



# How can the European Commission help you empower your city?

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Avoid vendor lock-in with EU-approved, interoperable solutions

# The new data needs of cities

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## Neutrality

Cities need digital solutions and platforms to manage their data needs in a way that prevents **vendor lock-in** and allows them to operate **in a technology-agnostic way** in order to remain neutral

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## Interoperability

Cities need their digital solutions and platforms to **communicate with each other** in order to **capitalise on all parts of the data ecosystem**

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## Sustainability

In a landscape of rapidly evolving technologies, there is a need to build **future-proof**, sustainable solutions

# Since 2014, we've been...

## REGULATING

eIDAS, OOP, SDG...  
are the new regulatory  
framework for the Digital  
Age

## ENABLING

Building Blocks are the digital  
bridge connecting the National  
and European digital  
infrastructures

# Building Blocks are sustainable, EU standards-based digital components

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To create a vibrant cross-sector  
& cross-border ecosystem for  
the digital age

# What is a Building Block?

A basic digital component based on **standards** – these help **interconnect European digital infrastructure**, and help PAs and businesses comply with existing **EU Regulations** empowering digital transformation

1

## Standards

All Building Blocks are based on **standards**; any digital service or product using a Building Block will therefore be **EU-compliant, interoperable** and **secure**

2

## Software

A Building Block can also be (sample) **software**, or **software as a service**, to be implemented in your project

3

## Support

A Building Block team helps implement the Building Block in your project, providing training, support and testing your service for compliance so it's interoperable **across sectors and borders**

# Meet CEF's Building Blocks



## Big Data Test Infrastructure

Experiment with big data in a safe test environment to inform decision making and improve performance



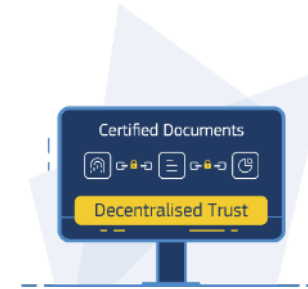
## Context Broker

Collect and analyse diverse data, sharing it in a useable format in real time



## eArchiving

Preserve, migrate, reuse and your data with secure digital archiving



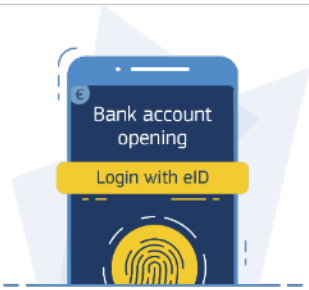
## European Blockchain Services Infrastructure

Harness the power of a European-wide network of blockchain services, increasing trust through data security, privacy and transparency



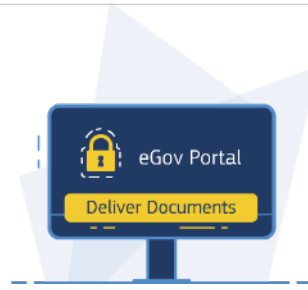
## eInvoicing

Implement cross-border, B2G electronic invoicing in line with the European standard



## eID

Empower citizens to verify their identity across borders, making it easier to access online services in other EU Member States



## eDelivery

Exchange online data and documents reliably and securely



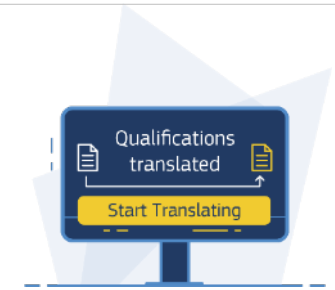
## eSignature

Create and verify electronic signatures between businesses and EU citizens



## Once Only Principle

Re-use data held by Public Administrations.



## eTranslation

Use machine translation to translate your documents and web content into any official EU language, Norwegian or Icelandic

# Finding the most effective treatment for COVID-19

**CEF's BDTI** will allow researchers in **Valencia**, Spain to **identify patterns** in the medical literature faster using **Machine Learning** and **Natural Language processing**

[Read more](#)

# Contact-tracing in Italy using aggregated data

**CEF's Context Broker** is being used in a severely affected municipality in **Italy** in order to aggregate data from several sources in order to perform **real-time patient tracking, contagion maps** and predictive analyses for **covid-19**.

[Read more](#)



# How can I use a Building Block?

## Buy

**Buy a compliant, interoperable solution** from the market.

## Reuse

Reuse a **sample software** available through **CEF Digital**.

## Build

**Build** an EU-compliant solution from scratch **based on Building Block standards**. We'll help you test it for compliance and interoperability.

## Support

Whatever you choose, **the relevant Building Block team will support you** in implementing the Building Block in your project with **training, funding, sample software,**

## We're connecting Europe

206

Projects that we know of  
**reusing** the Building  
Blocks

36

Projects that we know of  
**committed to reusing**  
the Building Blocks

70

Projects that we know of  
**committed to analyse**  
the Building Blocks

# Why work with us?

## Ready to use

You can use the European Commission's Building Blocks immediately – they are mature solutions, and allow you to build **future-proof, cross-border, interoperable** applications without being locked with one vendor.

## Community

When you implement a Building Block, you join a **community** of users, growing your network and learning from each other.

## Make an impact

Reusing a Building Block allows you to contribute to the **digitalisation of Europe** and benefit **other EU administrations, businesses, and citizens.**

# Get in touch!

[cef-building-blocks@ec.europa.eu](mailto:cef-building-blocks@ec.europa.eu)

