NTNU | Norwegian University of Science and Technology

B-WaterSmart

Living lab Bodø

B-WaterSmart

Accelerating Water Smartness in Coastal Europe and beyond

Horizon 2020 project
Call: H2020-SC5-2018-2019-2020
Greening the economy in line with the Sustainable Development Goals (SDGs)

B-WaterSmart accelerates the transformation to water-smart economies and societies in coastal Europe and beyond

The project is:

- Grounded on **6 coastal European cities and regions** as 6 interconnected **Living Labs (LLs)**
- Supported by Communities of Practice (**CoPs**) and **a European Innovation Alliance** (INALL)
- Promoted by the Aqua Research Collaboration **ARC** – A Network of European Water Research Institutes

Duration: **Sep 2020 – Aug 2024**
Total Budget: **17.3 M€**
Total EC contribution: **15.0 M€**

B-WaterSmart LIVING LABS

B-WaterSmart

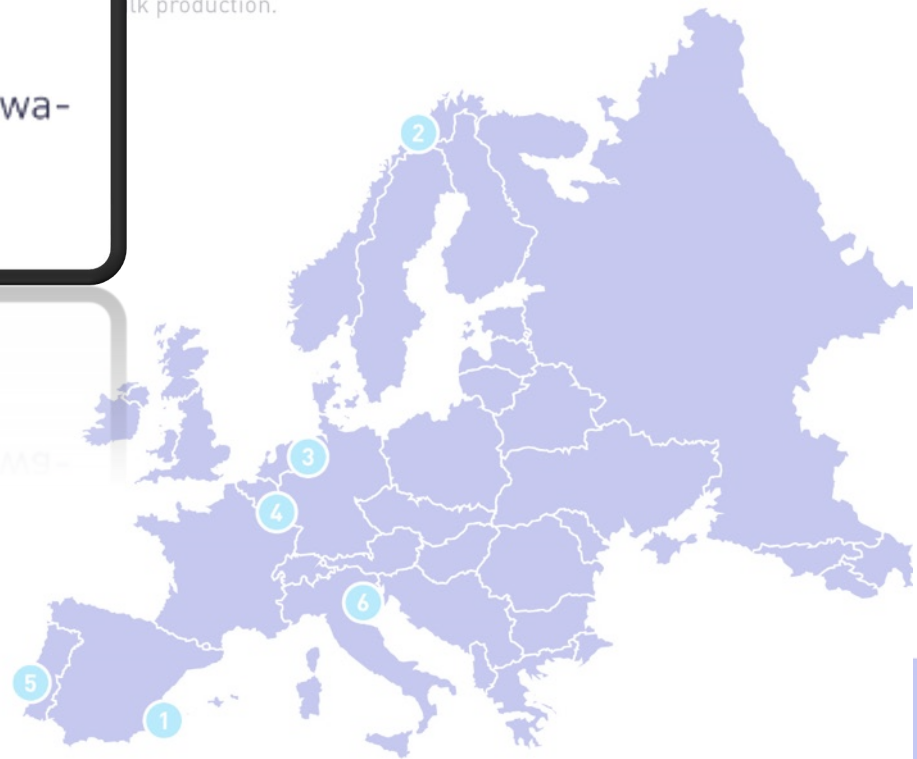
2 Bodø

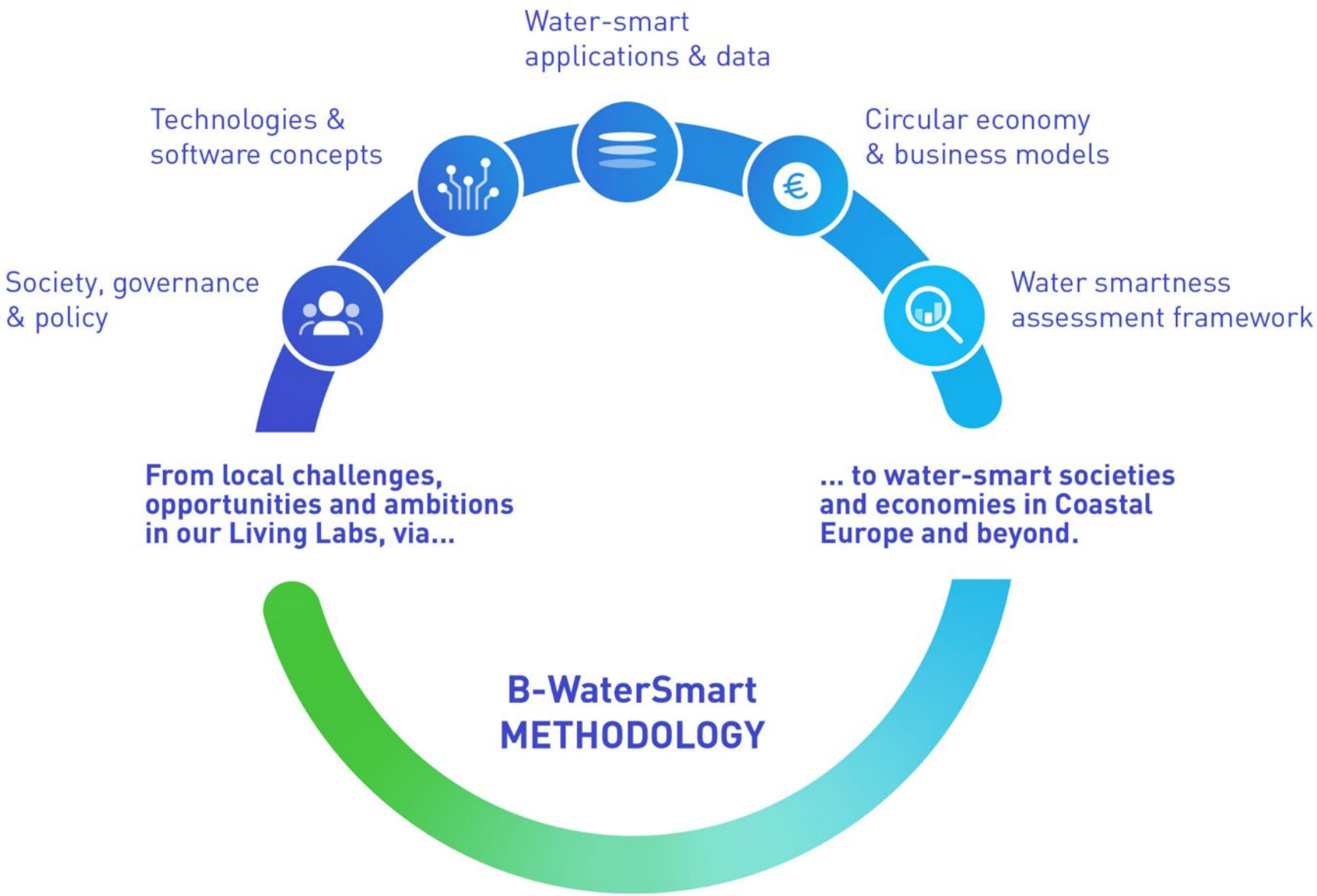
Challenges

Growing resident population and economy, increased pollution, untapped efficiency potential.

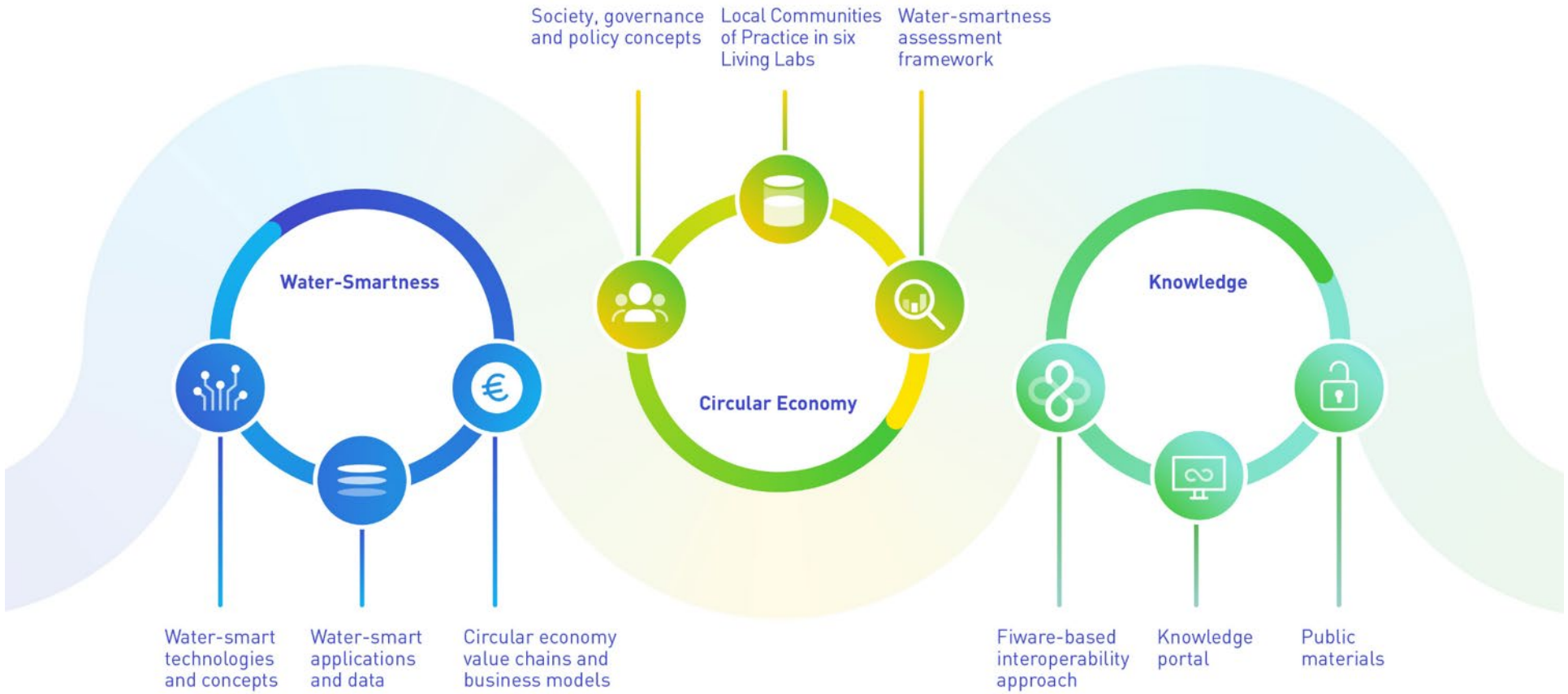
Innovation & Demonstration

Zero emission urban development, improved management of the wastewater stream, improved air quality.




Water-smart
applications & data
Technologies &
software concepts
Circular economy
& business models
Society, governance
& policy
Water smartness
assessment framework
From local challenges,
opportunities and ambitions
in our Living Labs, via...
... to water-smart societies
and economies in Coastal
Europe and beyond.
B-WaterSmart
METHODOLOGY

B-WaterSmart MAIN RESULTS



B-WaterSmart project partners

Forskningsmålene i B-Watersmart (NTNU)

Concepts for water-smartness & their technological indicators

- Leakage detection and localization in Water Distribution Networks (WDNs)
- Infiltration in Wastewater Collection System
- Smarter stormwater management

Partners:

Living Lab: Bodø Kommune

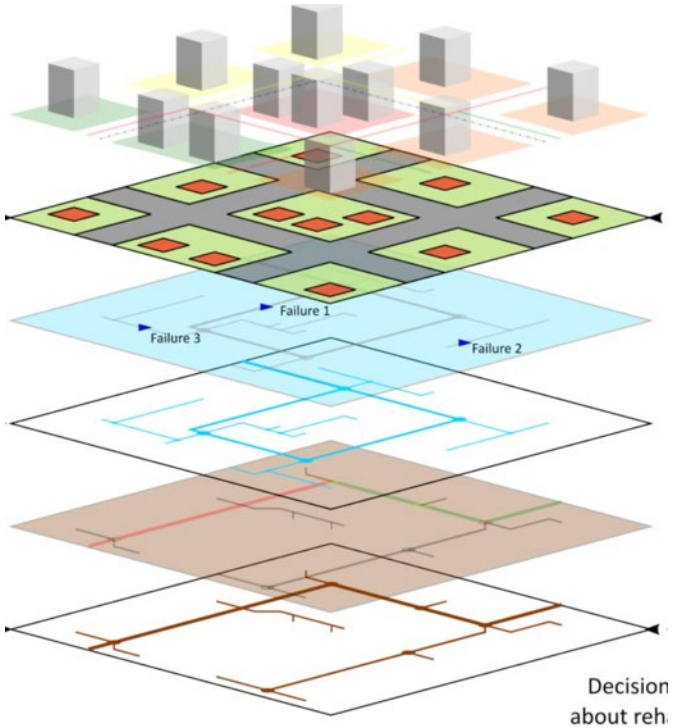
Industry Partners:

1. Nordkontakt – Data collection and Analysis (IT & Communication)
2. TECHNI – Leakage & infiltration detection sensors (IIoT – LPWAN / nb-IoT)

Research Partner: SINTEF (Water-smartness assessment framework)

First steps

- Model building phase



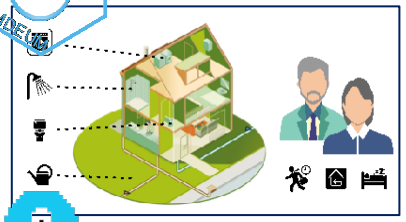
Customers

Water Distribution System (WDS)

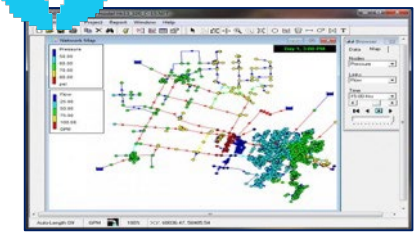
Wastewater Network (WWN)

Python

SIMDEUM



EPANET



SWMM5

Digital Twin

Hva kan forskningen brukes til

- Data input til digital tvilling (internbruk) - CityLoops
- Data input til Dashbaordet i B-Watersmart
- Bydrift - lekkasjesøk