



Work force optimization

Successful approach from integrator perspective

How we understand vision of IoT

IoT allows us to make the physical world digital, offering new possibilities for digital transformation.

Our task is to find a way for our clients to effectively go through digital transformation and to benefit from the opportunities it offers.

What we really do



Ideas and concepts



Development and
implementation

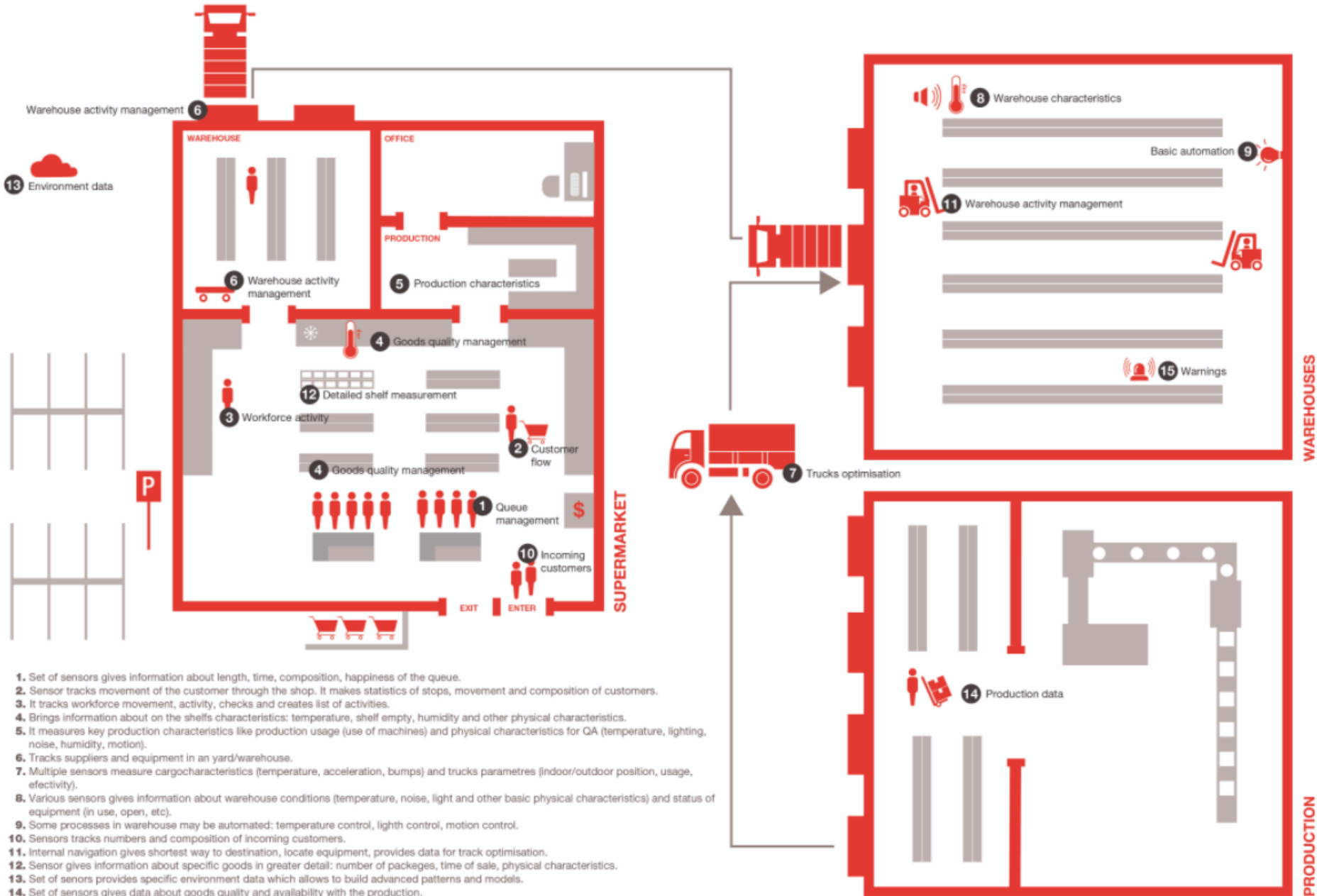


Digital transformation

What we agree on

We are not in the status quo—preservation business. Rossman, John. The Amazon Way on IoT

Touchpoints in retail



Starting point: business problem definition

Cost of work force is 1-2 billion Kc per year.
We seek 2-5% of performance upgrade. 1%
is equal of 4 minutes a day.

Conditions:

- Shifts, up to 20 people on the floor
- Work force is not changing often
- Pathological activities vs. optimization
- Real time data vs. long term analysis
- Floor topology and anchors density
- Complicated activity identification
- Focus on individuals or shifts
- Accuracy in centimetres or meters
- Sampling frequency

If mandatory work is not performed the risk of failure is rising. We have to do manual re-check or accept the risk.

Conditions:

- 100 people on the floor
- Work force is not stable
 - Pathological activities vs. optimisation
 - Weak and month evaluation
 - Data archive
 - Floor topology anchors density
 - Workers safety
 - Easy rules
 - Individuals
 - Accuracy in meters (zones)

How to find the value of the solution



Idea design

We have no work if there is not a vision what to achieve.

Imagine you can improve the effectivity of your work force.



Proof of concept

We need to translate business problem into the technical or data problem.

Than check if the technology works right under current circumstances.



Prototype

Do the data serve in the right way?

Setting up the data model for identification of activities is key task.



Development and implementation

The best data without means to change our behaviour are useless.

We make data actionable and deliver it to right people in right format.

We provide solutions and use IoT as an enabler



Collecting and presenting production data

We develop and prepare applications that will allow you to view real-time data from your production devices. We connect to a production machine, car, camera or set of sensors, and collect, process and present operation data using React, React Native, Angular and other modern technologies.



Creating an “intelligent” product layer

We will prepare your products for cloud computing, teaching them how to send data and take advantage of industry 4.0. We will find a technically and commercially suitable solution, verify its meaningfulness and prepare its implementation for your existing products.



Linking “dumb” devices

We are even able to obtain data from “dumb” devices. We will develop and deploy sensors and microcontrollers for existing technology, allowing you to collect data and make smart decisions. We will prepare the concept, design and development of HW and SW parts of the solution and put them into practice.



Finding the optimum data driven solution

We design data-based solutions and use machine learning and AI services to discover ways to streamline processes or find new business solutions. We use the IoT cloud from Microsoft, Amazon, IBM and other partners.

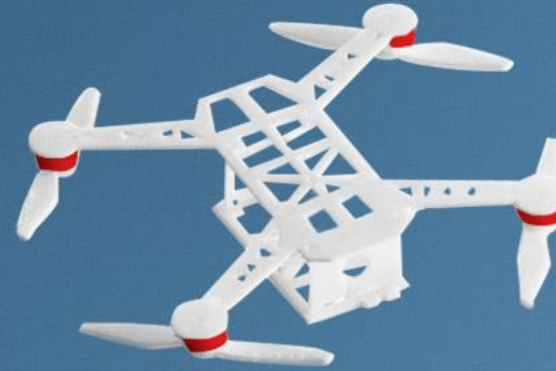
Thank you



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Materials to download:

- [IoT touchpoints in the retail and machinery](#)
- [eBook – Úvod do světa IoT](#)