

ionSign Oy

the Data Capture Specialist

Mikko Sainio

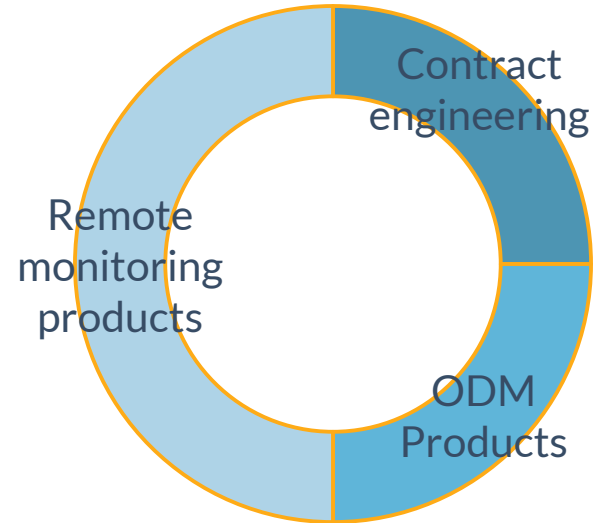
Head of Sales & Business Development

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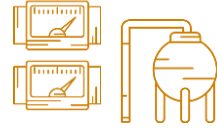
ionSign Oy

- Established in 2007 in Rauma
- Privately held Ltd
- Turnover 1,2 M€ (2015)
- Personnel 12 experts
- Electronic design
- Embedded and server software design
- Data analysis & UI partners
- Subcontracted manufacturing



ionSign *Gluon*

Unit Processes



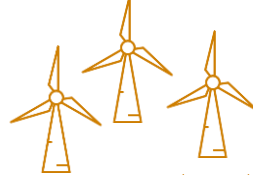
Remote & Moving Locations



Standalone Equipment



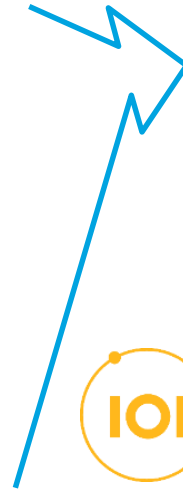
Distributed Equipment



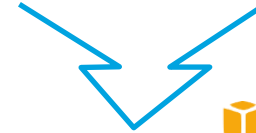
Unmanned Facilities



Icons by Freepik from Flaticon.com



LAN/TCP-IP
3G Mobile Data

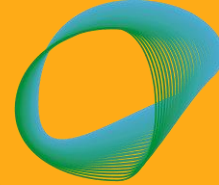


Microsoft Azure

Bespoke & Commercial
Cloud Services & Platforms



Case EnerSize



*Continuous monitoring of compressed air systems (CAS)
for CAS energy efficiency services*

Improving the CAS Energy Efficiency



Energize compressed air system (CAS) energy saving service applied at a global LCD panel manufacturer

- Initial CAS energy demand 47 GWh/a
- **Continuous monitoring** installed to establish the status quo
- Detailed improvement plan & actions based on findings
- **Continuous monitoring** and improvement
- Benefit sharing business model

Continuous Monitoring of the CAS - Extremely Easy and Low-Cost Set-Up



Improvements

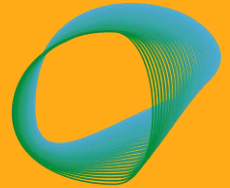
3 pcs of ionSign GMU's

Energize



Data

- **Energy**
- **Pressure**
- **Flow**
- **Dew point**
- ...

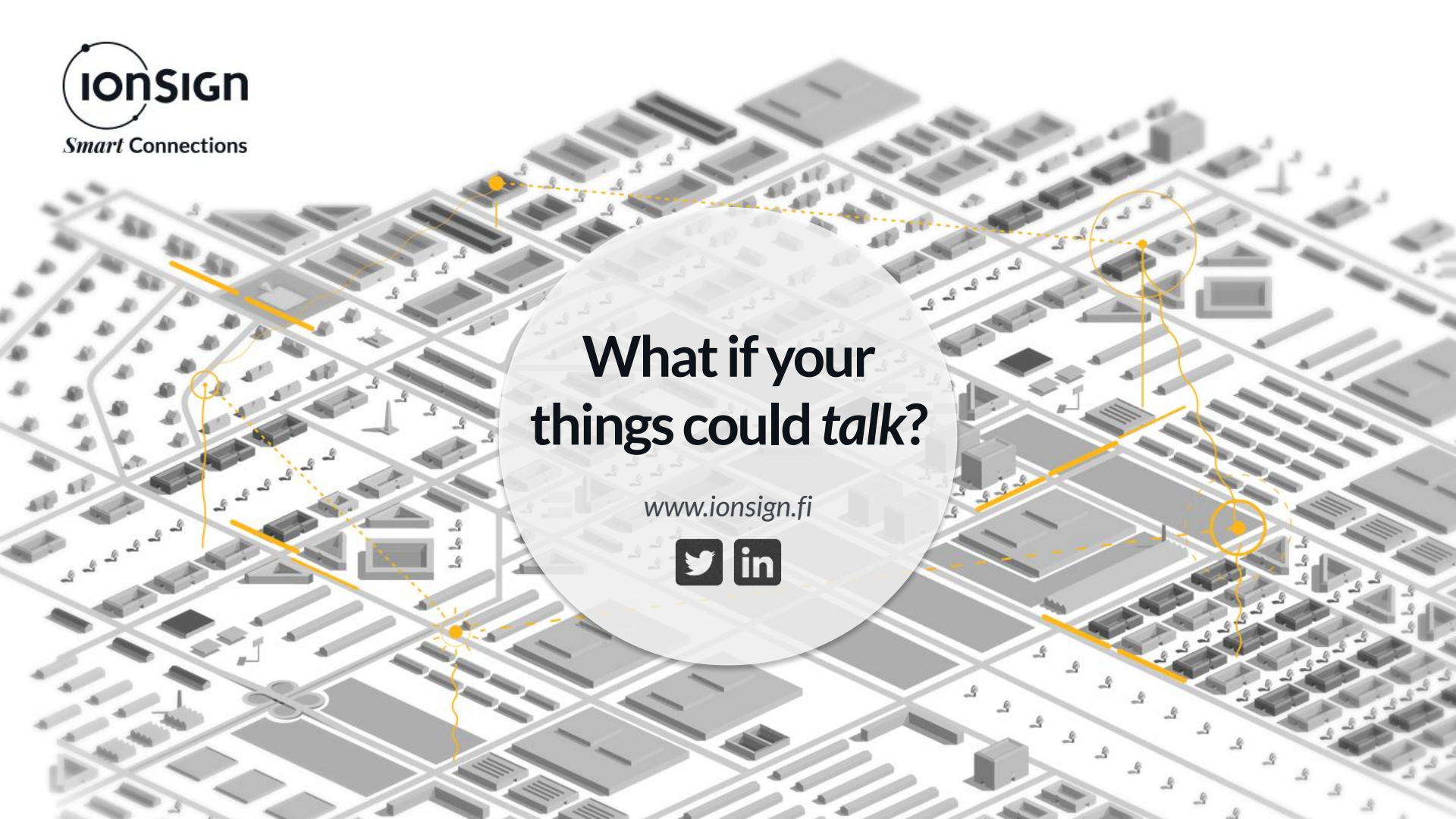


End Client Benefits



- No capital investment
- No own CAS development project
- Savings in energy costs (shared with Enersize)
 - 1st year realized 522 000 €
 - 2nd year target 1 000 000 €
- Improved cost competitiveness & carbon footprint

Made possible by Enersize's CAS expertise & ionSign's easy and low-cost remote monitoring



**What if your
things could *talk*?**

www.ionsign.fi

