



**BUSINESS
FINLAND**

DIGITALISATION

What It Is and What It Offers?

**Mika Klemettinen, Director, Digitalisation
Business Finland**

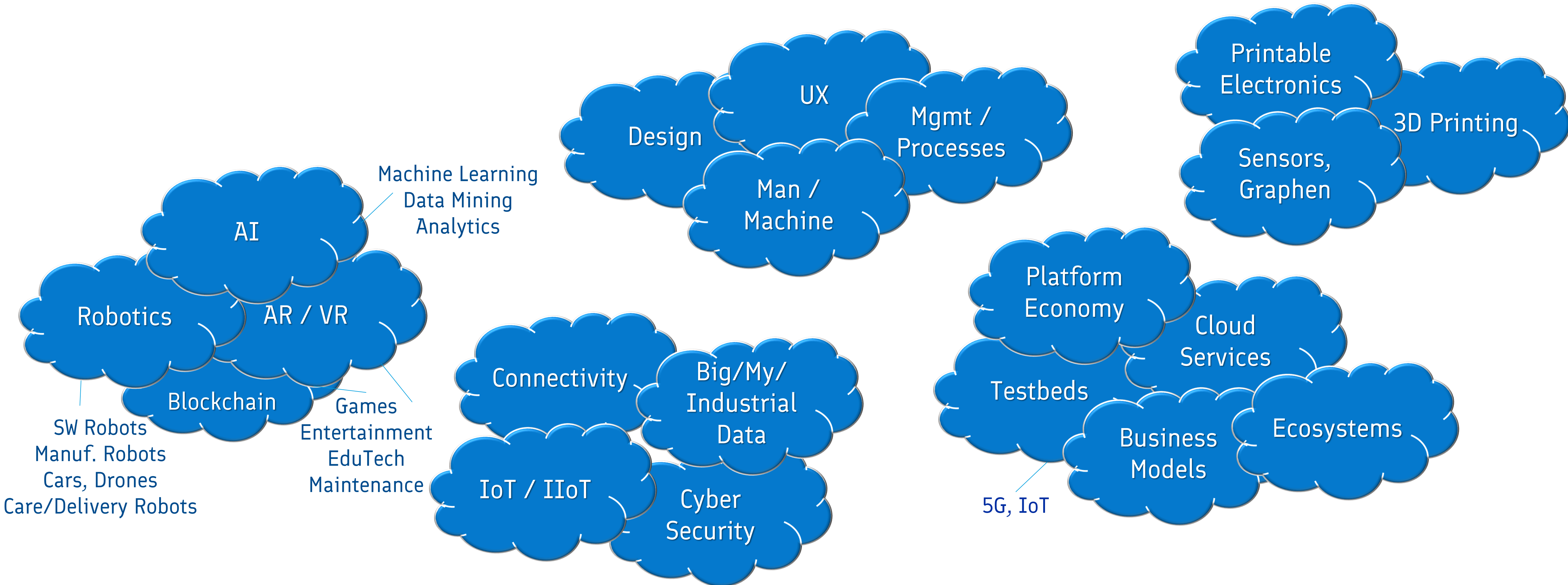
June 2018

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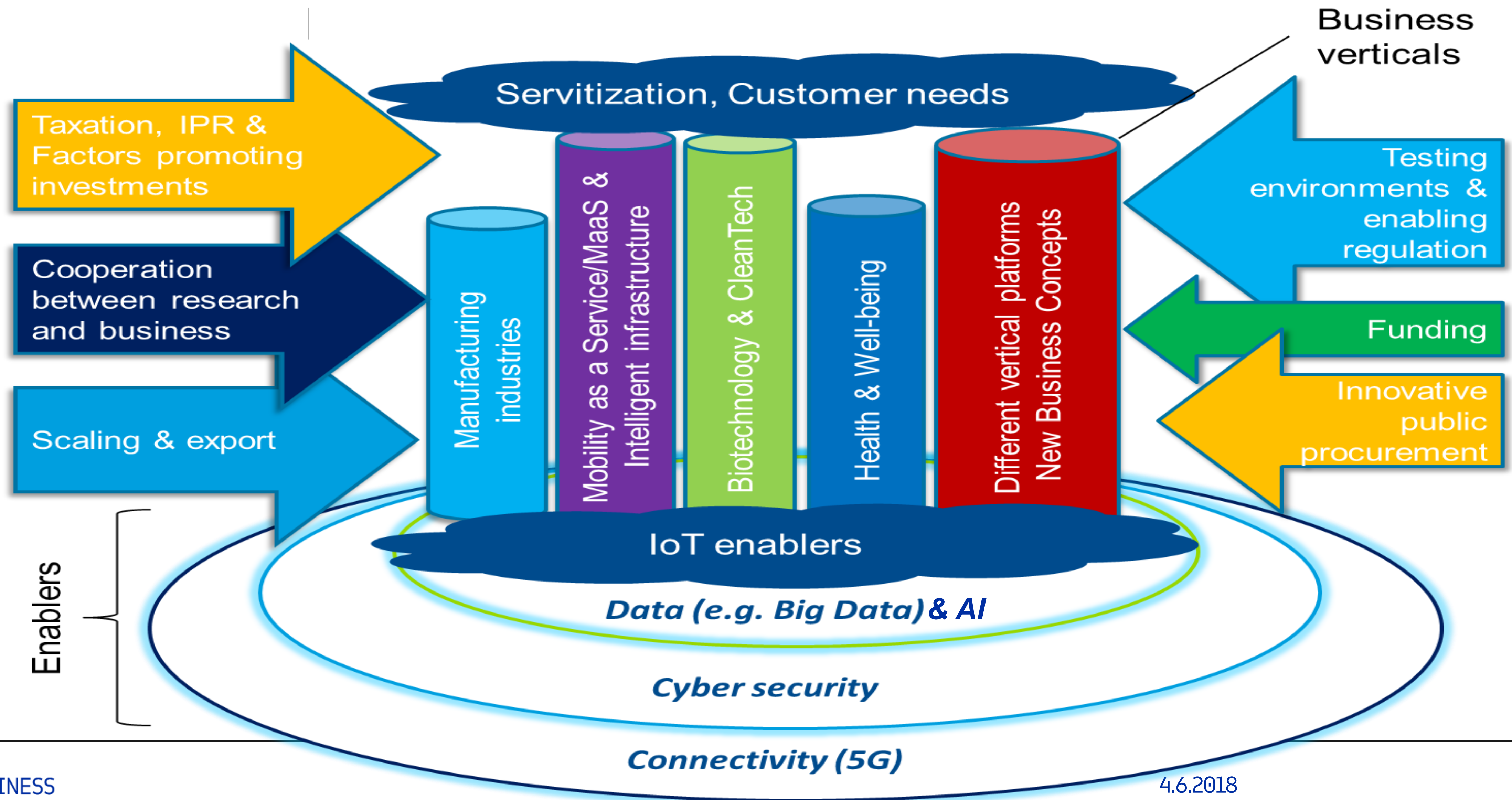
DIGITALISATION PLATFORMS ECONOMY

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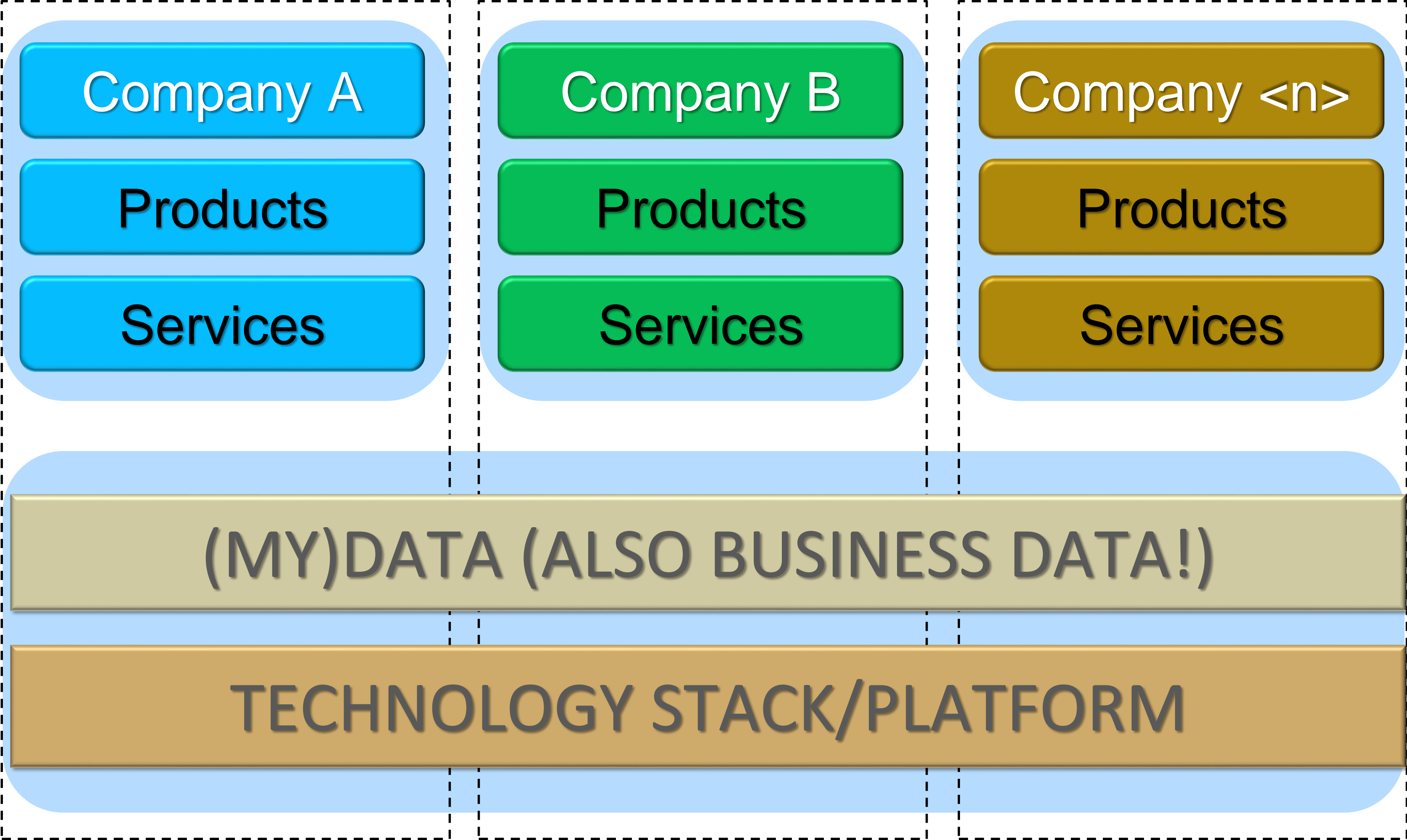
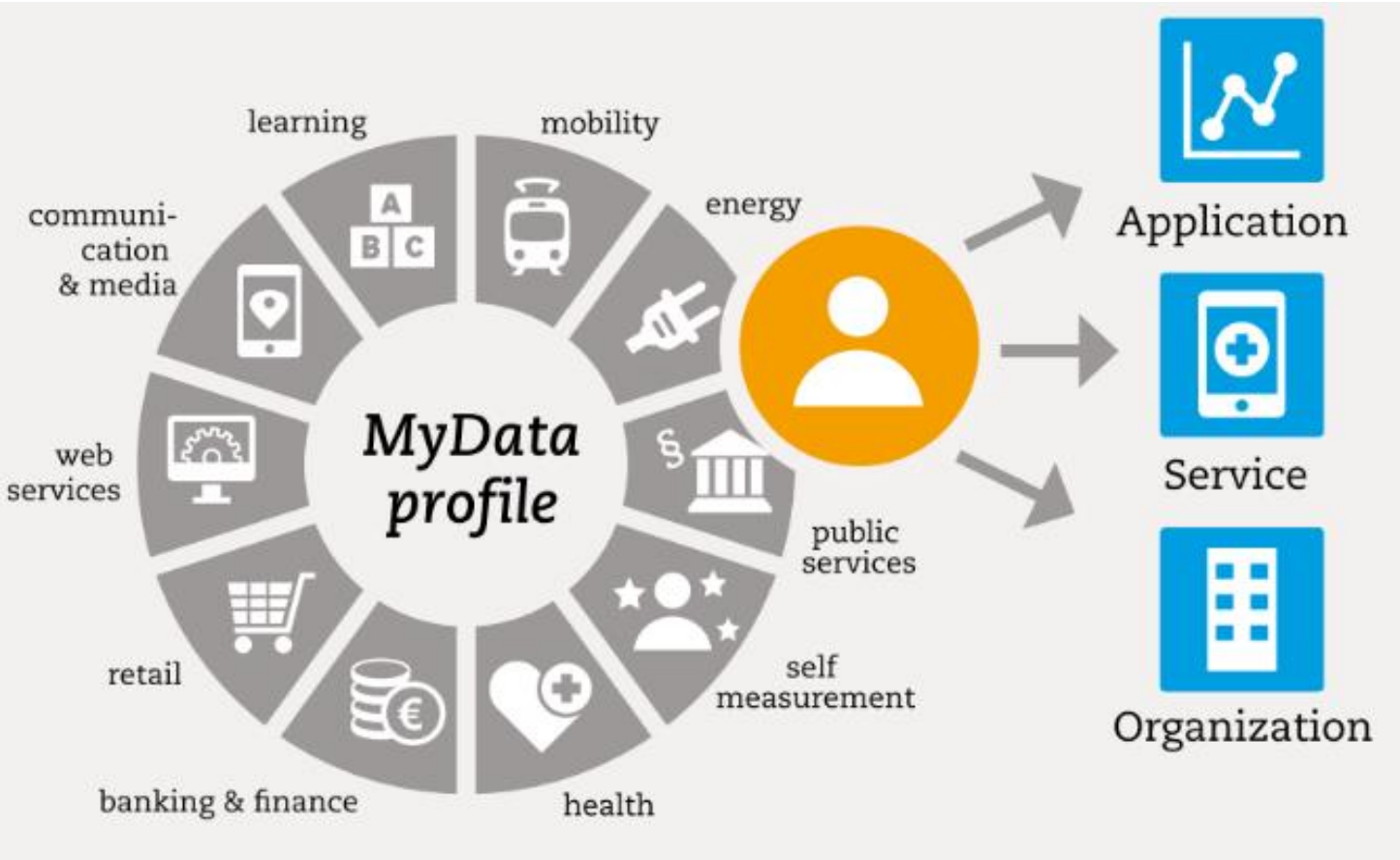
KEY TECHNOLOGIES AND AREAS



DIGITAL INNOVATION ENVIRONMENT



DATA AND PLATFORMS ECONOMY – NEW BUSINESS



2

DIGITALISATION APPLICATION

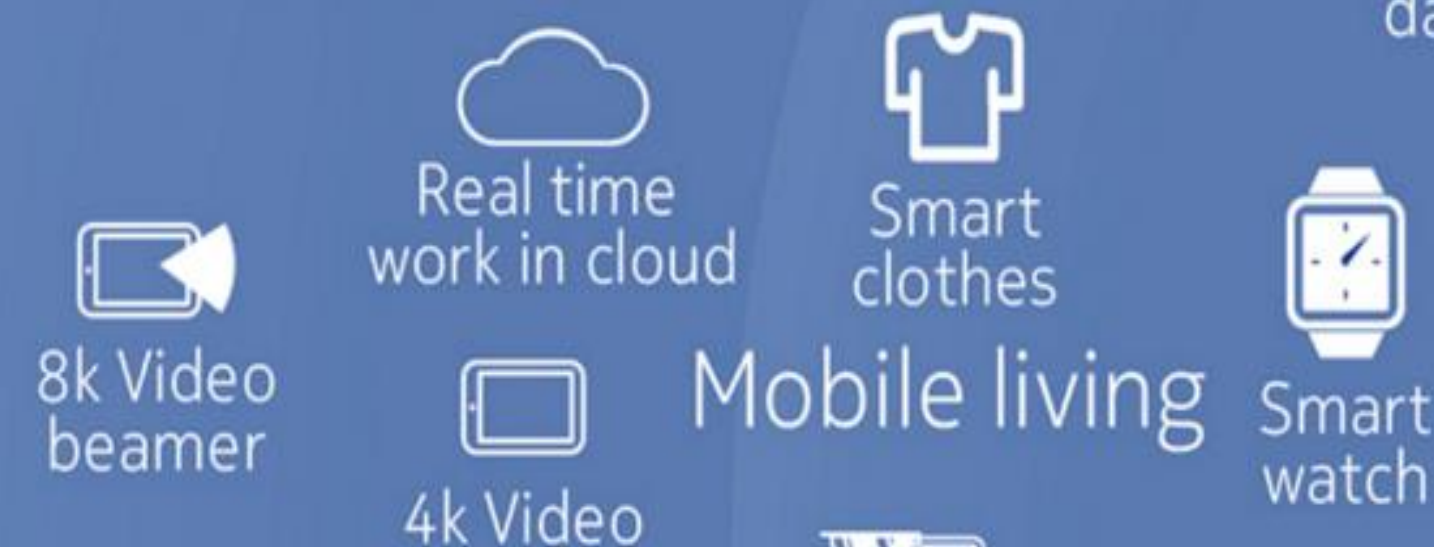
AUGMENTED

REDEDICATED

REVOLUTIONIZED

DIGITAL TECHNOLOGIES ENABLE NEW SOLUTIONS

INTERCONNECTED

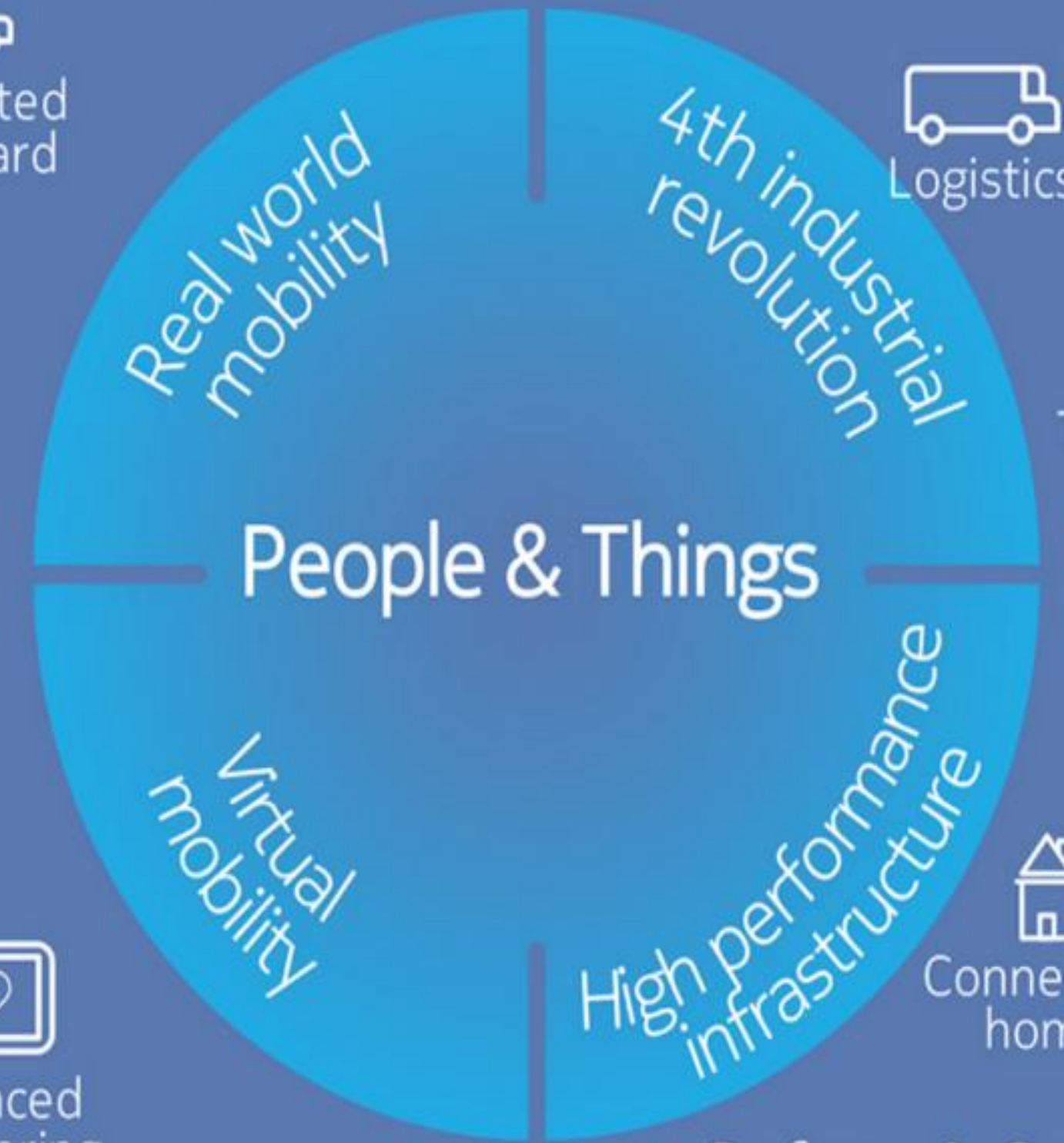


VIRTUAL



TACTILE

OMNIPRESENT

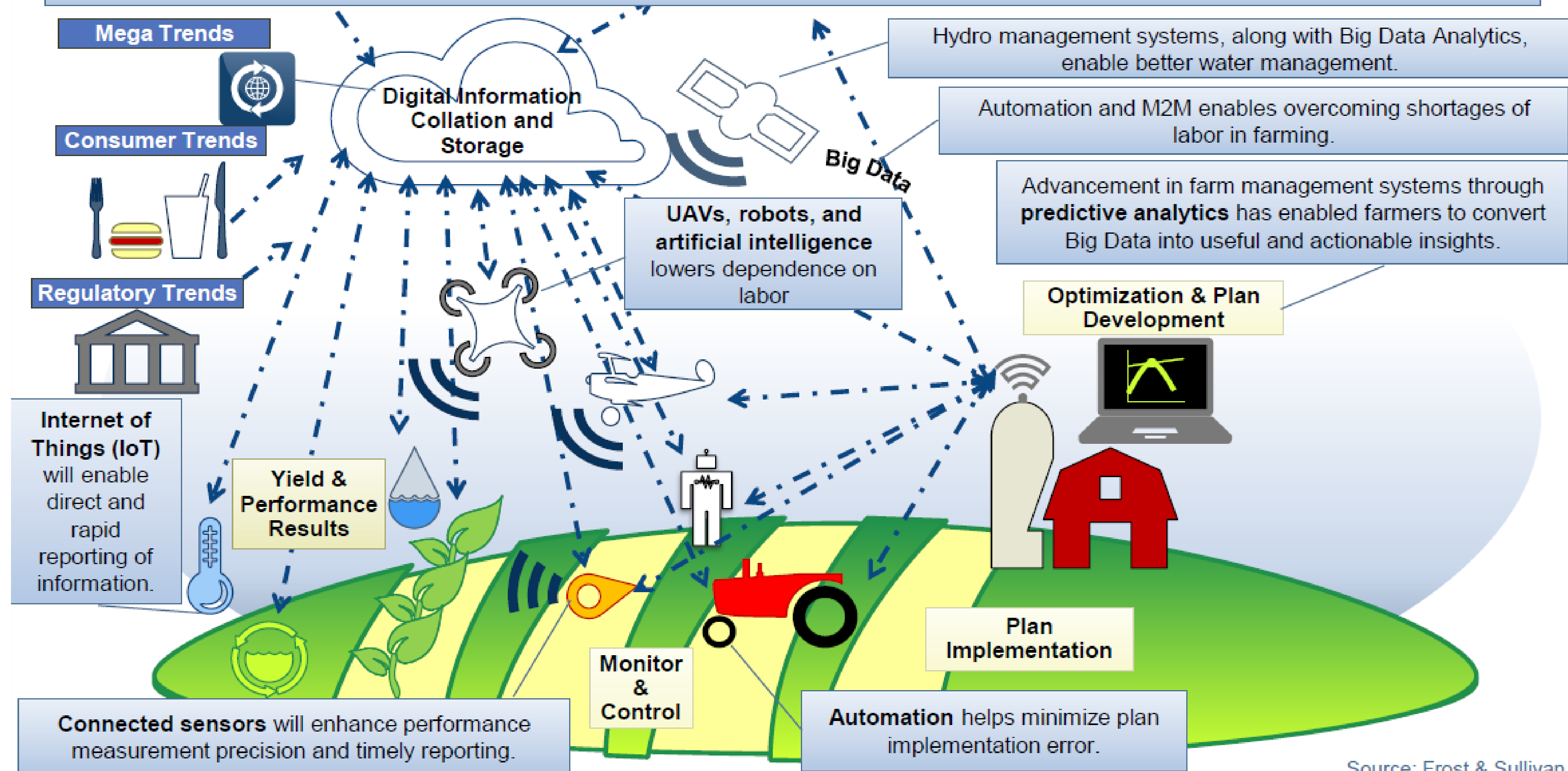


SUPEREFFICIENT



Key Takeaway: Enabling technologies that address the challenges faced by farmers in the most cost-effective way possible will be in demand.

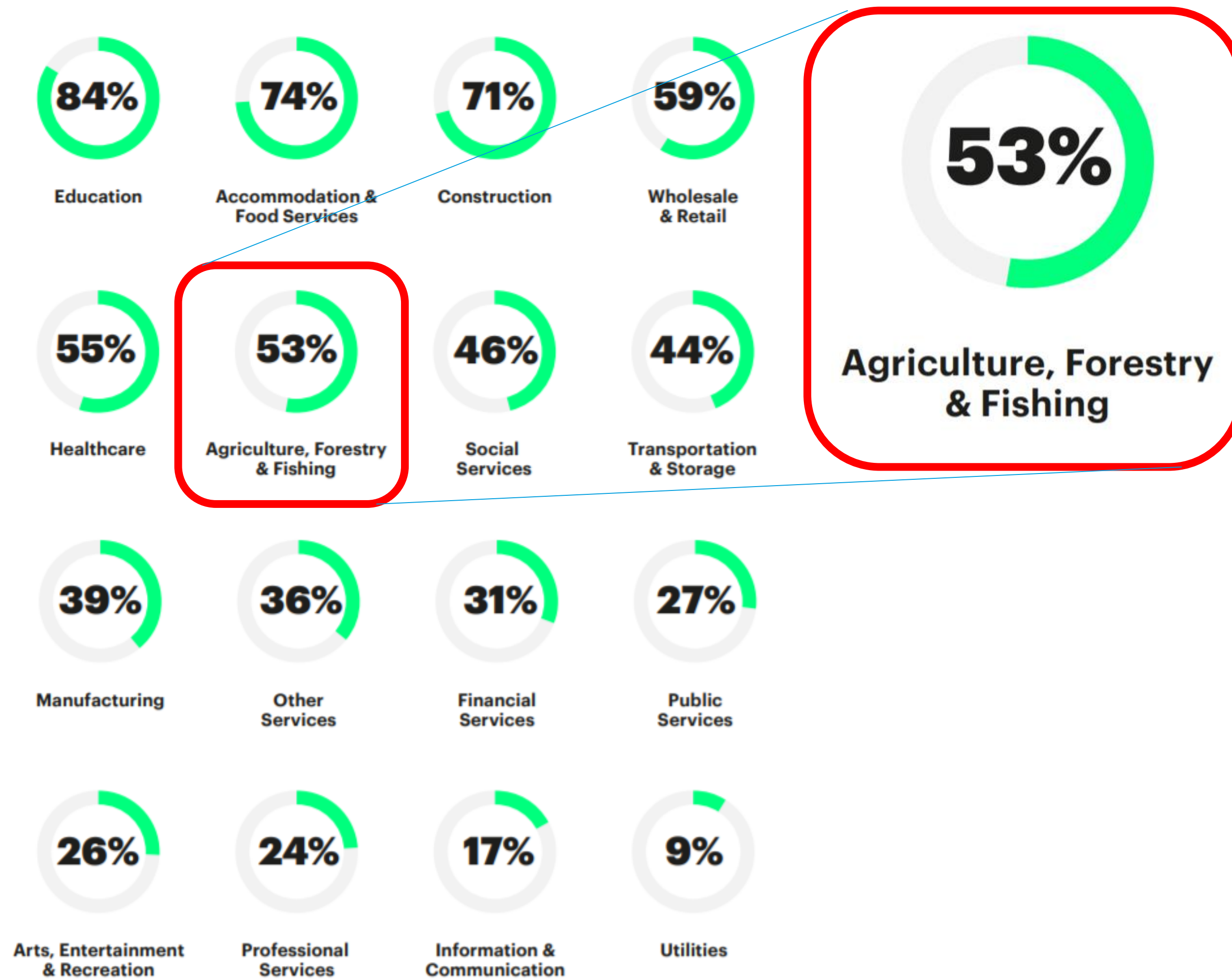
Cloud has significantly lowered cost of information collation and storage and increased ease of use with appropriate farm management software.



Source: Frost & Sullivan

Figure 6. The impact of AI on profits by industry

Share-of-profit increase per industry between baseline in 2035 and AI steady state in 2035 (%)



HOW AI BOOSTS INDUSTRY PROFITS AND INNOVATION

By Mark Purdy and Paul Daugherty

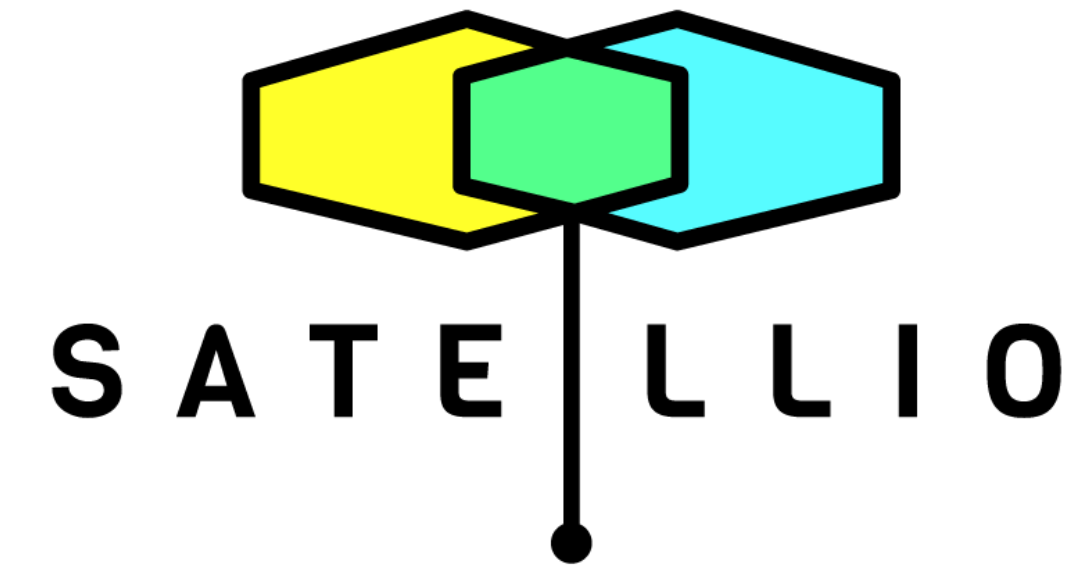
THE VALUE OF AI TO INDUSTRY

SATELLIO STUDIES HEAVY SNOW FOREST DAMAGES BASED ON A SATELLITE DATA

Satellio has signed two agreements to analyze the heavy snow (“tykkylumi”) damages in Finland.

Tykkylumi has caused extensive forest damage, especially for young pine trees in East-Finland. Most of the damages happened between December 2017 and January 2018. In the projects, Satellio works to analyse the extent and location of the damages.

Satellio uses satellite imagery interpretation and automated satellite data processing chains, as well as forest damage notifications and field measurements to verify the project results.





Lund University Research Magazine



DIGITAL SOLUTIONS TO MINIMIZE FOOD WASTE


We can reduce food waste by getting more information about how the food is handled in the chain.

Digital sensors in the products' transport packages – what are referred to as “intelligent return boxes” – send information about the status of the product to all the actors in the chain.

With intelligent return boxes, we achieve a visible and open supply chain that can lead to reduced food waste.

*Editorial*

Blockchain with Artificial Intelligence to Efficiently Manage Water Use under Climate Change

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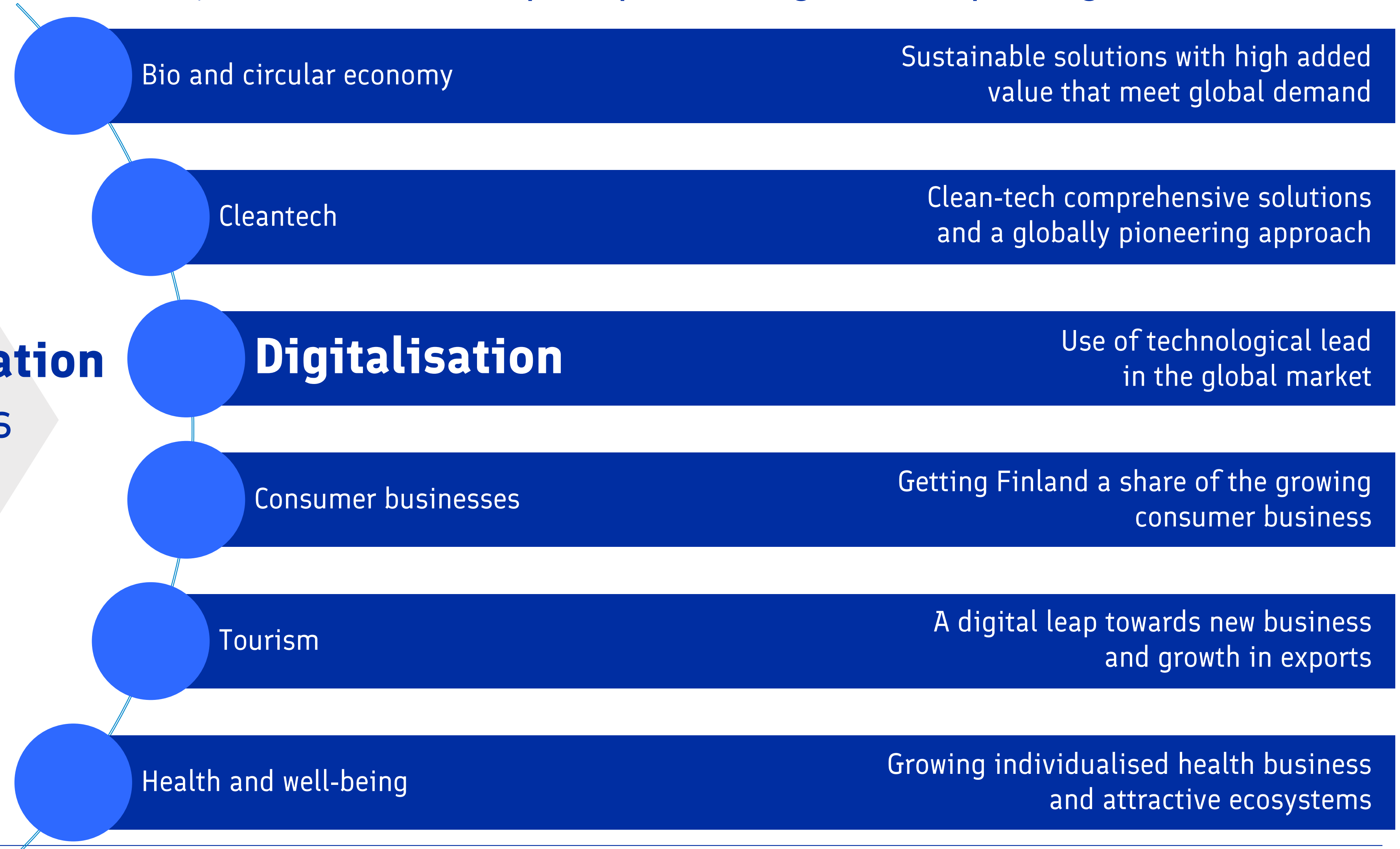
DIGITALISATION BUSINESS FINLAND

THEMES AND GOALS

Towards joint innovation, invest-in and export-promoting service packages *

Cross-cutting

- **Digital transformation**
- Developing markets
- New value creation
- Arctic dimension



DIGITALISATION STRATEGY

SUB-THEMES/ PROGRAMS

TRUST
NEW SPACE

CONNECTIVITY
&
INT. INDUSTRIES

AI
SMART MOBILITY

PLATFORM ECONOMY

PROGRAM PORTFOLIO

GOALS

SAFE

CONNECTED

INTELLIGENT

CONVENIENT

GOAL IS TO MAKE THE WORLD

KNOW-HOW

FINNISH KNOW HOW-BASE

AI

IOT

CONNECTIVITY

SECURITY

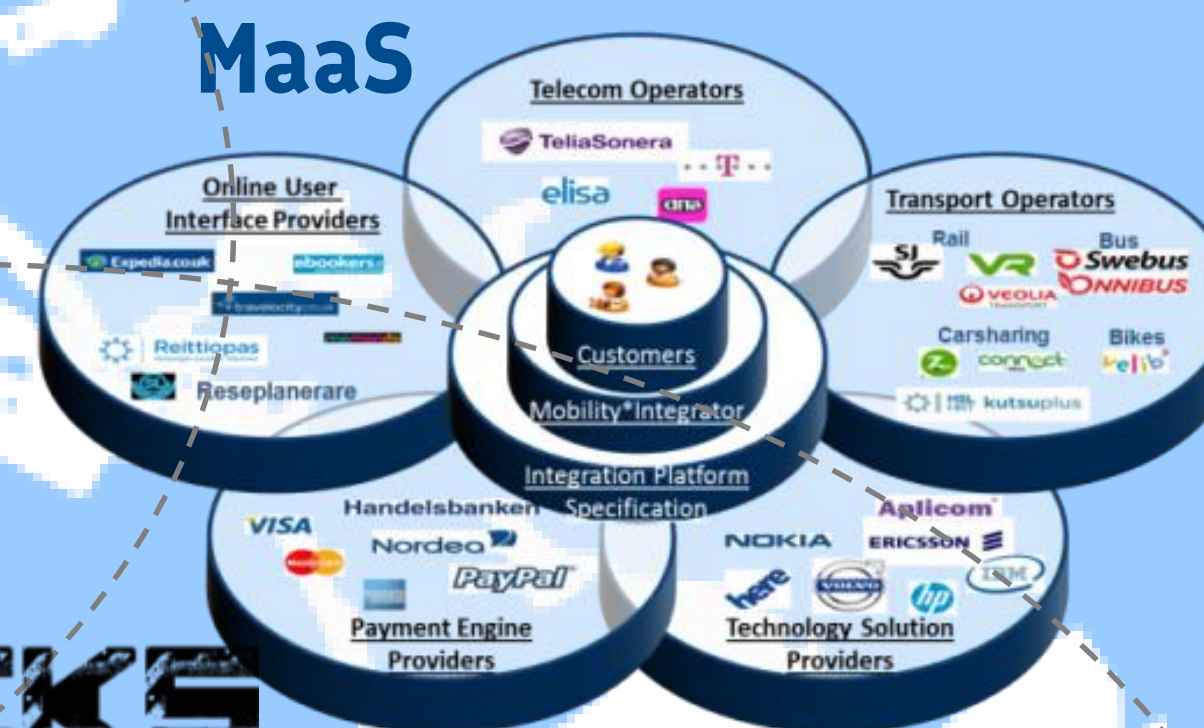
AR & VR & MR

Ecosystems



Startups

Testbeds




5G Test Network Finland

Smart Energy


Team
FINLAND
BUSINESS
FINLAND

FROM INNOVATIONS TO INVESTMENTS IN FINLAND: 5GTNF → 5G MOMENTUM → 5GDELTA

Towards



and beyond:



5GTN+ 5GTN+ provides a scalable environment for developing and testing of key 5G technology components and related support functions as well as future business models and services.	CORNET CORNET develops a powerful test platform where the Quality of Service of critical communications in commercial radio networks as well as the operability of movable temporary radio networks can be tested in a real-life environment.
TAKE-5 TAKE-5 targets the creation of a multidisciplinary and open research platform for investigation and experimental evaluation of innovative ideas in networking and services of 5G.	WIVE WIVE will develop future radio technology and study its application for verticals by setting up use cases, scenarios and requirements for the technology as well as via testing.

www.5GTNF.fi


Innovations



Momentum

<https://www.viestintavirasto.fi/en/spectrum/5gmomentumecosystem.html>

Pilots



5GDELTA

www.5gdelta.com

Investments



KIITOS THANK YOU

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