

**WATERWORKS 2017 RDI FUNDED PROJECTS BOOKLET**

**Title of the project:** Mind the Water Cycle Gap: Innovating Water Management Optimisation Practice

**Acronym and LOGO:** IN-WOP

**Outcomes and expected impact:**

**Scientific**

- Empirical assessment whether theoretical potential of MOEAs can be realized in practice

**Innovation**

- Mainstreaming many objective optimization in IWRM
- Case specific extensions of existing models to enable many-objective optimization

**Society**

- Identification of case specific innovative solutions
- Improved alignment of expected consequences of solutions with interests and preferences of the various stakeholders,
- Responsible water management innovations / value sensitive design

**List of deliverables expected:**

Case study site report (one per case study)

Cross case comparison on efficacy of many objective versus multi-objective optimization

*(add more lines if needed)*

**Contact person(s) for Communication activities** (name and e-mail)

Jan Kwakkel (j.h.kwakkel@tudelft.nl)

**Contact person(s) for Dissemination activities** ( (for open data & open access activities, name and e-mail)

Jan Kwakkel (j.h.kwakkel@tudelft.nl)

**Expected research results to communicate and disseminate** (in very general terms)

1. Case specific applications of many-objective optimization

**Target groups for communication and dissemination activities:**

Case specific stakeholders

2. Framework for ethically informed many-objective optimization in water resources management	scientists
3. cross case comparison	scientists
4.	
<i>(add more lines if needed)</i>	
Experiments / Case studies (if any): location, type of experiments:	
Water Policy context / project contribution to policies (National, European, International – UN SDGs):	