initiatives. Emphasis should be on establishing networks and information sharing among existing research facilities/field labs, analytical methods, monitoring tools and programmes, access to databases and platforms, exploring the use of big data solutions and establishing reliable hydrological standards. Across the globe, there is a large body of knowledge, methodology and data related to hydrology and the water cycle that has the potential of being beneficial for a wide range of the world's regions. The alignment of water-related research and sharing of data and results will serve to avoid duplication of research, support progress based on previous finding, and thus facilitate the establishment of water management policies addressing rapid climatic changes.*  iAqueduct declares to be addressing Theme 3 - Supporting tools for sustainable integrative management of water resources, as well as Sub-theme 2.3 - Connecting science to society in order to develop approaches to influence stakeholders (in particular citizens) towards desirable behaviour.  The first proposition (about Theme 3) seems reasonable in principle, also if it is rather difficult to understand the immediate applicative convenience of doing a rather complex work (as done so far in the project) to downscale RS data up to a spatial details of 4-5 cm, activity that however has undoubtedly a scientific interest.  The second proposition (about Sub-theme 2.3) is at the moment well difficult to be assessed, since nothing has been done so far towards this goal. |

1. **Stakeholder/industry engagement** (*Maximum 250 words)*

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| *Please evaluate the participation of stakeholder/industry on the project and the added value of this participation.*  Nothing real has been done in this area, reasonably because of the Covid19 pandemic. The report tries to emphasize some contact with an other RPO not member of of the project (Deltares) as stakeholder engagement whereas the contact is actually finalized at obtaining from them some data… |
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### **Recommendations for improvements/amendments of the report** (Please complete Table below)

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| **Page** | **Modification** | **Rationale for change** |
| All | Shorten not useful repetitions |  |
| 22 and following | Delete not real publications |  |
| All | Clarify the part of the job that has been actually done within the funded project |  |
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1. **Recommendations/ problems and risks** (Maximum *250 words)*

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| *Please include problems identified or specific risks to the projects, deviations in relation to the planned work or budget, as well specific recommendations/feedback with could be relevant to the Consortium.*  The consortium should devote the expected due attention to the achievement of the science-to-policy objectives, not really handled so far |

**MID-TERM EVALUATION CONSENSUS REPORT**

**This Consensus Report will be made available to the Consortium as well as CSC and JPI Water GB.**

**PROJECT TITLE AND ACRONYM**

Name of Coordinator:

Project code: WaterWorks2017-CONSORTIUM ACRONYM

Duration of project:

Start date: End date:

**FOLLOW-UP GROUP**

Please include the data of the FG members reviewing the report

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| Name | Organisation |
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### **Coordination with other international project funded by WaterWorks2017, or other instruments** (Maximum 250 *words)*

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| *Please evaluate the external collaboration of the Consortium*  *Take into account the following aspects:*   * *Collaboration effective with other projects funded under the 2018 Joint Call:* * *Collaboration effective with other projects or consortia.* |

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| *Please evaluate the participation of stakeholders/industry on the project and the added value of this participation.* |

### **Recommendations for improvements/amendments of the report** (Please complete Table below)

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1. **General Assessment Comments** (*Maximum 250 words)*

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| *Please include a summary of the key points of this evaluation.*  *Problems identified or specific risks to the projects. As well recommendations/feedback, which could be relevant to the Consortium.* |