

Workshop «EU Energy Policy and Recent Efficiency Directive Developments»

Transizione5.0

November 5th, 2024



Workshop "EU Energy Policy and Recent Efficiency Directive Developments"



"Transizione5.0"

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REGIONE PUGLIA



Interreg

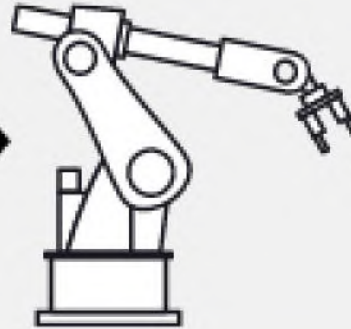
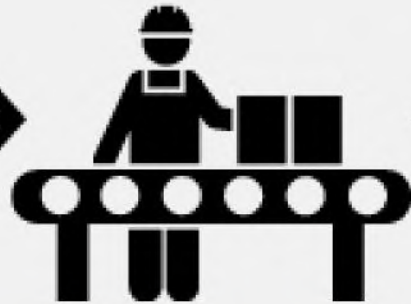
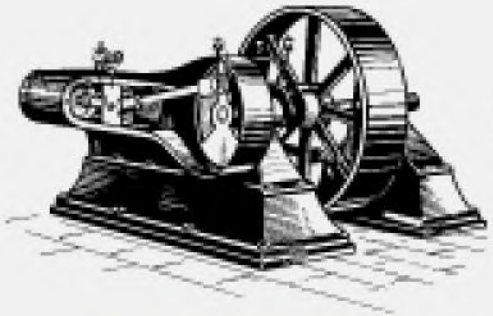


Co-funded by
the European Union

IPA South Adriatic

CLEAN

Industrial Revolutions



Industry 1.0

Industry 2.0

Industry 3.0

Industry 4.0

Industry 5.0

mechanization,
water and steam
powers

mass production,
electric power,
assembly line

computers,
automated
production,
electronics

cyber-physical
systems, IoT,
networking,
machine learning

human-robot
collaboration,
cognitive systems,
customization

1800

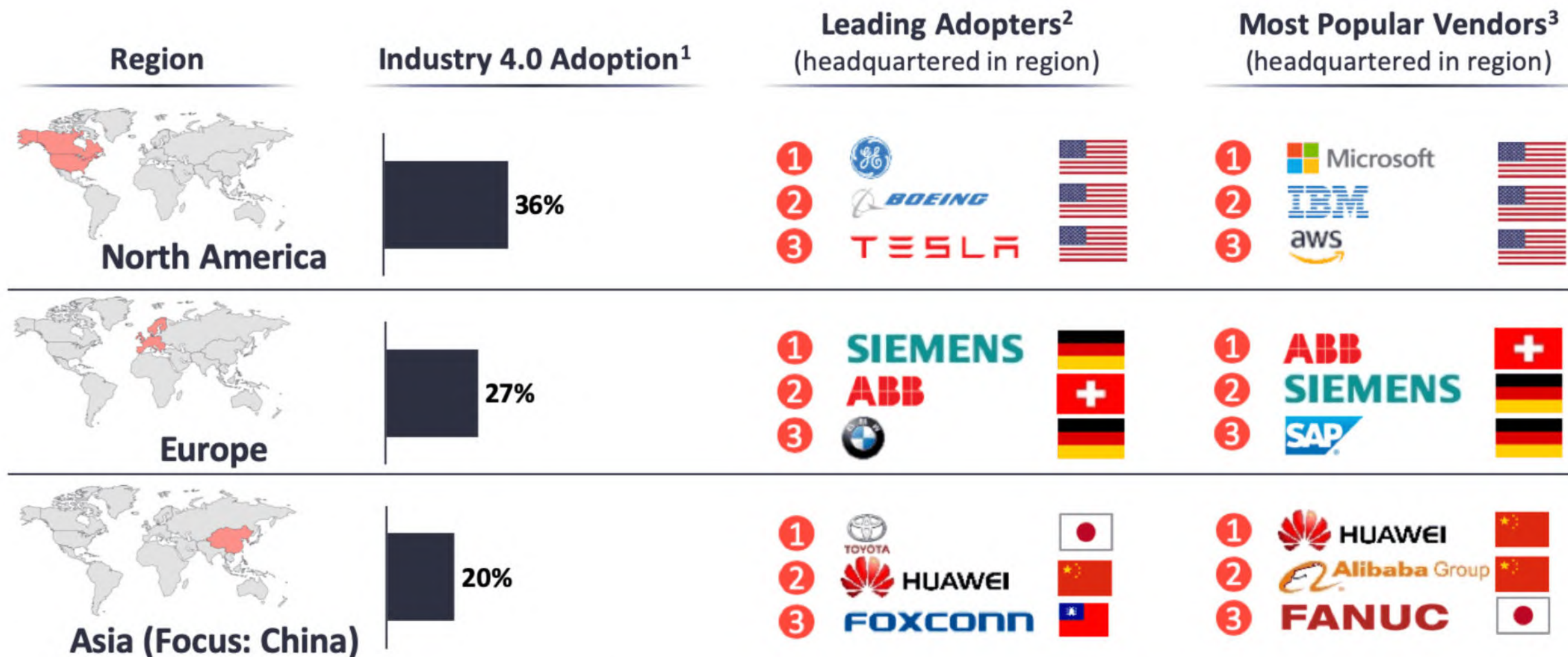
1900

2000

2010

2020

Industry 4.0 Global Market - 310B USD



1) Adoption percentages indicate how many respondents stated that each of 17 shortlisted technologies are either "fully rolled-out" or "extensively rolled-out" across their organizations today

2) Leading adopters are based on respondents' answers to the question: "Out of all manufacturing companies in the world that you are familiar with (in any sector), which ones do you regard as the best at deploy."

Industry 4.0 vs 5.0



**Industry
4.0**



human or machine



cyber-physical



target group



data analytics



iot / connected
devices

Labor

Systems

**Products
& Services**

**Supply
Chain**

**Results of
Networking**



human with machine



cognitive cyber-physical



individually personalized



responsive & distributed



greater customer
experiences

**Industry
5.0**

Industry 5.0 pillars and EU's approach



Human-centric



- General Data Protection Regulation (GDPR) protects the rights of individuals
- White Paper for AI regulation with 26 safeguards
- Digital Education Action Plan (2021-2027) outlines for education, training, re-skilling and up-skilling of workers

Sustainability



- EU has fully committed to deliver on the 2030 Agenda for the 17 Sustainable Development Goals (SDGs)
- R&D Horizon framework programs aim to support a new era of environmentally-sustainable economic growth

Resilience



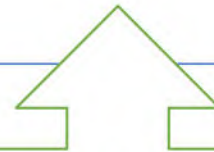
- Recovery and Resilience Facility program supports country reforms for a «new normal» (post-pandemic) investing in the green, digital and social resilience priorities.
- RRF (750 €B) is funded by Next Generation EU

REPowerEU 2022 => Transizione5.0 (IT)



To face the global energy market challenges caused by the Russian invasion of Ukraine, the EU Commission is implementing the REPowerEU plan (launched in 2022) which is helping the EU to:

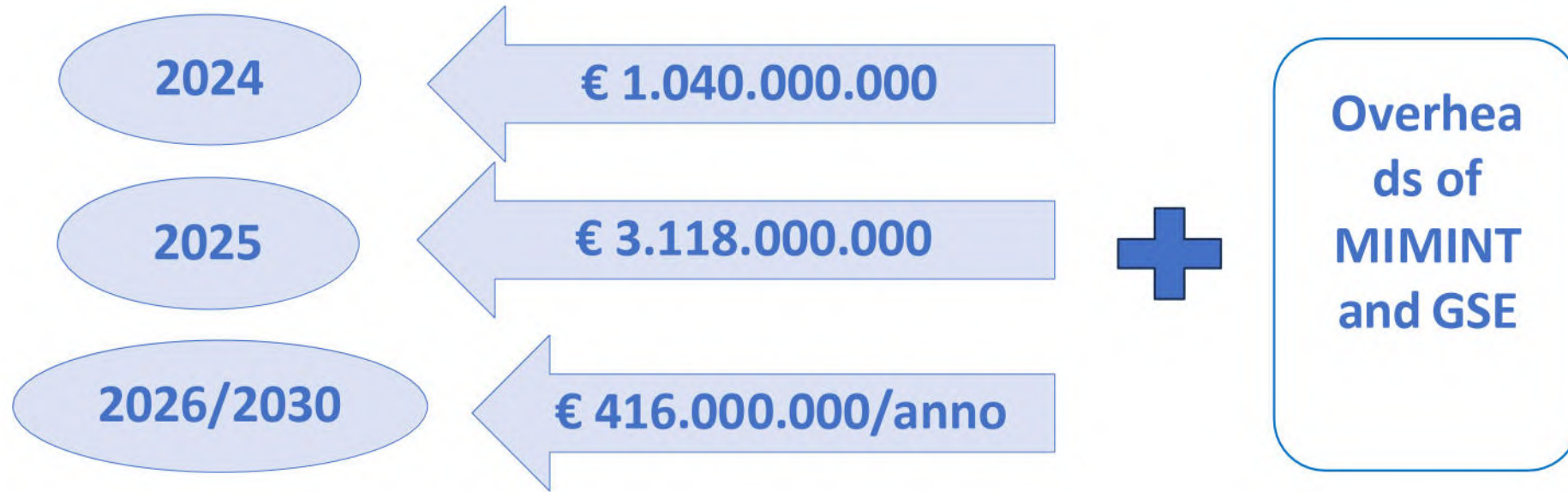
- save energy
- produce clean energy
- diversify our energy supply.:



DL n. 19 del 2.3.2024, art 38, “Ulteriori disposizioni urgenti per l'attuazione del Piano nazionale di ripresa e resilienza (PNRR)” - ART. 38 (Transizione 5.0)

Publicato nella Gazzetta Ufficiale 2.3.2024, n. 52.

Program PNRR M7- Inv. 15 "Transizione 5.0" funded
by Next Generation EU-Italia





Supported companies

All the companies residing in Italy:

- companies with every kind of legal form;
- companies that operate in every economic sector;
- every company size;
- every tax regime.



Cannot be funded

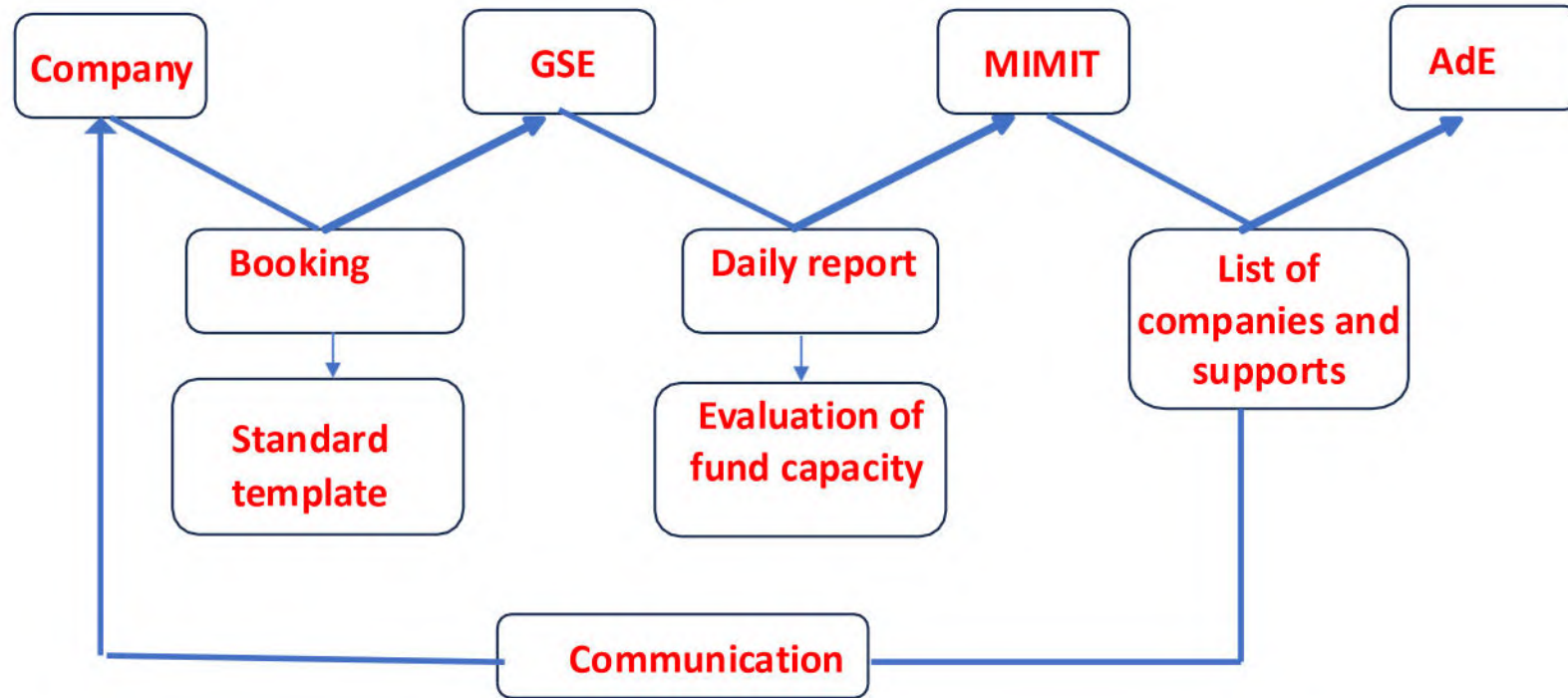
- companies directly related to fossil fuels;
- companies under the EU Emissions Trading System (ETS) that generate greenhouse gases;
- companies connected to waste landfills, incinerators and mechanical biological treatment plants;
- companies in which the process produces polluting substances classifiable as special dangerous waste (EU Comm. Reg. n.1357/2014).

Transizione 5.0 - Tax credits



Energy efficiency	Inv. $\leq 2,5$ mln €	Inv. ≤ 10 mln €	Inv. ≤ 50 mln €
<ul style="list-style-type: none">• <u>entire structure</u> >3%• <u>partial process</u> >5%	35%	15%	5%
<ul style="list-style-type: none">• <u>entire structure</u> >6%• <u>partial process</u> >10%	40%	20%	10%
<ul style="list-style-type: none">• <u>entire structure</u> >10%• <u>partial process</u> >15%	45%	25%	15%

Transizione5.0 - Flowchart



01

Companies has to book the energy efficiency actions and their budgets to GSE

02

GSE send to MIMIT the list of all the approved actions booked by companies

03

GSE periodically report the implementation progress of every single action and its credits

05

GSE send to AdE the list of the companies with their credits

04

Companies communicate to GSE the end of the action implementation

Transizione 5.0

References



- ONU: Transforming our world: the 2030 Agenda for Sustainable Development

<https://sdgs.un.org/2030agenda>

- European Green Deal

<https://www.consilium.europa.eu/en/policies/green-deal/>

- DL 2 marzo 2024, n. 19 Ulteriori disposizioni urgenti per l'attuazione del Piano nazionale di ripresa e resilienza (PNRR). (24G00035) (GU Serie Generale n.52 del 02-03-2024)

<https://www.gazzettaufficiale.it/eli/id/2024/03/02/24G00035/sg>

- Innovation Post, Piano Transizione 5.0, tutti i dettagli e la spiegazione dell'incentivo

<https://www.innovationpost.it/attualita/piano-transizione-5-0-ecco-tutti-i-dettagli-del-nuovo-incentivo-che-agevola-il-risparmio-energetico/>



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