

## Tieto, the leading Nordic software and services company



**3000** Projects annually



Serving Nordic clients since

1968





Turnover of approximately



**Employing** 

13000 experts globally, in close to

20 countries



Serving customers in over

countries worldwide



Investments in technology and services more than

\*incl. capital expenditure and operational costs

## **Tieto Forest consulting**

#### Forest companies first choice in business renewal!

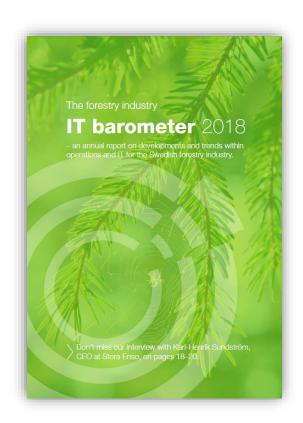
 Business consulting, development and maintenance of smart solutions boosting the forest companies business processes

70 Business & IT consultants in Sweden & Finland



#### The IT-barometer

- Annual report on digital trends within the forest industry
- > 60 companies responding
- Swe/Fin versions
- Forest industry segments
  - Wood supply, pulp & paper, biofuel, wood products
- CIO, CEO, decision makers & key individuals responding









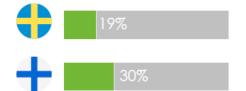
# What is the primary focus of the IT activities?

Productivity & efficiency?

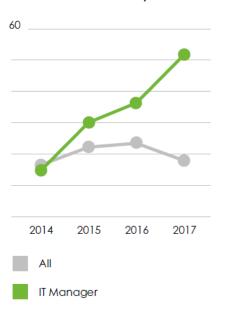


Innovation & commercial development?

3.3 Per country: The proportion focusing primarily on Innovation and commercial development

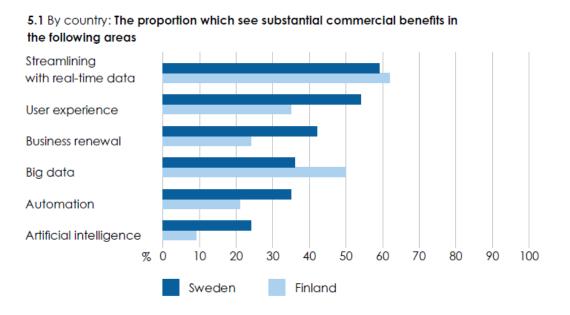


3.2 IT Manager: The percentage focusing primarily on Innovation and commercial development





## Commercial benefits of digitalisation





## Strategy for digitalisation

"Despite that the company managements are aware of digitalisation as an enabler of competitive advantage, more than 50% of the companies lack a digital strategy"

- Mikael Zachrisson, Senior business consultant, Tieto





## Digital innovation, how?

6.2 The proportion who said they do not have a specific structure for digital innovation





### Karl-Henrik Sundström, CEO Stora Enso



"...we need to identify models whereby a major global company such as ours can collaborate with smaller start-ups."

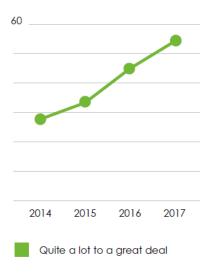
"At Stora Enso we mobilise innovation within our accelerator programme"

"I think the field of Virtual and Augmented reality will throw up really interesting oppurtunities and applications"

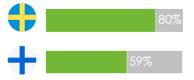


## **Collaboration in IT**

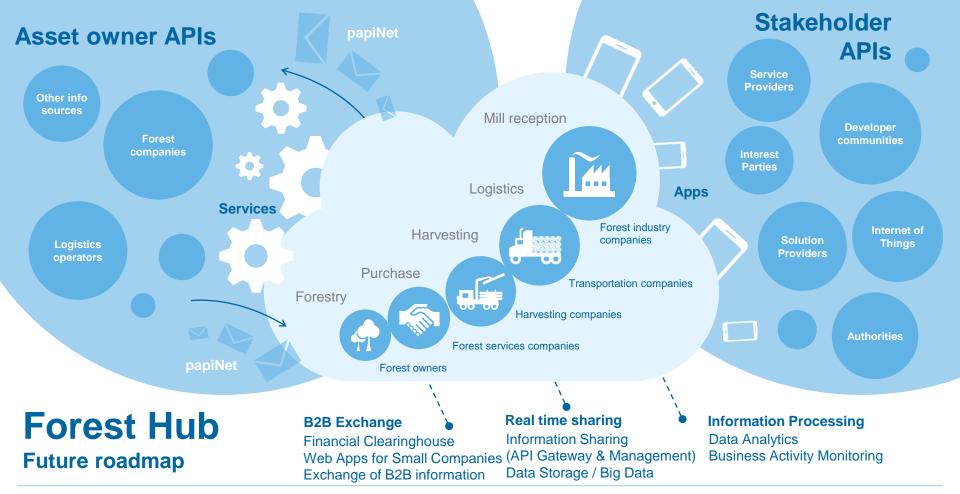
10.1 To what extent do you share/collaborate with other companies in the industry in terms of IT development?



10.2 How do you intend this to be in the future? The proportion who said collaboration had increased





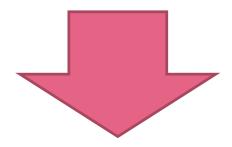




## Increasing competion for raw material

Increasing demand for raw material in the bioeconomy





Forest owners less naturally motivated to harvest

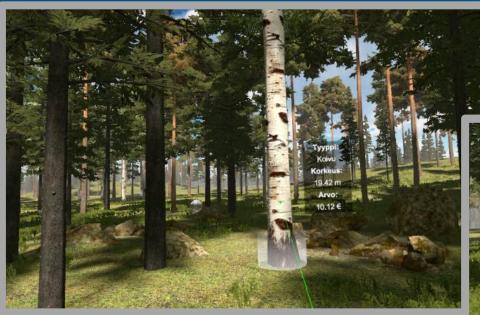


## **Virtual forest**

https://www.youtube.com/watch?v=oBC9FzmGKKE



## Dive into the digital twin - Virtual Forest



Digital representation of the physical world and its dynamics

Kuvio 038

• Tuore
• Kivinen keskikarkea
tai karkea
• Uudistuskypsä
metsikkö

Avohakkuu 2017

Visualization, simulation, planning, optimization, decision making

source: Metsä Group

tieto

## **Conclusions**

- The future is bright!
- There is a high demand for forest related data

Get your copy of the barometer!

Sweden: <a href="http://pages.tieto.com/DigiBarometer\_2018\_SE.html">http://pages.tieto.com/DigiBarometer\_2018\_SE.html</a>
Finland: <a href="http://pages.tieto.com/DigiBarometer\_2018\_Fl.html">http://pages.tieto.com/DigiBarometer\_2018\_Fl.html</a>

