

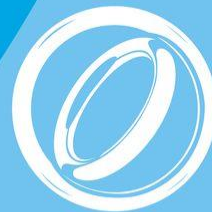
COMPETE  
2020

INNO  
PROVEMENT  
Interreg Europe

# Industry 4.0 | Policy instruments for the digital transition of companies

3rd Transnational Thematic Meeting | November 2019

pedro.cilinio@iapmei.pt



IAPMEI  
Parcerias para o Crescimento

# IAPMEI | Partnerships for Growth



- **Agency from the Ministry of Economy**
- **Mission:** To create favorable conditions for the development and strengthening of competitiveness and business innovation.
- **Areas of activity:**
  - information, intermediation and facilitation;
  - Support for the diagnosis of performance in various fields;
  - Training;
  - Entrepreneurship promotion and support;
  - **Investment promotion** (Grants/Repayable assistance)
  - **Financing** (Financial Instruments through subsidiaries/intermediaries).

# Promotion of business investment in IAPMEI



NORTE2020

CENTRO2020

Lisb@2020

ALENTEJO  
2020

CRESC  
ALGARVE  
2020

**+ 2,7 bi €**  
in Grants

**+ 1.4 bi €**  
Grants paid

**+ 45.000**  
Jobs to be created



**+ 6,7 bi €**  
of Investment  
portfolio

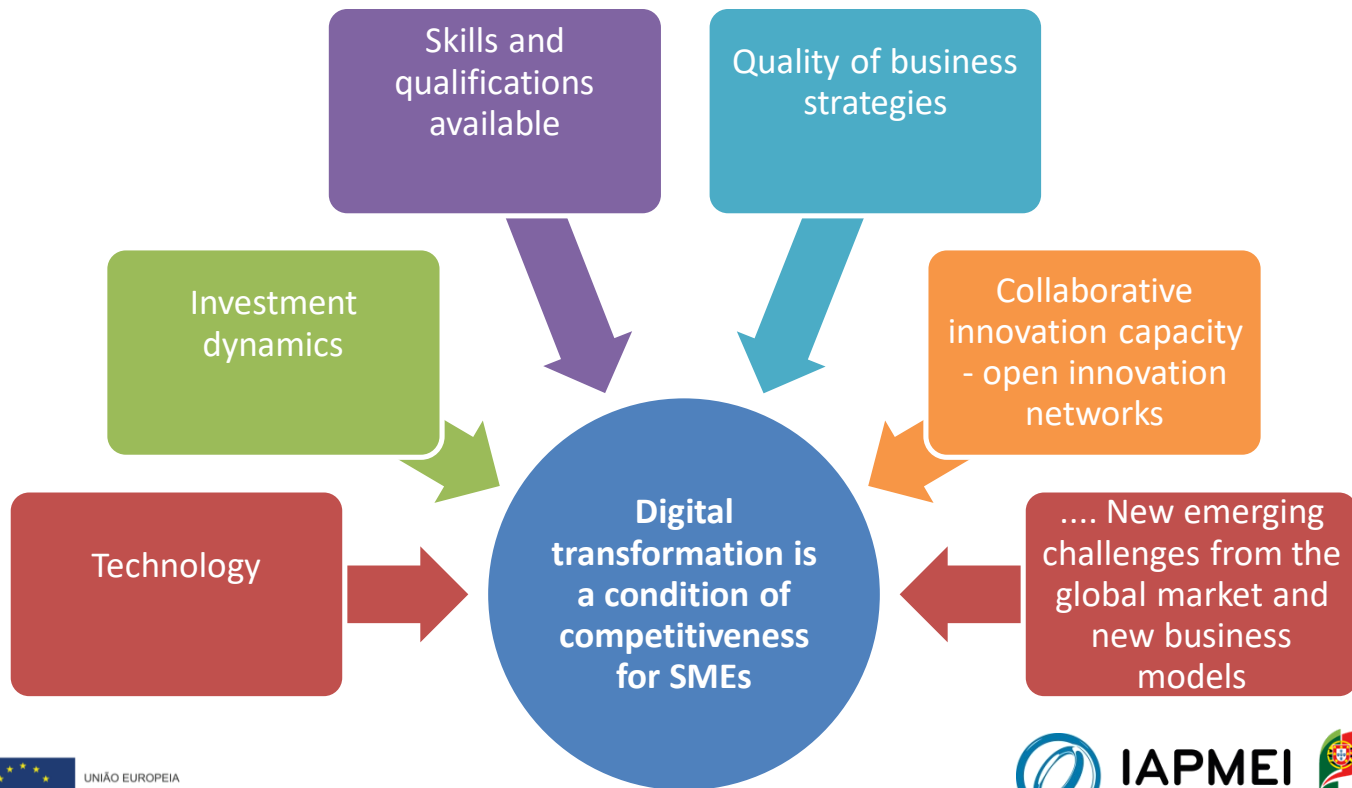
**+7.000**  
Project portfolio

**+ 8,8 bi €**  
Expected exports  
increase

IAPMEI accounts for **51,2%** of incentives (grants and repayable assistance) and **56,1%** of executed funds

# Industry 4.0 and the challenges for SMEs

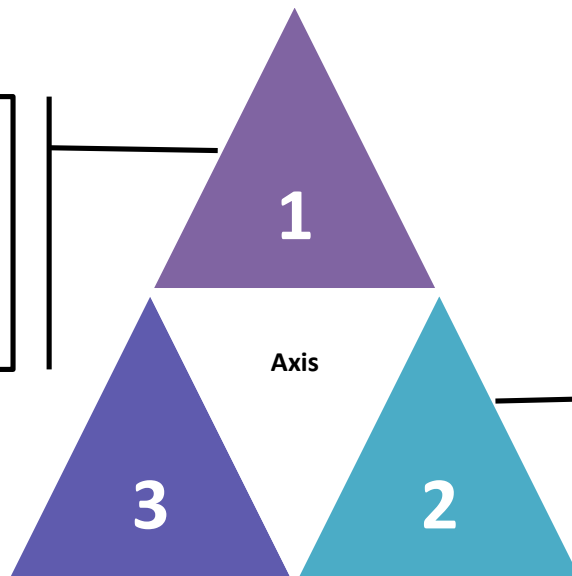
The paradigm shift is irreversible and is accelerating



# Industry 4.0 Phase II

## Disseminate i4.0

Boost knowledge sharing experiences and benefits as a way to stimulate the massive transition to i4.0



## Skills i4.0

Tailor people's knowledge in order to enable companies to transition to industry 4.0 and ensuring that it is done inclusively and based on qualified employment

## Assimilate i4.0

Promote, facilitate and finance business access to the experimentation of i4.0 methods and technologies, as well as support their scale-up and transition i4.0

# Disseminate i4.0 – Shift i4.0 self assessment tool

[shift4.isq.pt](http://shift4.isq.pt)



The **SHiFTto4.0** tool is the result of collaboration between ISQ, IAPMEI, INCoDe.2030, University of Aveiro, University of Minho and Polytechnic Institute of Leiria and aims to provide an online tool, to evaluate the maturity of Portuguese companies in Industry 4.0, helping them to identify critical areas of intervention and outline action plans, investment and financing strategies.



Cofinanciado por:



# Disseminate i4.0 – Shift i4.0 self assessment tool

The logo for the SHIFT project, featuring the word "SHIFT" in a bold, sans-serif font. The letter "H" is blue, and the letter "i" is black with a blue dot. The letters "S", "I", "F", and "T" are black.

SHIFT TO 4.0

**2<sup>nd</sup> phase: scale up**

**Start:** January 2019 | **End:** December 2019

**Entities:** 10 (CATIM, CEIIA, CTCV; IAPMEI, IPLeiria; ISQ; Mobinov; Prodeq; Aveiro University and Minho University)

**Nr. Companies (Pilot Sample):** 103 (the majority SME)

1. Definition of the scale-up model
2. Broad dissemination of results.
3. Development of a best practice manual to help companies respond to industry failures 4.0
4. Creation of a network of consultants / trainers in i4.0

# Disseminate i4.0 - [Open Days](#)

18 Open Days promoted by IAPMEI and COTEC, aim to demonstrate and to share experiences with other companies, on how companies can adopt Industry 4.0

[Kyaia](#) | Guimarães 19 May 2017

[Rioplele](#) | Famalicão 20 March 2018

[Embraer](#) | Évora 21 May 2018

[Porcelanas Costa Verde](#) | Vagos 24 May 2018

[Prifer](#) | Albergaria-a-Velha 28 June 2018

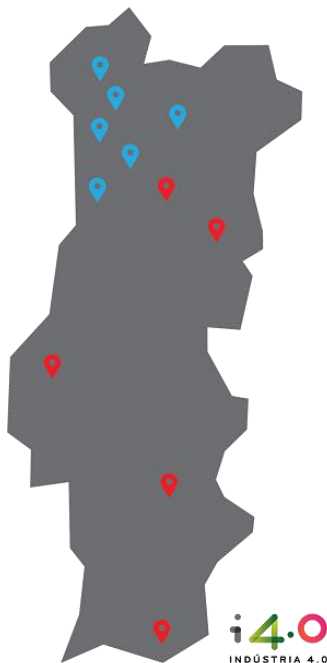
[Corticeira Amorim](#) | Mozelos 6 July 2018

[Movecho](#) | Nelas 12 September 2018

[Artnovion](#) | Paços de Ferreira 10 October 2018

[Hubel Verde](#) | Olhão 18 October 2018

[Solancis](#) | Alcobaca 20 November 2018



[Prirev](#) | Vagos 23 November 2018

[Frulact](#) | Covilhã 29 November 2018

[Blip](#) | Porto 31 January 2019



[Procalçado](#) | V. N. Gaia 28 February 2019

[Tintex](#) | Vila Nova de Cerveira 17 April 2019

[Renova](#) | Torres Novas 22 May 2019

[Jetclass](#) | Valongo 27 June 2019

[DRTRapid](#) | Leiria 16 October 2019

 Sessões organizadas pelo IAPMEI  
 Sessões organizadas pela Cotec



# Skills i4.0 - IAPMEI - Training actions i4.0

CAPACITAR  
i4.0



Integrates the national initiatives industry 4.0 and INCoDe.2030 and aims to qualify individuals and organizations to answer the challenges of the 4th industrial revolution.

- Conducting training actions on i4.0 themes for professionals (SME Academia)
- Training-Action Programs (SME Academy)

## EXAMPLES:

**SEMINARS OF CYBERSECURITY IN SME** - IAPMEI SME Academy in partnership with Cisco Systems Portugal: seminars on Cybersecurity in SMEs aiming is to inform managers and staff of SMEs about the risks of a cyberattack and its consequences.

**TRAINING-ACTION PROGRAM:** includes the preparation of a business diagnosis for the identification of priority areas and the elaboration of an action plan with the support of a consultant. Last call for proposals ended may 2019. Digital áreas included: **Digital economy; Implementation of management systems; Industry 4.0; Innovation and efficiency of production processes;**

# Assimilate i4.0 - Grants for industry 4.0

HOW DIGITALISATION IS BEING INCORPORATED IN THE DIFFERENT SECTORS OF THE ECONOMY (*NAMELY SMES*)

Voucher Industry 4.0

SME Qualification

Innovation and  
Entrepreneurship

**FINANCING** - Mobilization of European Structural and Investment Funds (PT2020) - for the awareness, adoption and massification of technologies associated with the Industry 4.0 concept (4 years)

- **Voucher i4.0** - intended to kickstart digital transformation.
- **PT 2020 – SI – Productive Innovation & Qualification of SMEs** – positive discrimination on final evaluation for projects under i4.0.

# Voucher Industry 4.0

Type	Elegibility	Grant
<p>Definition of a technological strategy aligned with the principles of Industry 4.0</p> <p>Beneficiaries: SMEs of any nature and in any legal form.</p>	<p><b>Consultancy for:</b></p> <p>Diagnosis and strategy for implementing processes associated with e-commerce</p> <p>Diagnosis and implementation strategy of other processes associated with Industry 4.0</p> <p>Technical, scientific and consulting assistance in areas of knowledge, for the implementation of the recommendations resulting from the diagnosis, which prove essential to the realization of the digital transformation strategy</p>	<p><b>Non-Refundable Incentive 75% with a limit of €7,500</b></p> <ul style="list-style-type: none"> <li>• <b>€2,500 for E-commerce implementation strategy</b></li> <li>• <b>5,000€ for Strategy for the implementation of other Industry 4.0 processes</b></li> </ul>

# SME Qualification

## Areas

Qualification of SMEs in:

- Organizational and management innovation;
- **Digital Economy and ICT;**
- Brands and design;
- PI protection;
- Quality;
- Knowledge transfer;
- Distribution and logistics;
- Eco-innovation;

## Eligible Investment

Non-productive equipment, software, industrial property protection and consultancy specialized in the areas of project intervention

## Financing

- **Non-Refundable**
- **40% in Lisbon**
- **45% remaining regions**

# Innovation and Entrepreneurship

## Typologies

- **Non-SME productive innovation (product or process innovation at national or international level)\***
- **Productive innovation SMEs (product innovation, process, organizational or marketing)**
- **Entrepreneurship in creative activities, medium-high technology/ knowledge intensity, origin in R&DT**

\* In Lisbon and Algarve only in favour of a new activity

## Investment Projects

**Tradable and international activities, aiming to:**

- **New establishment**
- **Increased capacity**
- **Diversification of production**
- **Fundamental change in the process**

**Eligible investment:**

- **Construction (industry or tourism)**
- **Productive equipment**
- **Technology transfer**
- **Engineering**

# O novo Sistema de Incentivos à Inovação do Portugal 2020

## Cofinancing

### Base rates:

15 % Non SMEs or SMEs with inv.  $\geq 15$ M€;

35 % Medium or 45 % Micro and Small

### Increases:

+ 10 pp low density regions

+ 10 pp (\*) i4.0, Circular Econ., Energy Trans.

+ 5 pp creation of qualified emp. in new units

+ 5 pp capitalization of SMEs (without repayable financing and with  $>25\%$  Equity)

+ 5 pp entrepreneurship, +10 pp young or female

**Top Up: 75% (40% in Lisbon, 60% in the Algarve)**

(\*) Not applicable to Non-SMEs and investments  $\geq 15$  M€

## Type of support

Non SMEs or investment  $\geq 15$ M€

100% Non-Repayable Grant

SMEs with inv.  $< 15$  M€

50% Non-Repayable Grant

Implies achieving objectives: Gross Value Added | Qualified employment | Turnover  
E.S.B maximum rates of the regional aid map 2014-2020 or, in Lisbon the Minimis

50% FI - Loan by Credit Institution with mutual guarantee support up to 80% (or Repayable Assistance when stated in the call for proposals)

2 years grace + 6 years repayment, no interest and mutual guarantee.

# Innovation – Industry 4.0 valuation



Increase in Cofinancing (+ 10pp)\*

Appreciation in Project Merit (+ 1 to 2 points in evaluation subcriteria A1, A2 and C3)

## Product innovation:

- Application of simulation or prototyping models using additive production,
- Connected or intelligent products and services,
- Product customization to customer needs
- Integration of information flows between the market (customer) and production;

## Process innovation

- Increased productivity and productive flexibility and logistics
- Through the use of autonomous, modular and connected systems
- Advanced data processing and analysis, predictive algorithms or artificial intelligence;

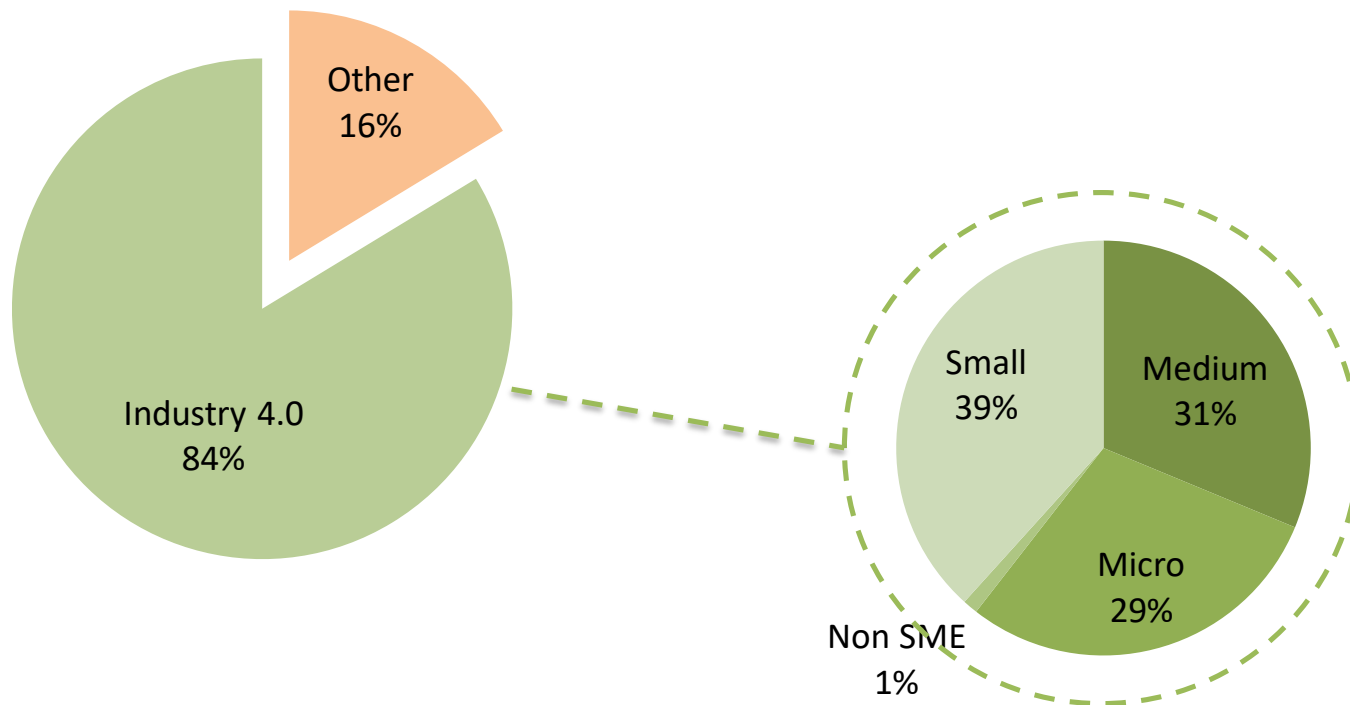
## Organizational or marketing innovation

- Organizational models supported in advanced data analysis systems or artificial intelligence,
- Adoption of new business models supported by knowledge sharing or economic practices and models supported in user communities or distributed value chains.

\* - applicable in the latest Calls

# Industry 4.0 Portugal 2020 Projects at IAPMEI

Since 2017





# Obrigado!

pedro.cilinio@iapmei.pt

## Contacts:

IAPMEI – Agência para a Competitividade e Inovação, I.P.

[www.iapmei.pt](http://www.iapmei.pt)

[info@iapmei.pt](mailto:info@iapmei.pt)

Linha Azul 808 201 201 | 213 836 237

IAPMEI



UNIÃO EUROPEIA  
Fundos Europeus  
Estruturais e de Investimento



**IAPMEI**  
Parcerias para o Crescimento



**REPÚBLICA  
PORTUGUESA**

ECONOMIA E TRANSIÇÃO DIGITAL