PROJECT CONSORTIUM

PTB – Physikalisch-Technische Bundesanstalt Braunschweig und Berlin

BEV – Bundesamt für Eich- und Vermessungswesen

CMI – Czech Metrology Institute

DANISH TECHNOLOGICAL INSTITUTE

nel flow measurement services

RISE

TÜBİTAK UME

VTT MIKES METROLOGY

DVGW TZW Technologiezentrum Wasser

FORCE TECHNOLOGY

University of Salerno Department of Industrial Engineering

CETIAT ensemble, innover et valider

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www.ptb.de/empir2018/metrowamet

EMPIR EURAMET
The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States

Metrology for Real-World Domestic Water Metering

MetroWaMet

The Project

MetroWaMet aims at creating a metrological infrastructure which will enable an integral characterization of domestic water meters close to real-world operation conditions.

The need for this results from changes in the consumption behaviour of consumers as well as from progress in the state-of-the-art of domestic water metering. The measurement trueness under these changed conditions is not verified yet. Currently this cannot be done in an appropriate way as the metrological infrastructure necessary for this is missing.

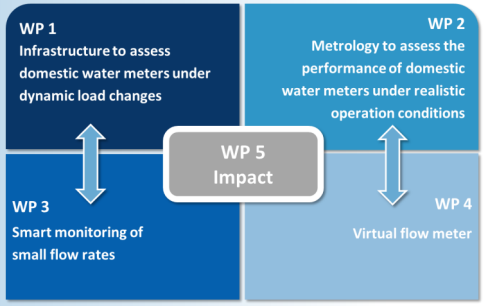
At the end of the project new capabilities will be available which allow to assess and calibrate domestic water meters under dynamic flow conditions. A metrological framework will be established to address water meter performance for different water qualities and for the withdrawal of low amounts of water.

The project provides input to a number of national and international committees dealing with water metering.

Project duration: June 2018 - May 2021

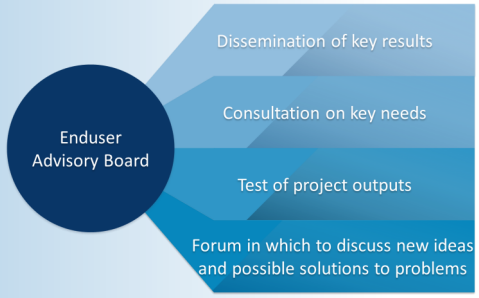
Project Structure

The project is split into four technical work packages, one dedicated to impact and another one to project management. WPs 1 and 3 are linked with each other. The results of WP 2 will feed into WP4 in which a data bank and a web interface will be set up which will enable to estimate effects of water quality on domestic water meter performance.



End-user Advisory Board

An end-user advisory board supports the consortium for keeping the project aligned with industry's needs and acts as multiplier for informing end-users about project findings as they emerge. The board consists of representatives of various interested parties across Europe.



Workshops

A key element of dissemination activities within the project comprises workshops dedicated to different topics. The following events are planned:

- Workshop on dynamic measurements methods, CETIAT, November 2019
- Workshop on integral characterization of domestic water meters, PTB, May 2020
- National workshops around mid-term and towards the end of the project
- Workshops together with the enduser advisory board as part of the project meetings

Further details will be announced on the project's web site:

www.ptb.de/empir2018/metrowamet