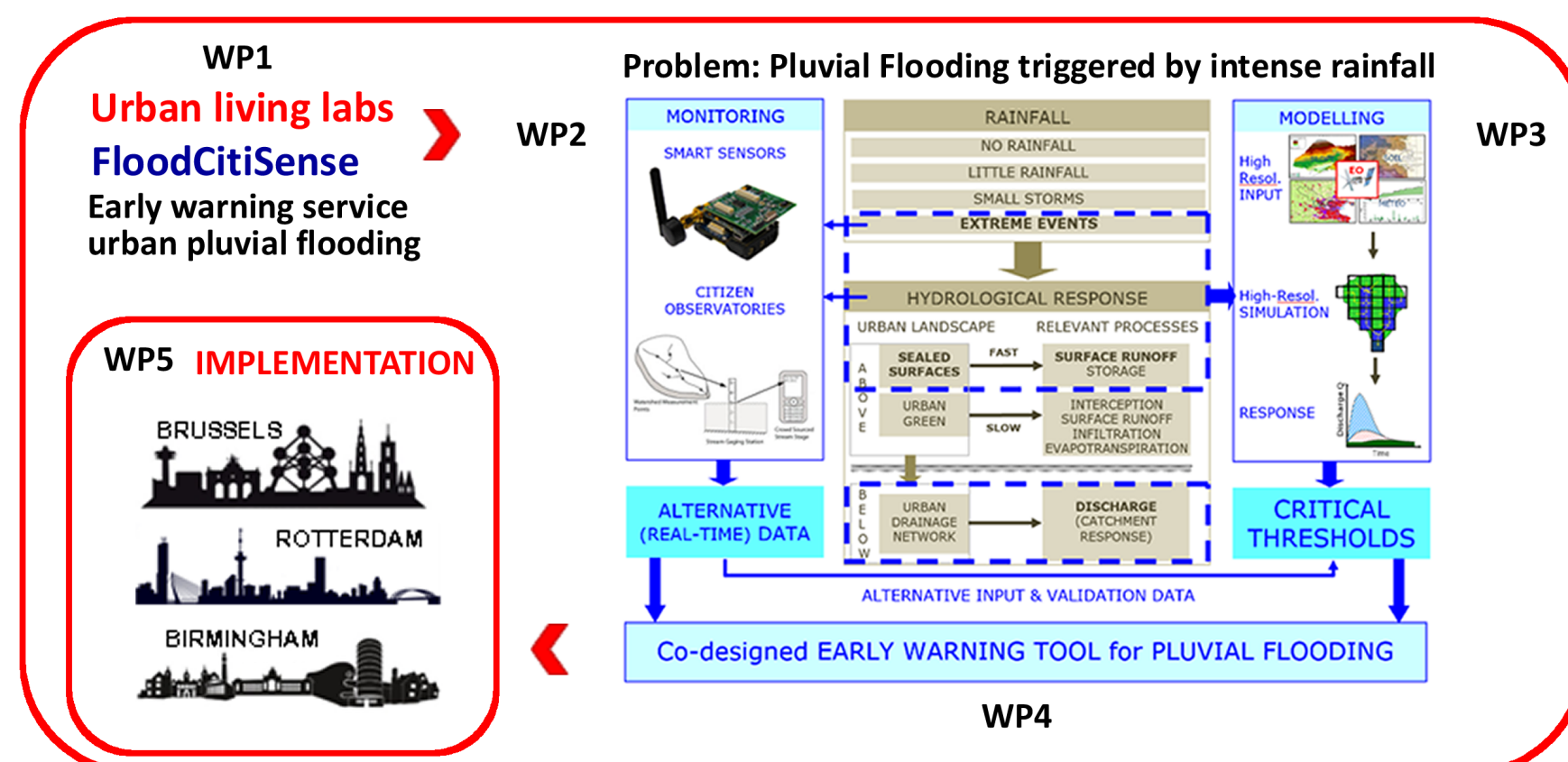


FloodCitiSense

FloodCitiSense aims at developing an urban pluvial flood early warning service for, but also by citizens and city authorities. This service will reduce the vulnerability of urban areas and citizens to pluvial floods, which occur when heavy rainfall exceeds the capacity of the urban drainage system.

Due to their fast onset and localized nature, pluvial floods cause significant damage to the urban environment and are challenging to manage. Citizens will be actively involved in the monitoring of rainfall and pluvial flooding, making use of low-cost sensors and web-based technologies. The early warning service will enable 'citizens and cities' to be better prepared and to better respond to urban pluvial floods.



Aim/objective

The FloodCitiSense project aims at integrating crowdsourced hydrological data, collaboratively monitored by local stakeholders, including citizens, making use of low-cost sensors and web-based technologies, into a flood early warning system.

Approaches/methods

A co-creation of this innovative public service in an urban living lab context with all local actors is targeted, building upon the state-of-the-art knowledge, methodologies and smart technologies provided by research units and private companies.

Expected results and impacts

- Operational crowdsourced data collection 'FloodCitiSense' platforms in pilot cities
- Urban pluvial flood early warning systems co-created in living labs
- Summary of lessons learnt of the crowdsourcing and co-creation of flood early warning service

Involved cities

- Brussels
- Rotterdam
- Birmingham

FloodCitiSense

– Early warning service for urban pluvial floods for and by citizens and city authorities

Duration: 2017–2020

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About JPI Urban Europe

JPI Urban Europe is a transnational research and innovation programme on urban transition. With the ambition to develop and validate new solutions for sustainable and liveable cities, a cooperation platform and programme is provided to connect urban stakeholders, researchers, cities, business and society

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