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Vlakwa

Met steun van

AGENTSCHAP
INNOVEREN &
ONDERNEMEN



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MILIEUMAATSCHAPPIJ



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is milieu

IMEC'S MISSION

- Imec is the world-leading R&D and innovation hub in nanoelectronics and digital technology.
- As a trusted partner for companies, start-ups and academia we bring together brilliant minds from all over the world in a creative and stimulating environment.
- By leveraging our world-class infrastructure and local and global ecosystem of diverse expert partners across a multitude of industries, we accelerate progress towards a connected, sustainable future



at imec, we shape the future





KORTRIJK
SMART EDUCATION

ANTWERP
CITY OF THINGS

Universiteit
Antwerpen

UNIVERSITEIT
GENT

GHENT
SMART APPLICATIONS

VUB
VRIJE
UNIVERSITEIT
BRUSSEL

BRUSSELS
EU HUB

LEUVEN
HEADQUARTERS

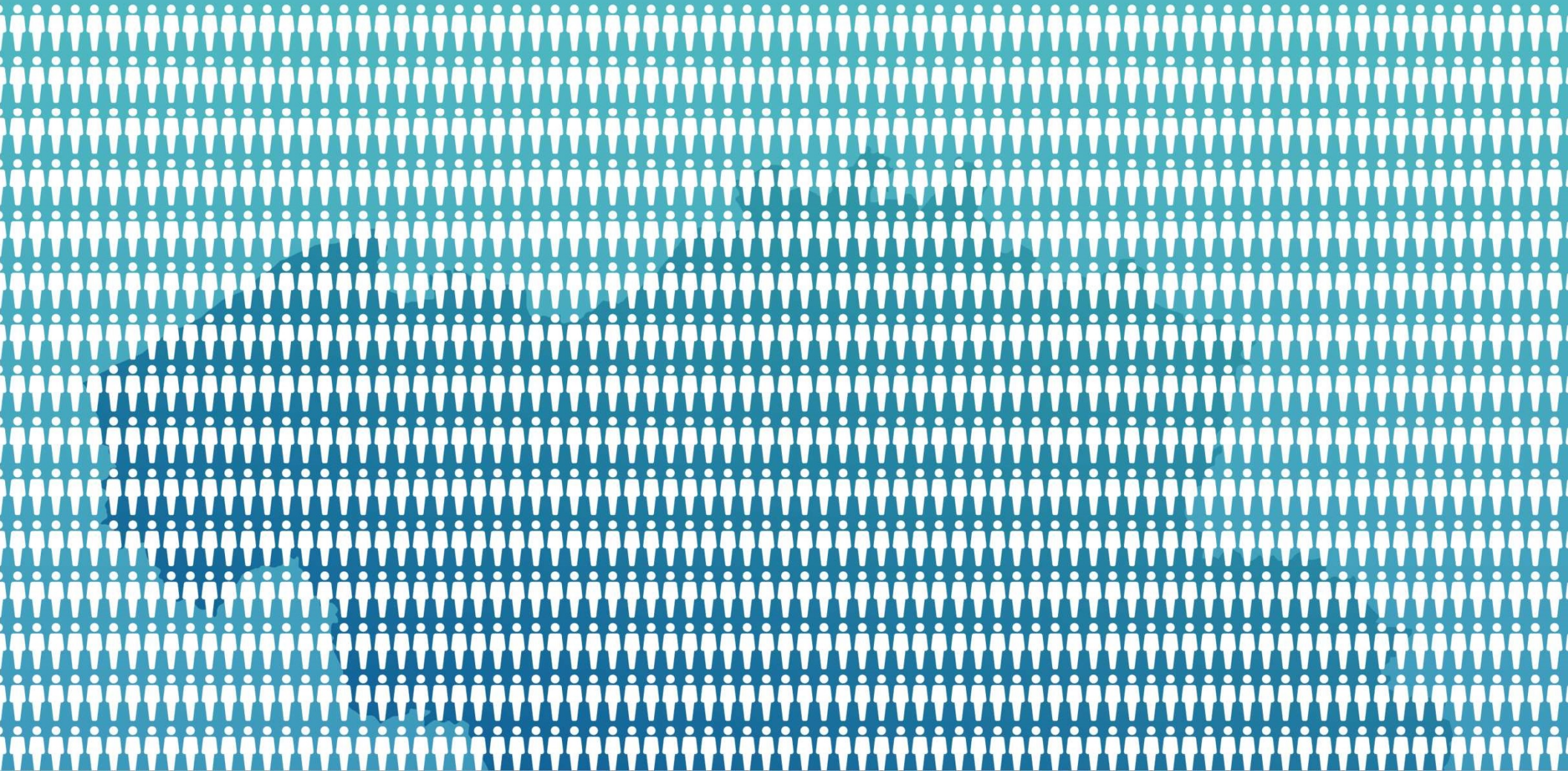
UHASSELT

KU LEUVEN

GENK
ENERGYVILLE



~4,500 RESEARCHERS





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De Watergroep
WATER. VANDAAG EN MORGE.



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BREAKING NEWS



Toxic tap water-Flint's Lead
Poisoning Disaster

January 2016

Never mind Cape Town -
water shortages affect
cities across India

March 29, 2018



Droogte in België en
Frankrijk

Vrijdag 16 juni 2017

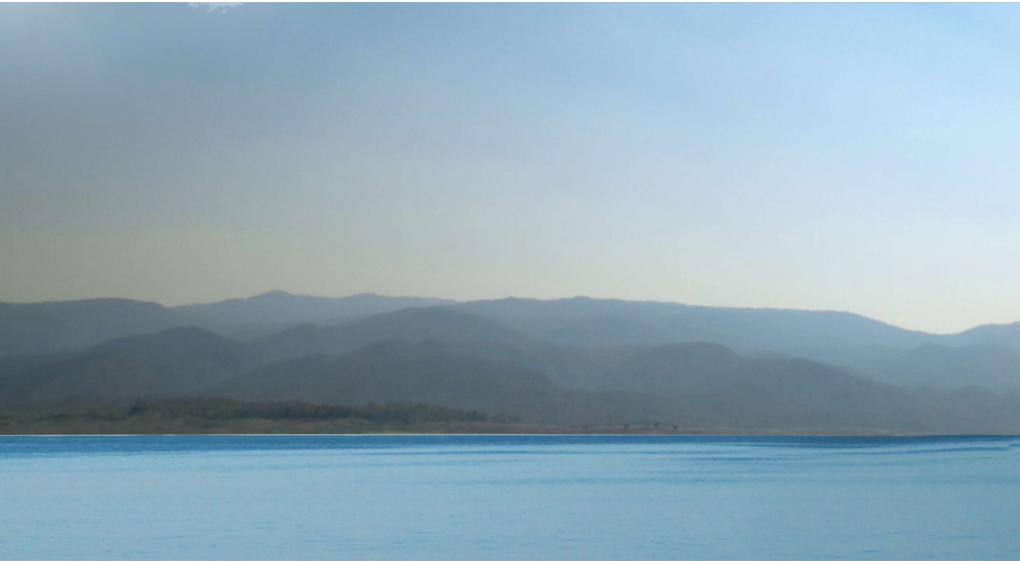
19 cities in world rely on
precipitation for water
supply, says study

March 14, 2018

Cape Town faces Day
Zero: what happens when
the city turns off the
taps?

February 3, 2018



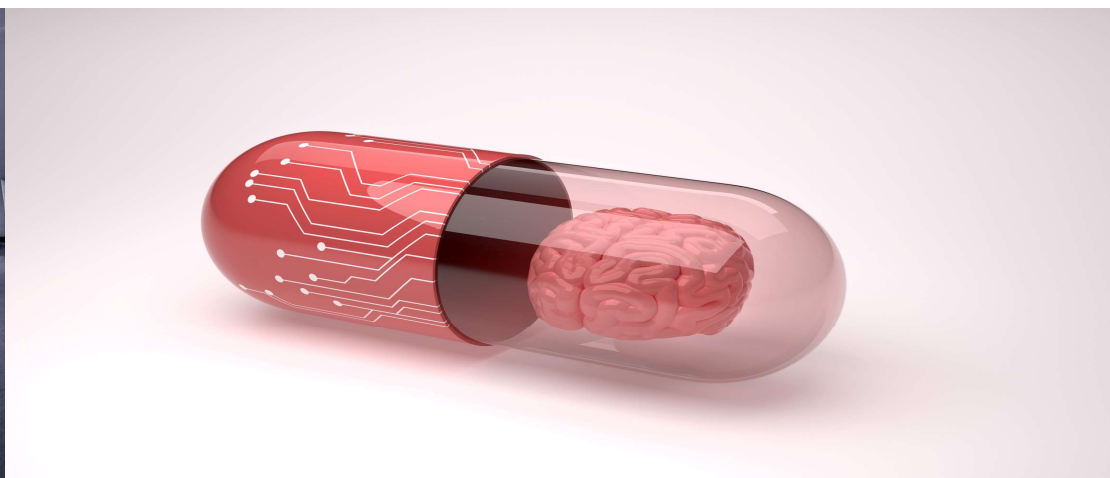


Climate change will affect all businesses that are dependent on water!





URGENT NEED FOR QUALITY DATA ENABLED BY LARGE-SCALE LIQUID SENSOR NETWORKS



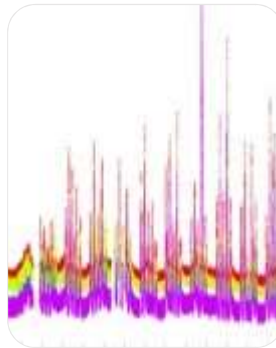
Full stack approach



Cost
effective
liquid
sensors



Sensor
network
&
Calibration



Cloud
Storage
&
Monitoring

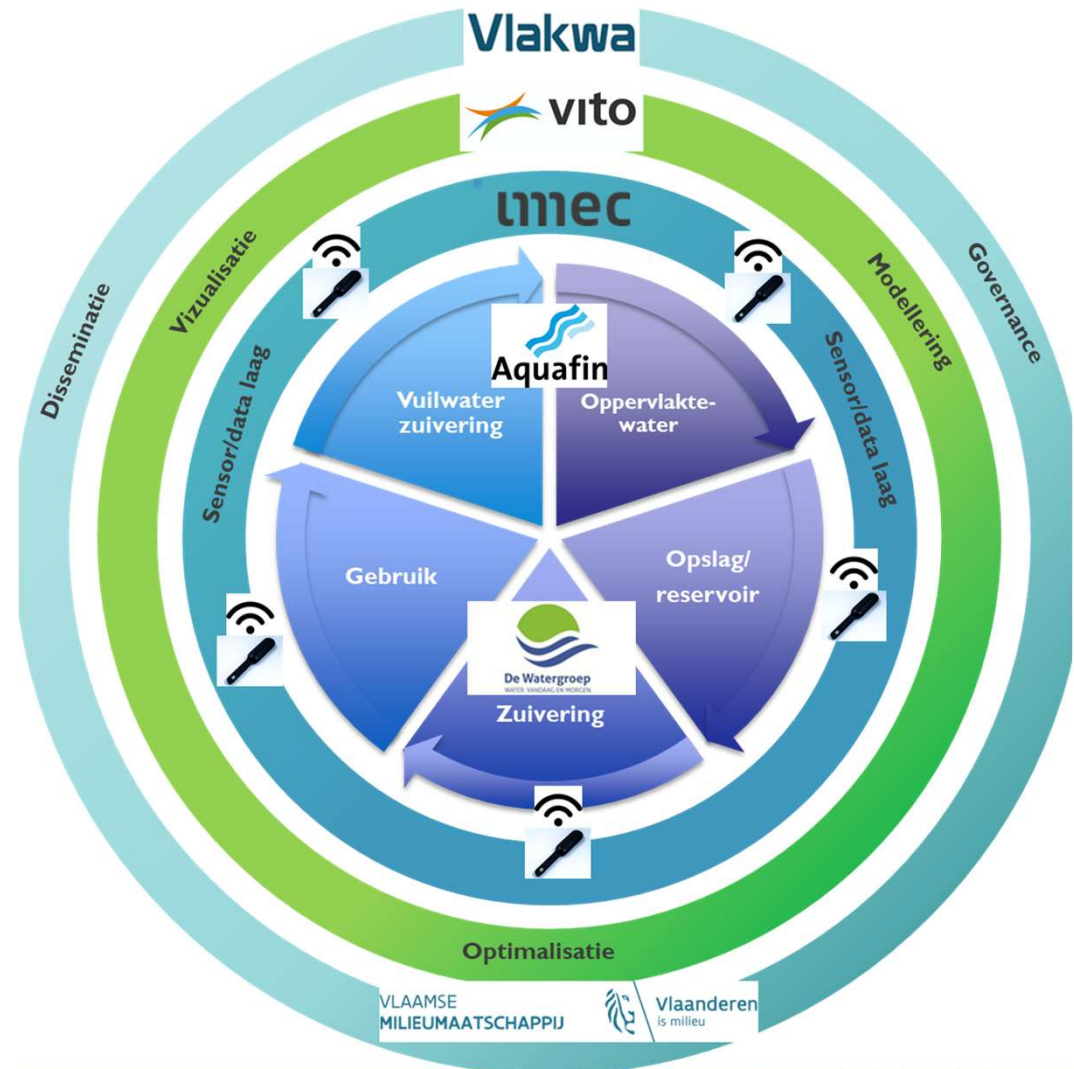


Visualization
&
Analytics



Easy access
&
applications

Consortium

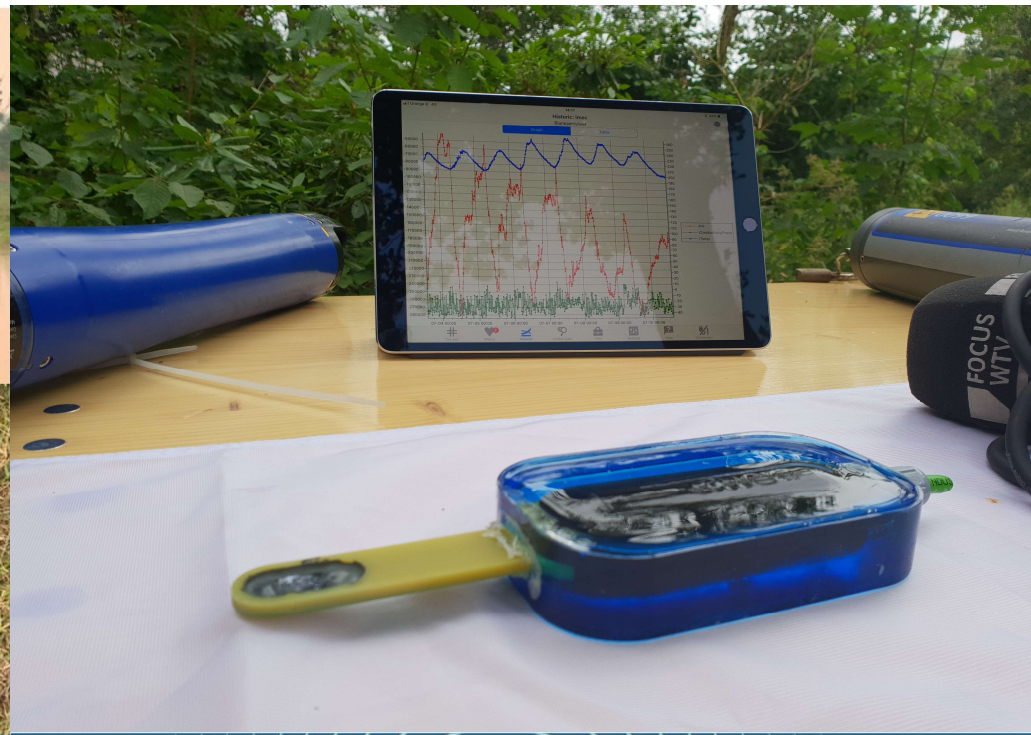


Pilot Internet of Water

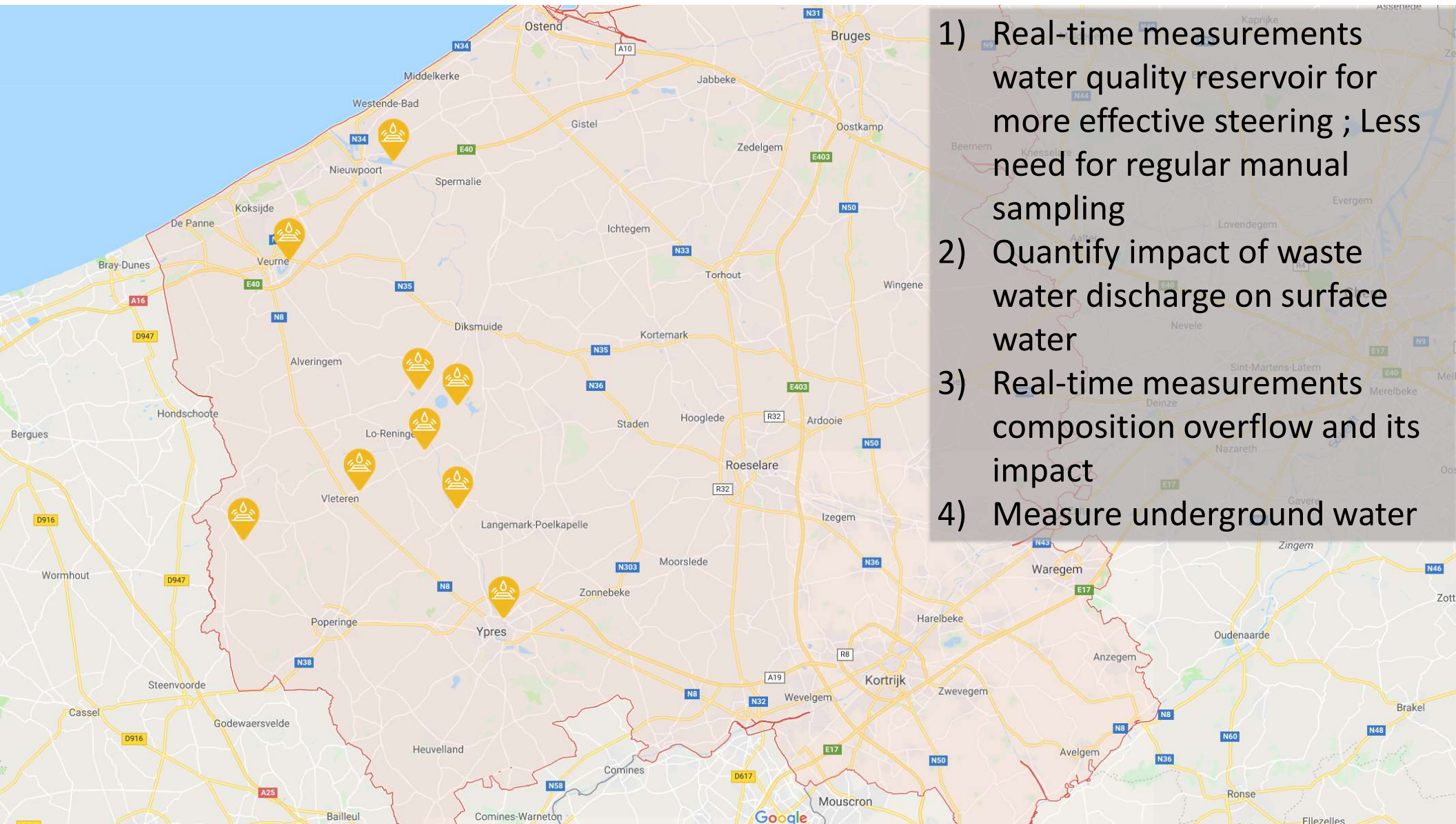
Blankaart reservoir & ijzer West-Vlaanderen



Pilot Internet of Water



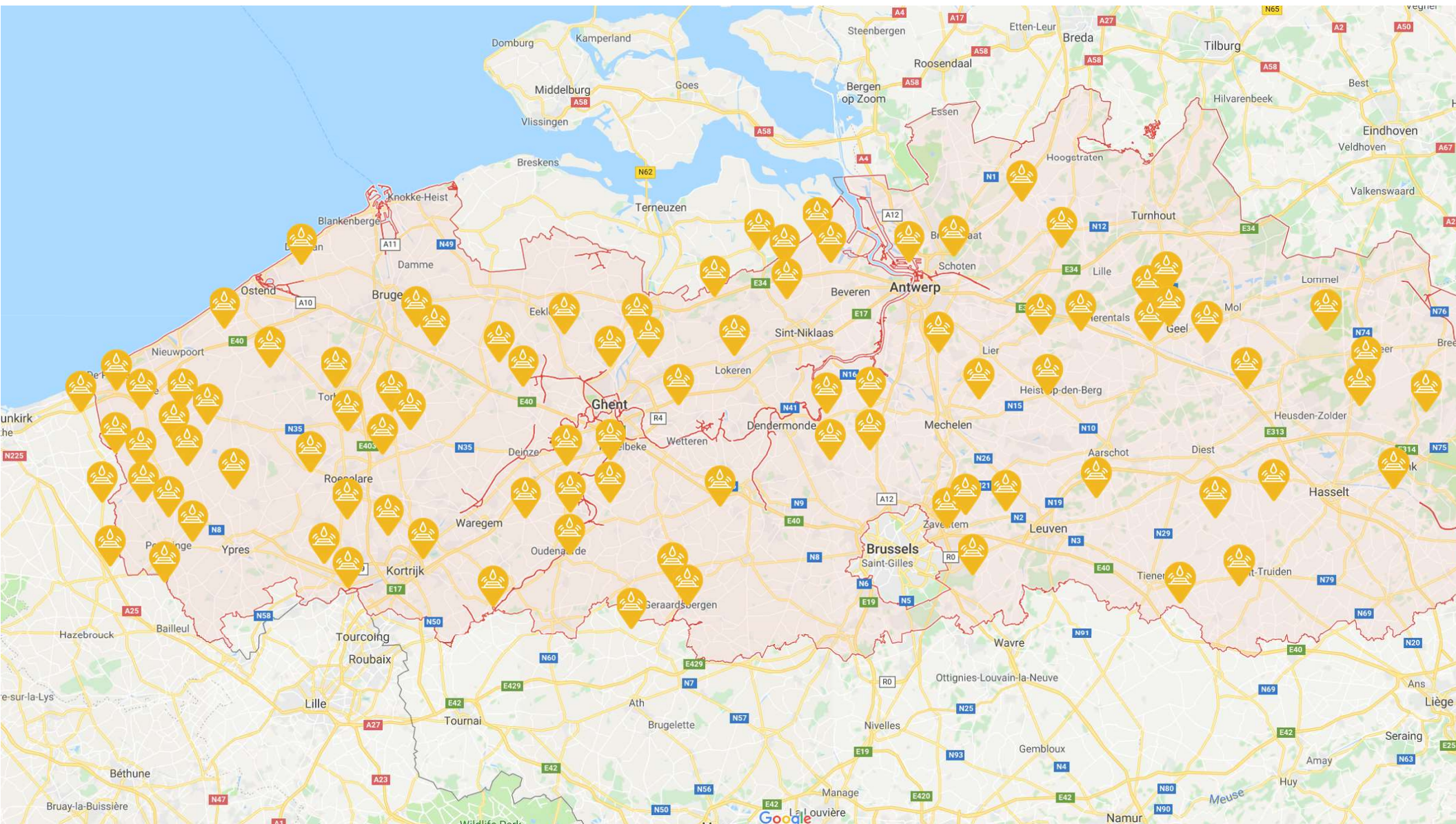


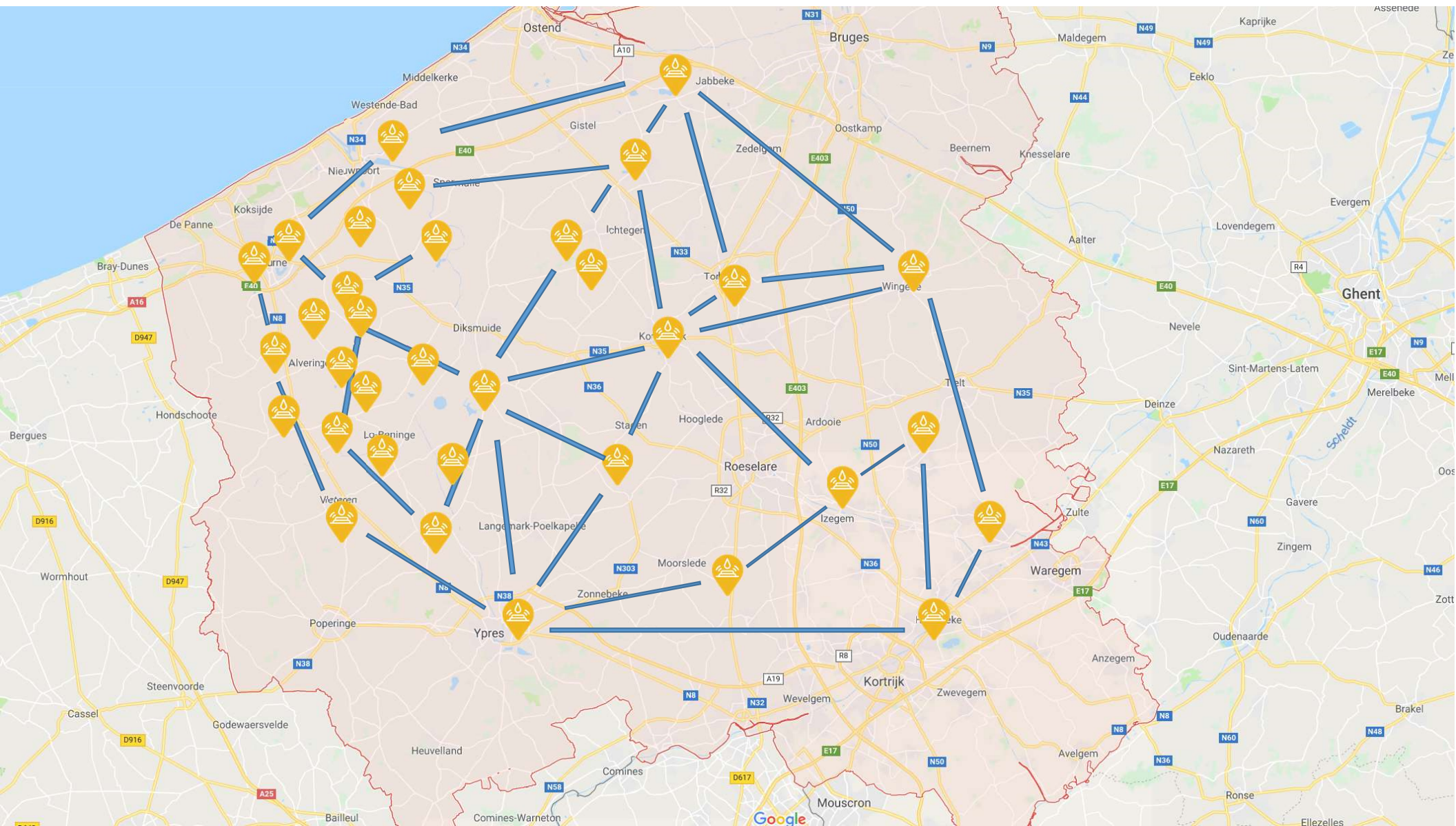


- 1) Real-time measurements water quality reservoir for more effective steering ; Less need for regular manual sampling
- 2) Quantify impact of waste water discharge on surface water
- 3) Real-time measurements composition overflow and its impact
- 4) Measure underground water













MOVING TOWARDS SMART WATERMANAGEMENT AND A ROBUST WATERSYSTEM IN 2050

VITO, Vlakwa, imec, Aquafin, De Watergroep and the Flemish Environment society (VMM) are joining forces to develop an operational **fine-grained measurement** and **forecasting system** within a period of 4 years that continuously monitors a number of quality aspects of above-ground and underground water resources. The information this network provides can serve as **support in explaining future water policy.**



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