SMART AQUA

Waste water treatment management with the data

Mika Kujala, CFO
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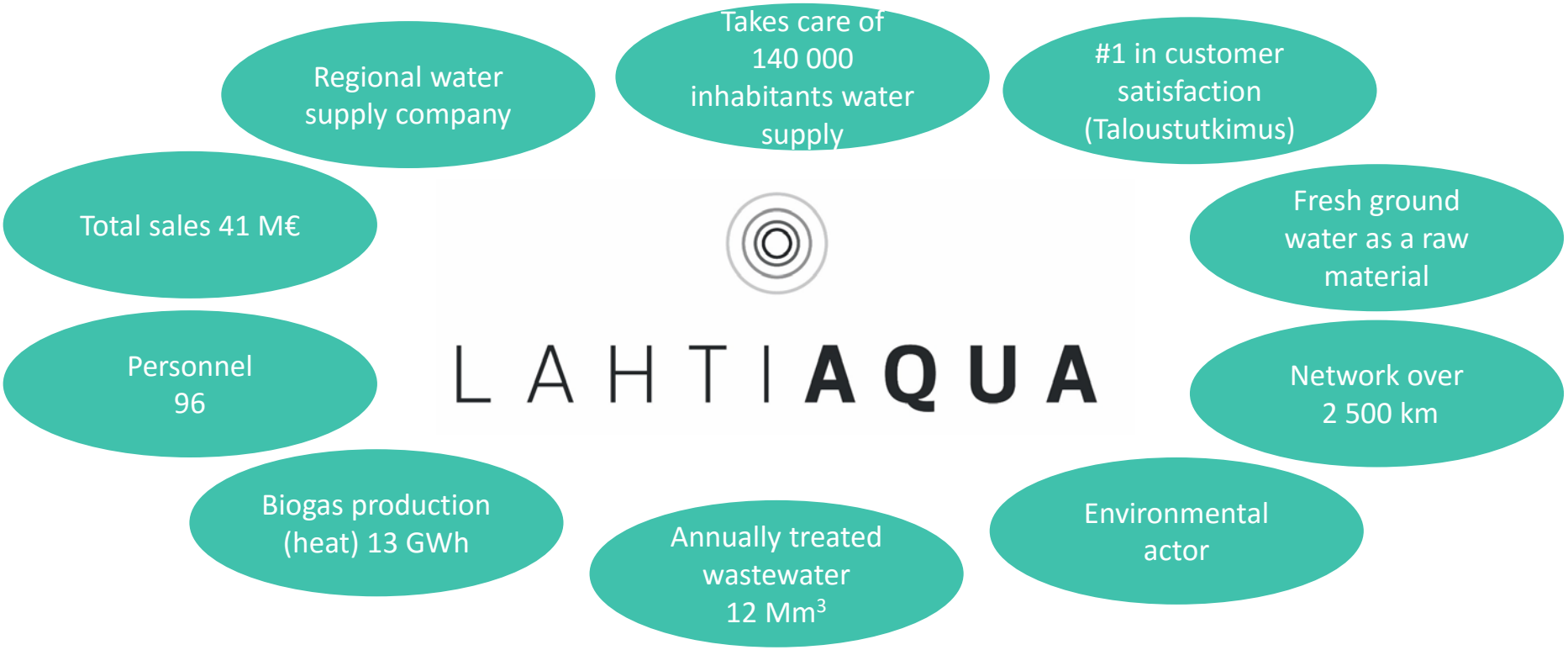
Webinar, 25th September 2017

Lahti Aqua Group



Content

- Smart Aqua
- Sources of data
- Leading with data

There's more and more data available every minute. How do you exploit it?

142,361,111
Emails sent and received

2,083,333
Minutes used on Skype calls

347,222
Tweets posted

$203,579
In Amazon sales generated

1,389
Uber rides taken

50,200
Mobile apps downloaded

400
Hours of video uploaded on YouTube

120
LinkedIn accounts created

2.4 Million
Google searches made

216,000
Photos posted to Instagram

Source: arbornetworks.com, VidCon 2015

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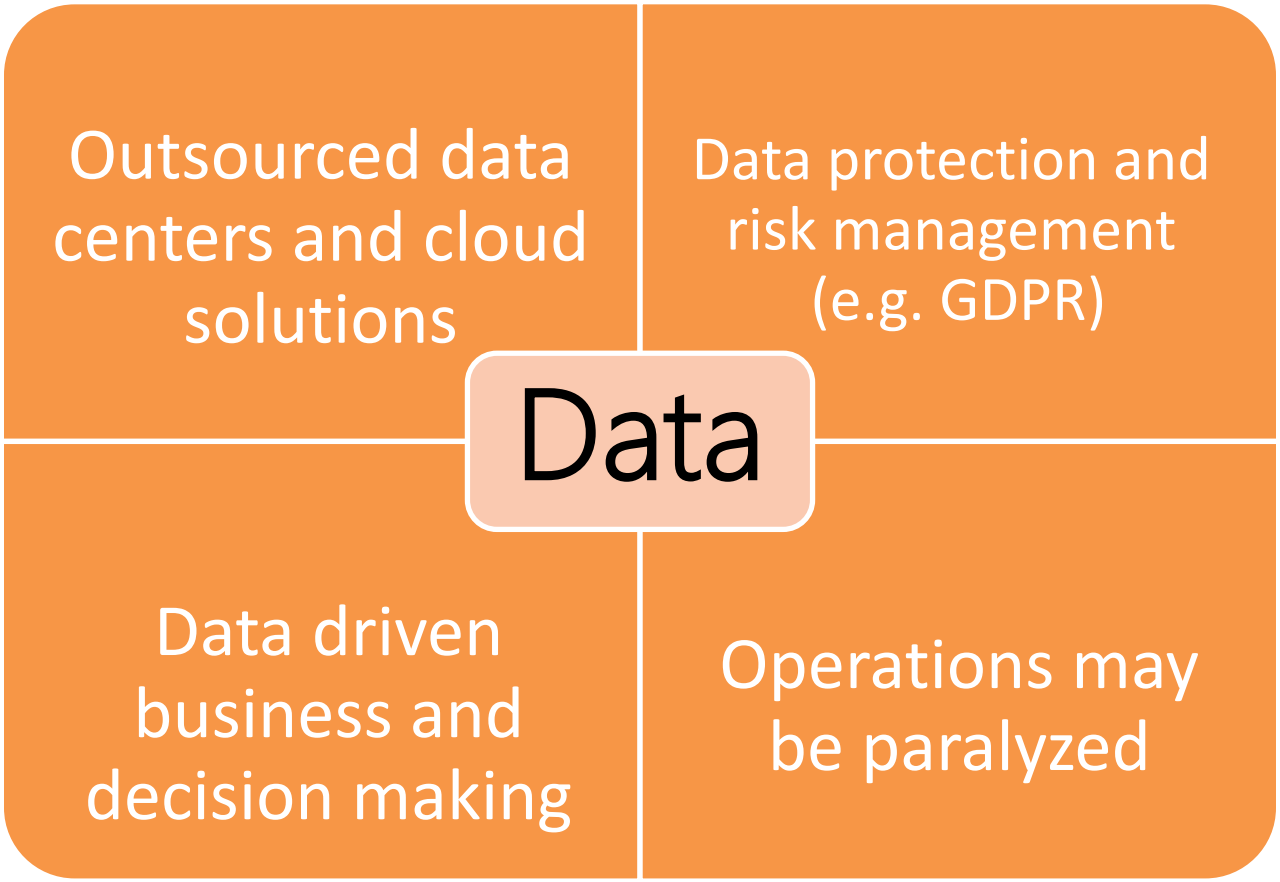
Interactive Water Management

Data is everything



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Sources of data

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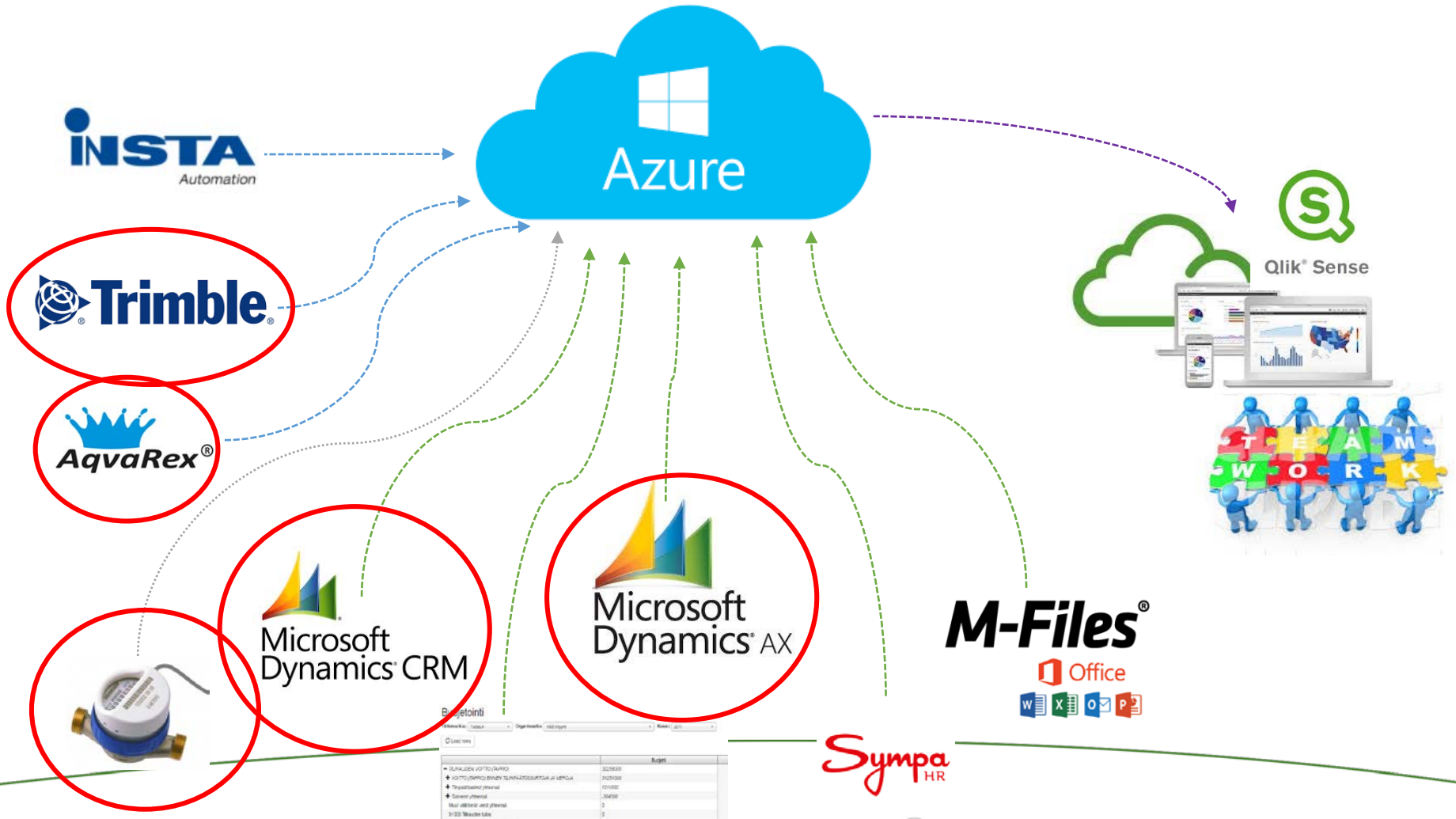
Source of Data



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Leading with data

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Leading with Data

- Real time
- Transparent
- Solid data
- Access for everyone and everywhere
- Leading with numbers, not by intuition
- One input principle
- End user has an extended self analysis opportunities

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Waste water treatment management with the data

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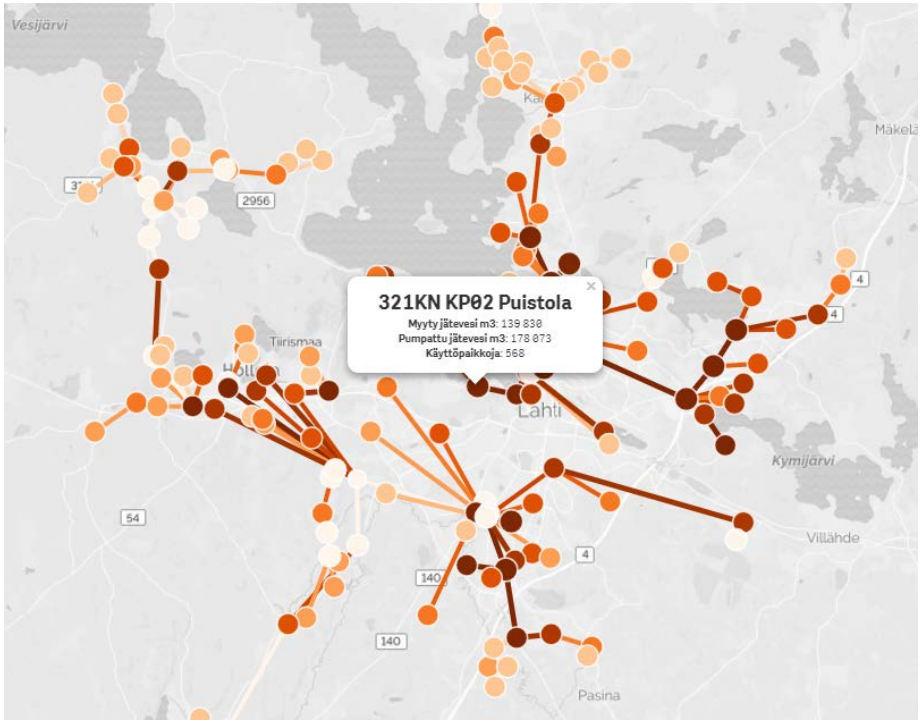
Waste water pipelines in Lahti (560 km)

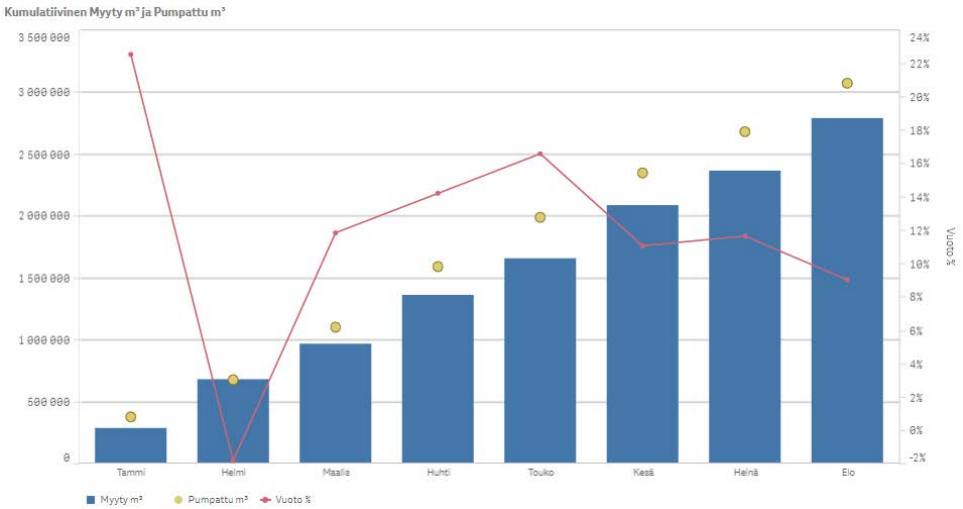
- Sold vs pumped waste water = leakage-%
- Still data is a rough estimate as billing is not based on real-time consumption
  - Every second month sales volume pretty liable
- Master data validation and harmonization also continues
- Pilot for remote reading started



Leakage-%

- Management actions
- Comparison can be made by area >>
- Data must be combined with maintenance information, pipe's age and material, customer feedback e.g. >>
- Helps investment decision making???

Kariniemi sewage treatment plant



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Summary

- Data is available but matters only when used comprehensive across the business
- Analytics to support decision making
- Possibilities with IoT?

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