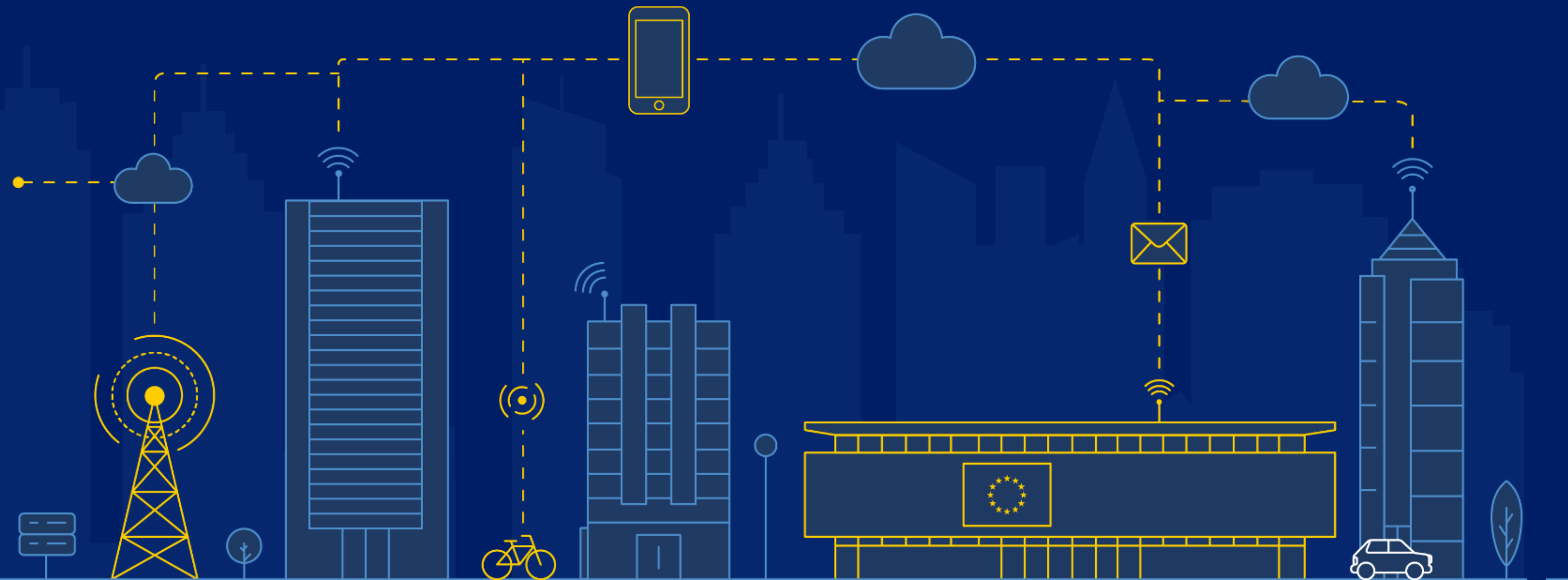




Identity for all: global problems, local solutions “*Det Europeiska Perspektivet*”

Gertrud Ingestad
Director General

DIGIT
Directorate-General
for Informatics



1. A Digital Europe

The Origins of the Single Market

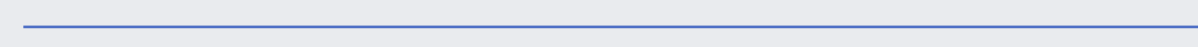
“Economic integration will make war not only unthinkable but materially impossible”

Robert Schuman



THE SINGLE MARKET

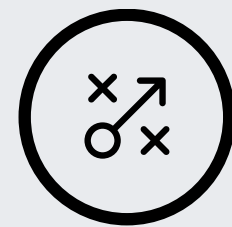
BUSINESSES



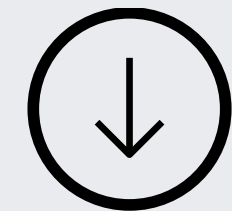
CITIZENS



economies of scale



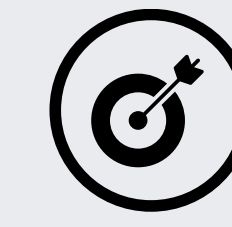
increased competitiveness



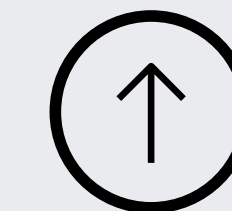
lower costs



cheaper products



more choice



more innovation

The Digital Single Market

Aims to ensure that citizens, businesses and public administrations can reap the the benefits that **digital** has to offer by making the single market work more efficiently.



The shift from paper to digital presents new challenges

At the heart of the digital transformation of public administrations is the shift from paper based public services to digital public services.

How can we ensure that citizens, businesses and public administrations can securely identify themselves and complete transactions online?

The eIDAS regulation was designed to support the transformation.

eIDAS ensures



Digital services have the same legal validity as traditional paper process



By ensuring that digital services can be trusted and work securely across borders



So that citizens and businesses benefit from the convenience of digital services and can make the most of the digital single market

Digital Transformation
powered by eIDAS provides
the legal and security
requirements to deliver
convenient online services
such as:



Submitting tax declarations online



Enrolling in a foreign university



Remotely opening a bank account



Setting up a business in another Member State



Authenticating an online payment



Bidding to an online call for tender

... and many, many more.

A background graphic consisting of a complex network of blue circles of various sizes connected by thin blue lines, resembling a digital or social network. The circles are more densely packed on the left side and become sparser towards the right.

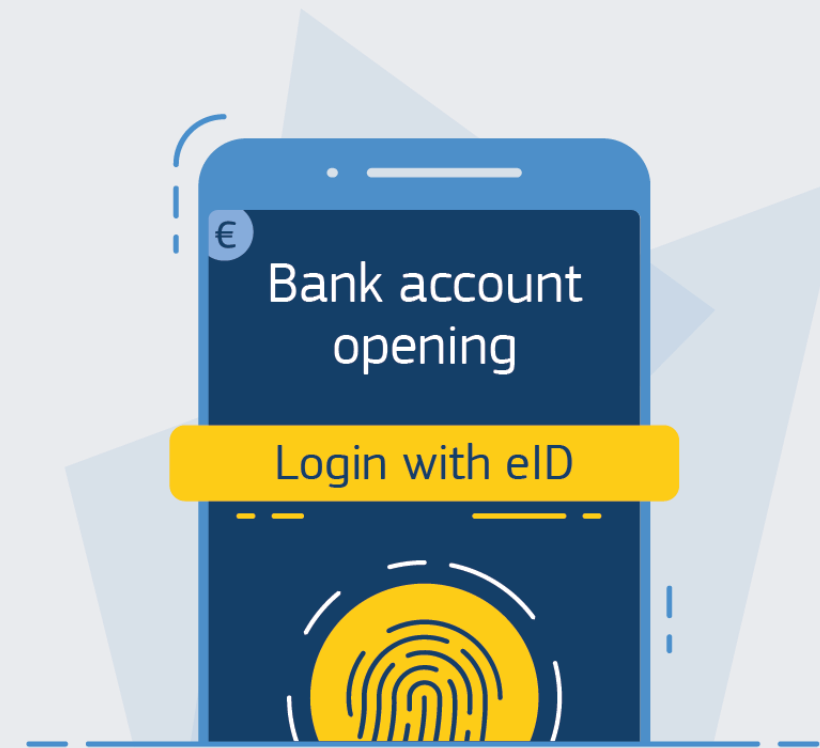
How is the Commission helping public administrations build eIDAS compliant digital public services in Europe?

The CEF Building Blocks

The Connecting Europe Facility's mission is to support projects to use basic components, based on standards, that will ensure systems can communicate with each other.

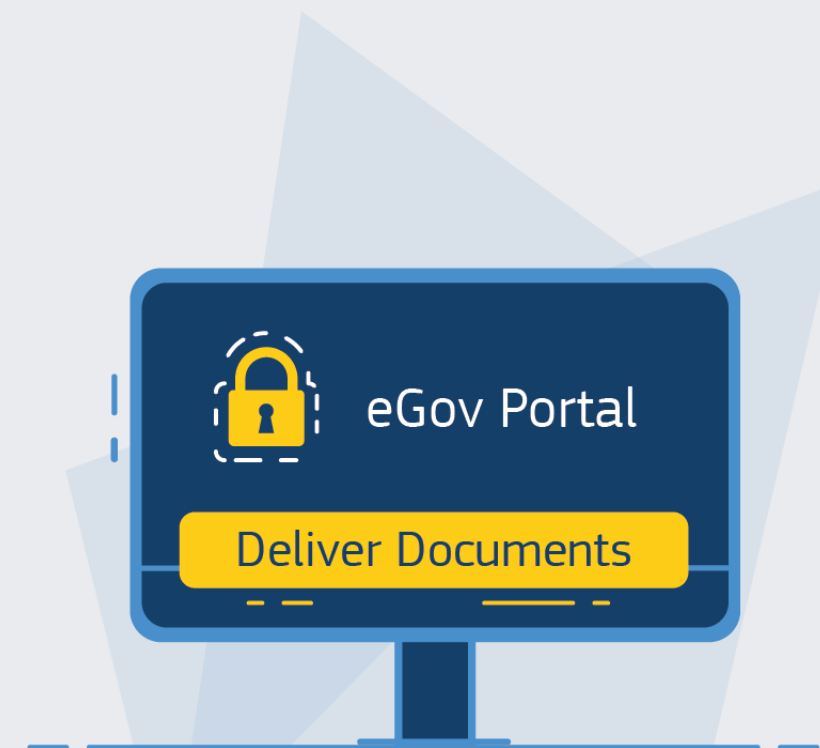
We call these **Building Blocks**.

Three CEF Building Blocks are built in compliance with eIDAS.



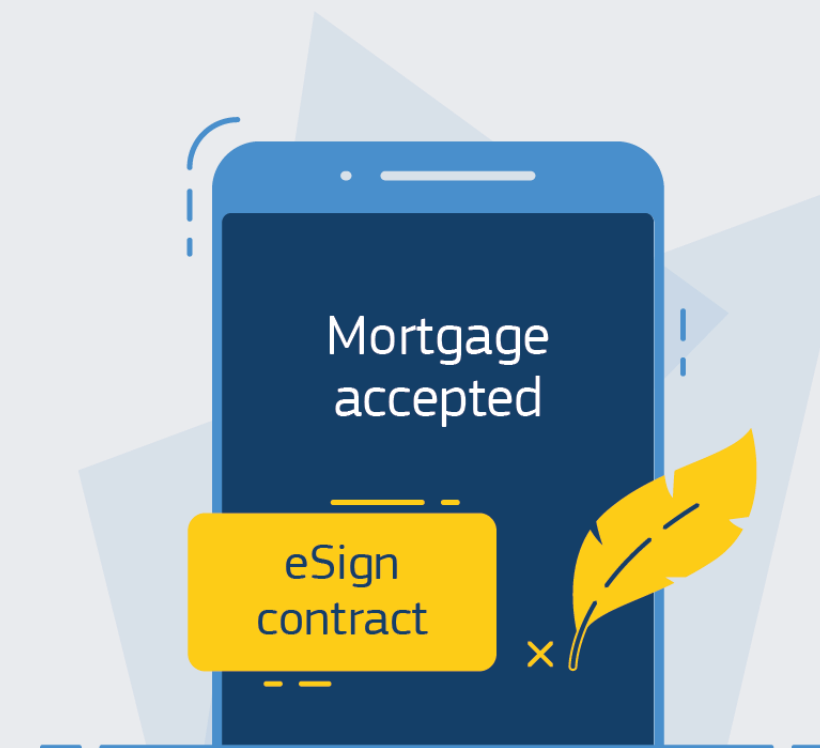
eID

Securely identify European citizens



eDelivery

Exchange data and documents securely



eSignature

Create and verify legally recognised electronic signatures

How do local level actors & businesses use eIDAS services?

<https://ec.europa.eu/digital-single-market/en/eidas-smes>

- ✓ Potential for eIDAS in [Aviation](#)
- ✓ Potential for eIDAS in [Banking](#)

Free of Charge



eIDAS Toolkit for SMEs including webinar presentations, infographics and supporting material.



eIDAS guidebook for businesses to help businesses to choose the appropriate eID and trust service solutions for their business.



eIDAS checklist for businesses A downloadable guidebook to help businesses understand and incorporate eID and trust service solutions into their daily business operations.

2. EU Login, EU Sign, eID

DIGIT provides Common Services (for EU Institutions) based on the CEF Building Blocks

some examples

The CEF building blocks are part of an EU funded program and therefore **for the EU Institutions and Member States**

CEF Building Blocks

CEF eID

CEF eDelivery

CEF eSignature

CEF eInvoicing

+ Hosting (infrastructure)
+ SLAs
+ Dedicated Ops teams

DIGIT operates a managed version of the CEF Building block. **These are for the EU Institutions only**

DIGIT Common Service

EU Login

EU Send

EU Sign

Corporate eProcurement

-

-

-

-

EU Login

What is it?

The **Corporate authentication service** of the European Commission...*and beyond*

Three user populations: European Commission, (most) European Institutions, external users (including many Member State officials)

12 authentication methods classified in three levels (BASIC, MEDIUM, HIGH)

Four client integration protocols

Neutral, inter-institutional look & feel

In-house development built on open source components and open standards



4.500.000+
active users

1.500.000+
authentications per day

950+
EU services using EU login

EU Login

What are the benefits?

You don't need to

Host and maintain a solution
yourself

Worry about compliance with
evolving standards and legislation

Ensure **technical support**

Handle the **evolution of the
product and services**

Make life easier for your users

- **Single Sign-On (SSO)** to all EU Login powered EU applications
- **Multi-factor authentication** (i.e. SMS, Mobile app)
- An EU Login **mobile app** available for Android, iOS and Windows
 - Signup **self-service**
 - Users can login with their **national eID**
(*Austria, Estonia, Germany operational; 11 more in pilot, including Sweden*)
- External users can access an EU Login-protected system by using **social media accounts**, without creating an EU Login account

EU Sign

What is it?

The **Corporate eIDAS compliant electronic signature service** of the European Commission...*and beyond*

Two user populations: European Commission, (some) European Institutions and bodies

eIDAS compliant, enabling advanced and qualified signature/seal

Services that enable signing, sealing and validating

Neutral, inter-institutional look & feel

In-house development built on open source components and open standards (including CEF eSignature)

eSealing of all ARES documents

eSealing of all OP formal publications
(including Official Journal)

Enables signing through national eID
(AT, BE, DE, EE, ES, LU)

The link to national, eIDAS compliant **electronic identity services** of EU Member States – and more



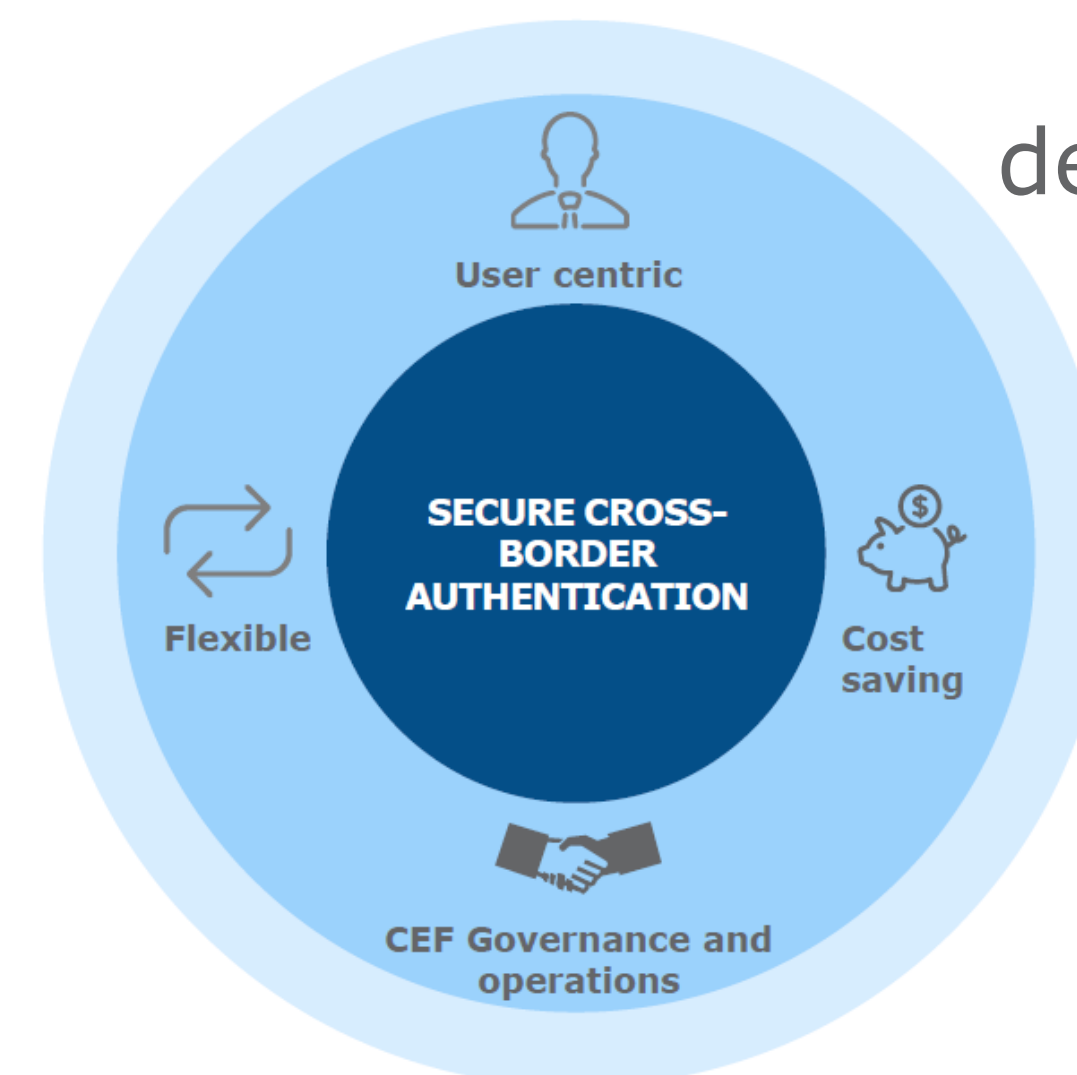
Total number of eID Conformance tests **22**

22 eIDAS-Nodes have successfully passed the conformance tests carried out by the CEF eID team

Enables mutual recognition of national electronic identification (eID) schemes

CEF eID provides a set of services (including software, documentation, training, validation and support)

Integrated into EU Login and EU Sign by the Commission



16 EU Member States are developing a national solution based on CEF eID Sample implementation

3. Looking ahead

EU Login, EU Sign, eID: Priorities



- **Support national eID Roll-out**
 - Support more Member States rolling out their eID solutions
 - Ambition: integrate more than half of MS in 2019
- **EU Sign as Corporate Service**
 - Provide eIDAS compliant solution available to all:
 - Advanced and qualified signatures/seals
 - Also relevant outside Commission
 - Lead by example: all DIGIT Managers to have qualified signature capability in 2019
 - Close coordination is vital, including with:
 - European Parliament: DIGIT to lead CII subgroup
 - Internal services (HR, DWP,...)
- **EU Login Corporate Solution as platform of choice for access to EU resources by all**
 - Integrate with Access Management (authorization)
 - Enrich Identity solution
 - Accelerate continue integration & federation, especially with National eID solutions

What's next



EU BUDGET FOR THE FUTURE
#EUBudget #EURoad2Sibiu #FutureofEurope

6 June 2018

INVESTING IN THE FUTURE DIGITAL TRANSFORMATION 2021-2027

WHY IS THIS A PRIORITY?

Digital transformation holds the key to unlocking future growth in Europe. Through new funding projects, the next long-term EU budget – the European Multiannual Financial Framework – will help to bridge the EU's digital investment gap for the 2021-2027 period.

WHAT'S NEW FOR 2021-2027?

The Digital Single Market strategy has put in place a robust framework, which must now be matched by an **equally robust investment programme** to make the most of many new opportunities digital transformation offers:

- Investments in digital will be much higher than before
- Focus on areas of public interest
- Reinforce several ongoing cooperation projects with the Member States

The Commission has created a **new Digital Europe programme** with an overall budget of **€9.2 billion** to shape and support the digital transformation of Europe's societies and economies. The programme will boost frontline investments in supercomputing, artificial intelligence, cybersecurity and advanced digital skills.

FIVE FOCUS AREAS UNDER DIGITAL EUROPE PROGRAMME:

- Supercomputing
- Artificial Intelligence
- Cybersecurity and Trust
- Advanced Digital Skills
- Ensuring the wide use of digital technologies across the economy and society

6 June 2018

Digital Europe Programme

- Aiming at the digital transformation of Europe's society and economy
- One fully dedicated programme in the EU budget reflecting the ever-increasing relevance of digital
- Main pillars of Digital Europe (overall budget €9.2 billion):
 - High Performance Computing (€2.7 billion)
 - Artificial intelligence (€2.5 billion)
 - Cybersecurity and **trust** (€2 billion)
 - Digital Skills (€0,7 billion)
 - **Digital Transformation and interoperability** (€1.3 billion)



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