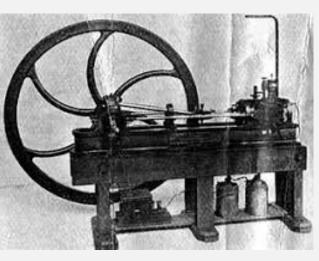




# THE WORLD OF MANUFACTURING IS CHANGING FASTER AND FASTER...









## INDUSTRY 1.0 18TH CENTURY

- STEAM POWER
- MECHANICAL PRODUCTION

#### INDUSTRY 2.0 19TH CENTURY

- ELECTRIFICATION
- MASS PRODUCTION
- THE ASSEMBLY LINE

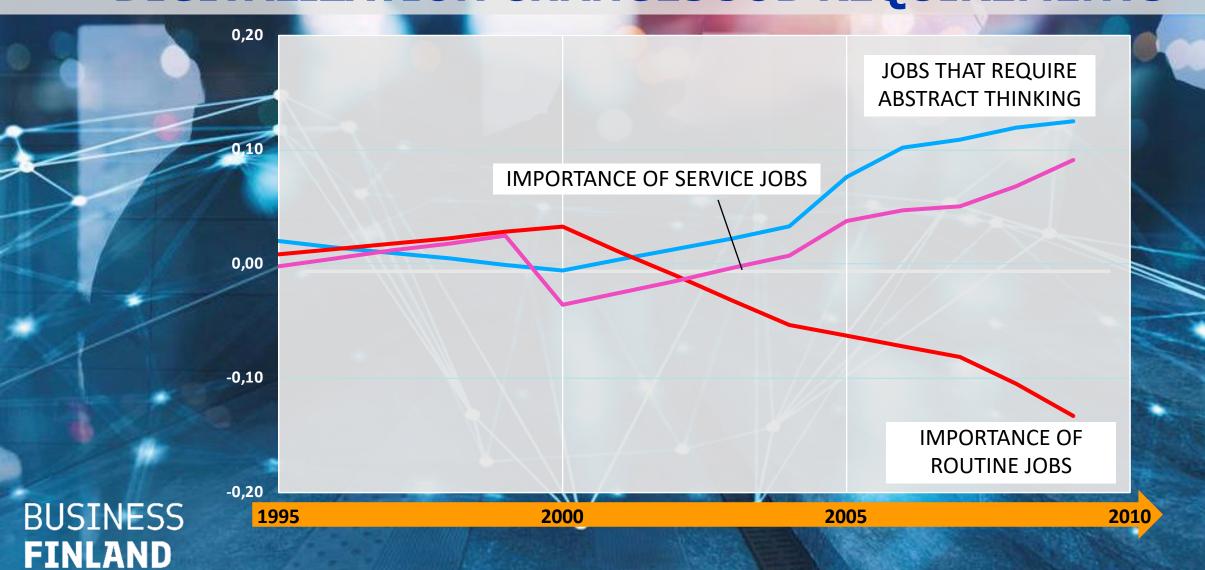
## INDUSTRY 3.0 MID 20TH CENTURY

- ICTS
- ELECTRONICS
- AUTOMATED & NETWORKED PRODUCTION

## INDUSTRY 4.0 TODAY →

- ADVANCED ROBOTICS
- 3D PRINTING
- INTERNET OF THINGS
- AI
- BIG DATA
- SMART MANUFACTURING

### **DIGITALIZATION CHANGES JOB REQUIREMENTS**





#### BUSINESS **FINLAND**

### **SAVING THE WORLD IS GOOD BUSINESS**













BF programs open new business opportunities and speed up solutions to the challenges of sustainable development.

SDGs indicate promising markets.

8 DECENT WORK AND ECONOMIC GROWTH

**SMART HEALTH AND WELLBEING** 

**Smart Life** 

**Personalized** Health

> "Healthy and full of life at the age of 100"

**DIGITAL** 

**SMART AND CLEAN ENERGY** 

**Smart Energy** 

**Batteries from Finland** 

> "Clean energy without waste"

**AI Business Connected Intelligent Industries** 

**SMART INDUSTRY** 

**SUSTAINABLE MANUFACTURING** 

> "A renaissance for industry iobs"

**SMART AND SUSTAINABLE** COMMUNITIES

**Smart Mobility** 

"From forest to the sea"

> "Smooth and safe transportation"

**Digital Trust New Space Economy**  **CIRCULAR ECONOMY AND RESPONSIBLE** CONSUMPTION

**Bio and Circular** 

**Food from Finland** 

**Experience Commerce** 

> "Zero carbon emissions"

**TRANSFORMATION** 

**New Value Creation Developing Markets** 

> **Talent Boost Travel**

**GAME CHANGERS** 

**ATTRACTIVE COUNTRY BRAND**  "Finland becomes number one travel destination in the Nordics"



13 CLIMATE

## WE MAKE STRATEGIC CHOICES

Programs and Focus Areas in the Bio, Circular and Cleantech Sector









DIGITALIZATION
BIGDATA
IOT
AI
5G
BLOCKCHAIN
BUSINESS
MODELS

SMART AND FLEXIBLE MANUFACTURING

SUSTAINABLE MANUFACTURING FINLAND SMART ENERGY

SMART ENERGY FINLAND

BATTERIES FINLAND

SMART LOW CARBON MOBILITY AND LOGISTICS

> SMART MOBILITY

LED BY DIGI THEME

SMART BIO- JA MULTI-LIFE PRODUCTS

BIO- AND CIRCULAR FINLAND



#### **OBJECTIVE:**

#### FINLAND IS A GLOBAL SUPERPOWER OF SMART, SUSTAINABLE MANUFACTURING

INCREASED COMPETITIVENESS, MORE HIGH VALUE EXPORTS, LARGER CARBON HANDPRINT

# NEW ERA OF INDUSTRIAL COLLABORATION

6-10 new distruptive manufacturing industry ecosystems

6-10 international level pilots and demonstrations

50 ecosystem/test bed related SME projects per year

#### SMARTEST MANUFACTURING SECTOR

Enabling manufacturing sector transformation through digitalization

Networked Pilot projects (5 per year)

Activate SMEs to participate in EU projects

# MOST WANTED CLEANTECH OFFERING

Challenge SMEs to internationalize their business and go global

Create competitive joint offerings for global cleantech market

Challenge large enterprises to create offerings to global markets with SMEs

# GLOBAL HUB OF MANUFACTURING EXCELLENCE

Attract investments by international companies, facilitate culture of domestic industrial investment

Attract skilled labour, experts, researchers and students to Finland

Develop practices for technology and knowledge transfer from key international hubs.

## BUSINESS FINLAND SERVICES FOR COMPANIES

#### **FUNDING**

We provide innovation funding for smart and sustainable solutions in manufacturing.

#### **NETWORKS**

We help you find the right contacts and business networks in smart manufacturing.

## DEVELOP AND RENEW

Our expert team helps you create the perfect pitch, business model or marketing strategy.

## IDENTIFY OPPORTUNITIES

We help you identify and test international market opportunities for smart manufacturing solutions.

### GO GLOBAL & SCALE UP

The experts in our global network help you conquer new markets. We provide advise, contacts and market research.



## FINLAND DEFINING THE FUTURE

Together we make Finland an attractive and competitive environment for innovation – a place where world class success stories are created