

SICS – Introducing Internet of Things in Product Business

Christer Norström, CEO SICS

In collaboration with Lars Cederblad at Level21 AB



A NOT CONNECTED PRODUCT TO A CONNECTED PRODUCT

- IOT – introduction
- Examples
- What do you have to consider when introducing IOT in your business?
- A “method” for defining a new business model and setting up corresponding sale channels and dealer structure

WHAT IS HAPPENING?

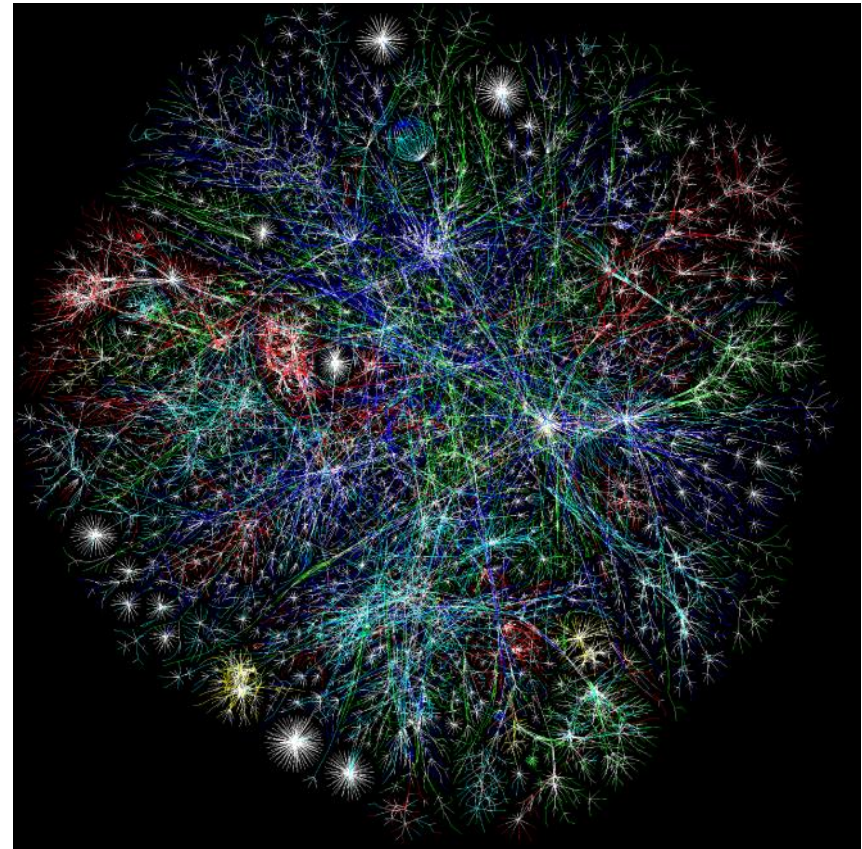
- “Uber, the world’s largest taxi company, owns no vehicles.
- Facebook, the world’s most popular media owner, creates no content.
- Alibaba, the most valuable retailer, has no inventory.
- And Airbnb, the world’s largest accommodation provider, owns no real estate.

Something interesting is happening.”

Tom Goodwin

CONNECTING EVERYTHING

- Internet of Things – allt är uppkopplat
- Ett internet som inte bara är beroende av människor för insamling av information
- Kunskap om *things*, inte bara idéer



Total Internet of Things Connections (in billions)



VOLVO - SENSUS

- The connected car
 - On board services
 - Maintenance
 - Alerts
 - ...



EXAMPLES: VERISURE

- Starting point a Classic home alarm system
- Transfer into Smart home business

- Action taken

Open up for other brands products based on being a trustworthy brand.
Examples of products integrated from other brands:

Locks from Assa

Humidity, temperature, etc from Anticimex

Heat pumps from Panasonic



- Comment: Uses its brand value to integrate complementary products/services. Does not integrate competitor products.

LEAN HAULAGE

- **Sells a tool for efficient driving of trucks to Transport providers**

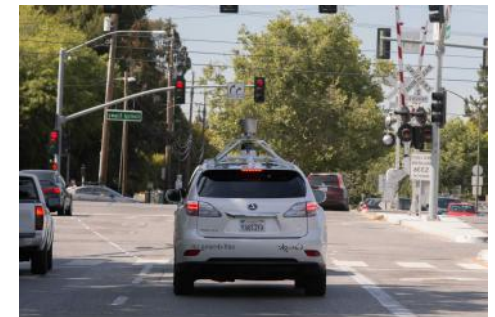


- **Technical solution** – simple device that reads the truck status from the same port as bilbesiktning uses . The device communicate with a smartphone which communicate with the cloud, and and provides the interface to the driver.
- LeanHaulage[®] core values puts driver, environment, safety and profitability in focus.
- Comment: This simple technical solution shortcuts the truck brands. It also builds a strong relation to the market!

GOOGLE CARS

ACTIVITY SUMMARY (ALL METRICS ARE AS OF JULY 31, 2015)

- Vehicles
 - 23 Lexus RX450h SUVs – currently self-driving on public streets in Mountain View, CA, and Austin, TX
 - 25 prototypes – 5 are currently self-driving on public streets, mainly Mountain View, CA
- Miles driven since start of project in 2009
 - Autonomous mode: 1,101,171 miles
 - Manual mode: 842,101 miles
 - We're currently averaging ~10,000 autonomous miles per week on public streets



WE MOVE



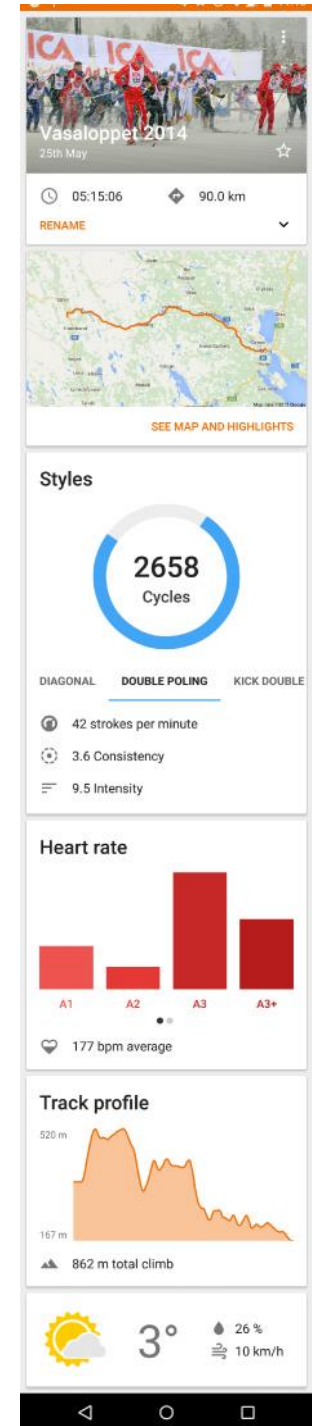
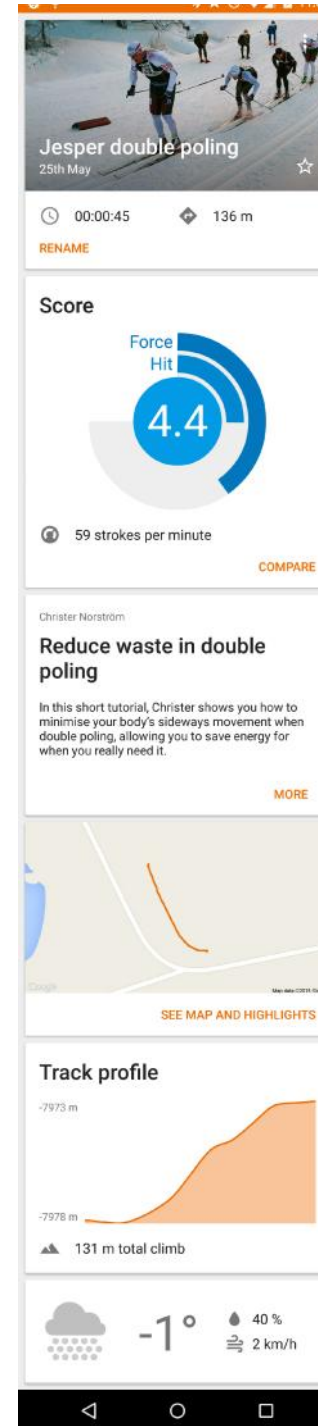
Make you a better Skier

Tests– what and how do you do a particular movement

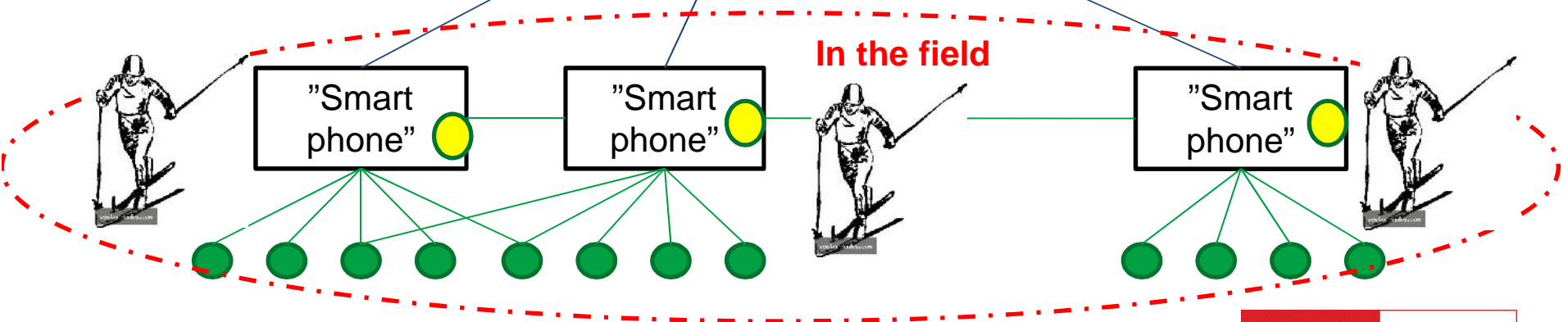
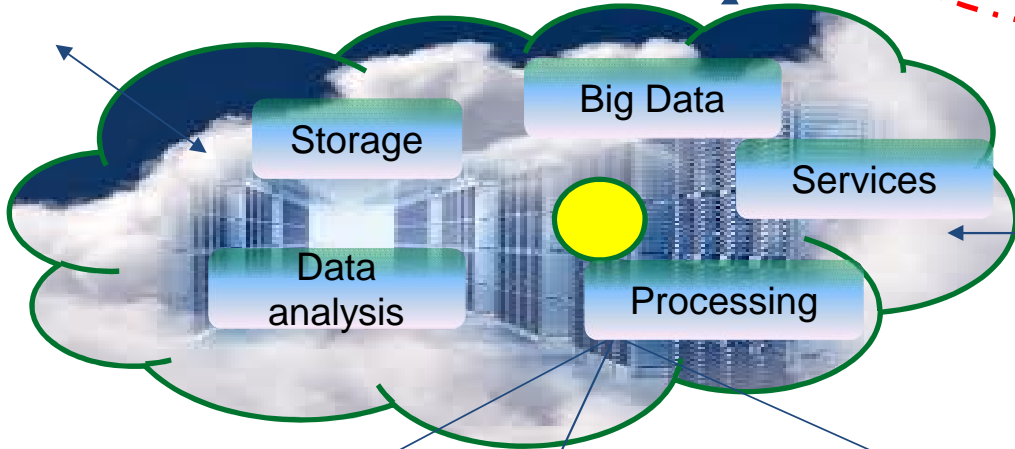
Advice and recommended exercises how you reach your goal

Specific knowledge about skiing

What about the business model?



CONTEXT



A close-up photograph of Jack Welch, an older man with a balding head, wearing a dark suit jacket, a light blue shirt, and a red tie. He is pointing his right index finger towards his forehead. The background is dark and out of focus.

“If you are not moving at the **speed** of the marketplace you’re already dead – you just haven’t stopped breathing yet”

Jack Welch

INTRODUCING IOT

- Three major steps
 1. **Efficiency** in an existing business – introduce an infrastructure and understanding of the opportunities
 2. Increase the **value** in an existing business
 3. **New business** model – enabling new revenue channel
 - combining product and new services in the most efficient way
 - Sales channels and segmenting
 - Dealer structure

EXAMPLE

PROFESSIONAL POWER TOOLS (PPT AB)



PPT AB is today mainly a product business.

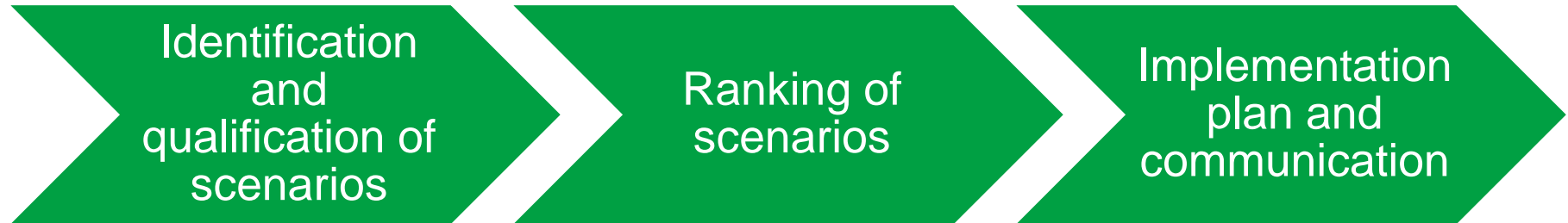
To grow the business and differentiate from competitors PPT AB aims at transforming into a combination of product and service business. The business is b2b.

QUESTIONS TO BE ANSWERED

This transformation relies on a number of answers to critical issues such as:

- Overall business model for products and services, short and long term
 - Value Proposition (product, service)
 - Customer Relationship
 - Customer Segments (from PPT AB only to customers with only competitor products)
 - Sales Channels (existing dealers, new dealers, portal etc.)
 - Revenue Streams (high level pricing/payment models and a general kick-back models)
- Openess to other brands in the service offer
- Sustainability of the business model
- Implementation road-map including communication to internal stakeholders

WORKING METHOD



1. Find scenarios
2. For each scenario:
 - Value prop., Channels, Customer segm...
 - Identify external benchmark

1. Evaluate scenarios against each other
2. Use four dimensions:
 - Competitors
 - Customers
 - Substitutes
 - New entrants
3. Eliminate the least good scenarios

1. For the remaining scenarios estimate revenues and costs
2. Perform sensitivity and risk evaluation
3. Describe possible transitions between scenarios
4. Develop communication material

Business Model Assessment

Scenario space: what dimensions are defining the scenarios?

Customers segments:

PPT AB installed base	Mixed installed base Customer have both PPT AB products and competitor products	No installed base
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Sales channels:

Existing dealers	Existing + new dealers	Existing dealers + portal	Existing + new dealers + portal
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Value propositions:

Product only	Product + PPT AB services	Product + Open services	Services only
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The generic scenario description

A combination of the front end of Business model canvas with more details and product/market matrix

Value Proposition	Customer Relationship	Customer Segments
	Channels	
Revenue Streams		

Bundled sales			
Service sales			
Product sales			
	PPT AB installed base	Mixed installed base	No installed base

Scenarios to be analyzed

The scenario space is $3 \times 4 \times 4 = 48$ minus some scenarios describing today's business only

Only PPT AB products

	Product only	Product + PPT AB service	Product + Open service	Service only
Existing dealers				
Existing + new dealers				
Existing dealers + portal				
Existing + new dealers + portal				

PPT AB plus competitor products

	Product only	Product + PPT AB service	Product + Open service	Service only
Existing dealers				
Existing + new dealers				
Existing dealers + portal				
Existing + new dealers + portal				

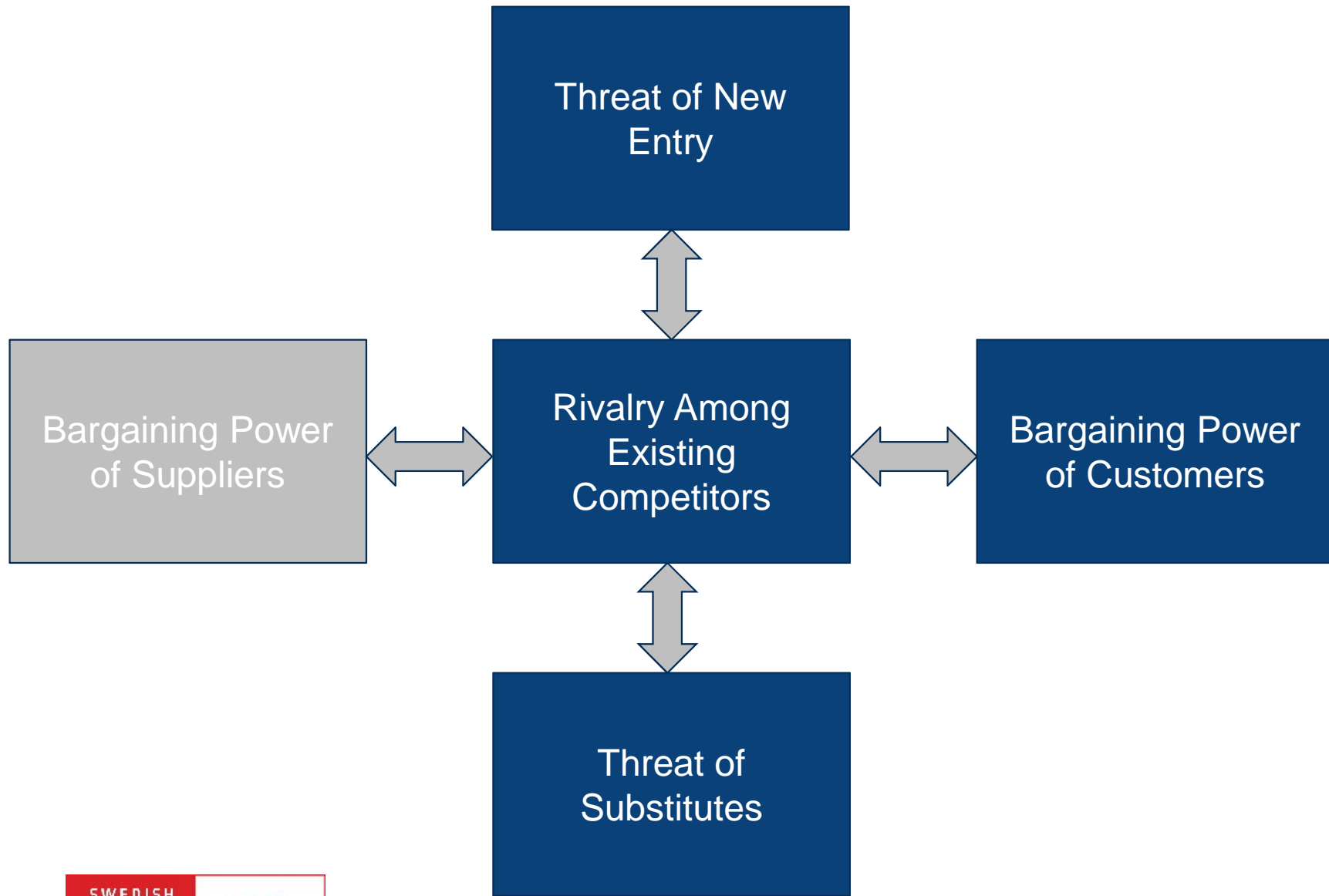
No similar products at all

	Product only	Product + PPT AB service	Product + Open service	Service only
Existing dealers				
Existing + new dealers				
Existing dealers + portal				
Existing + new dealers + portal				



Porter 5 forces

Focusing on the four front-end forces



SUMMARY

Introducing IOT rises questions regarding the business model – it is not only a matter of technology