

MODPROD Center for Model-Based Cyber-Physical Product Development

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IoT - Visions and challenges



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- → One of four owners of Attentec
- → Member of the board Swedish IT and Telecom Industries
- → IDG Expert Network IoT
- → MSc Computer Science and Engineering LiTH + Case Western Reserve University, Cleveland Ohio



We are a team of dedicated developers and experts in internet of things and streaming media who are passionate about innovative technology.

<u>Quick facts:</u> Established 2005 60+ developers Stockholm, Linköping and Oslo

Who we are





- A Vision for IoT
- Where are we now?
- Challenges to overcome and how we handle them
- Summary



IoT Vision -Everything connected

> Sustainable

> Safe

> Servitization



Internet of Things - Business opportunities

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Improved efficiency

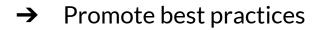
Reduced risk

Increased turnover



→ Condition based maintenance

→ Optimized use of resources

















→ Dangerous environments

→ Theft

→ Monitor legal requirements and rules













→ Sell data (knowledge) to your customers

→ Improve customer communication

→ New business models -PaaS



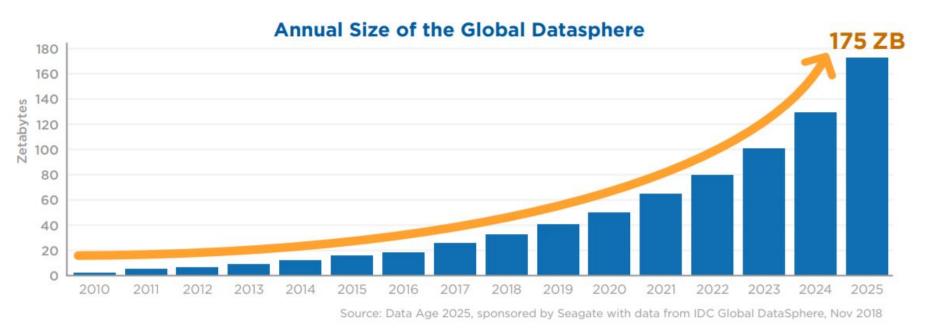
Challenges

• Connectivity

- Miniaturization
- Power
- Data Growth
- Standardization
- Trust
- People and organizations ability to utilize the benefits of IoT



Challenge - Data Growth



- Big Data Analytics
- Artificial intelligence

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Challenge - Standardization

- How many SIM-cards do you have on a truck today?
 - Integrate or separate?
- IoT standardization slow
 - ISO/IEC 30141 IoT Reference architecture (augusti 2018)
 - Proprietary solutions
- IT level standards good





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Challenge - Trust



→ Security

→ Integrity

A vision for IoT Summary

- ★ A sustainable, safe and servitized world
- \star Plenty of technical challenges
- ★ Do not forget people and organizations



Thanks for listening.

Questions?

