CITIES OF THE FUTURE
BRUSSELS 2017

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School of Computer Science and Technology

School comprises of various disciplines in Computing, Engineering and robotics and multidisciplinary research is the main strength. Research in school comes under the Institute of Applicable Computing (IRAC), where the Centre for Sensing, Signals and Wireless Technology (SSWT) has extensive experience in sensors design and data analysis; and the Centre for Visualisation and Data Analytics (CVDA) that, with extensive funding from EU/ H2020, has developed innovative technologies for visual data exploration targeting Big Data

Some of the relevant areas of research are

- Data visualisation
- sensor design
- environmental monitoring
- Image and signal processing

Some research projects:

- 2017 –2020 Interreg project River – A method to reduce environmental pollution along water channels - >3M Euros
- 2014-2016 ***MyLifeHub*** – An interoperability hub for aggregating lifelogging data from heterogeneous sensors and its applications in ophthalmic care – EPSRC – £310k
- 2017- **A research workshop in China on developing a preliminary road map on best practices on data-driven and sustainable agri-food supply chains** – Agri-Tech in China: Newton Network+ Pathfinder – £4,000
- 2012-2015 **Feasibility Study for A Nanoantenna Array Enhanced Fluorescence Sensor For Water Monitoring** – ABB research grant – $74k – In collaboration with University of Bristol

Description of the your research interest

- Research team is focusses on water engineering to develop sustainable solution for water management.
- The team has varied capabilities that include data visualisation and sensing. Advanced data analysis techniques are employed to make texture synthesis, image-based rendering and figure animation.
- The team specialises in developing visualisation solutions to real-world problems. For example- giving relevance to data from in-stu sensors.

- Objectives:
  - To achieve a complete digital solution for water management in cities
  - To develop water usage maps of cities using data from the network of smart meters and water sensors
  - To develop a complete infrastructure of smart meters and sensors that will monitor and manage the water resources
  - to develop a unique digital solution for the end-user, allowing him to be able to visualise the use of water resources in the city
- Expected results
  - Intelligent systems for managing the water resources in cities including water contamination
  - Development of novel sensors for monitoring

Consortium - profile of known partners *(if any)*

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No	Partner Name	Type	Country	Role in the Project
01	CIIMAR	RTD	Portugal	Water Toxicology
02	**Chelsea Tech**	SME	**UK**	**Developing Innovative Sensors**
03	Thames Water	IND	UK	Proving Infrastructure
04				
05				
06				
07				
08				

Consortium - required partners

No	Expertise	Type	Country	Role in the project
01		RTD		
02	Water Sector	SME		
03	Water Sector	IND		
04				
05				
06				
07				
08				

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Recommendations

- The presentation **has to** last up to **4 minutes (maximum)**
- Do not overload your slides
- Provide weblinks to additional material
- Slides should be in English
- Do not use videos etc. – they might be not supported by the Infoday IT system
- Send your presentations in PDF format to: CoF@turkeyinh2020.eu until 23 September 2016.