DIMECC

Fostering Industry Digitalization in Finland
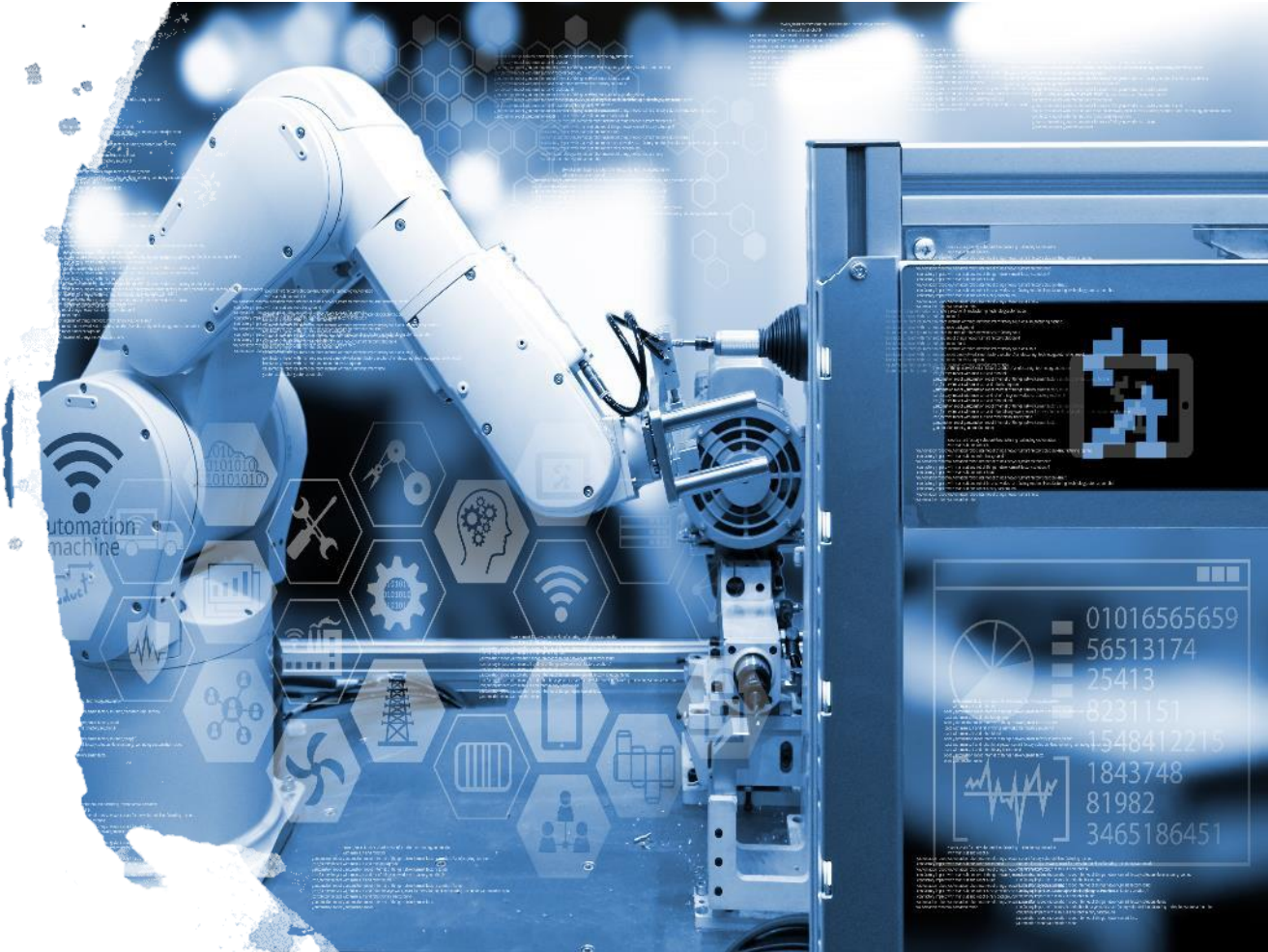
Essi Huttu
Vice President, Co-creation, DIMECC
30.11.2018

DIMECC

What is DIMECC?

DIMECC - The leading co-creation platform for digital transformations

ACTIVITIES:

- Open innovation projects, programs and ecosystems

- Networks to open up new markets and businesses

- Co-creation services

DIMECC IN NUMBERS:

- 2.000+ R&D&I professionals

- 400+ organizations

- 69 shareholders

- 10+ co-creation facilitators

View on digitalization trends in Finland

Digitalization trends in Finnish industry – DIMECC's view

DRIVERS

- Connectivity
- Sensors
- VR/AR
- Industrial Cloud
- Edge Intelligence
- Big Data
- Advanced Analytics
- Personalization
- Sustainability

GROWT OPPORTUNITIES

Value-based Services
- Real-time monitoring of assets and operations
- Shift towards services and service-based offerings
- Pay per use
- XaaS

Connected Factories
- A fully connected and flexible system, using a constant stream of data from operations and production systems to learn and adapt to new demands
- Agile, flexible, modular production processes

Connected Supply Chains
- A dynamic value network
- A range of data from different stakeholders available to each other in real-time.
- Real-time network visibility and demand
- Situational awareness
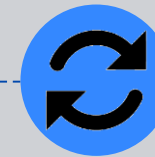
Circular Economy
- Sustainable production process
- Social innovation as a source of value

FOCUS AREAS

- Intelligent share and use of data
- Cyber Security
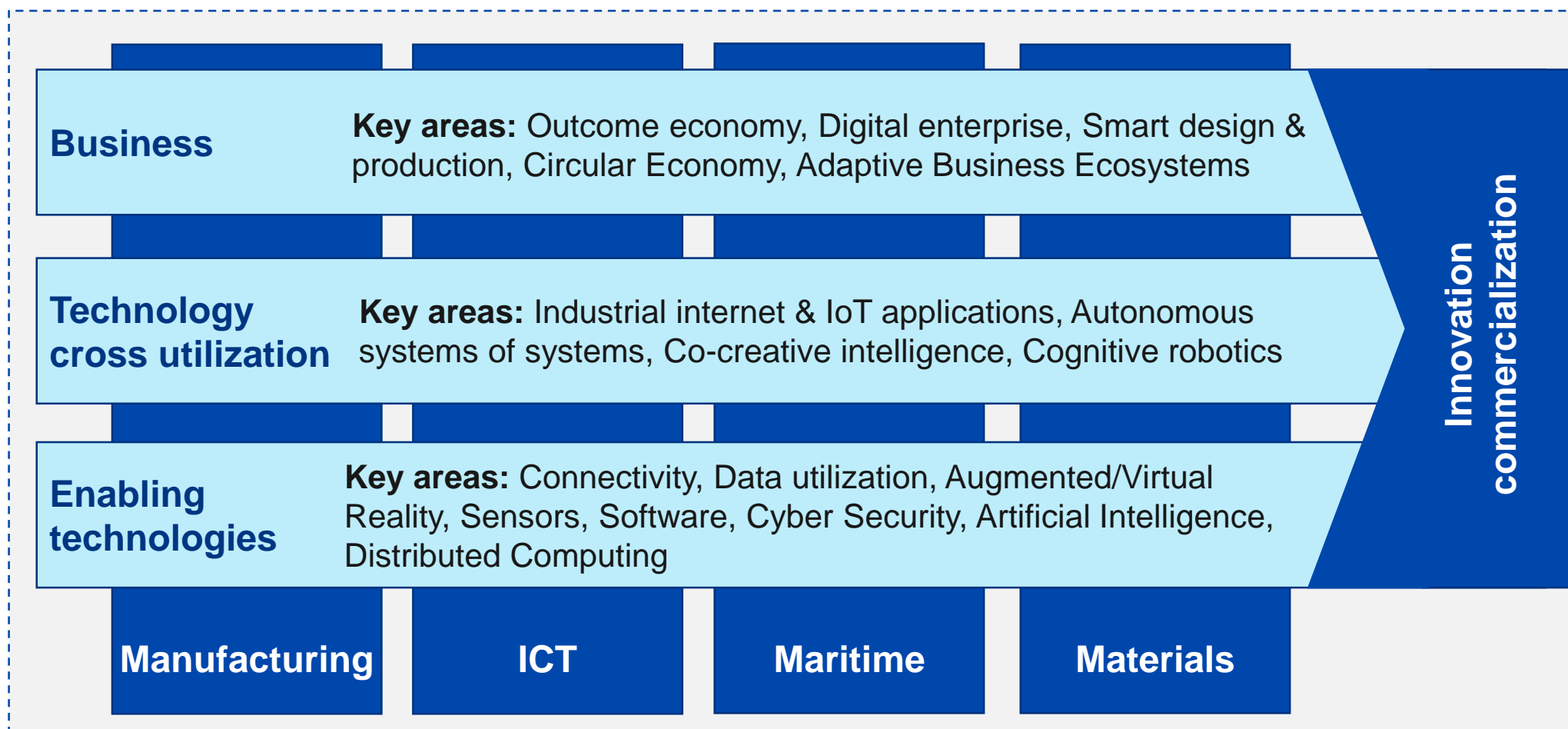- Adaptive Business Ecosystems
- Transparent value chain
- Autonomous Systems
- Sustainable production

DIMECC's Focus Areas

Business

Key areas: Outcome economy, Digital enterprise, Smart design & production, Circular Economy, Adaptive Business Ecosystems

Technology cross utilization

Key areas: Industrial internet & IoT applications, Autonomous systems of systems, Co-creative intelligence, Cognitive robotics

Enabling technologies

Key areas: Connectivity, Data utilization, Augmented/Virtual Reality, Sensors, Software, Cyber Security, Artificial Intelligence, Distributed Computing

Innovation commercialization

| Manufacturing | ICT | Maritime | Materials |

DIMECC

Collaboration is a key to success

In the digital age companies need to develop their innovation ecosystems

COMPANY NEWS:

Whole Foods Market® and Instacart partner to offer one-hour delivery across 15 major U.S. cities

Whole Foods Market to be first national Instacart partner to offer both delivery and convenient in-store pickup; customers have chance to win prizes and free groceries for a year

OTTO

The first delivery by self-driving truck, by Otto and Budweiser.

EARLY ACCESS   WATCH VIDEO

Precision agriculture
John Deere and AGCO are beginning connect not only farm machinery but irrigation systems and soil and nutrient sources with information on weather, crop prices and commoditys futures to manage connected farm

FEATURED

JANUARY 5, 2016 / 11:04 AM / 3 YEARS AGO

BUSINESS NEWS

GM invests $500 million in Lyft, sets out self-driving car partnership

5 MIN READ

Steve Trousdale

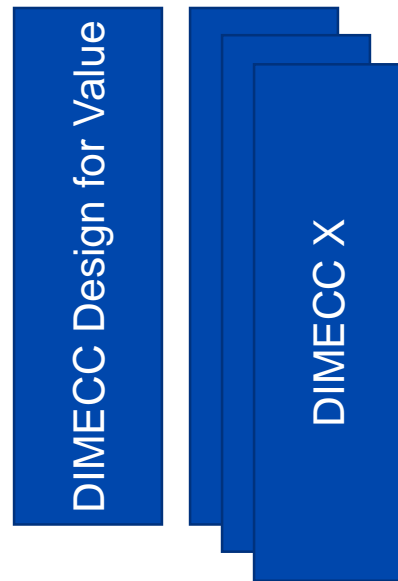IBM, Maersk Reveal Blockchain Solution for Global Supply Chain

Maersk, Alibaba roll out ocean cargo booking partnership

Global container shipping line Maersk and China-based e-commerce services provider Alibaba have partnered up on an endeavor which will enable ocean shippers to book space on Maersk vessels through Alibaba's booking service, called OneTouch, according to a Reuters report.

DIMECC drives development through ecosystems – Mission driven co-creation in 4 domains

DIMECC Design for Value

DIMECC X

DIMECC InDEx

DIMECC LiFEX

DIMECC Cyber Security

DIMECC FLEX

ONE SEA
Autonomous maritime ecosystem

INTELLIGENT INDUSTRY
Turning digital into practical
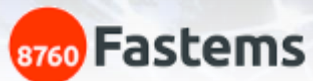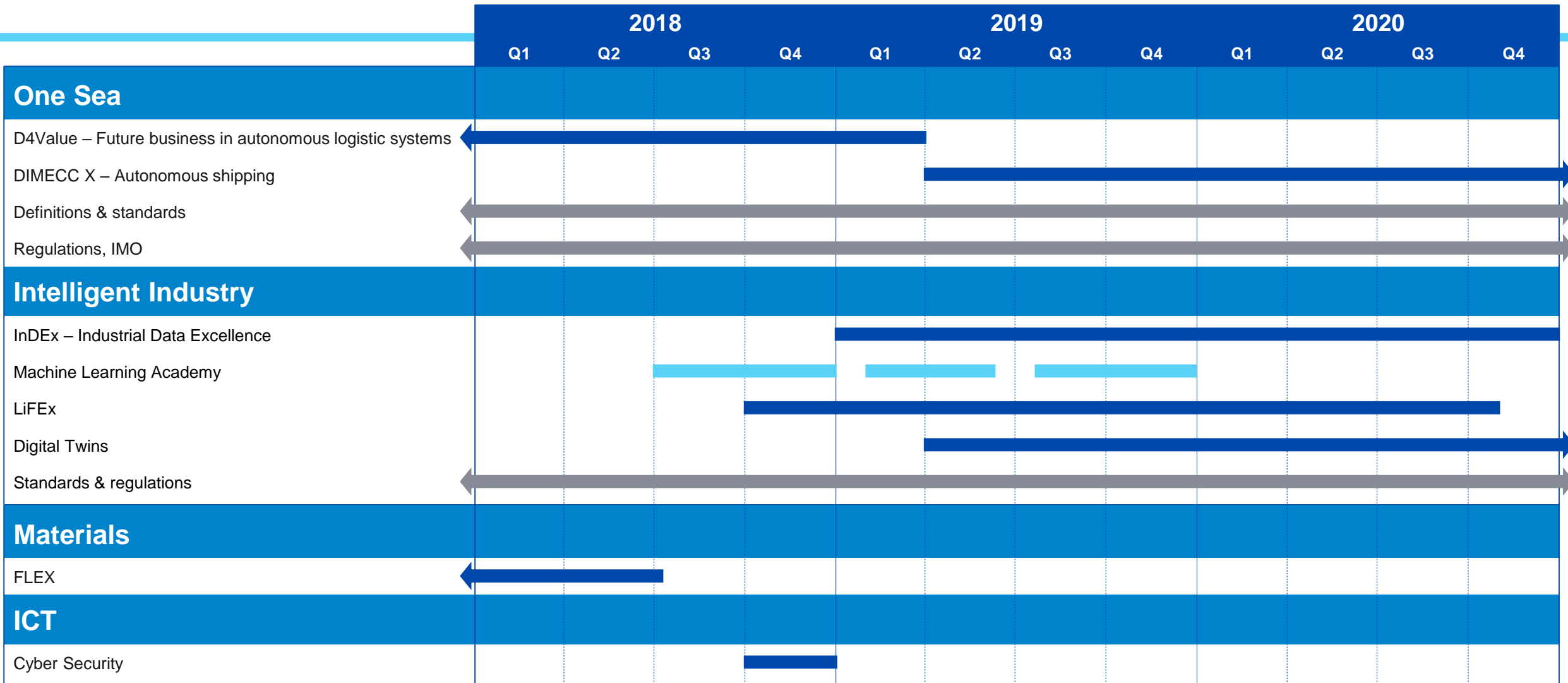
ICT

Materials

DIMECC Innovation platform: Cross-industrial, cross-disciplinary, cross-organizational facilitation

One Sea ecosystem

Finland aims to operate world's first autonomous ship system in 2025
https://oneseaecosystem.net/

Image © Rolls-Royce

DIMECC

Digital transformation requires many different expertise

Business understanding
- Hardware
- Fundamentals of business and operations

Digital skills
- Analytics (AI & ML)
- Cyber security
- Software development

Design new business
- Design thinking, UX, Digital Experience
- Designers, Business developers

Detect Innovation
- Schools & students
- Start-ups
- Incubators

Finance new business
- VCs
- Investment funds
- Development capital

Collaboration is needed as these are seldom found under one roof

DIMECC's tools for driving digitalization through collaboration

PoDoCo
Post Docs in Companies

MPD MANUFACTURING PERFORMANCE DAYS

Long-term competitiveness!

DEMOLA

FINNISH INDUSTRIAL INTERNET FORUM

DIMECC Programs & Projects

DIMECC Co-creation DEMOBOOSTER

Risk

New Business
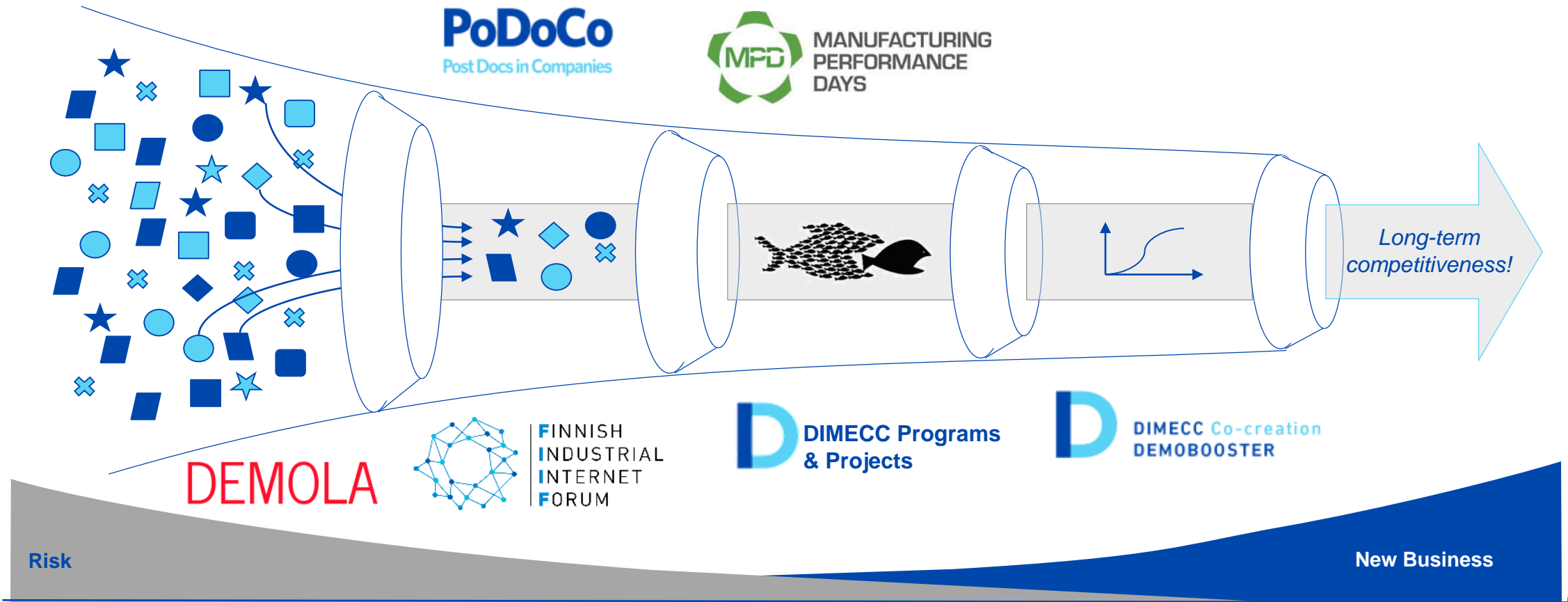
Foresight – Sensing and investigating provocative futures
- Foresight into rising and emerging phenomena
- Identify industry trends, global forces of change shaping the future
- Discovering new opportunities
- Close operation with stakeholders

Insight – Investing in things that matter
- Sense making to inspire strategy
- Focus on the most critical research items based on the industrial long-term potential

Action – Mission driven co-creation to get there early
- Accelerate and maximize the impact through effective collaboration
- Right competences and resources
- Sharing of risks and costs

Acceleration - Maximising the impact
- Rapid pilots & tests
- Building networks & new partnerships
- Results commercialization
- Go to the market
- Business scaling