

Digital Decade Futurium Community: Launch Event



17 November 1:00-2:30pm

#DigitalEU



2030 DIGITAL COMPASS

THE EUROPEAN WAY
FOR THE DIGITAL DECADE

Main Elements of the Proposal

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DG CNECT, European Commission

Introducing the Union's first ever digital governance tool

- **Confirms and operationalizes** the Commission's [Digital Compass Communication](#) from March 2021, which lays out a concrete vision of a digital future with EU-level targets for 2030.
- **Responds to strong political guidance and support** from President von der Leyen to make this Europe's "Digital Decade", the European Council's conclusions from March, as well as Member States and private sector contributions to the consultation.
- Sets a **comprehensive strategic, clear and coherent framework for digital transformation** to ensure consistency and synergies among all policy initiatives, actions, measures and investments in the digital sphere at national and at Union level.
 - **Drives the twin transition** with a strategic approach to digital, including an annual cooperation mechanism to implement joint actions and investments to reach the digital targets, that complements the European Green Deal.
 - **Coordinates and fosters investment** beyond the 20% of RRF expenditure committed to digital in context of pandemic for a more sustainable, human-centred and prosperous future that no Member State could achieve on its own.

Consultation Results: Does Europe need a „Path to the Digital Decade“?

- **Need to focus more on the digital transformation:** 95,5% of respondents to the targeted consultation agree that the pandemic demonstrated a need to accelerate the pace of the digital transformation and ensure that everyone can fully benefit from it.
- **Broad support for operationalising the EU’s digital ambition with a structured monitoring and cooperation mechanism:** Respondents to the targeted consultation identified substantially increasing investments (90.7%) and coordinating the digitalization efforts of Member States (78.8%) as crucial drivers for the EU’s successful digital transformation.
 - **Civil society** called for a robust governance framework to stimulate and direct investments in a socially and environmentally responsible way that places citizen’s rights at the center.
 - **Industry** would like to see more coordinated policies to align investment friendly conditions, particularly for the deployment of digital infrastructures, across the EU.
 - **Businesses and public administrations** emphasized the importance of legal certainty and interoperability for the digitalization of their operations and services.
- **Wide recognition of importance of proposed targets,** with some suggestions to expand scope and increase or decrease level of ambition.

Where does the „Path to the Digital Decade“ lead?

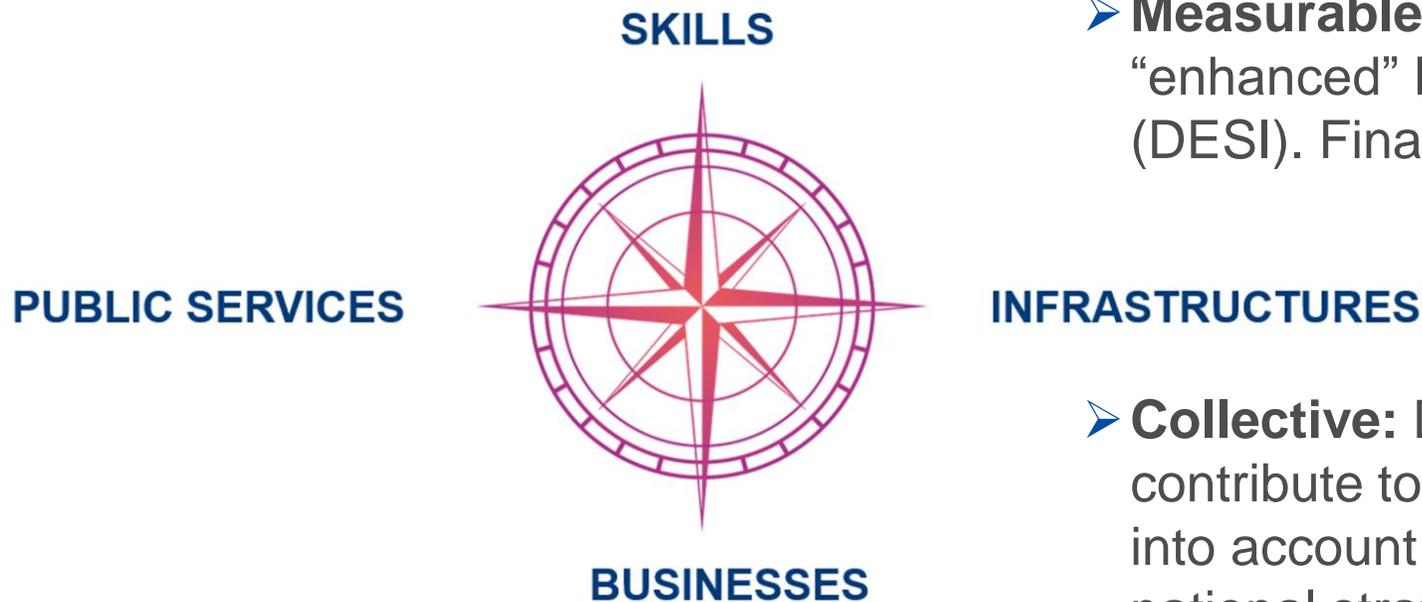
A digitally sovereign Europe where technologies and services respect and enhance Union principles and values and support the competitiveness of the Union's industry.

A green Europe where digital infrastructures and technologies become more energy- and resource efficient, and contribute to a sustainable circular and climate-neutral economy and society in line with the European Green Deal.

Digital Decade vision: Empower all European citizens and businesses to seize the benefits of a human-centred, sustainable and prosperous digital future in a global context.

2030 EU Digital Targets from the Communication

- **Comprehensive:** As set up in the Digital Compass Communication along 4 cardinal points.
- **Measurable:** Monitored through KPIs in an “enhanced” Digital Economy and Society Index (DESI). Final KPIs to be provided at a later stage.



- **Collective:** Different potential of Member States to contribute to the Union level targets will be taken into account and developed in the future through national strategic roadmaps.
- **Flexible:** The Commission will review and, where necessary, revise the digital targets by 2026 to account for technical, economic and societal developments.

EU Digital Targets: 2030 versus NOW

DIGITAL SKILLS

Adults with basic digital skills



Employed ICT specialists



DIGITAL INFRASTRUCTURES

Gigabit network coverage



5G coverage



The EU production of semiconductors, including processors, makes up



There are **10,000 edge nodes** in the EU for **better, secure and sustainable data processing**.



By 2025, the first EU computer with **quantum acceleration** is paving the way for cutting-edge quantum capabilities.

DIGITAL TRANSFORMATION OF BUSINESSES

BUSINESSES USING

Cloud computing services



Big data



Artificial Intelligence



SMEs with at least a basic level of digital intensity



There are



DIGITALISATION OF PUBLIC SERVICES

Online access to key public services (related to career, studying, family, regular business operations, moving)



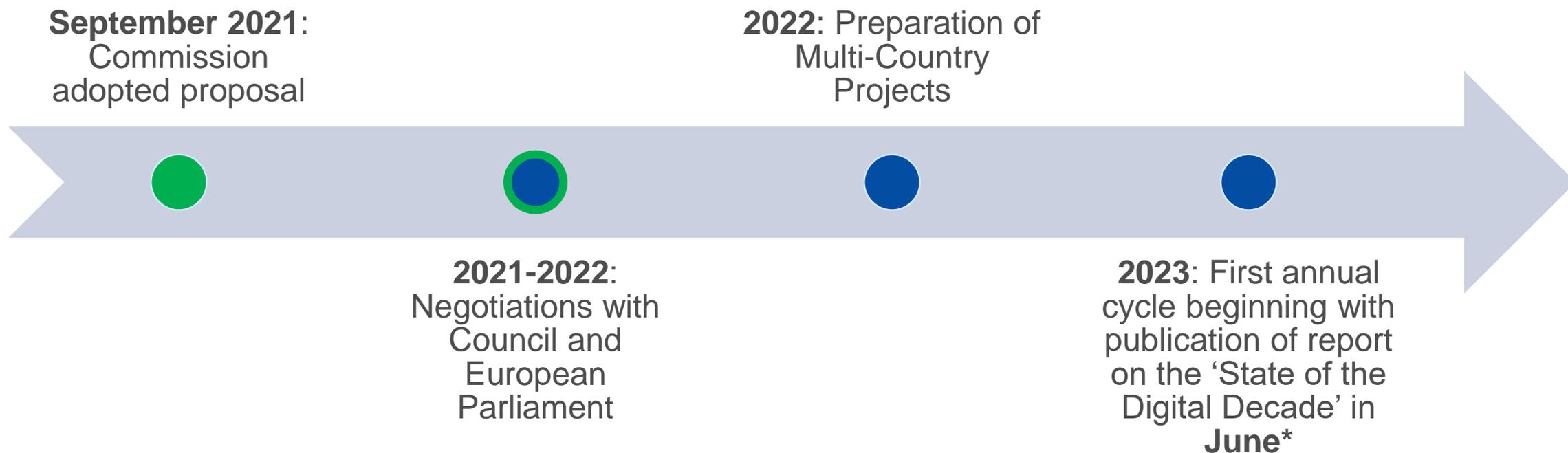
TARGET All services for citizens and businesses



What does the “Path to the Digital Decade” entail?

Defines and monitors digital objectives, targets and principles	Creates obligation to collaborate and coordinate action	Facilitates pooling of investments
<p>Enhanced DESI to monitor targets at EU level and digitization trends at national level</p> <p>Assessment of state of compliance with general objectives</p> <p>Measurement of Digital Principles implementation</p>	<p>National digital decade strategic roadmaps: Member States outline adopted or planned policies and measures in support of the 2030 targets</p> <p>Annual report on the “State of the Digital Decade”: Commission evaluates progress and recommends policies, measures and actions to address deviations</p> <p>Annual cycle of cooperation between Commission + Member States to identify areas for joint action and propose Multi-Country Projects</p>	<p>Mechanism to implement Multi-Country Projects</p>

Expected Timeline



* Overall timing of collection of data and publication of report will be **aligned with European Semester and Recovery and Resilience Facility** process

2030 DIGITAL DECADE

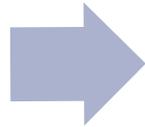
POLICY PROGRAMME:
A PATH TO THE DIGITAL DECADE

Thank you!

Initial definition of national roadmaps with projected trajectories

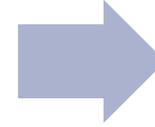
Around the time of adoption: Draft EU trajectories and guidance for national roadmaps

- Draft EU projected trajectories and methodological elements will be used to start the discussion with Member States
- Guidance developed by Commission Services to support Member States for designing their national roadmaps



Within a couple of months: Final EU Projected Trajectories

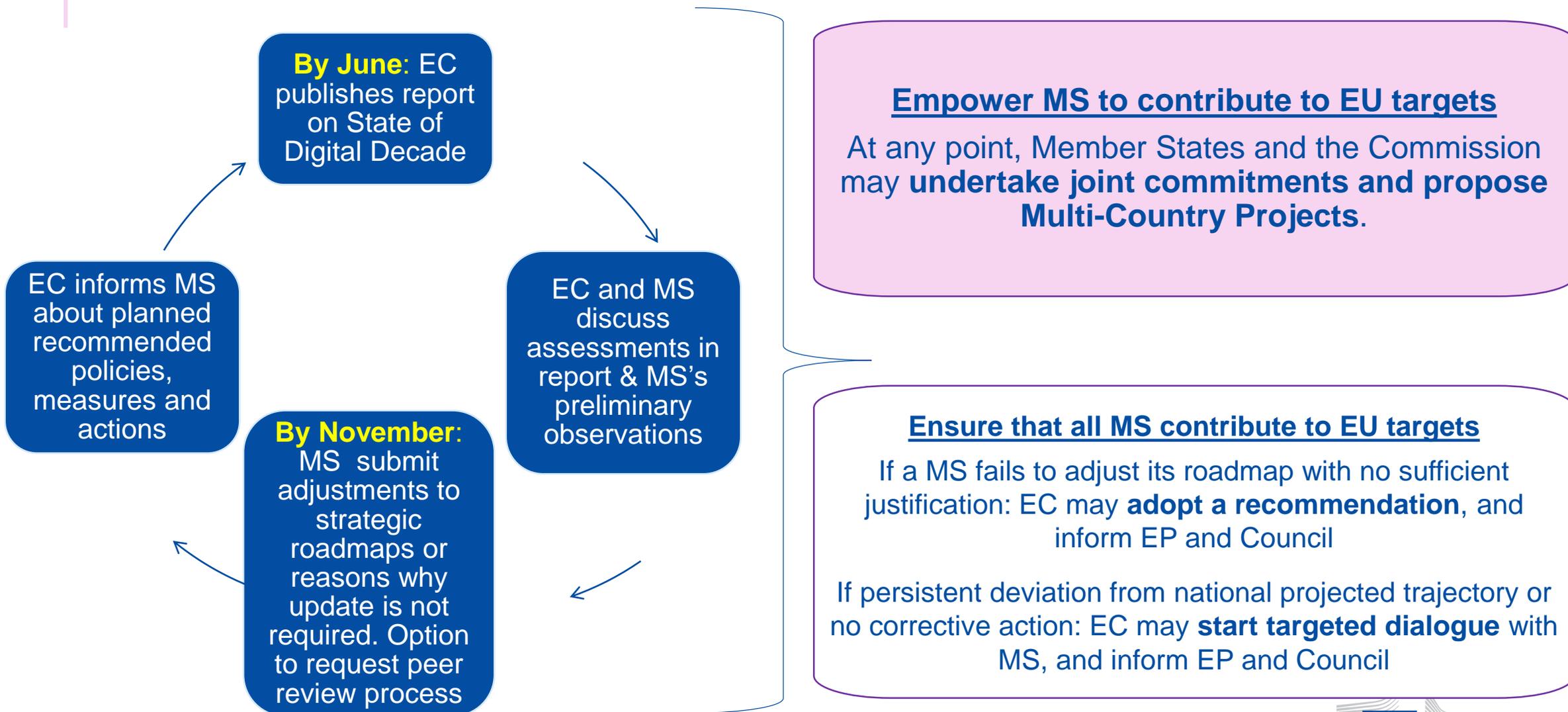
- Finalized by Commission in close cooperation with Member States
- Previewed in SWD and further developed in cooperation with JRC
- Based on historical data and current trends



Entry into force+6 months: National Roadmaps

- Developed by Member States
- Including translation of EU trajectories into national trajectories, where possible
- Supported by Commission guidance

Annual cycle of cooperation: process and outputs





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THE EUROPEAN WAY
FOR THE DIGITAL DECADE

Multi-country projects (MCP) & the European Digital Infrastructure Consortia (EDIC)

Andreas GEISS

HoU, Research Strategy and Programme Coordination

DG CNECT, European Commission

“Path to the Digital Decade”: Multi-Country Projects

- **MCPs** - large scale projects for the **digital transformation of the Union**; and **industrial recovery**
- MCPs will **pool EU, national, and private resources** to target strategically important areas
- The concept already been introduced to the MSs during the RRF negotiations
- Some MS have already outlined investments into MCPs in their RRP

Multi-country projects will facilitate investments in areas like:



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

Areas for Multi-Country Projects

- European common data infrastructure and services;
- Endowing the Union with the next generation of low power- trusted processors;
- Developing the pan-European deployment of 5G corridors;
- Acquiring supercomputers and quantum computers, connected with the EuroHPC;
- Developing and deploying an ultra-secure quantum and space-based communication infrastructures;
- Deploying a network of security operations centres;
- Connected public administration;
- European block chain services infrastructure;
- European digital innovation hubs;
- High-tech partnerships for digital skills through the Pact for Skills.

Proposal for cooperation with Member States

MS request, joint commitment or Commission recommendation triggers coordination of the implementation of an MCP.

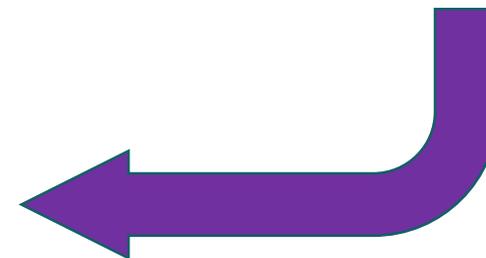


Step 1 of coordination:
The Commission publishes a call for expression of interest addressed to **all MS.**



Step 2 of coordination:
if at least **3 MSs** express interest in an MCP and propose commitments, **the Commission shall give guidance on the choice of the appropriate implementation mechanism, on the sources of funding.**

The Commission
either proposes an **existing implementation mechanism**
or gives guidance to set-up a **new European Digital Infrastructure Consortium (EDIC)**.
Commission's guidance is **not binding to MS**

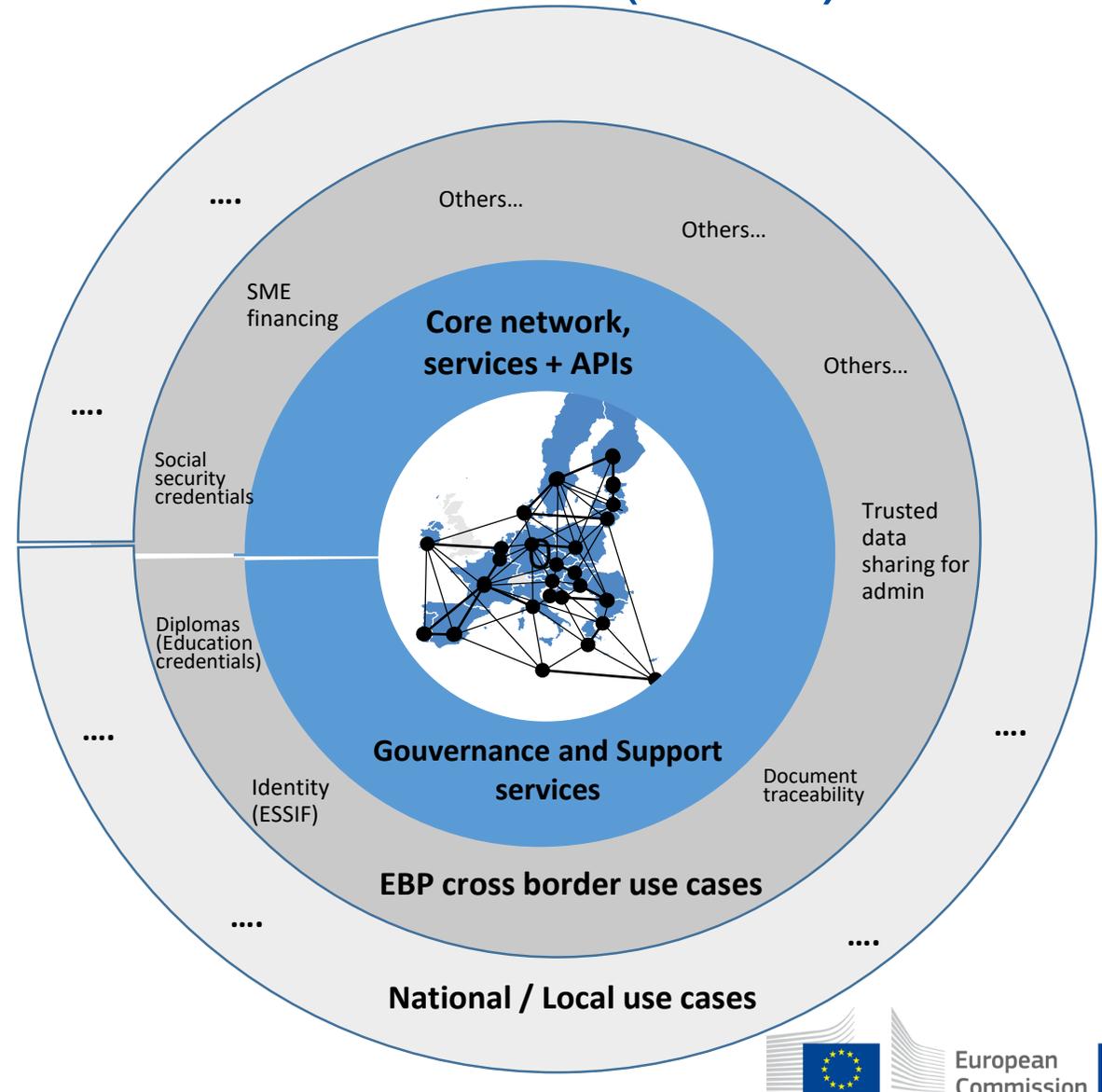


Added value of European Digital Infrastructure Consortium (EDIC)

MCP Implementation Format	Legal personality (mandatory)	Rapid set up	Outside the research realm	Membership: MS participation is mandatory	Membership: Flexibility (MS can join later)	Membership: Other entities than MS allowed (companies or intl organisations)	Governance: Voting rights proportionate to financial contributions of all entities	Financial liability: Limited to respective contributions of members	State Aid Rules: Assumption of Conformity	Exemptions from VAT and excise duty	Statutory Seat in one MS
Joint Undertaking (JU)	X	-	-	-	X	X	- (8)	X(9)	X	X	N/A
European Research Infrastructure Consortium (ERIC)	X	X	-	X(5)	X	-	X(7)	X	X	X	X(6)
Through Union's agencies	N/A	-	X	N/A	N/A	N/A	N/A	N/A	X	X	N/A
Important Projects of Common European Interest (IPCEI)	-	-	X	X (Min. 2, after rev. will be 4)	-	X(10)	-	-	X(4)	-	-
European Digital Infrastructure Consortium (EDIC)	X	X	X	X (Min. 3)	X	X(1)	X(2)	X(3)	X(11)	X	X

European Blockchain Services Infrastructures (EBSI)

- The EBSI is a **blockchain based infrastructure that offers cross-border public services**
- It is **developed by the European Commission in cooperation with the European Blockchain Partnership (EBP)**, all MSs + Norway and Lichtenstein
- **The vision is** for EBSI to become a network where EBP Members can **flexibly use the infrastructure** to cooperate for cross-border public services, **connect existing solutions or integrate specific services**
- **Use cases are identified, proposed and selected each year by the Partnership and the European Commission**
- They include **identity verification, trusted data sharing, exchange of credentials** (e.g; diplomas, social security info), **document traceability**, and others
- The EBSI aims also to become a network where **actors in EBP countries can use the infrastructure to propose other services** (e.g. from EU to national or local level)
- EBSI aims to develop interoperability with other networks.



European Blockchain Services Infrastructures (EBSI)

Why EDIC for the European Blockchain Services Infrastructure

- Will provide for a **legal vehicle that can conclude legal relationships** to ensure long term sustainability
- Will provide for a **legal personality needed to procure and operate infrastructure** and ensure long term operation
- Will include the **possibility to combine funding** to reach the necessary scale
- Will include the **EU Commission and the members of the European Blockchain Partnership** in the customized **governance** structure
- Will provide for the necessary level of **agility and flexibility**, compared to implementation through a funding instrument work programme



Identity verification



Trust data sharing



Exchange of credentials
(Diplomas, social security,...)



Document traceability

EuroQCI: An ultra-secure quantum communication infrastructure

- A European Cybersecurity Shield based on a quantum communication infrastructure (EuroQCI) spanning the whole EU Collaboration between 27 Member States, the Commission and the ESA
- A fully integrated satellite and terrestrial system, as part of the secure space connectivity system

EuroQCI space segment: distribution of quantum-secured encryption keys on a global scale



EuroQCI terrestrial segment: federation of national terrestrial QCI networks



Cross-border connection of EU capitals using fibre networks for exchanging cryptographic keys

Deliverables: first professional system in the world providing unbreakable trusted communications based on Quantum Key Distribution for the protection of government data & communications, telecommunications networks, data centres, critical infrastructure (energy, finance, etc.)

European Common Data Infrastructure and Services

Why EDIC for the Common European Data Spaces

- Enabling **coordination at EU level** and push for “EU-wide accessible” data spaces
- **Combining** EU, national and regional **funding** to reach scale
- **Flexibility for the Member States to become part of the EDIC at any time**



Health



Industrial &
Manufacturing



Agriculture



Finance



Mobility



Green Deal



Energy



Public
Administration



Skills

Why IPCEI for the Next Generation Cloud Infrastructure and Services

- **MS initiative** to set-up forward-looking industrial data processing capabilities (cloud to edge continuum) to secure EU strategic autonomy
- MS, industry and RTOs **supported by the Commission**, to jointly respond to industrial and end-users’ data processing needs
- Allow for large volume of joint investment, including national, private **via compatibility basis under State Aid rules**



Ultra-Secure and Sustainable
Data Storage



Highly innovative cloud and
edge services



New strategic data processing
capabilities



EDIC and IPCEI are complementary

2030 DIGITAL DECADE

POLICY PROGRAMME:
A PATH TO THE DIGITAL DECADE

Thank you!

Your Voice, Our Future

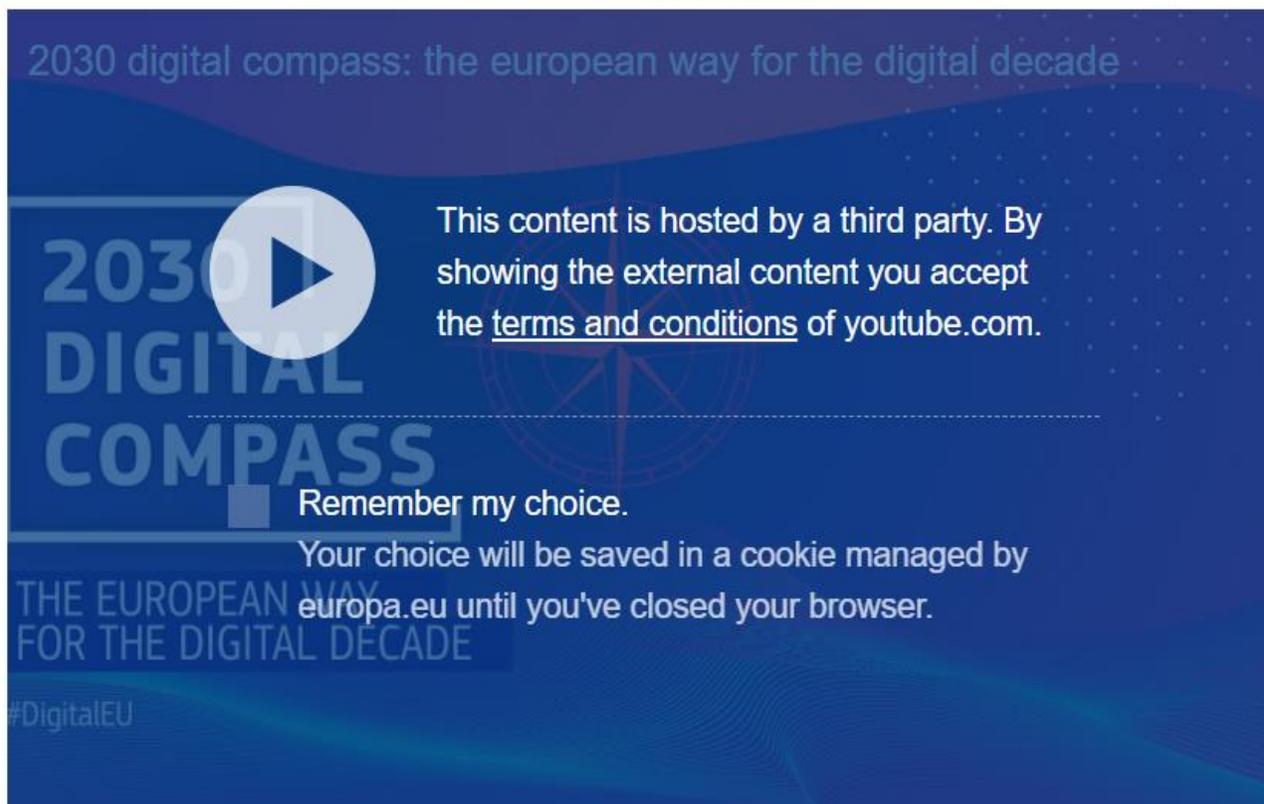
Futurium is a platform dedicated to Europeans discussing EU policies. Feel free to join any - or many of the groups of this platform.

You can browse the groups without registering, but for leaving a comment or for liking you need to be a registered user. You can easily create an account [here](#). You can post in any EU language; the community managers and other colleagues will do their best to respond in your language.

The platform is initially developed for digital topics, but any topic relevant for European Union is welcome to be addressed here. The name “Futurium” refers to the times ahead us, as our policies impact the future. The more we engage, the more we have impact on our future.

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2030 digital compass: the european way for the digital decade



2030
DIGITAL
COMPASS

THE EUROPEAN WAY
FOR THE DIGITAL DECADE

#DigitalEU

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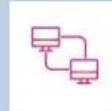
Europe's Digital Decade is your Digital Decade. Let's build it together. This is a space to share your views, ideas and questions on the Commission's concrete plan to achieve Europe's digital transformation by 2030, namely the Path to the Digital Decade. The community is divided into subgroups that reflect the different elements outlined in the Communication "2030 Digital Compass: the European way for the Digital Decade.". To post content within each of these subgroups, you first have to become a member. We recommend that you join "Governing the Digital Decade" and chose other groups based on your personal interest and expertise. You can also view aggregated content from all subgroups in the main forum. [Click here](#) for instructions on how to join groups and post content.



Governing the Digital Decade



Digital Skills



Digital Infrastructures



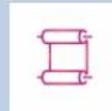
Digital Businesses



Digital Public Services



Multi-Country Projects



Digital Principles

Futurium



2030 DIGITAL COMPASS: YOUR DIGITAL DECADE

Group actions 

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Some examples

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The DESI 2021 report is out!

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Lavinia BIANCHI
16 November 2021 -
updated 7 hours ago

How digital are EU countries?

With +20% of [#NextGenEU](#) for [#DigitalEU](#), by 2030 they will all improve their:

1. Infrastructure [#DigitalSkills](#)
2. Digital tranformation of businesses
3. eGovernment

Check out your country's progress here: [Countries' digiti: Europe's digital future \(europa.eu\)](#)

Library
(digital businesses)



Best practices
(digital infrastructures)



VIDEO // Guifi.Net: A citizen's initiative to bring connectivity in rural Spain

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Guif.Net is a citizens' initiative aiming to make internet connections available to everyone in rural Catalonia.

With the help of volunteers, 40.000 "Guifi.net nodes" were installed and as a result more than 100.000 inhabitants are connected. The network is local, is considered as a "commons" and the inhabitants of the rural areas are able to enjoy the same internet speeds as the inhabitants of the urban areas.

The Digital Europe Programme - DIGITAL

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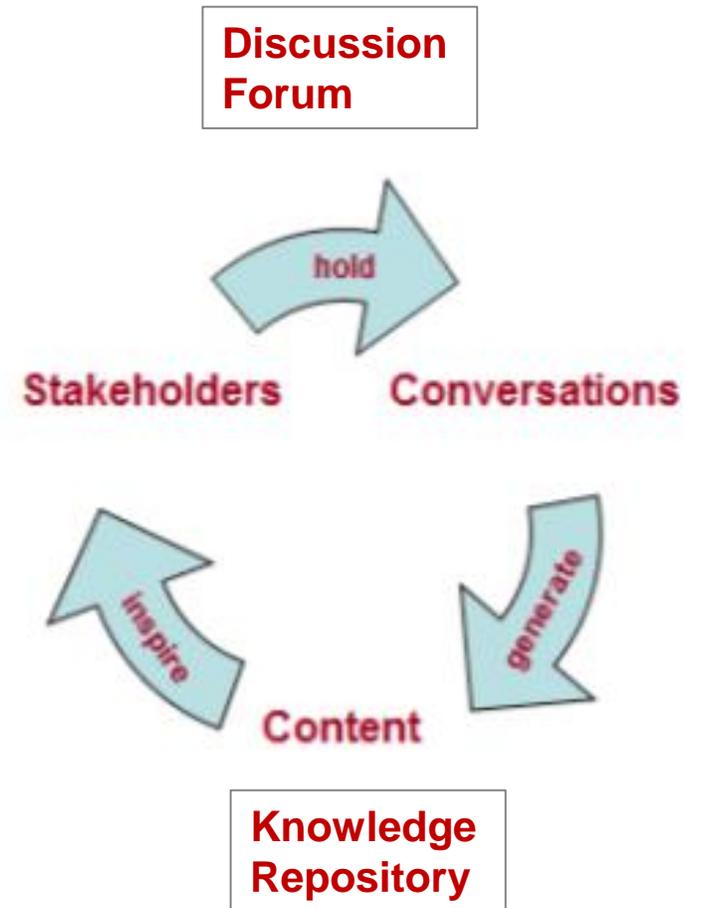


Axelle VAN DEN...
20 October 2021 - updated
3 weeks ago

The Digital Europe Programme (DIGITAL) is a new EU funding programme focused on bringing digital technology to businesses, citizens and public administrations.

Building a Digital Future together

- We don't only want to:
 - **Raise awareness** of existing/proposed EU initiatives
 - **Inform** stakeholders about targets
 - Highlight the importance of working for a digital future
- We also want to:
 - Prompt **your engagement**
 - Facilitate exchange of **best practices/shared knowledge**
 - Ensure that stakeholder input is relevant to the **governance cycle**



What would be important for you as a member of the community?