

# iWIDGET

Smart meters; smart water; smart societies.

UNIVERSITY OF  
**EXETER**  
Centre for Water Systems



## Improved Water efficiency through ICT technologies for integrated supply-Demand side manaGEmenT



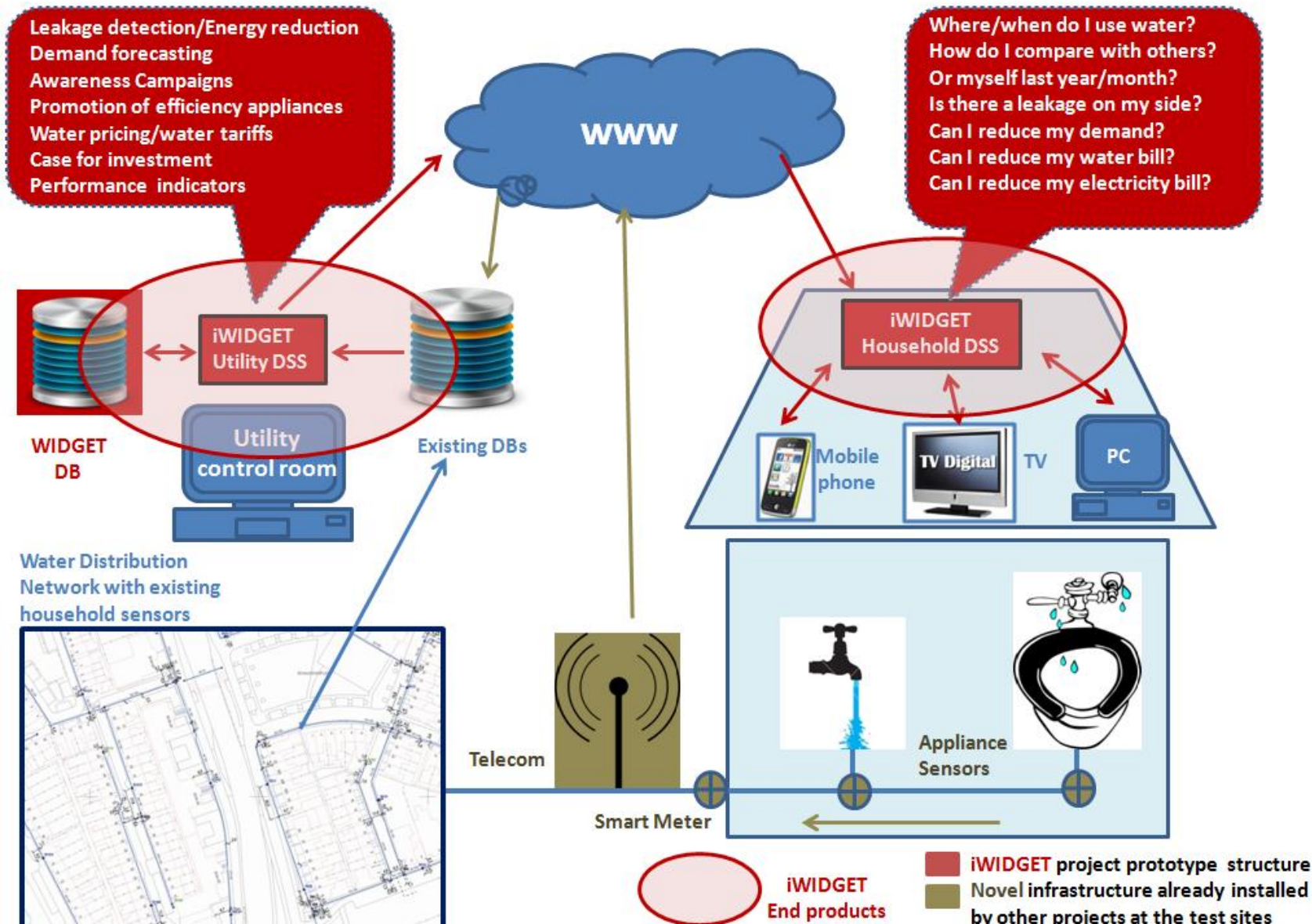
22 April 2013

Prof. Dragan Savić, University of Exeter, UK

- Collaborative, three year FP7 project (2012-2015)
  - Started Nov 2012.
- The **aim** of iWIDGET is to advance knowledge and understanding about **smart metering** technologies
- in order to develop novel, robust, practical and cost-effective **methodologies and tools** to manage urban water demand in households across Europe
  - by reducing **wastage**
  - by improving **utility understanding of end-user demand**,
  - and by **reducing customer water and energy costs**.

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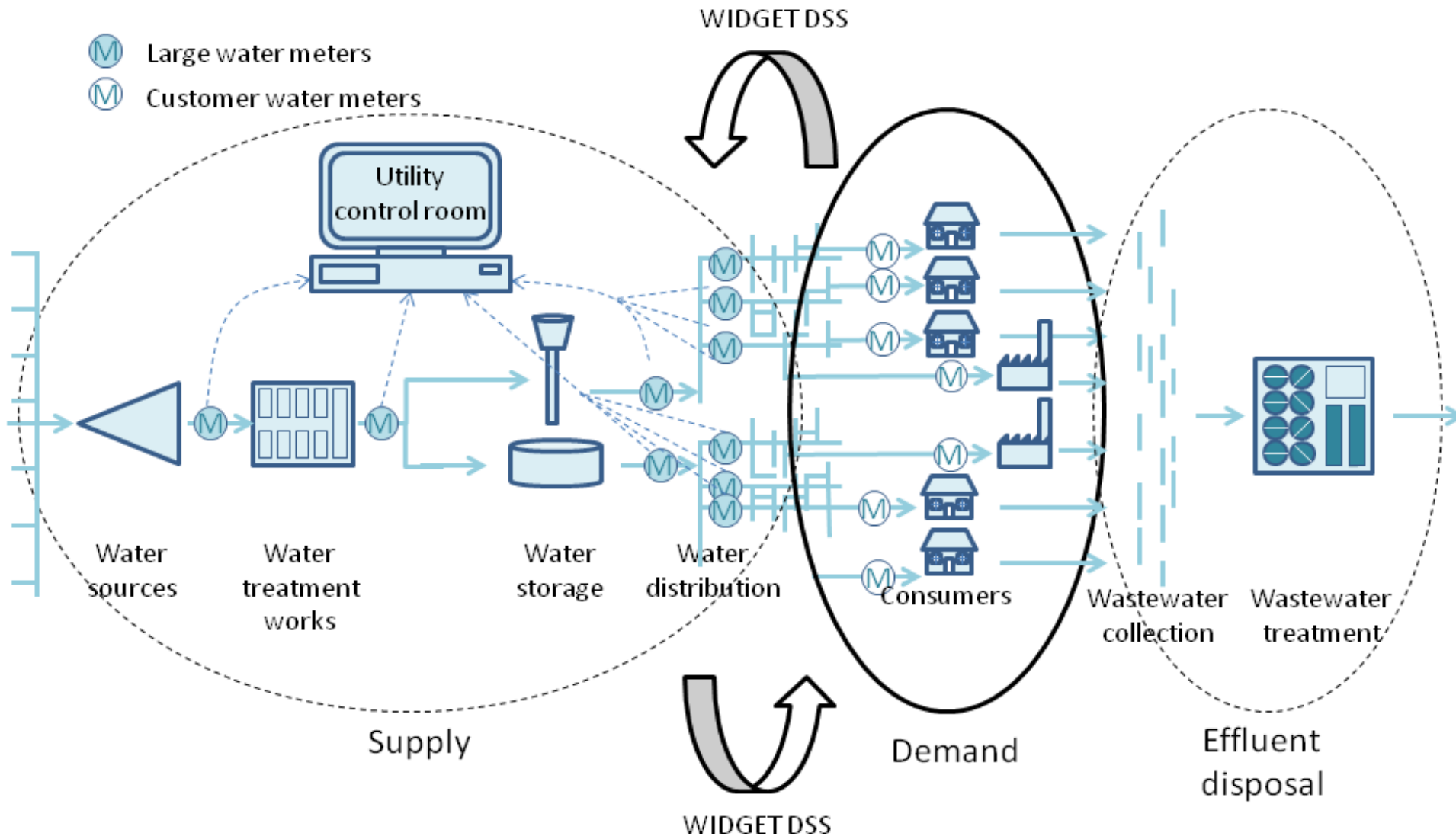


The main scientific challenges for iWIDGET are:

- **management** and extraction of useful information from vast amounts of high-resolution **consumption data**,
- development of customised **intervention and awareness** campaigns to influence behavioural change,
- the integration of iWIDGET concepts into a set of **decision-support** tools for **water utilities and consumers**, applicable in differing local conditions.

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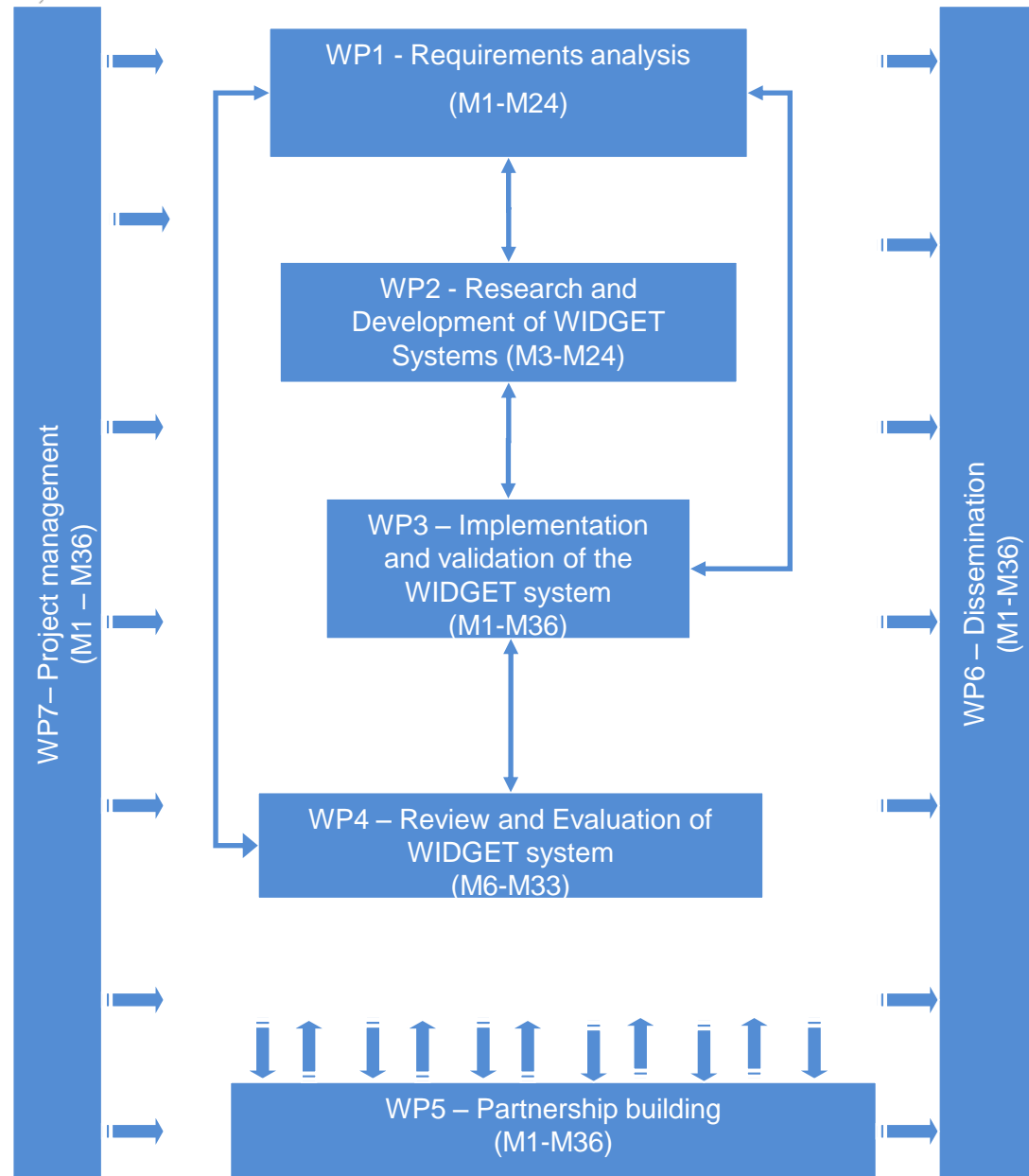
iWIDGET will investigate:

1. How best to provide the dynamic accurate **measurement and data transfer of useful information** about end-user water consumption
2. How best to use **consumption data** to improve the operation of utilities and influence end-users to modify their behaviour
3. How to arrive at the best **business model** to convert a promising technology into a useful and cost-effective product
4. How to demonstrate and validate the new methodologies on two **case studies** in Portugal and the UK

	Partners	Country
1	University of Exeter (Coordinator)	UK
2	HR Wallingford	UK
3	IBM	Ireland
4	Laboratório Nacional de Engenharia Civil	Portugal
5	National Technical University of Athens	Greece
6	SAP AG	Germany/Switzerland
7	Utility Partnership Limited	UK
8	AGS/Águas de Barcelos	Portugal
9	Waterwise/Southern water	UK

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WP Number <sup>53</sup>	WP Title	Type of activity <sup>54</sup>	Lead beneficiary number <sup>55</sup>	Person-months <sup>56</sup>	Start month <sup>57</sup>	End month <sup>58</sup>
WP 1	Requirements analysis	RTD	6	36.50	1	24
WP 2	Research and Development of iWIDGET Systems	RTD	3	107.00	1	24
WP 3	Implementation and validation of the iWIDGET systems	RTD	1	99.00	1	36
WP 4	Review and evaluation of the iWIDGET systems	RTD	4	75.00	12	33
WP 5	Exploitation Planning, and Partnership Building	RTD	7	39.00	1	36
WP 6	Dissemination	MGT	2	25.00	1	36
WP 7	Project Management	MGT	1	22.00	1	36
				Total	403.50	

### iWIDGET (FP7) structured along future trends compatible with H2020:

- Interdisciplinary approach – Working as a team
  - ICT experts (IBM, SAP)
  - Water engineers (UNEXE, NTUA, LNEC)
  - Business experts (SAP, UPL)
  - Psychologists/Social scientists (UNEXE, LNEC, Waterwise)
  - Dissemination/standards experts (HRW)
- Commercial /business aspects
  - Actively integrating water companies within the project
  - Building partnerships during the duration of the project, not after the end
  - Developing business model as part of R&D
  - Acting as pilot project with wider European significance

### iWIDGET (FP7) structured along future trends compatible with H2020:

- Links with the public
  - Consultation with consumers
  - Awareness campaign as a target
  - Public acceptance, public opinion integral part of iWIDGET
  - White papers on smart metering planned for dissemination
  - E-learning training of end-users included

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**Thank you for your attention!**



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