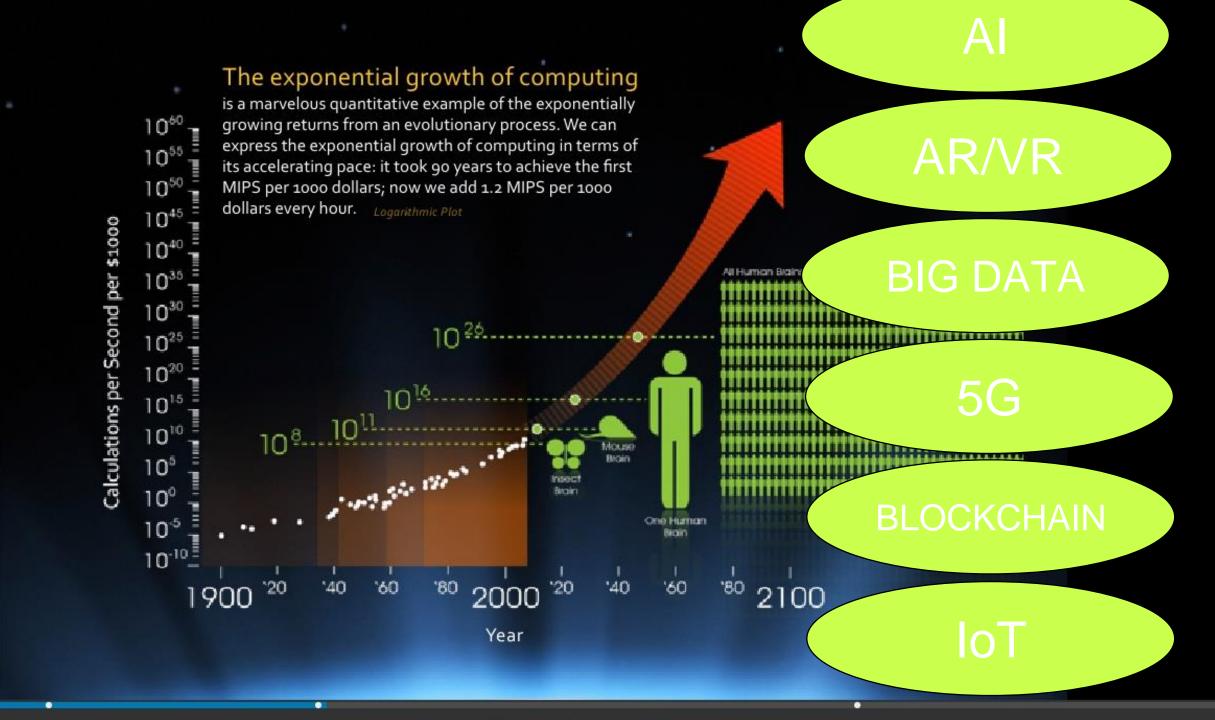
Unleashing Powers Digital Transformation for Travel and beyond

Pekka Sivonen

Executive Director, Digital Transformation of Finnish Industries



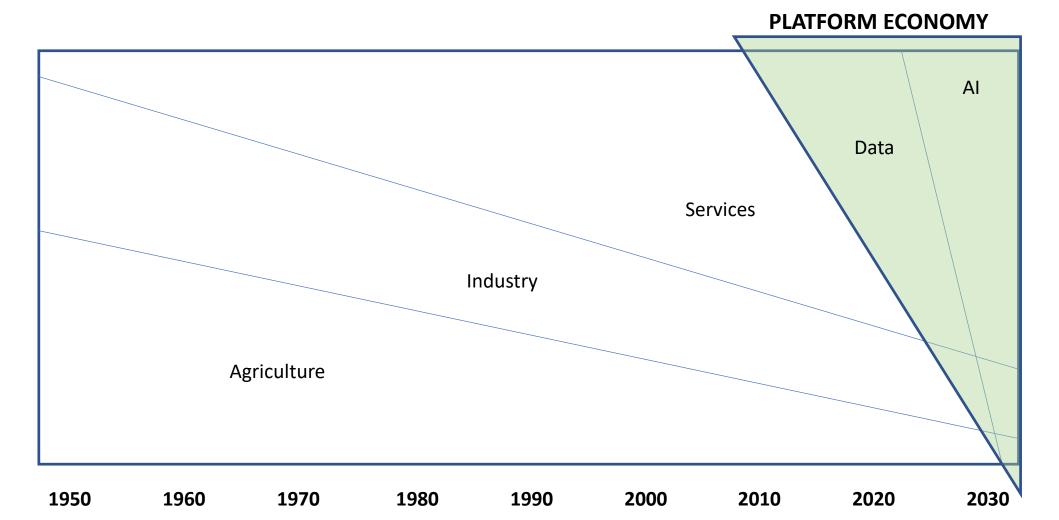
DIGITAL TRANSFORMATION

WORLD ECONOMY 80 TRILLION USD EUROPE 4% OF TOP 50 PLATFORMS

"We estimate that digitalization could deliver around \$200 trillion USD in value to business and society over the next decade

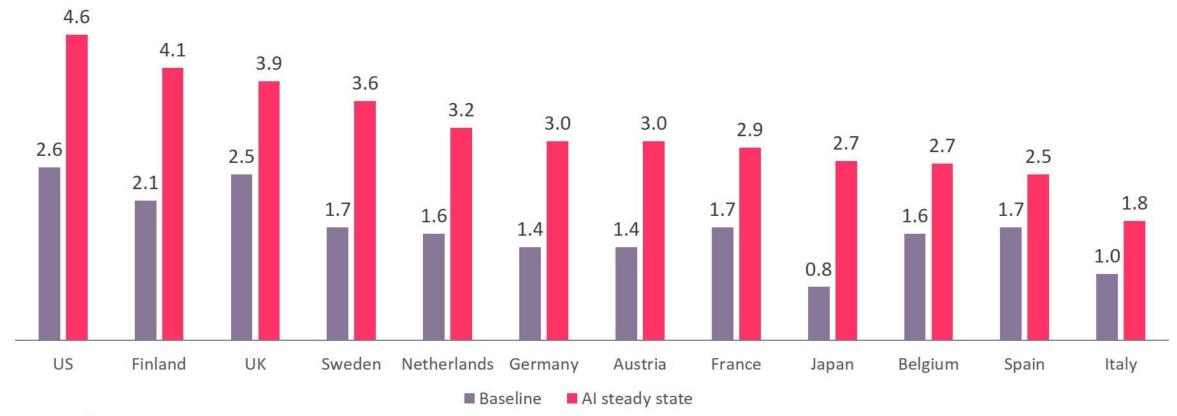
WORLD ECONOMIC FORUM DIGITAL TRANSFORMATION INITIATIVE MAY 2018

The changing structure of the Finnish national economy



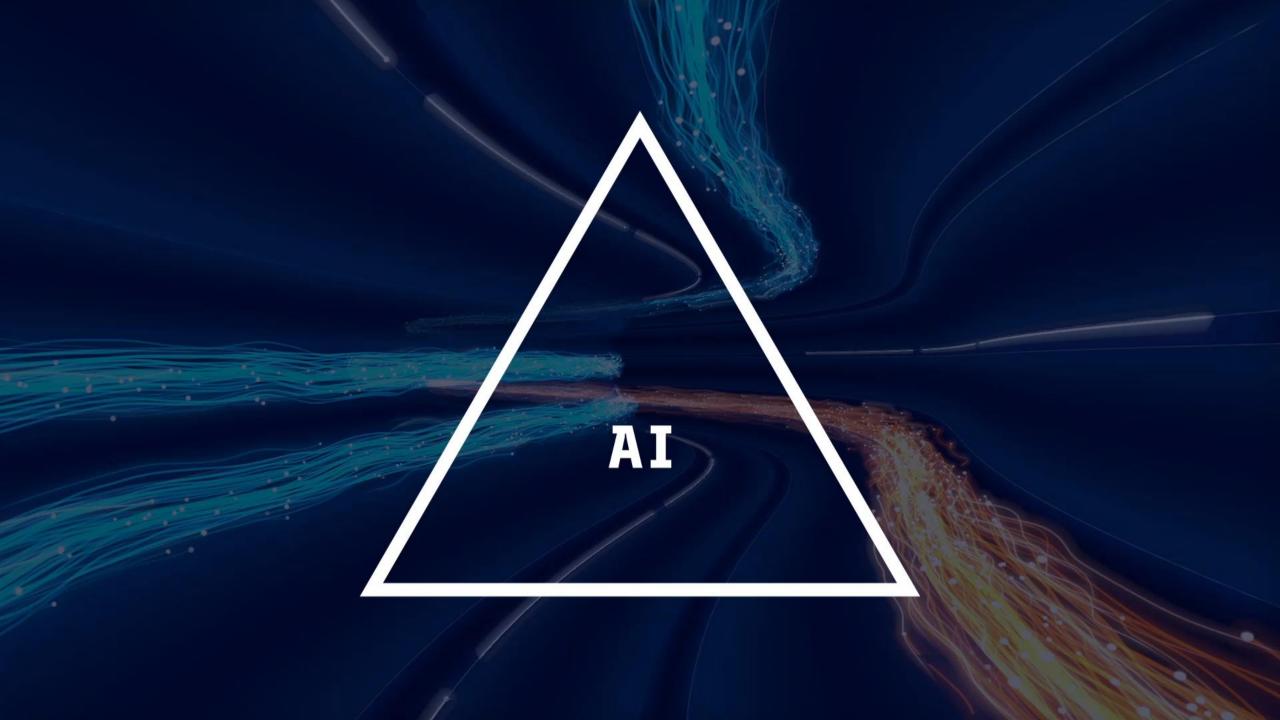
Quru

FINLAND WITH AND WITHOUT ARTIFICIAL INTELLIGENCE



Source: Accenture and Frontier Economics

BUSINESS FINLAND Annual growth rates by 2035 of gross value added (a close approximation of GDP), comparing baseline growth by 2035 to an artificial intelligence scenario where AI has been absorbed into the economy



Big D: Digital Transformation

"Digital transformation is the integration of digital technology into all areas of a business, fundamentally changing how you operate and deliver value to customers. It's also a cultural change that requires

FROM DIGITALISATION TO DIGITAL TRANSFORMATION

The platform landscape consists of *White Sharks*, Swordfish, and Piranhas

Platform economics in nutshell



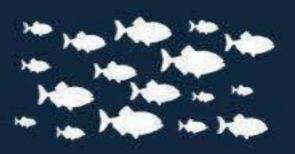


Alibaba Group

- At the top of the food chain -

- (Very few) digital economy leaders
- Wide, diverse product portfolio
- Gigantic assets





Digital Swordfish (airbnb UBER NETFLIX zalando

- Big, fast, rarely get eaten -
- > (Few) big industry shaping players
- Deep, vertical specific products
- Already near peak growth

Digital Piranhas **Bla Bla Car** SHazaM WARBY PARKER SoFi See houzz 😳 slack

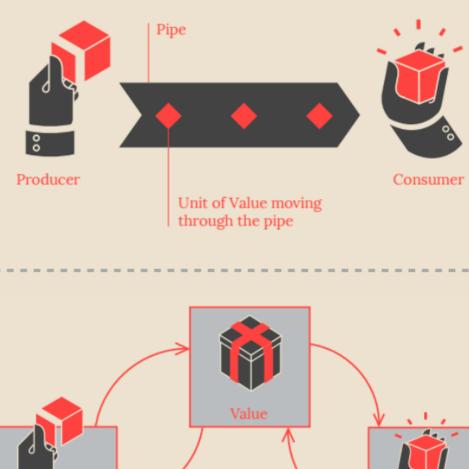
- Small but aggressive for prey -
- > (Many) product specific players
- Huge, product centric competition
- > Peak growth not yet reached

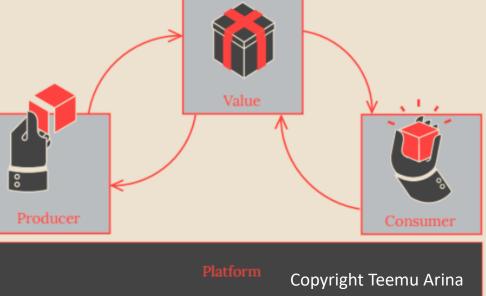


PIPES vs. PLATFORMS

- 1. The ecosystem is the new warehouse & supply chain
- 2. The network effect is the new economy of scale
- 3. Data is the new currency
- 4. Community management is the new customer service
- 5. Curation and reputation are the new quality control
- 6. User experiences are the new sales funnels
- 7. Distribution is the new destination
- 8. Engagement is the new loyalty program
- 9. Data science is the new process optimization

10. Algorithms are the new decision makers

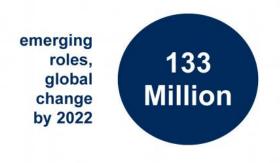








The Jobs Landscape in 2022



declining roles, global change by 2022



Top 10 Emerging

- 1. Data Analysts and Scientists
- 2. Al and Machine Learning Specialists
- 3. General and Operations Managers
- 4. Software and Applications Developers and Analysts
- 5. Sales and Marketing Professionals
- 6. Big Data Specialists
- 7. Digital Transformation Specialists
- 8. New Technology Specialists
- 9. Organisational Development Specialists 10. Information Technology Services

Top 10 Declining

- 1. Data Entry Clerks
- 2. Accounting, Bookkeeping and Payroll Clerks
- 3. Administrative and Executive Secretaries
- 4. Assembly and Factory Workers
- 5. Client Information and Customer Service Workers
- 6. Business Services and Administration Managers
- 7. Accountants and Auditors
- 8. Material-Recording and Stock-Keeping Clerks
- 9. General and Operations Managers
- 10. Postal Service Clerks

Digital Transformation Powered by Platform Economy

is More Fundametal Than Digitalisation

FROM DIGITALISATION TO DIGITAL TRANSFORMATION







Al in Travel Industry

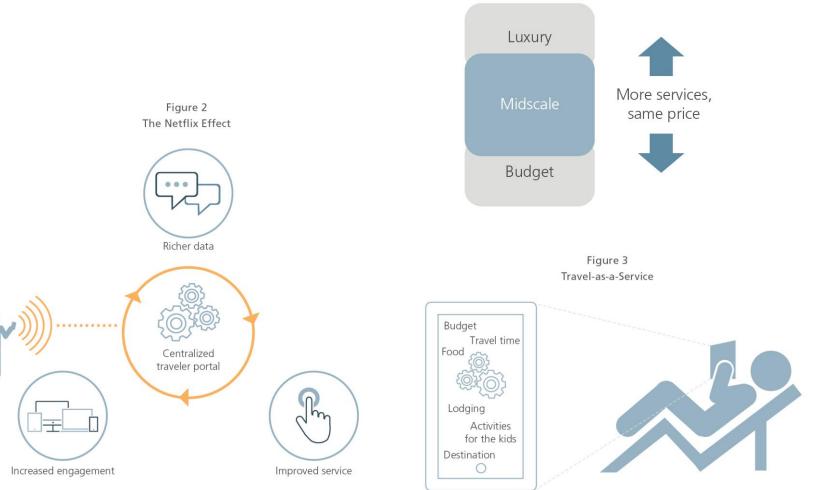


Figure 1 The Goldilocks Opportunity

Post-AI travel value proposition

Finnair and Silo.AI improve situational awareness of air traffic with artificial intelligence

Finnair and the artificial intelligence company Silo.AI built a machine learning artificial intelligence tool that enables the airline to predict possible disruptions to air traffic more accurately. In Finland, this unprecedented solution can for example be used to assess the impact of weather on the punctuality of flights, so that preparations for irregularities can be done in advance.

Flight punctuality is one of the biggest factors that affect customer satisfaction, and weather is one of the biggest factors affecting the punctuality of air travel globally. With artificial intelligence solution, Finnair will be able to better prepare for exceptional circumstances caused by weather and plan actions to minimize the impact on customers well in advance.

Finnair already uses AI in Customer Care, IT Systems Monitoring, Operations

"We tested the artificial intelligence solution in the pilot phase last winter and the results were encouraging," says **Juha Karstunen**, digital transformation lead at Finnair. "The goal is to implement the solution as part of a broader technical reform later this year. We are also developing other intelligent solutions to support decision-making. Exceptional weather conditions are common in air travel, and our goal is always to minimize their impact on our customers' travel plans."





MR=AR/VR/XR



Value Proposition of Augmented Reality



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Intuitive

Users get an interactive interface on their devices and get contextual information based on real world view, providing a "What You See Is What You Get" UI that is userfriendly



Convenient

 \odot

There is no need to get extra hardware for existing devices. If your device runs the latest operating system, has enough space, and comes with a camera, you are good to go



Entertainment

Augmented Reality is a new and exciting technology that excites most users. Its game-like and futuristic look add entertainment value to applications which utilizes this technology



AR



AR



Visit Finland







Mixing Actual/Augmented/Virtual Reality

VOLVO VALI

Charting the Course of Google Maps

Google Maps, where are they going?



April: Google Maps launches in the UK.

July: Google Maps launches in Japan.

2005

2004

Where 2 Technologies,

block for Google Maps,

2003

which became a building

was founded in Australia.

September: Google acquires ZipDash, a company providing

real-time traffic analysis. October: Google acquires Where 2 Technologies, converting it into

Google buys Keyhole, a small satellite-image firm based in Silicon Valley.

a web application.

February: Google Maps displays buildings and subway stops in NYC, Washington, D.C., London, and other cities.

Google traffic info officially launches, displaying real-time traffic-flow conditions for 30 major U.S. cities.

May: Google Street View launches in five U.S. cities.

Google Maps allows users to search by neighborhood.

September: Google Maps adds 54 countries in Latin America and Asia.

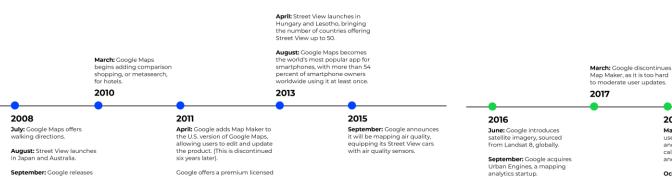
November: Google Maps adds Terrain feature, showing basic topographic elements.

2007



July: Google Maps starts to include local business listings, including hotels and restaurants.

December: Google Maps allows users to add multiple destinations in driving directions.



service for companies using

Google Maps.

February: Using augmented reality, Google Maps unveils a feature that enables people using walking directions to figure out where they are and what direction to head toward.

May: Google Maps tests a Your Match feature, calculating how likely the user will appreciate the business/restaurant recommendation.

2019

2018

May: Google Maps updates the Explore tab, now showing users a personalized list of local bars, restaurants, activities, and events. Google Maps rolls out Your Match feature, calculating how likely you may be to enjoy a venue and why

October: Google Maps introduces star ratings for bars and restaurants.

Google Maps adds Commute tab with real-time access to traffic and transit information. The Android app features notifications about delays.

December: Google Maps adds the For You tab on iOS and Android, allowing users to "follow" neighborhoods and places they like, and receive recommendations.

Google allows users to see nearby bikes and Lime scooters, starting in several U.S. cities.

Sources: Wikipedia, Recode, Blumenthals, Google Maps blog



September: Google releases

Google Maps for Android and iOS devices

