### ECA, Luxembourg 27-28 November 2019

## Big and Open data for EU Supreme Audit Institutions

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**EUROPEAN** 

COURT OF AUDITORS

### Why are we here today?

# Reality + Audit + EU

- Reality is rapidly changing and is becoming digital.
- We need to understand reality in order to audit it.
- We are all part of the EU and we try to benefit from this
  - ECA as an EU institution
  - SAIs as public bodies in the EU Member States



## What can we do ?

We can foster cooperation of EU SAIs on Technology and Innovation for Audit (TINA)

We can join forces (*Network*) using knowledge, creativity and *technology* ...

- ... to innovate in auditing the changing reality...
- ... leveraging tools and collaboration conditions that are *specific for EU* Member States...
- .... within the *specific EU* institutional, policy and regulatory context.

**Remember**: Public administrations of EU Member States can both USE and influence the EU context.



## Common context...

- GDPR regulation
- Public Sector Information directives
- Taxation
- Common Agricultural policy
- Structural Funds
- Eurozone
- Research funding programmes
- Infrastructure development programmes
- Talinn declaration on e-government
- European Blockchain Partnership



. . . . .

Digital Service Infrastructures available through the **Connecting Europe Facility** 

https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/CEF+Digital+Home

### **CEF Building Blocks**

Digital building blocks to help teams deliver digital public services faster, comply with regulation and make the digital single market a reality.

#### SUCCESS STORIES

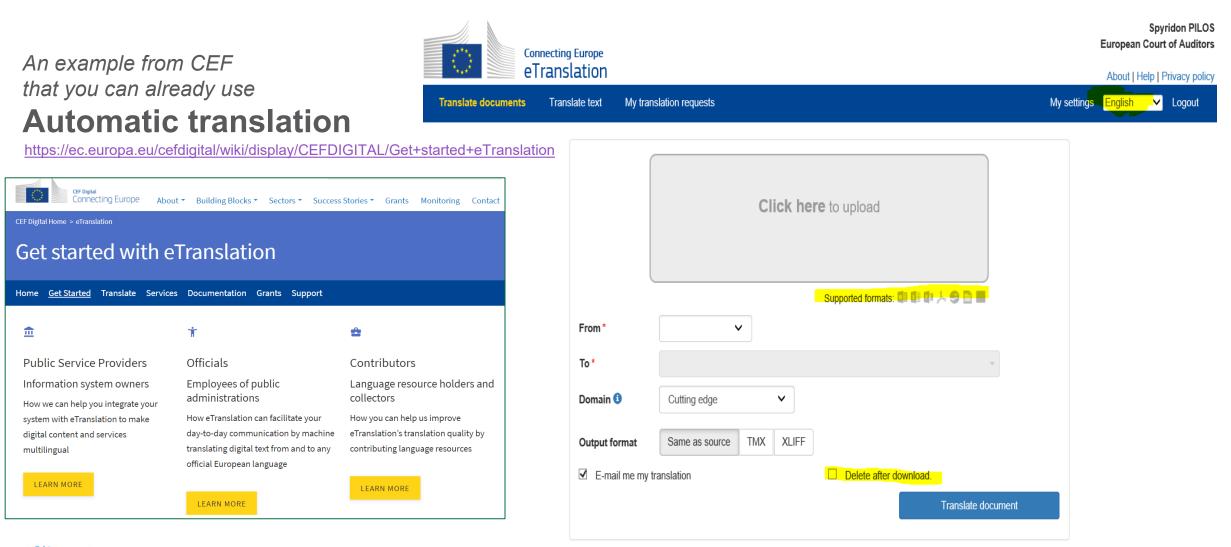
#### THE BUILDING BLOCKS

Search The building blocks are basic capabilities that can be reused in any project to facilitate the delivery of digital public services across borders and sectors. Big Data Test Infrastructure Context Broker Connectina Europe About -Building Blocks -Success Stories Sectors < Grants Monito Helping public administrations experiment with their big data for insights that lead to The building block enabling organizations (including public administrations) to share **Business registers** data in real time at the right time. better decisions and strategic moves. Culture Cybersecurity Health eArchiving eDelivery **Connecting Europe** Justice Specifications, software, training and knowledge to tackle the challenge of data Supporting electronic registered delivery of data and documents. Open Data management. Procurement Safer Internet The Connecting Europe Facility building blocks are nyone Social Security eID elnvoicing who wants to build great European digital services Smart Cities Extending the use of online services to citizens of other EU Member States Helping public entities adopt the European standard on electronic invoicing. SUCCESS STORIES DIGITAL BUILDING BLOCKS eTranslation eSignature Creating and verifying electronic signatures. Exchanging information across language barriers in the EU Member States.

#### Once Only Principle

Reduces administrative burden for individuals and businesses.







### An example from CEF tunder development with Member States EBSI (European Blockchain Services Infrastructure)

https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/ebsi

### The 2019 EBSI use cases

Four use cases have been selected for 2019. For each use case, a Member State led a established. These user groups aim to deliver a prototype application on the EBS14 will be selected by the EBP Policy Group for 2020.

Blockchain for Audit EU SAIs network, led by ECA



Leveraging the power of blockchain to create trusted digital audit trails, automate compliance checks in timesensitive processes and prove data integrity.



Giving control back to citizens when managing their education credentials; significantly reducing verification costs and improving authenticity trust.

#### Blockchain

European Blockchain Services Infrastructure (EBSI)

#### Home Services Documentation Support



### Introducing the European Blockchain Services Infrastructure (EBSI)

Blockchain technology has enormous potential to enhance the way that citizens, governments and businesses interact, by enhancing trust between entities and improving the efficiency of operations.

The European Blockchain Services Infrastructure (EBSI) is a joint initiative from the European Commission and the European Blockchain Partnership (EBP) to deliver EU-wide cross-border public services using blockchain technology. The EBSI will be materialised as a network of distributed nodes across Europe (the blockchain), leveraging an increasing number of applications focused on specific use cases. In 2020, EBSI will become a CEF Building Block, providing reusable software, specifications and services to support adoption by EU institutions and European public administrations.

300+

Contributors

and counting





Leveraging blockchain technology to securely share

Trusted Data Sharing

E4M Budget invested 2019-2020

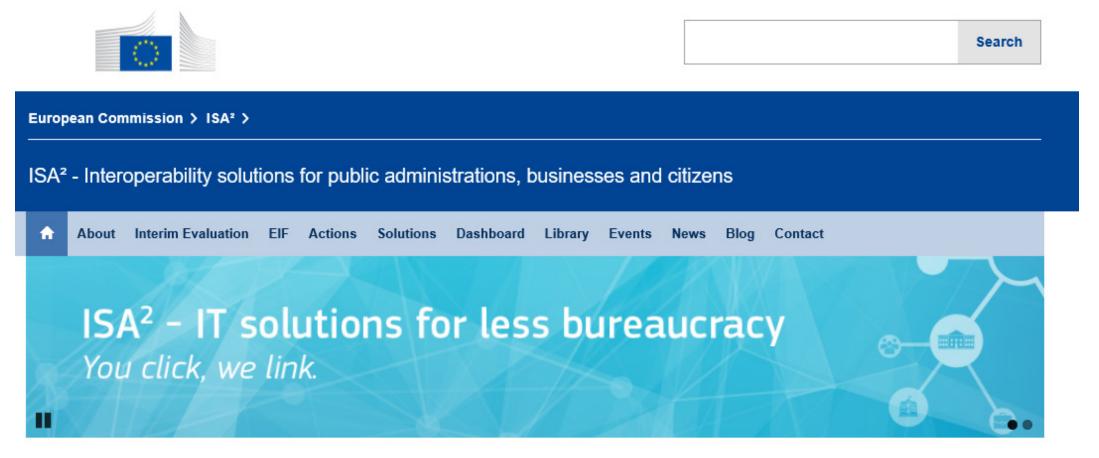
Use cases selected in 2019

**EBSI Key Figures** 

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### Interoperability Solutions for public Administrations programme (ISA)

https://ec.europa.eu/isa2/home\_en





An example from ISA2

**Joinup** collaborative platform for e-Government professionals

https://joinup.ec.europa.eu/



Share and reuse Interoperability solutions for public administrations, businesses and citizens

Q Start typing to search...



CONECTIONS

Collaborate around thematics

2829

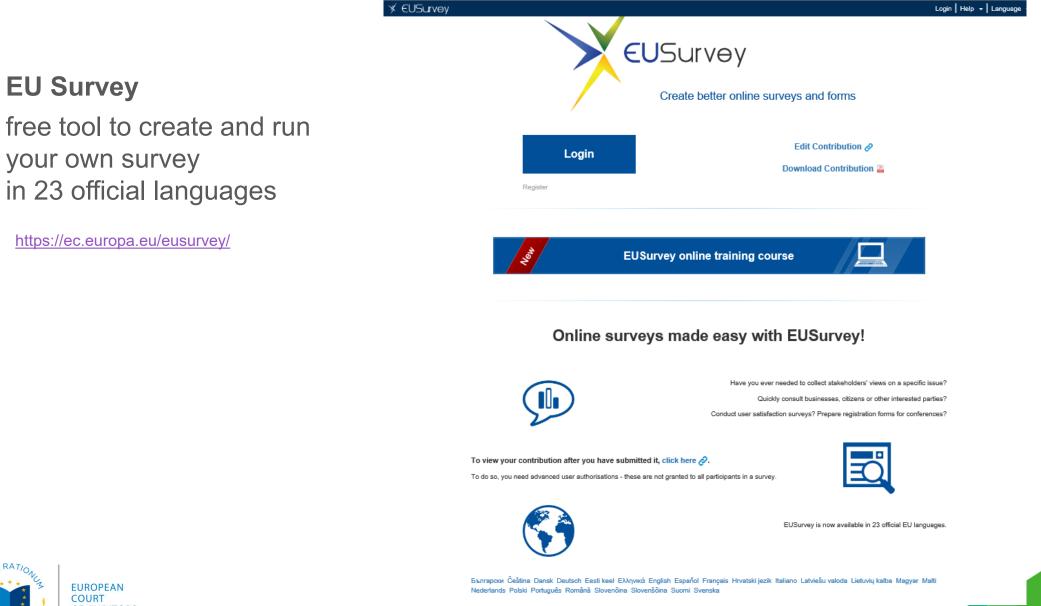
Interoperability solutions ready to use



Events, discussions, news ...

To keep you up to date

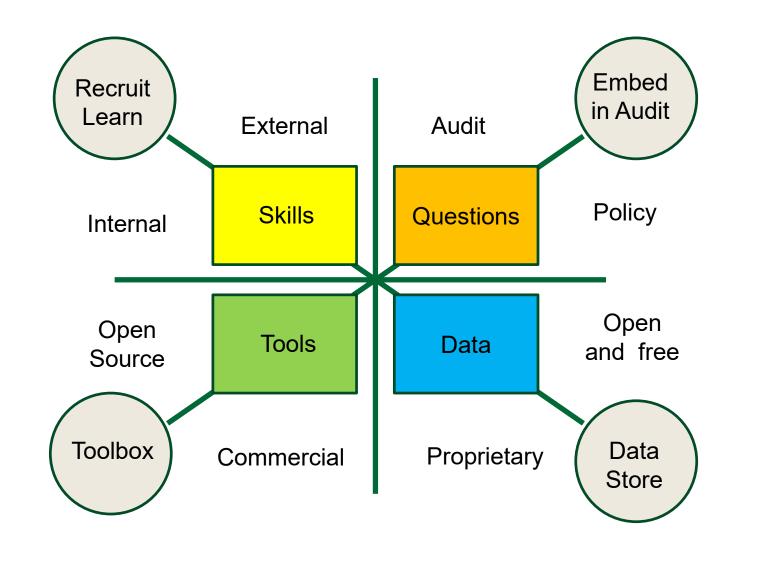




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#### = $\Pi$ $\Pi$ **Top Stories** QSearch UPDATED EVERY 10 MINUTES, 24 HOURS PER DAY. Current top 10 stories Main Menu European Language: en Period: Nov 26, 2019 1:50 AM - Nov 26, 2019 1:50 PM Tools Top Stories Tuesday, November 26, 2019 200 Media 24 Hours Overview 2:11:00 PM CET Events Detection 2 RSS | KML | MAP Most Active Themes 0000 **Monitor** Help about EMM 150 Facebook Overview Advanced Search subscribe | manage Sources list https://emm.newsbrief.eu/ 100 0..... info Web Site Map n ANDROID APP ON Available on the App Store > Google play ~00000000 EU Focus 50 EU Policy Areas 2:00 4:00 6:00 8:00 10:00 12:00 Languages 🗖 Select top stories in other languages. Themes 13 French soldiers killed in helicopter collision in Mali bg da el ar CS de Articles : 132 | Last update : Nov 26, 2019 1:38:00 PM | Start : Nov 26, 2019 9:56:00 AM | Sources : 102 | Peak : 1 | Current rank : 1 es et fi fr hr en Mali: MINUSMA Chief pays tribute to the memory of fallen French soldiers 🗹 The World reliefWeb Tuesday, November 28, 2019 1:25:00 PM CET | info [other] hu it lt lv mt nl Bamako, 26 Novembre 2019 – MINUSMA Chief paid tribute this morning to thirteen French soldiers of Barkhane Force who pl pt ГO ru sk sl were victims of an accident between two helicopters during a combat operation against jihadists in Mali. "The French Offices & Agencies SW tr zh SV operation, Barkhane, is relentlessly working in the Sahel and Mali... Show additional languages More articles. $\mathbf{\vee}$ Interface: en - English Albania earthquake kills 14; rescuers hunt for survivors Legend 🕂 Articles ; 261 | Last update ; Nov 28, 2019 1:38:00 PM | Start ; Nov 28, 2019 4:55:00 AM | Sources ; 118 | Peak ; 2 | Current rank ; 2 14 dead after powerful earthquake hits Albania 🗹 Stuff Tuesday, November 26, 2019 1:36:00 PM CET | info [other] "It is a dramatic moment where we should preserve calm, stay alongside each other to cope with this shock," Prime Minister Country Watch Edi Rama said, thanking countries that offered support. The Health Ministry reported about 600 people had been injured, The country most in the news at the moment. with some in serious condition ... × EUROPEAN More articles. COURT United Kingdom (GB) **OF AUDITORS** Six dead as strong quake rocks Albania News about United Kingdom Articles : 147 | Last update : Nov 26, 2019 1:21:00 PM | Start : Nov 26, 2019 6:00:00 AM | Sources : 93 | Peak : 1 | Current rank : 3

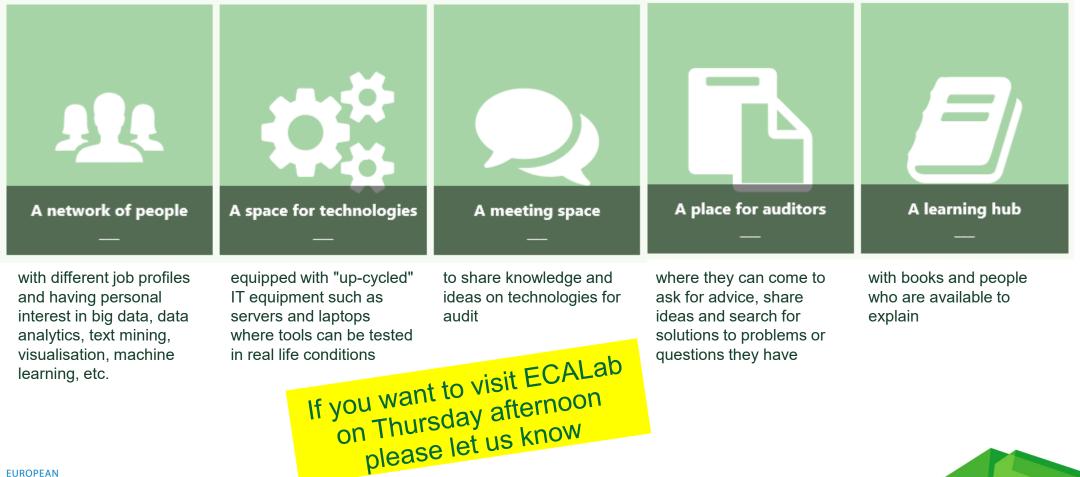
## *Reality+Audit = it's all about data...*







Created in 2017 as a step towards establishing data services tailored for audit, the ECALab is:







### Impossible to predict impact of emerging technologies We need to be prepared

# Reality + Audit + EU = TINA



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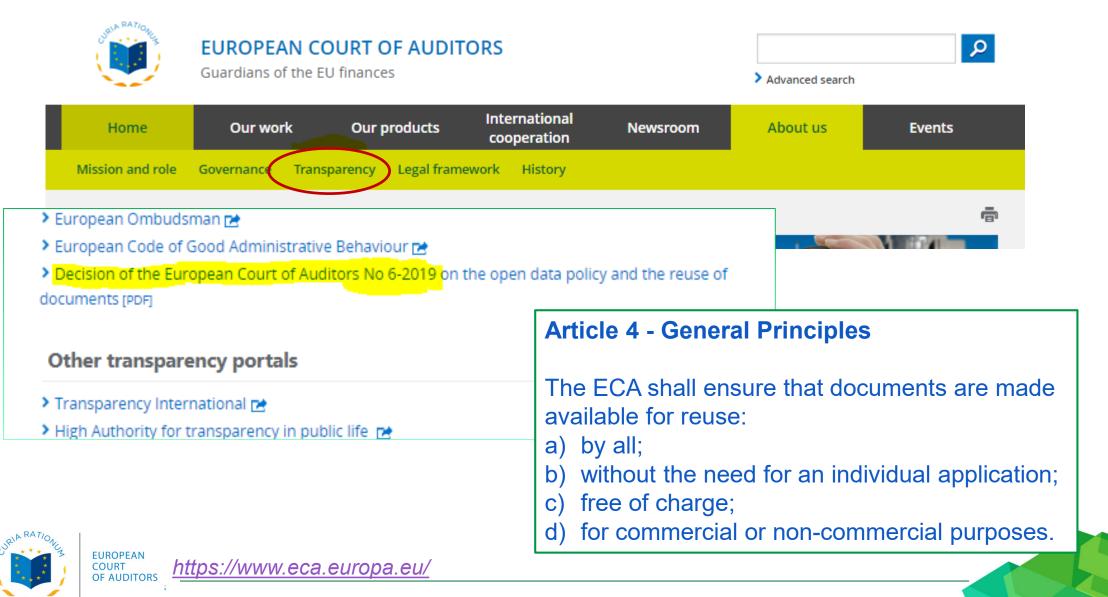
Policy and practitioners from the European Commission

Practitioners from the EU Supreme Audit Institutions

**Discuss, Share, Network** 



## ECA Open data decision: 16 April 2019



ECA, Luxembourg 27-28 November 2019

## Big and Open data for EU Supreme Audit Institutions



EUROPEAN COURT OF AUDITORS

