



*ORDINE DEGLI INGEGNERI
DELLA PROVINCIA DI PALERMO*

**Transizione 4.0 incontro e confronto tra Stakeholders
Istruzioni per l'uso ed uno sguardo al futuro (5.0).
Palermo 6.11.2023.**

**“Integrazione” tra competenze IT ed
impiantistiche, i dati ed il loro valore
aggiunto**

...in 60 secondi

THE INTERNET IN **2023** EVERY MINUTE



- Approximately **328.77 million terabytes** of data are created each day
- Around **120 zettabytes** of data will be generated this year
- **181 zettabytes** of data will be generated in 2025

Nel mondo ed in Italia

Oltre 8000 Data Center, di cui 100 in Italia e 5 a Palermo



2020



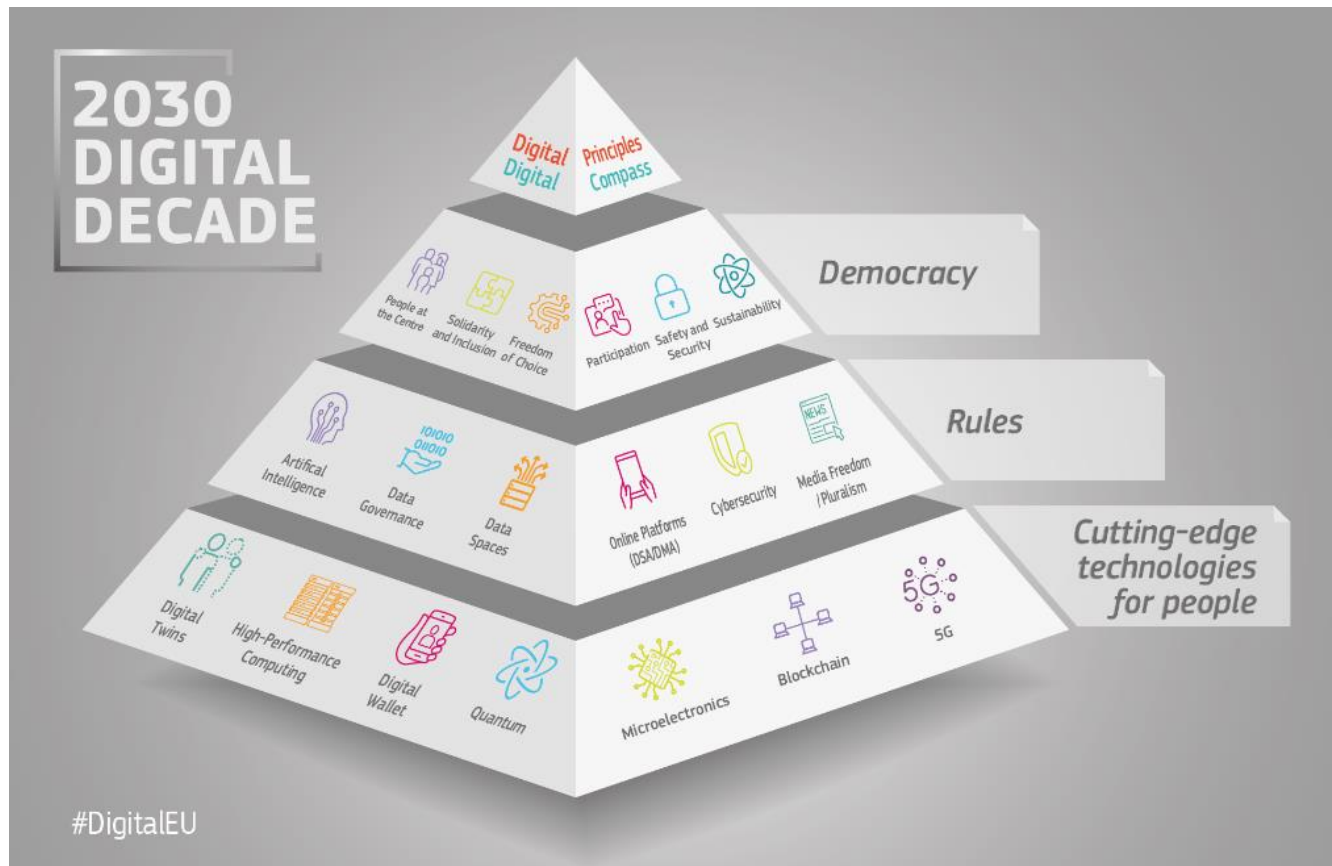
2023



2022



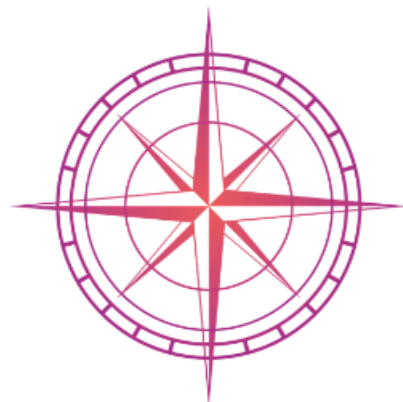
EU Digital Decade



Obiettivi EU Digital Decade

Skills

20 million employed **ICT specialists**, more graduates + gender balance
80% of adults can **use tech** for everyday tasks



Government

Key Public Services - 100% online
Everyone can **access health records online**
Everyone can use **eID**

Infrastructure

Gigabit connectivity for everyone, **high-speed mobile coverage** (at least 5G) everywhere
EU produces 20% of world's **semiconductors**
10 000 **cloud edge nodes** = fast data access
EU **quantum computing** by 2025

Business

75% of companies using **Cloud, AI or Big Data**
Double the number of **unicorn startups**
90% of **SMEs taking up tech**

**A HUMAN-CENTRED DIGITAL TRANSITION
BASED ON EU VALUES**

Progetti Multinazionali



Common data infrastructure and services



Blockchain



Low-power processors



Pan-European deployment of 5G corridors



High-performance computing



Secure quantum infrastructure and network of cybersecurity centres



Digital public administration



Digital innovation hubs



High-tech partnerships for digital skills

Infrastrutture

DIGITAL INFRASTRUCTURE

Italy has made some remarkable progresses towards achieving the Digital Decade targets on digital infrastructures and its RRP represents a significant boost for important investment. Concerning the Digital Decade target for fixed very high-capacity network (VHCN), Italy still remains below the EU average (54% of households against 73% in the EU), despite a 10 percentage points jump between 2021 and 2022. Italy achieved nationwide 5G coverage in 2021 and 93% of harmonised spectrum was assigned as of 2023. Also, 5G coverage provided on the 3.4-3.8 GHz spectrum band to 80% of households.

Italy continues to strengthen its position in the semiconductors technologies and cloud computing sectors. Investments under the RRP include support for participation in the Important Project of Common European Interest (IPCEI) 'Microelectronics and Communication Technologies' with 10 direct participants active in a wide range of applications. Italy is at the forefront of High-Performance Computing (HPC) and quantum computing. LEONARDO, a world-class supercomputing system developed and assembled in Europe, is currently the fourth most powerful supercomputer in the world. LEONARDO will be further improved to become one of the first European-built quantum computers. In March 2023, Italy launched TeRABIT, an infrastructure based on last-generation dedicated fibre optics, allowing data to be exchanged at terabit speeds (1 000 billion bits per second). Several operators are starting to deploy a more decentralized edge cloud infrastructure, in particular to overcome potential congestion issues and optimize video service.

PMI e la «digitalizzazione del business»

DIGITALISATION OF BUSINESSES

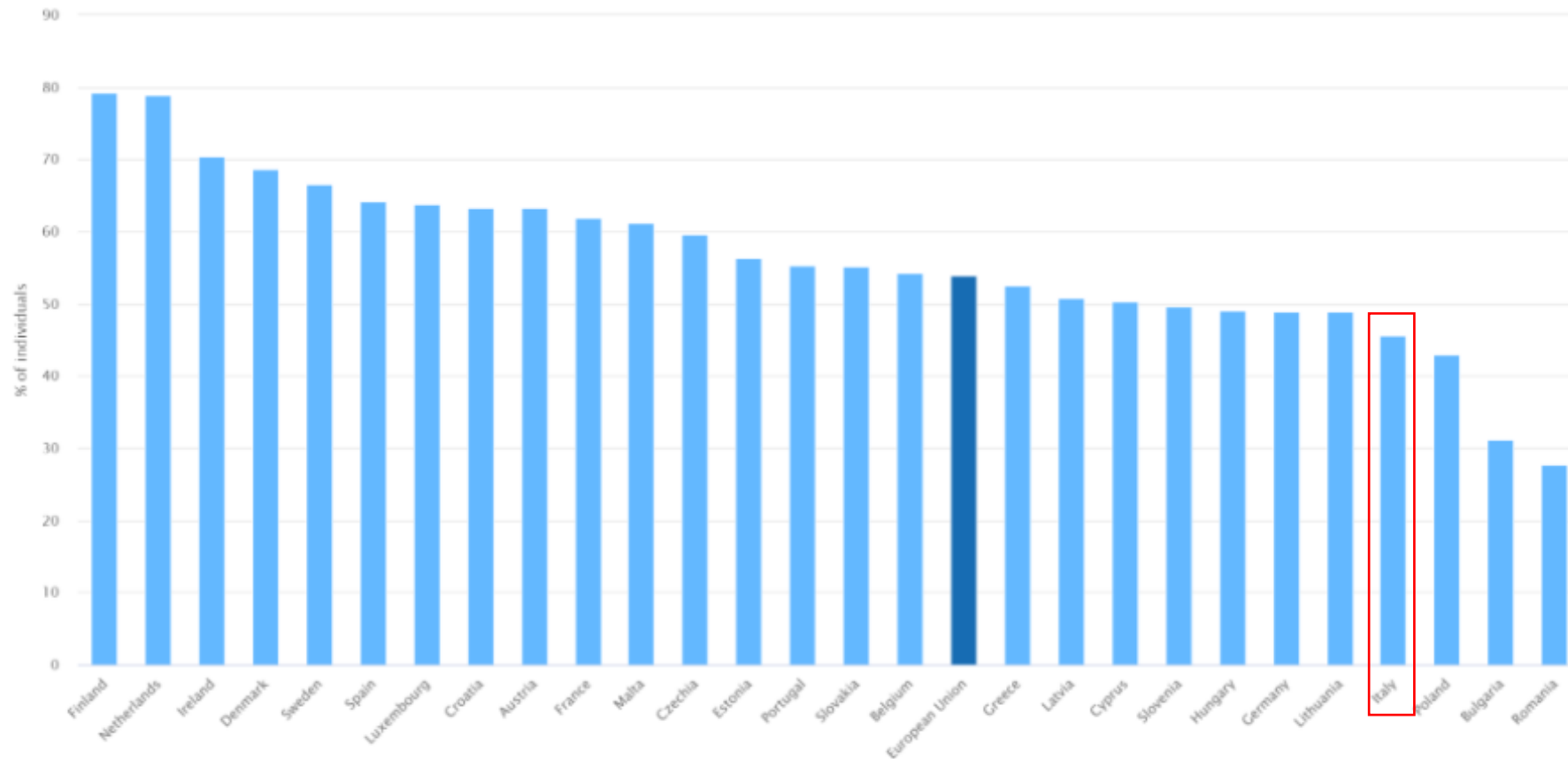
Most Italian SMEs have at least a basic level of digital intensity in line to EU average (70% compared to the EU average of 69% in 2022). Progress has been especially strong in the use of electronic invoices, outperforming the EU's average with 95% (in 2020), as well as the percentage of SME turnover from ecommerce reaching 14% (in 2022). However, more could be done in relation to update of advanced digital technologies: whilst, in 2021, cloud was used by 52% of enterprises, well above the EU average of 34%, the picture is different for big data and AI, where, in 2020, only 9% of enterprises used big data, and, in 2021, 6% used AI. Italy is actively participating in the European Digital Innovation Hub (EDIH) network with 13 EDIHs, which were selected to be co-funded by EU's Digital Europe Program and Italian Government. Despite these measures the possibility for start-ups to scale up in Italy remains limited when compared to other Member States. Furthermore, Italy is participating in the IPCEI on Next Generation Cloud Infrastructure and Services.

Italy should continue implementing its policies in the area of digitalisation of businesses. In particular, Italy should continue supporting the development and deployment of advanced technologies, notably AI and big data, including capacity and knowledge building. Italy should strengthen its efforts to encourage entrepreneurship in digital sectors and create an ecosystem of innovation, in particular for start-ups and SMEs, improving their chances to scale up.

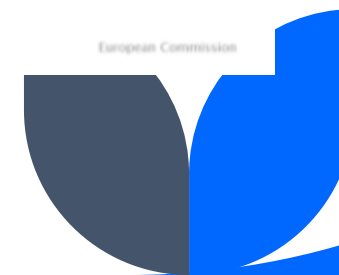
Competenze IT della popolazione

At least basic digital skills, All Individuals (aged 16–74)

DESI period: 2023 (data from 2021)



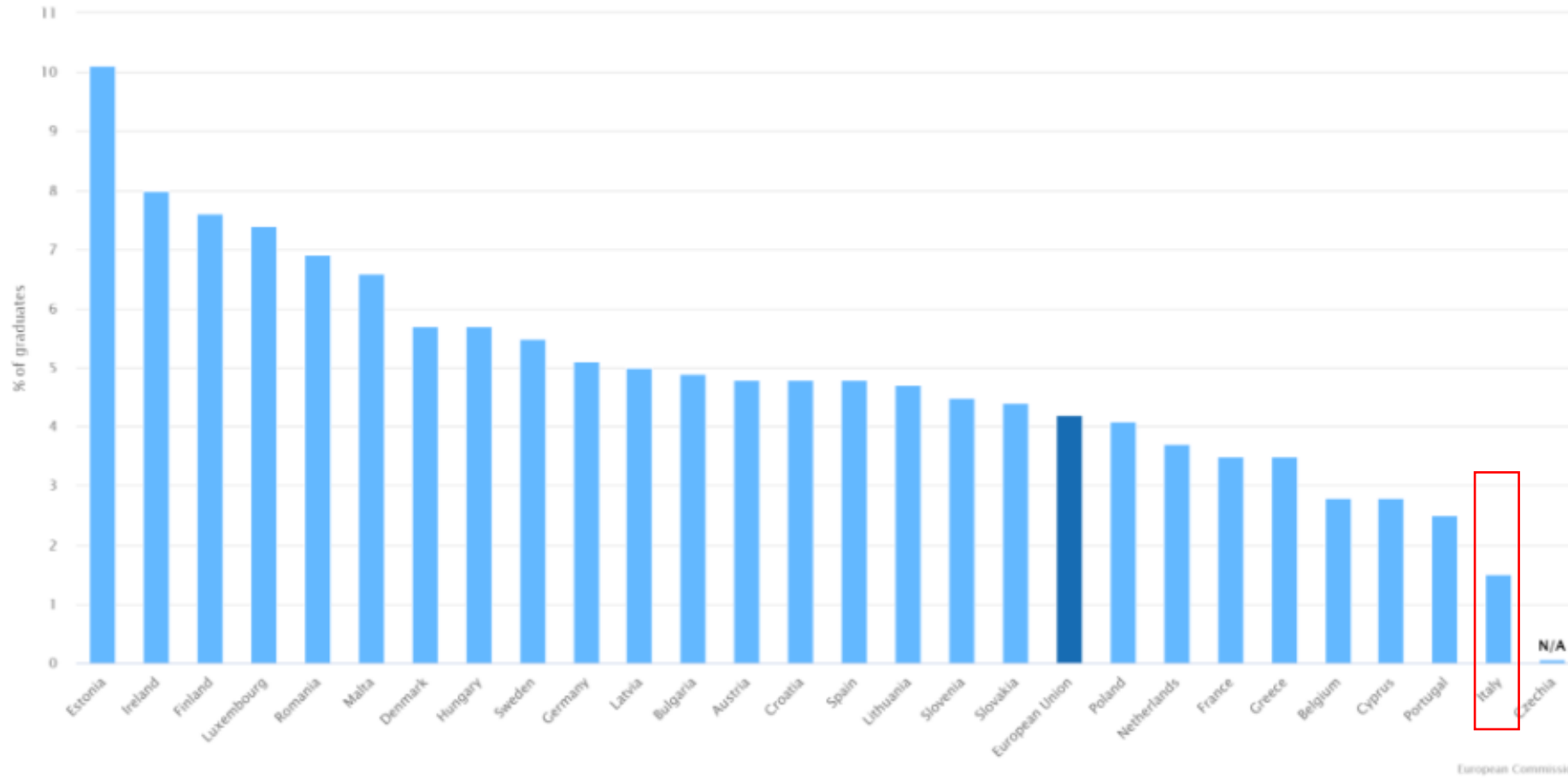
European Commission



Laureati in ambito ICT

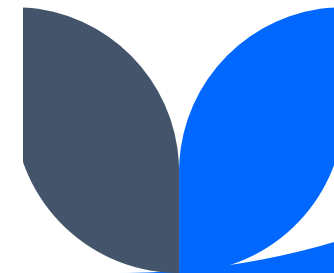
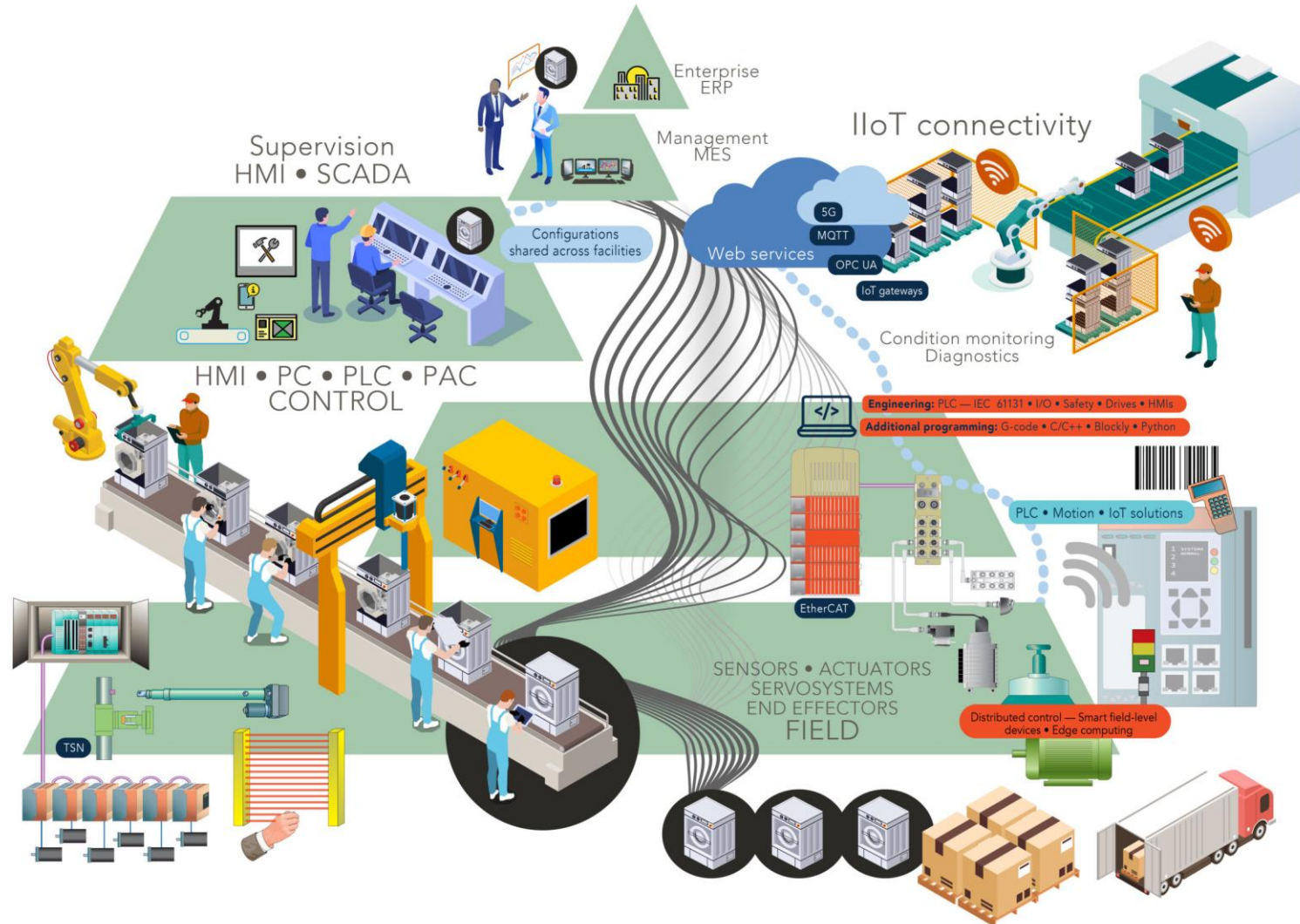
ICT graduates, Total

DESI period: 2023 (data from 2021)



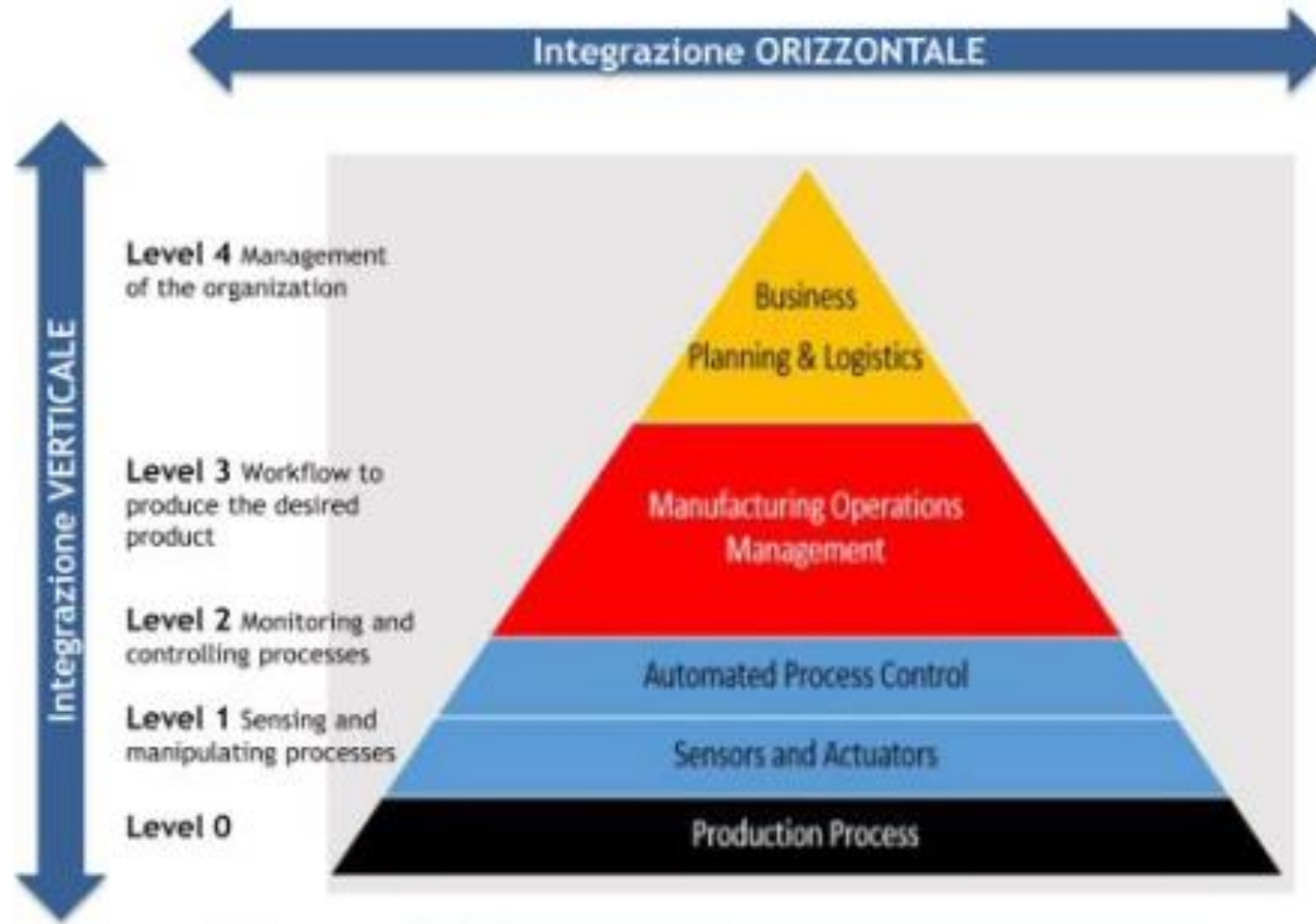
European Commission

La Transazione Digitale, il «4.0» la Fabbrica «Intelligente»



Integrazione

La digitalizzazione della fabbrica
La piramide dell'automazione industriale



Architettura a livelli ISA 95 (IEC 62264)



Transizione 5.0

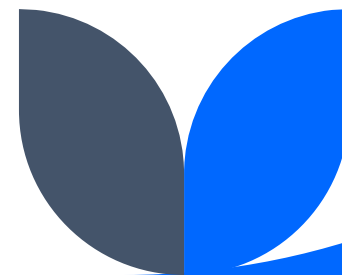
Adolfo Urso: «Presto quattro miliardi per il piano di transizione Industria 5.0»

Milano Finanza 26 ottobre 2023

<https://www.milanofinanza.it/fashion/adolfo-urso-presto-quattro-miliardi-per-il-piano-di-transizione-industria-5-0-202310261833349164>


Si tratta di un'evoluzione naturale dell'Industria 4.0 e si basa sullo sviluppo a ritmi serrati di tecnologie 4.0 sempre più potenti, in particolare nei settori dell'Ict, AI e robotica, che stanno portando alla realizzazione di Cyber Physical System (Cps) e dispositivi IoT sempre più potenti.







CorCom 28 Luglio 2023 <https://www.corrierecomunicazioni.it/industria-4-0/transizione-5-0-sul-piatto-4-miliardi-urso-mettiamo-il-turbo-alle-imprese/>



Innovation Manager

Governo italiano IT

 **Ministero delle Imprese e del Made in Italy**

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Voucher per consulenza in innovazione – Secondo sportello

Sostegno alla trasformazione tecnologica e digitale delle PMI

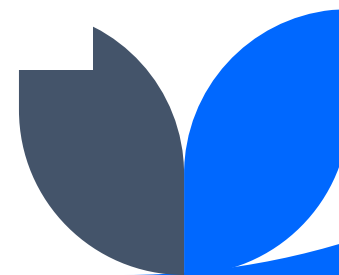


Condividi 

Argomenti:

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Novità e aggiornamenti



Product Owner



Dipartimento per la trasformazione digitale

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Italia digitale 2026

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Product Owner

Il Dipartimento per la trasformazione digitale è alla ricerca di esperti che gestiranno e svilupperanno progetti nella digitalizzazione e nell'innovazione

DATA DI APERTURA

16 agosto 2023

STATO

CHIUSA

COMPENSO

Fino a 90.000,00 €

DATA DI CHIUSURA

31 agosto 2023

Condividi

ARGOMENTI

Lavora con noi

APPROFONDISCI

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