Programul Europa Digitală

Info-day SupportTM 28.04.2022

Eveniment organizat în cadrul proiectului „Centrul suport pentru participarea la proiecte internaționale – SupportTM", ID 108173

Proiect co-finanţat din Fondul European de Dezvoltare Regională prin Programul Operaţional Competitivitate 2014-2020
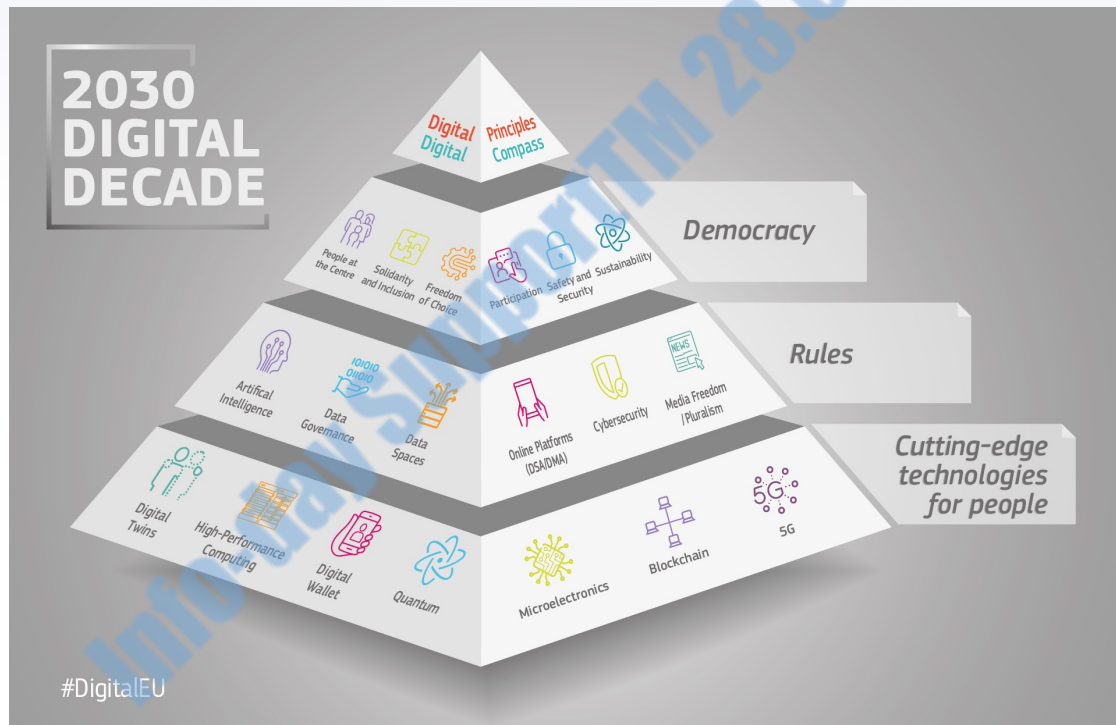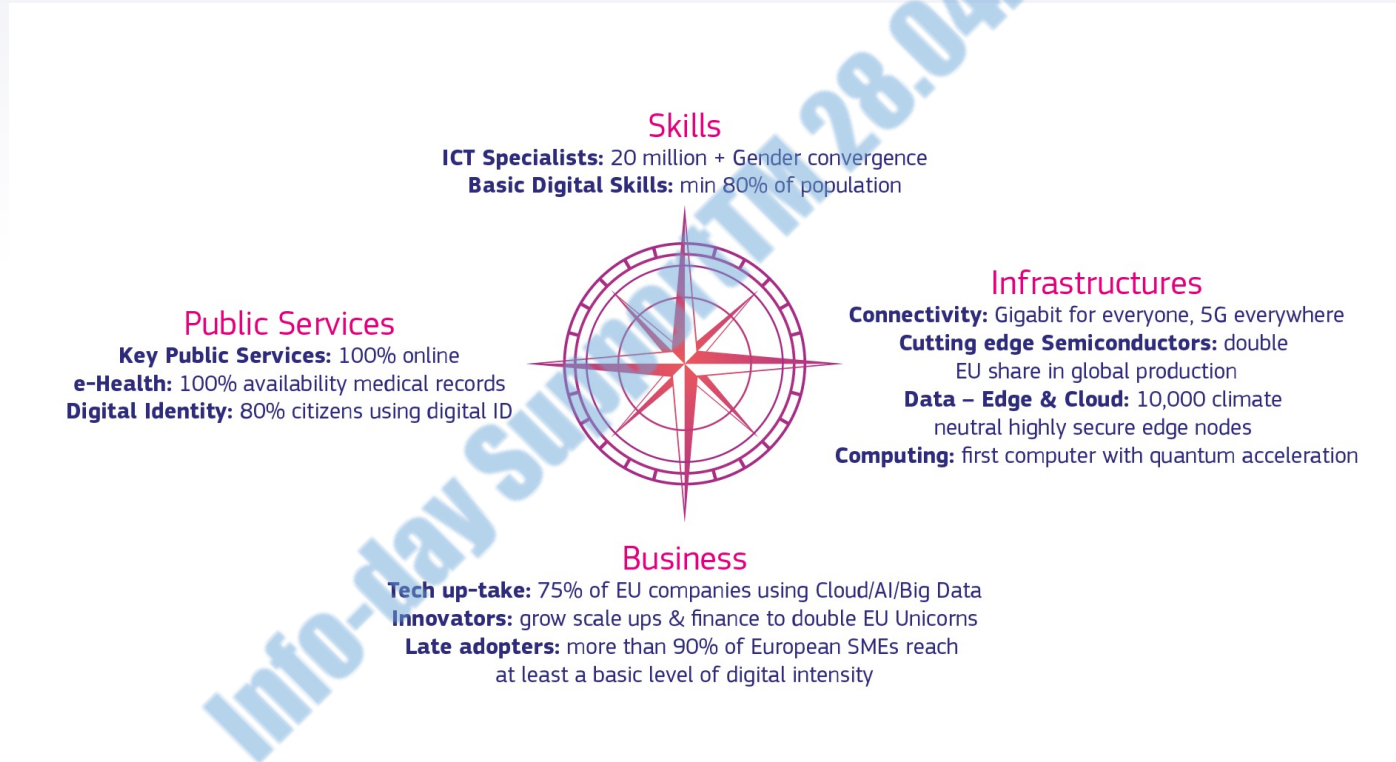
Europe's Digital Decade

The EU will pursue a human-centric, sustainable vision for digital society throughout the digital decade to empower citizens and businesses.

Europe's Digital Decade

Digital compass

Skills
ICT Specialists: 20 million + Gender convergence
Basic Digital Skills: min 80% of population

Infrastructures
Connectivity: Gigabit for everyone, 5G everywhere
Cutting edge Semiconductors: double EU share in global production
Data – Edge & Cloud: 10,000 climate neutral highly secure edge nodes
Computing: first computer with quantum acceleration

Public Services
Key Public Services: 100% online
e-Health: 100% availability medical records
Digital Identity: 80% citizens using digital ID

Business
Tech up-take: 75% of EU companies using Cloud/AI/Big Data
Innovators: grow scale ups & finance to double EU Unicorns
Late adopters: more than 90% of European SMEs reach at least a basic level of digital intensity

Europe's Digital Decade

Multi-country projects

Multi-country projects are large-scale projects that can contribute to achieving the digital decade targets. They will allow Member States to come together and pool resources to build digital capacities that they would not be able to develop on their own.

The Commission has identified an initial list of areas for multi-country projects and may update the list, if needed, based on the annual progress monitoring.

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

Europe's Digital Decade

Digital Society

[Cybersecurity](#)

[Digital inclusion](#)

[Digital public services and environments](#)

[Green digital sector](#)

[Language technologies](#)

[Media and digital culture](#)

[Next Generation Internet](#)

[Online privacy and safety](#)

Advanced Digital Technologies

[Advanced computing](#)

[Advanced digital technologies](#)

[Artificial intelligence](#)

[Data and cloud computing](#)

[Internet of Things](#)

Europe's Digital Decade

International Cooperation in Digital

International relations

Digital in the Trade and Technology Council

Digital Economy

Digital skills

Supporting industry

Connectivity

Online platforms and e-commerce

The main EU budget programmes

Digital Europe Programme

The Digital Europe programme (DEP) is the central programme for digital in the MFF. It aims to accelerate economic recovery and drive the digital transformation of Europe.

The Digital Europe Programme will strengthen investments in a range of areas, including:

- supercomputing and data processing capacities;
- core artificial intelligence (AI) capacities such as a data spaces and libraries of AI algorithms;
- cybersecurity;
- digital skills, expanding the best use of digital capacity in EU's society and economy;
- support to the digitalisation of businesses and public administrations

The Digital Europe Programme is designed to fill the gap between research and deployment of digital technologies. It will bring the results of research to the market for the benefit of Europe's citizens and businesses, in particular small and medium-sized enterprises SMEs).

Digital Europe Programme: Worth €7.6 billion in current prices.

https://digital-strategy.ec.europa.eu/en/activities/work-programmes-digital

Shaping Europe's digital future

Home   Policies   Activities   News   Library   Funding   Calendar   Consultations

Home > Activities > The DIGITAL Europe Programme – Work Programmes
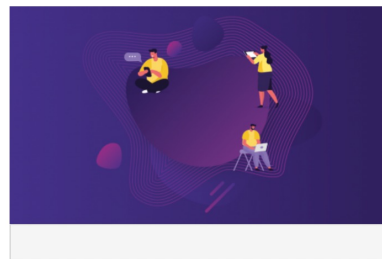
The DIGITAL Europe Programme – Work Programmes

Overall objectives, scope, outcomes and deliverables as well as budget allocations, for each topic are described in the work programmes. On this web page you will find relevant documents and amendments for the work programmes once they have been adopted by the European Commission.

The first four work programmes implementing DIGITAL are:

- DIGITAL Europe Work Programme 2021-2022 (.pdf)
- DIGITAL Europe - EDIH Work Programme 2021-2023 (.pdf), specifically dedicated to the European Digital Innovation Hubs
- DIGITAL Europe - Cybersecurity Work Programme 2021-2022 (.pdf)
- DIGITAL EUROPE - High Performance Computing (managed by the EuroHPC Joint Undertaking)

The first calls were opened on 17 November and closed on 22 February. On the same day the second calls were opened.

Further calls are expected to be opened in the summer of 2022.

Digital Europe Programme

Challenge

The global competition to control digital technologies forces European businesses, public sector and researchers to access the computing, data, or artificial intelligence resources they need outside the Union.

Digital skills.

AI and Cybersecurity capacities and capabilities. The take-up of digital technologies by European businesses, SMEs and public administrations is very uneven.

Key digital capabilities, industries and skills - its strategic autonomy and competitiveness.

Given the network effects of digitalisation the EU can act decisively on these challenges, via co-investments with Member States and the private sector.

Digital Europe Programme

Mission

Support the digital transformation of the European economy and society, focusing on:

Building essential capacities and advanced skills in key digital technologies, contributing to Europe's strategic autonomy.

Accelerating their deployment and best use in areas of public interest and the private sector.

Digital Europe Programme

Objectives

Make Europe a world-leader in high-performance computing (HPC), by raising its scientific potential and industrial competitiveness.

Boost deployment of Artificial Intelligence-based solutions in critical areas like climate change or health.

Invest in cybersecurity to ensure the resilience, integrity and trustworthiness of European critical networks, infrastructures and services.

Promote advanced digital skills, in key technologies deployed by the programme.

Widen the adoption and best use of key digital technologies to make Europe more competitive and address major societal challenges.

€1.7 BILLION for cybersecurity

- Cybersecurity coordination
- Deployment of the **cybersecurity capacities** across the economy
- Quantum Communication Infrastructures
- **Advanced skills and capabilities for a high level of security** of network and information systems.

€2.2 BILLION for supercomputing

- EU's supercomputing and data processing capacities
- **Accessibility and use of supercomputing** by the public and private sector

€2.1 BILLION for artificial intelligence and data spaces

- **Artificial Intelligence** by and for **businesses and public administrations**
- Artificial Intelligence **testing and experimentation facilities** in areas such as health, mobility and manufacturing
- **European data spaces** and safe access to and storage of large datasets
- Trustworthy and energy efficient **cloud infrastructures**

€1.7 BILLION for advanced digital skills

- **Specialized programmes and traineeships for experts** in key capacity areas like data and AI, cybersecurity, quantum and HPC
- **Upskilling of the existing workforce through short trainings** in key capacity areas.

€1.7 BILLION for ensuring the wide use of digital technologies across the economy and society

- **Deployment of a network of European Digital Innovation Hubs**, aiming to have a Hub in every region, to help companies benefit from digital opportunities
- **Uptake** of advanced digital and related **technologies by the industry**, notably SMEs
- Support to **public administrations and industry to deploy and access digital technologies** (e.g. blockchain) and **build trust** in the digital transformation

EUR 7 611.0 million

Total financial programming 2021-2027

2021	2022	2023	2024	2025	2026	2027
1 130.5	1 247.8	1 268.4	962.3	981.4	1 000.4	1 020.2

In EUR million.

Funding for Digital in the 2021–2027 Multiannual Financial Framework

Connecting Europe Facility Digital

The Connecting Europe Facility supports trans-European networks and infrastructures in the transport, telecommunications and energy sectors. It is investing in broadband networks, as a part of the EU's wider efforts to build infrastructure that can handle emerging and future processes and applications

Worth €2.07 billion in current prices.

Funding for Digital in the 2021–2027 Multiannual Financial Framework

Horizon Europe

Horizon Europe is a seven year funding programme for research and innovation that will continue the work of Horizon 2020. It will fund vital research in health, resilience and the green and digital transitions.

Horizon Europe includes a dedicated budget for 'Digital, industry and space'. This budget will develop research and high-end innovation in enabling technologies, such as:

- artificial intelligence and robotics
- next generation Internet
- high performance computing
- big data
- key digital technologies
- 6G

It will also aid research into combining digital with other technologies. Overall, it is expected that around 35% of Horizon Europe will support work for the digital transition. The work of Horizon Europe will be complementary to that of the Digital Europe Programme.

Horizon Europe: €95.5 billion in current prices.

HORIZON EUROPE BUDGET

Horizon Europe programme structure

	Total in € million
EXCELLENT SCIENCE *of which*	25 011
The European Research Council (ERC)	16 004
Marie Skłodowska-Curie Actions (MSCA)	6 602
Research infrastructures	2 406
GLOBAL CHALLENGES AND EUROPEAN INDUSTRIAL COMPETITIVENESS *of which*	53 516
Health	8 246
Culture, creativity and inclusive society	2 280
Civil Security for Society	1 596
Digital, Industry and Space	15 349
Climate, Energy and Mobility	15 123
Food, Bioeconomy, Natural Resources, Agriculture and Environment	8 952
Non-nuclear direct actions of the Joint Research Centre (JRC)	1 970
INNOVATIVE EUROPE *of which*	13 597
European Innovation Council (EIC)	10 105
European innovation ecosystems	527
European Institute of Innovation and Technology (EIT)	2 965
WIDENING PARTICIPATION & STRENGTHENING THE EUROPEAN RESEARCH AREA *of which*	3 393
Widening participation and spreading excellence	2 955
Reforming and enhancing the European R&I System	438
TOTAL HORIZON EUROPE	**95 517**

Funding for Digital in the 2021–2027 Multiannual Financial Framework

Invest EU

InvestEU will provide crucial support to companies in the recovery phase and ensure a strong focus among private investors on the EU's medium- and long-term policy priorities. In particular, the European Green Deal and digitalisation. At least 10% of the programme will feed into digital goals.

InvestEU: EU Budget guarantee of €26.2 billion with the aim of mobilising more than €372 billion in public and private investment.

Creative Europe MEDIA

The MEDIA Sub-programme of Creative Europe will support European film and other audiovisual industries. It provides funding for the development, promotion and distribution of European works within Europe and beyond.

Creative Europe MEDIA: Worth €1.4 billion

EU4Health

EU4Health is a new programme intended to strengthen health security and prepare for future health crises. Approximately 10% of this programme will be used for digital transformation of the health sector.

EU4Health: Worth €5.3 billion

Funding for Digital in the 2021–2027 Multiannual Financial Framework

Recovery and Resilience Facility

Supporting digital transformation is key to building resilience and advancing recovery. The Recovery and Resilience Facility is a new programme that will offer financial support for investments and reforms, including in relation to the green and digital transitions and the resilience of national economies. It will be linked to the European Semester.

The Commission has proposed that each recovery and resilience plan include a minimum level of 20% of expenditure related to digital.

Recovery and Resilience Facility: Worth €672.5 billion

Current flagships

Battery 2030+

The Battery 2030+ initiative aims to develop high-performance, safe and sustainable batteries. This would put Europe in the lead of batter development across Europe.

Graphene flagship

The graphene flagship focuses on taking graphene and related two-dimensional materials and applying them in European technology. By finding new uses for these materials, the flagship can help to stimulate economic growth, create new jobs and improve society.

Human brain

The human brain project flagship mobilises neuroscientists, computer and robotics experts. It supports our understanding of the human brain. It also improves knowledge about neurological diseases and helps to advance medicine.

Quantum technologies flagship

The quantum technologies flagship aims to accelerate the development and uptake of quantum technologies. It will place Europe in a leadership position for the second quantum revolution
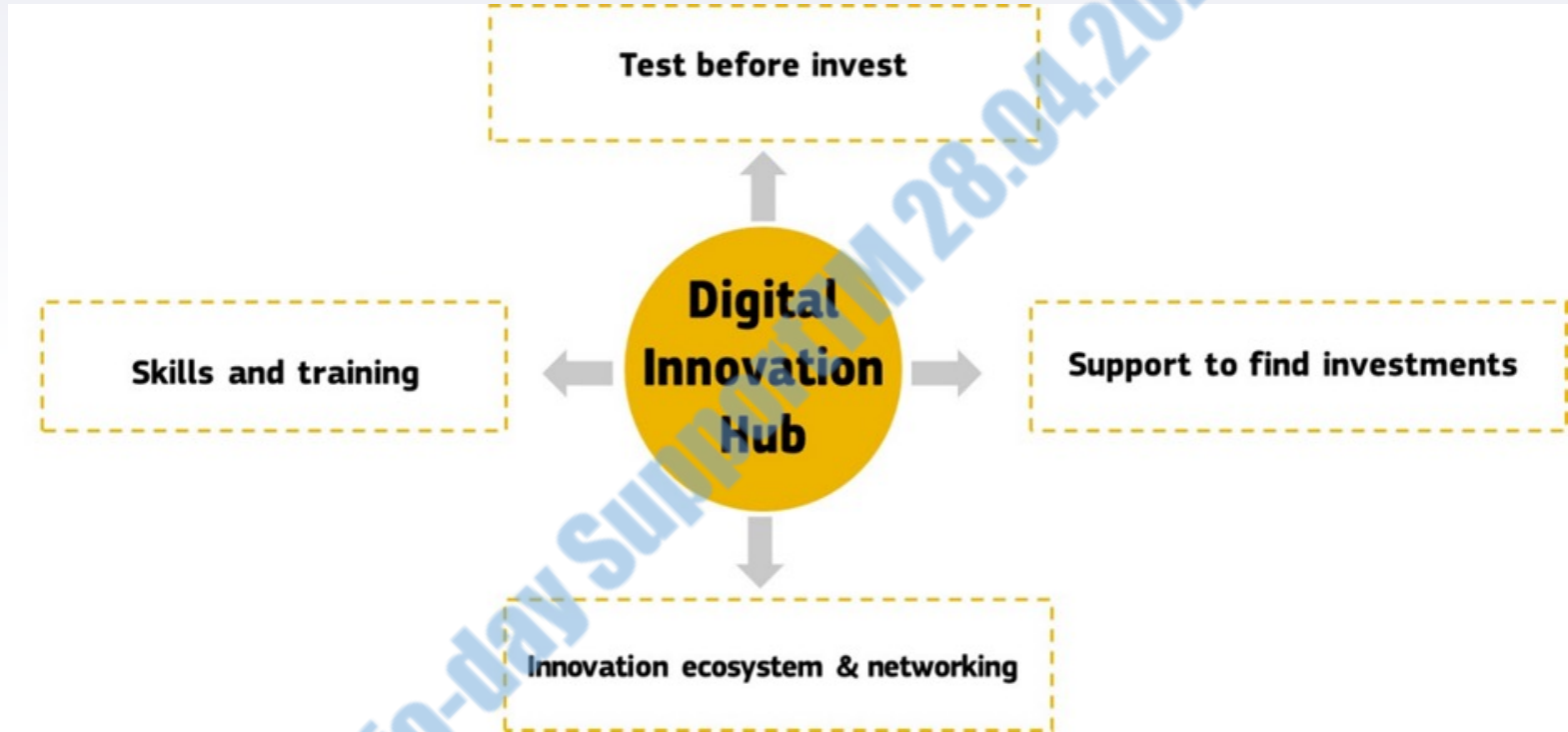
Digital Europe for Digital Innovation Hubs at a glance

EU support for one DIH per region

Co-investment with Member States

Focus on industry and public services administrations

Focused on HPC, AI, Cybersecurity and Digital Skills

A strong European network of DIH

Universitatea de Vest
din Timișoara

SupportTM

21

Digital Innovation Hubs

Digital Innovation Hubs
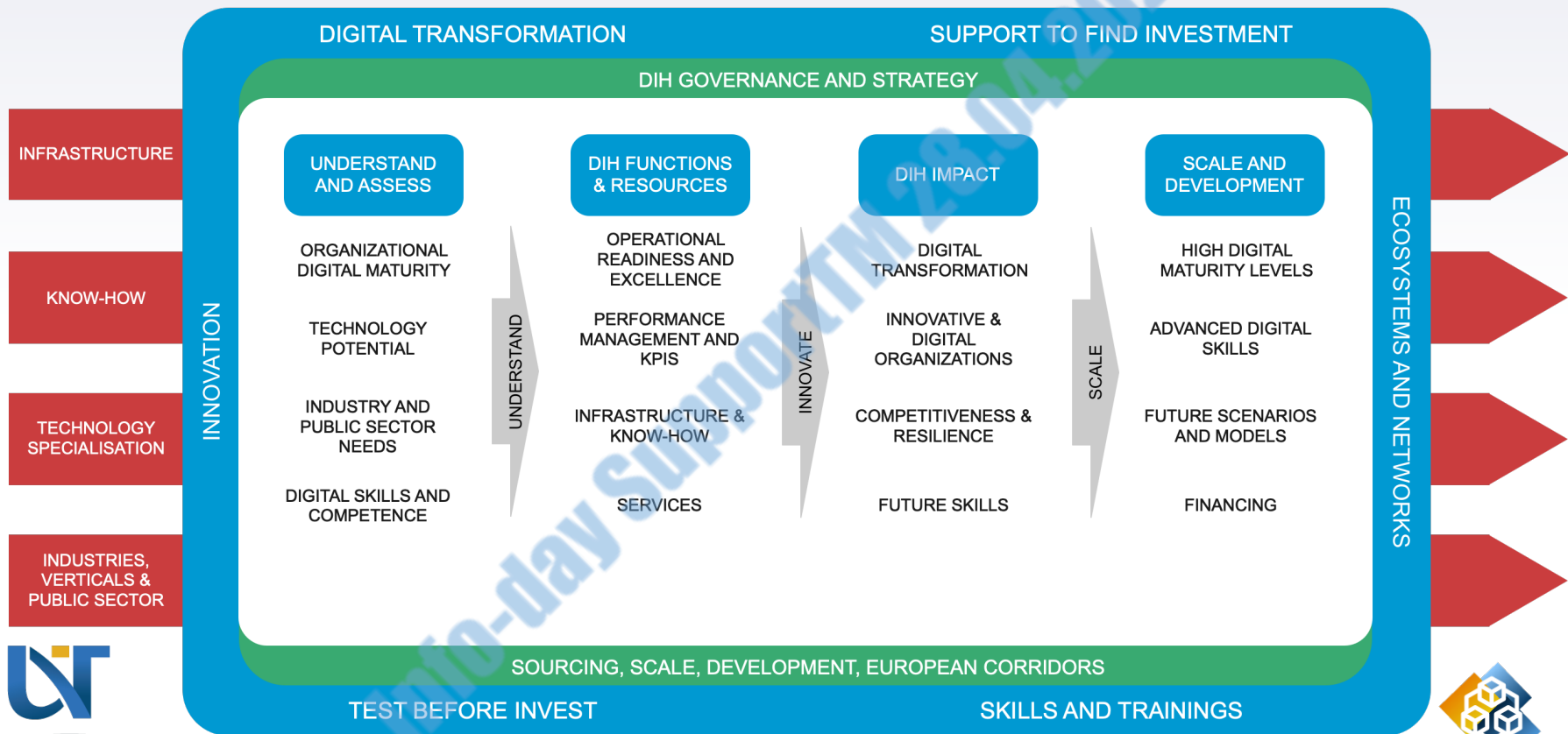
UBB **UMF**

INCDTIM **OLI Hygia**

UTCN

Cluj - Napoca Municipality

Transilvania IT - DIH Orchestrator

Consortium full partners

Associated partners

Furniture Cluster (CMT)

Romanian new Materials Cluster (RNMC)

Agro Transilvania Cluster (ACT)

Transilvania Energy Cluster (TREC)

ARIES Transilvania

Creative Industries Cluster (CICT)

Acces IT Oradea

Info-day SupportTM 28.04.2022

23

Digital Innovation Hubs

Vă mulțumesc!

alexandru.roja@e-uvt.ro