



How internet of things solves real problems

Co-conveners: Ericsson & City of Stockholm

Sunday 26 August | 16.00-16.45 | Room: NL 253

Agenda



- 4.00 Welcome and intro Mats Pellbäck Scharp, Head of Sustainability Unit Ericsson & Gunnar Söderholm, Director Environment and Health Administration, City of Stockholm
Moderator, Matilda Gennvi Gustafsson, IoT Sustainability Director, Ericsson
www.Menti.com
- 4.05 Connected Environmental Monitoring @Ericsson
Ruchi Verma, Portfolio Manager, Ericsson
- 4.15 iWater project in Digital Demo Stockholm
Gunnar Söderholm, Director Environment and Health Administration, City of Stockholm
- 4.25 Ericsson Weather Data: NowCasting Rainfall
Jonas Hansryd, Head of microwave and millimeter-wave hardware research , Ericsson
- 4.35 Addressing water issues in Californias prominent winegrowing regions
Cora Kammeyer, Research Associate, Pacific Institute

An aerial photograph of a lush green mangrove forest. A long, narrow wooden walkway or pier extends from the bottom center towards the top right, ending at a small thatched-roof structure. A white boat with a blue canopy is docked at the end of the walkway. The surrounding water is a deep blue, and the sky is bright with some clouds.

Connected Environmental Monitoring @Ericsson

Ruchi Verma
Portfolio Manager, Ericsson

SLOW DECLINE IN WATER QUALITY!

BUY WATER, GET FOOD FREE!

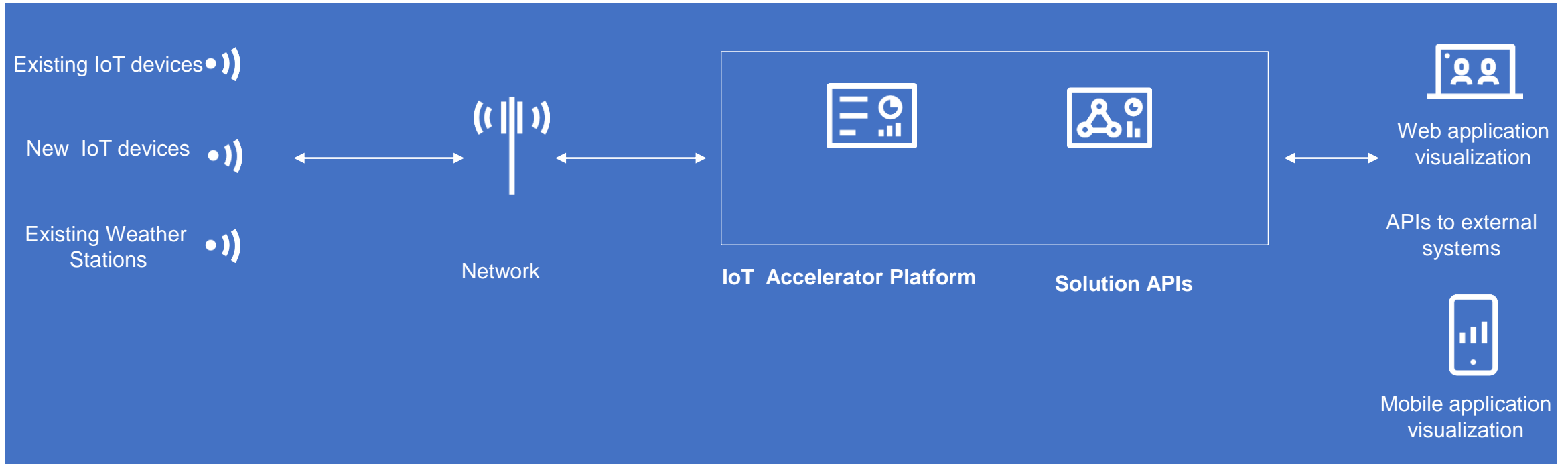


EXPERIENCE SWIMMING VIRTUALLY!



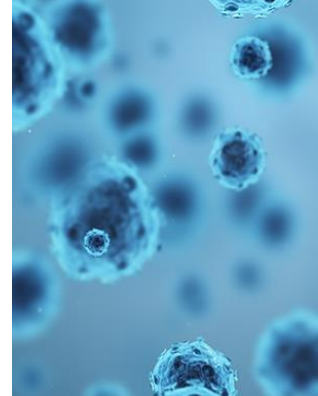
Connected Environmental Monitoring


– Real time water monitoring IoT solution



Important features: Device & Data Management, Trend analysis, Threshold, Notifications, Heat Maps, Reporting, Analytics, Crowdsourcing

Water quality monitoring Use Cases





**From programme of measures to
practical work - what is important
for success?**

Gunnar Söderholm

Director Environment and Health Administration, City of Stockholm

The city of Stockholm

Action plan for good water status

The aim of the action plan

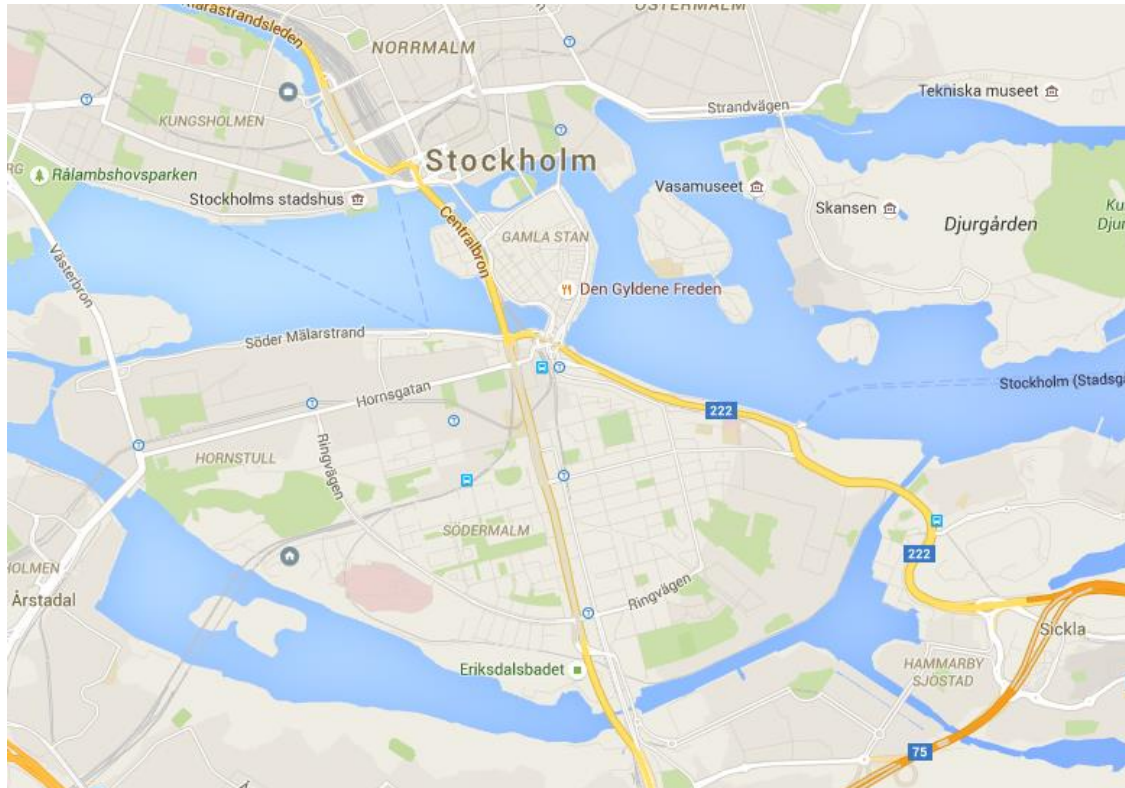
- States how the water management within the city has to develop in order to gain focus on more operational measures.
- States how the water management within the city need to adapt in order for us to reach the goals of the water frame work directive.



Stockholm where the lake Mälaren meets the Baltic sea



Save the lake!



Digital Demo Stockholm

A cooperation between the Public Sector, Academia and Business to boost innovation through digital solutions and make Stockholm the world's smartest city by 2040.

Digital Demo Stockholm addresses societal challenges and allows solutions to emerge from creative platforms.



Access to
Clean Water



Security for
the Elderly



Effective
Accessibility



Technology
for Equal
Opportunities



Energy
Efficient
Healthcare

Partners



**Internet
of Things**

Mobility

Big Data

A circular photograph of a city street at night, featuring a bridge with lights and buildings. The text "Smart city" is overlaid in white.

Smart city

**Social
media**

**Open
data**

Thank you!

stockholm.se/international

gunnar.soderholm@stockholm.se



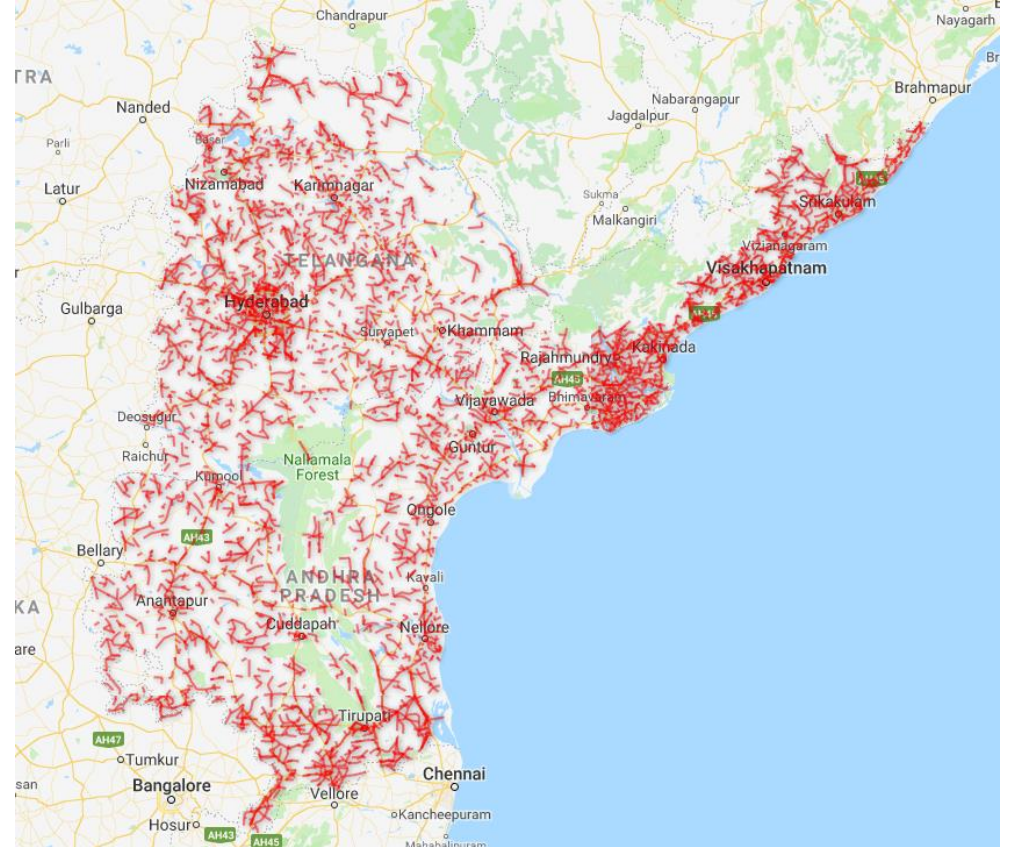
Ericsson Weather Data: NowCasting Rainfall

We measure each drop. Every 10 seconds. Everywhere.

Jonas Hansryd

Head of microwave and millimeter-wave hardware research , Ericsson

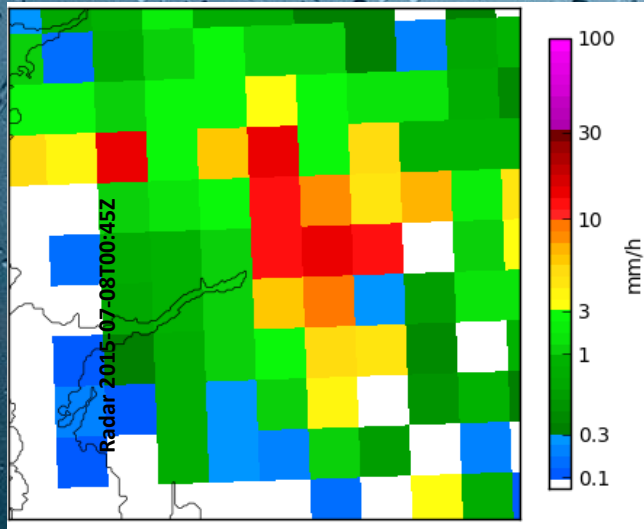




Data example: Gothenburg

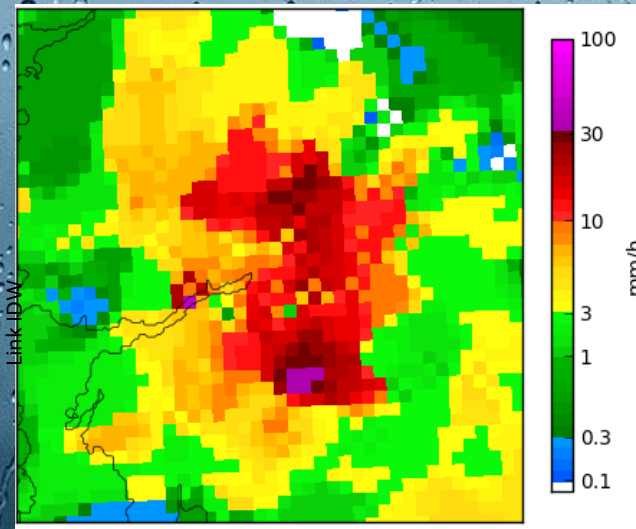
[EXAMPLE STORM](#)
[LIVE-STREAM LINK](#)

Radar



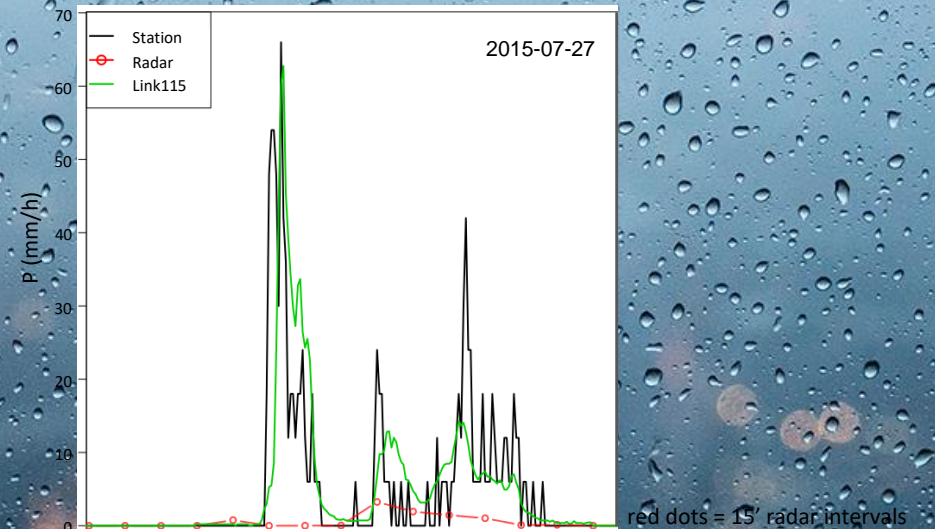
Temporal Resolution 15 min
Spatial Resolution 4km²
Vertical Sampling 12km

Ericsson Weather Data



Temporal Resolution 1 min
Spatial Resolution 0.25km²
Vertical Sampling 25m

4 hour storm event



- Mobile network provide better ability to capture peak intensities compared with radar
- Better also at capturing quick rainfall events
- Bias of 30% compared to radar at 20%, rain gauge at 10%



ERICSSON

In
collaboration
with

SMHI

ericsson.com/cases/2018/SMHI

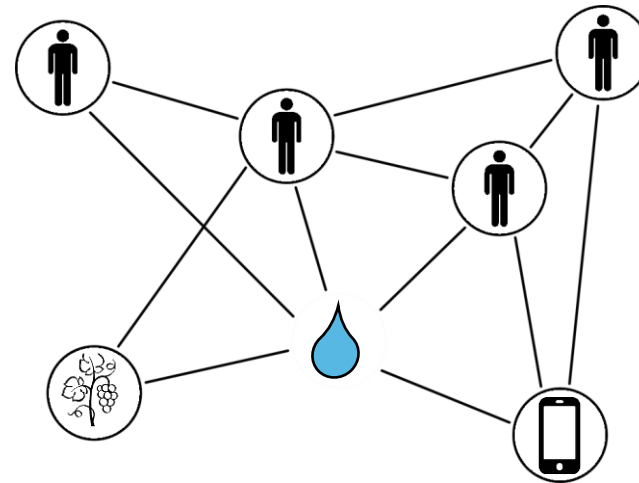


Addressing water issues in Californias prominent winegrowing regions

Cora Kammeyer
Research Associate, Pacific Institute

Viticulture Test Case with CEO Water Mandate

CEO Water Mandate:
Commitment platform with
that mobilizes business
leaders on water, sanitation,
and the Sustainable
Development Goals



- **140+ endorsing companies**
- **Ericsson has been an endorser since 2015**
- **Collaborating to develop a test case for the CEM platform in the California viticulture industry**

Viticulture Test Case with CEO Water Mandate



Ericsson

Field trip to Ericsson studio - information and communication technology

Monday 27 August | 14.00-17.30 | Room: Departure: Entrance FH





[Ericsson.com/iot](https://ericsson.com/iot)