Lehetőségek és elérhető támogatások

Átmenet a CEF Telecomból a CEF Digital-ba

Kneisz Ferenc
Szakértő, CEF Telecom EG tag és NCP

2020.11.25.

Új CEF koncepció

CEF is growth, competitiveness, jobs and social inclusion

CEF

H2020

ISA

Interoperability solutions for public administrations, businesses and citizens.

Research

Operation

Level of Maturity of services

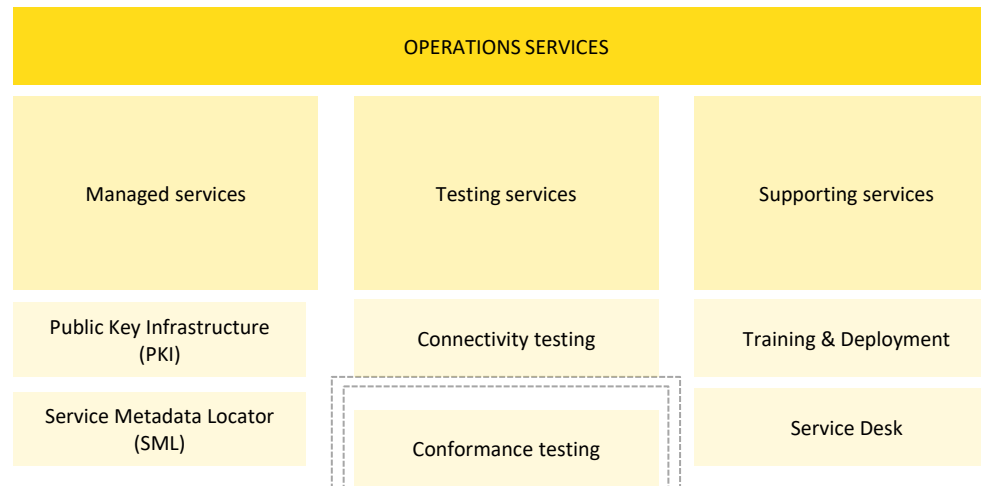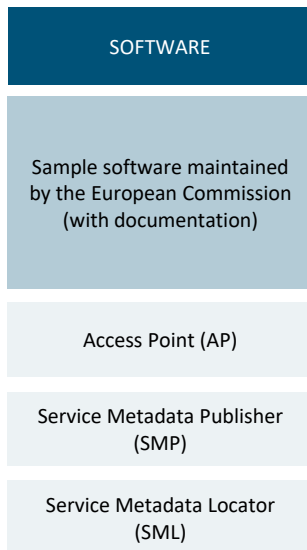Service development path

Buildig block struktúra

SCOPE Work Programmes 2014 to 2016		eDelivery	eSignature	eID	Automated Translation	eInvoicing
Well-established						
Europeana	2014-16					☑
Safer Internet	2014-16			☑		☑
Sector Specific						
eJustice portal	2016	☑	☑	☑		☑
EESSI	2016	☑		☑		☑
BRIS	2016	☑	- eJustice Portal -			
eProcurement	2015/16			☑		
Open Data	2014-16			☑		☑
eHealth	2015	☑	☑	☑		
ODR	2015	☑	☑	☑		☑
Building Block						
Automated Translation	2015/16	☑				
eInvoicing	2014-16	☑				
Cybersecurity	2015/16	☑		☑	☑	

eDelivery

ENABLING SERVICES
enabling the adoption of the core services

ENHANCING SERVICES
enhancing customer experience

SOFTWARE	OPERATIONS SERVICES			STAKEHOLDER MANAGEMENT SERVICES	
Sample software maintained by the European Commission (with documentation)	Managed services	Testing services	Supporting services	Onboarding services (for stakeholders)	Community management services
Access Point (AP)	Public Key Infrastructure (PKI)	Connectivity testing	Training & Deployment	Self-assessment tool (reuse approach)	Developers Community
Service Metadata Publisher (SMP)	Service Metadata Locator (SML)	Conformance testing	Service Desk	Onboarding of new stakeholders	Open Source Community
Service Metadata Locator (SML)				Stakeholders follow-up	

(example) TECHNICAL SPECS OF EU-WIDE INITIATIVES

e-SENS profile of the ebMS3 and AS4	PEPPOL profile of AS2 and SBDH

CORE SERVICES *facilitate cross-border/ cross-sector technical interoperability among heterogeneous information systems*

Digital Europe
Capacities & roll out

1. High Performance Computing (HPC)
2. Artificial Intelligence (AI)
3. Cybersecurity
4. Advanced digital skills
5. Digital transformation and interoperability

Digital in Horizon Europe
R&D&I

1. Digital under "global challenges"
   - Digital and industry cluster
   - Digital in other clusters - health, mobility, energy, environment,..
2. Open Innovation
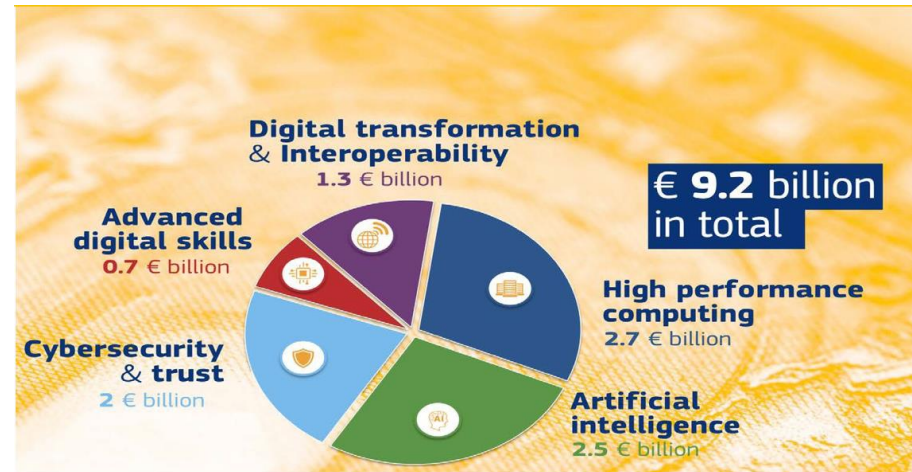3. Research Infra under Open Science

Recovery & Resilience Facility

Connecting Europe Facility - Digital
Connectivity

- 5G roll out
- BB 4EU, Connecting communities
- Synergies with Transport /Energy

Creative Europe
MEDIA

Invest EU
Research, innovation & digitisation

European Regional Development Fund/ Cohesion Fund

Digital Europe programme 2021-2027

Objective: *ensure that **Europe** <u>*drives*</u> *the digital transformation of society and economy, bringing benefits to* <u>*all*</u> *citizens and businesses*

Digital transformation & Interoperability 1.3 € billion

Advanced digital skills 0.7 € billion

€ 9.2 billion in total

High performance computing 2.7 € billion

Cybersecurity & trust 2 € billion

Artificial intelligence 2.5 € billion

		Deployment and best use of digital capacities												
		Aiming for high impact deployments										Widening the best use of digital technologies		
		For climate and environment			For modern public services					In technological areas				
		Clean Planet	Smart Communities and Mobility	Agri-food	Health and Care	Citizen-centric digital public services	Justice	Security	Cultural Heritage	Blockchain	Cloud Federation	Building Trust	Language Technologies	Learning and Education
Capacity building	High Performance Computing	x	x	x	x			x					x	
	Artificial Intelligence	x	x	x	x	x	x	x	x	x	x		x	
	Cyber-security		x	x	x	x		x		x		x		
	Advanced Digital Skills	x		x	x					x				
	European Digital Innovation Hubs													

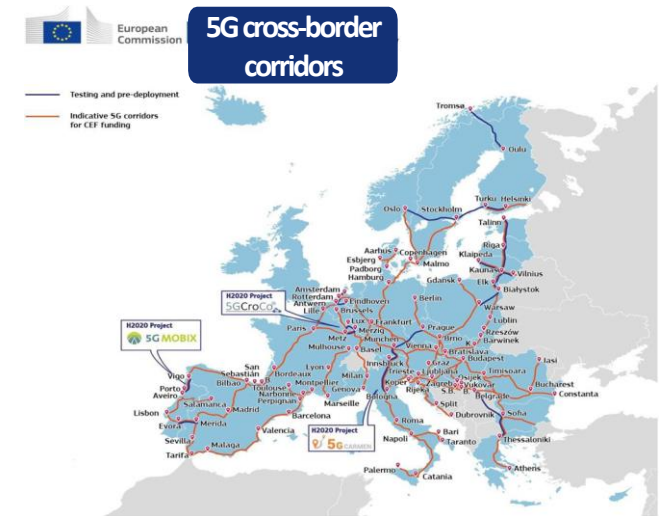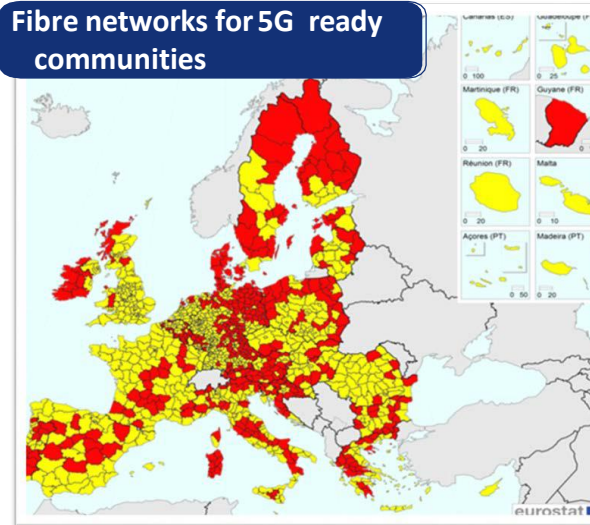Support digital transformation of areas of public interest

Support digital transformation of industry

- Digital transformation of for better and sustainable **Health and Care**
  - i. Connecting health data (infrastructures, interoperability)
  - ii. Building trust and innovation for digital health and care
  - iii. Advanced digital skills for health and care professionals
- Clean, sustainable and **Smart Communities and Mobility**
  - i. Deployment of Open Cross-sectorial Urban Digital Platforms and Cross-border Mobility as a Service Solutions
  - ii. Deployment of innovative smart city and smart mobility applications by SMEs and start-ups
  - iii. Establish world-reference testing and experimentation facilities
- **Blockchain**

  - i. Deployment and enhancement of European Blockchain Services Infrastructure
  - ii. Deployment of services of public interest (and their possible integration in EBSI)

- **Digitizing Public Services**
  - i. Roll-out of the Digital Transformation platform and the Once-Only Principle technical infrastructure at local and regional level
  - ii. Implementation of the interoperability incubator infrastructure for testing innovative GovTech services

- **Agri-food**
  - i. Develop/scale up large-scale reference experimentation and testing facilities
  - ii. Ensure the link/collaboration between the network of specific agri-food hubs and the network of European DIH

- **Digital Culture**
  - i. Digital transformation of cultural heritage institutions through deployment of innovative and emerging technologies, in particular 3D
  - ii. Europeana
- **Building trust for digital transformation**
  - i. Safer internet for kids
  - ii. Platform for combating disinformation

- **Language Technologies**
  - i. Standards and technology to allow artificial intelligence resources to be usable under local language requirements
  - ii. Automatic aggregation of existing data sets and access to appropriate high performance computing power

- **Digital transformation of learning and education**
  - i. Digital transformation of schools

Pillar 1

- CEF2 Digital should help communities by **accelerating private Gigabit network investments** in areas where business cases for such investments are difficult.

- **Comprehensive deployment projects** would thus build energy efficient fibre infrastructures **to connect all SEDs and households a target area**, to make digital services, including innovative 5G applications, available across Europe.

- **Efficient stand-alone deployment projects** of Gigabit networks to priority SEDs in regions with more severe market failure

Fibre networks for 5G ready communities

European Commission

5G cross-border corridors

Pillar 2

- To **ensure universal access to HPC resources**, CEF2 Digital could support **targeted investments** in ultra-high capacity and low latency links **to interconnect the HPC centres** and facilitate the connectivity bridging with cloud providers.

- **Targeted investments for cross-border**, secure, energy efficient and high speed connectivity to **interconnect existing cloud infrastructures across the EU**.

- Strategic deployments of **submarine** cables, can have a **positive impact on capacity and the commercial offers of backbone connectivity**

- Fund operational digital platforms that ensure that **digital services in the energy and transport networks can be implemented throughout the EU**

Köszönöm a figyelmet!

www.kifu.gov.hu

Kneisz Ferenc
ferenc.kneisz@kifu.gov.hu

2020.november 25.