



HYPERLEDGER IN DEPTH: An Hour
With...

Alastria – Understanding their mission to promote the digital economy and how the Hyperledger community is involved

Wednesday, May 5, 2021 | 6:00 pm CET
(9:00 am PST/12:00 pm EST)



Jesús Ruiz

Member of the Board
and CTO
*Alastria Blockchain
Ecosystem*



Brian Behlendorf

General Manager for
Blockchain, Healthcare
and Identity at the Linux
Foundation

Housekeeping



Antitrust Policy

Linux Foundation meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws.

For full policy,

<http://bit.ly/HyperledgerAntiTrust>



Recording

Session is being recording and will be available in hyperledger.org/resources/webinars



Slide Download

The slides will be available for download in the video description

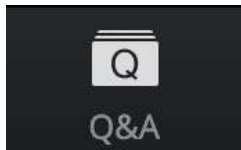
Hyperledger In-Depth - how to participate



Raise Hand

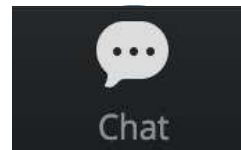
Everyone is allowed to speak, but let's stick to good practice of muting when not speaking.

If you want to say something but don't want to interrupt - raise your hand



Ask Questions

If you are shy or your mic is not working, use the Q&A box.



Talk and Comment

For side chats and tech issues use the chat.



ALASTRIA

Association of Decentralized / Blockchain Technologies

Jesus Ruiz

Member of the board and CTO

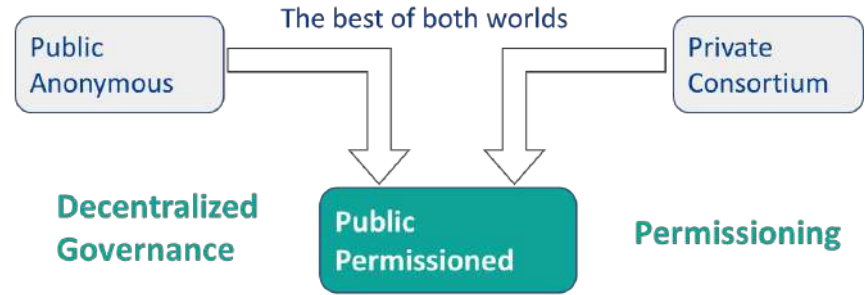
1972: first public data network in the world

“Under the model of **public network**, any natural or juridical person can contract access to the network and perform data exchanges with any of the other data terminals connected to the network”.

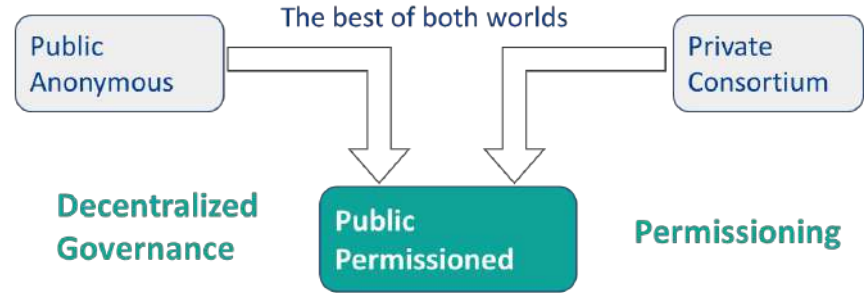
Spain 1972: The first public data network in the world

	NETWORK	YEAR
España	RETD/ RSAN	1972
	IBERPAC X.25	1985
Alemania	DATEX-P	1981
Austria	DATEX-P	1983
Bélgica	DCS	1982
Dinamarca	DATAPAK	1984
Finlandia	DATAPAK	1984
Francia	TRANSPAC	1978
Holanda	DN-1	1981
Irlanda	EIRPAC	1984
Italia	ITAPAC	1985
Luxemburgo	LUXPAC	1983
Noruega	DATAPAK	1984
Portugal	TELEPAC	1984
Reino Unido	PSS	1981
Suecia	DATAPAK	1985
Suiza	TELEPAC	1983
EEUU	TYMNET/TELENET	1975

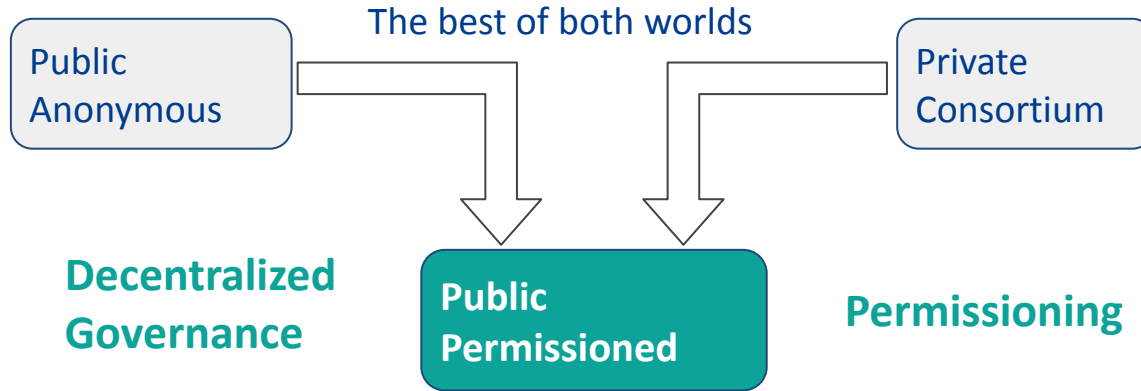
Spain 2018: first Public-Permissioned blockchain network in the world



Spain 2018: first Public-Permissioned blockchain network in the world

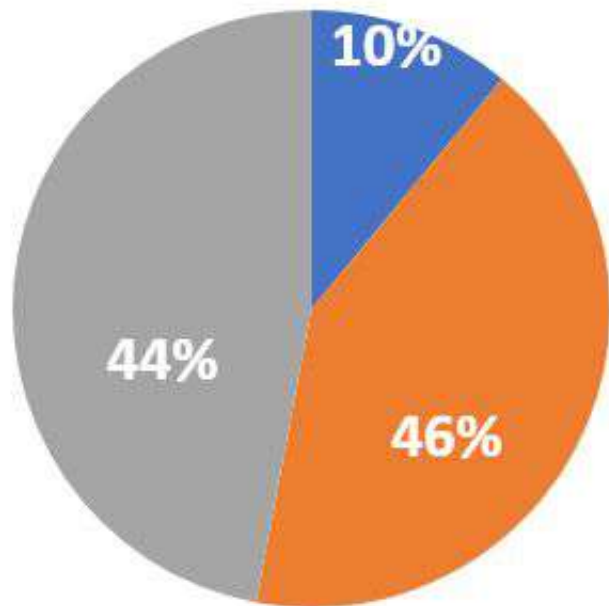


- **Non-discriminatory and open access**
- **Open & inclusive participation in governance**
- **Juridical persons are never anonymous**
- **Citizen/consumer protection is supported**
- **Sustainable and Eco-friendly**



The Evolution of Institutions
for Collective Action

Nobel Prize in Economics
2009



53

MEMBERS

45+

UNIVERSITIES

34

PUBLIC ADMINISTRATIONS

19

COUNTRIES

ALASTRIA



BEST BLOCK

#65,517,153



LAST BLOCK

0sago



AVG BLOCK TIME

1.00s

Public-Permissioned blockchain network

2.

MILLION TRANSACTIONS/MONTH

99.99

AVAILABILITY

12

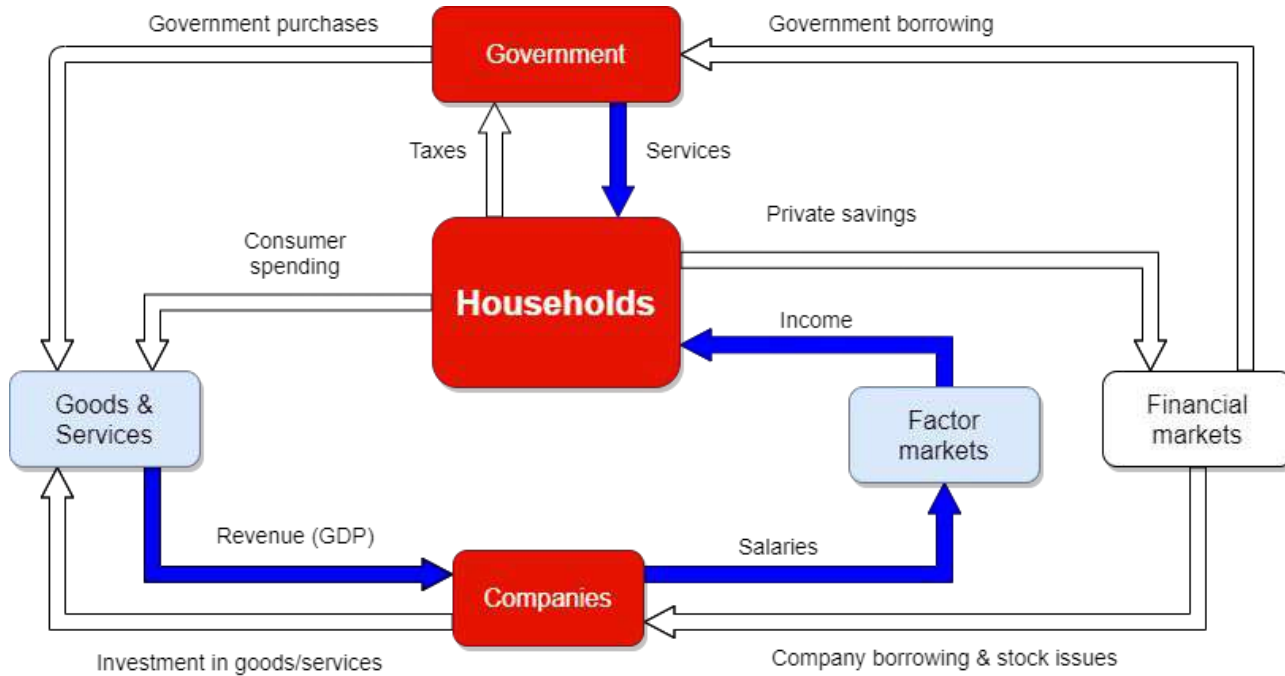
NODES

0

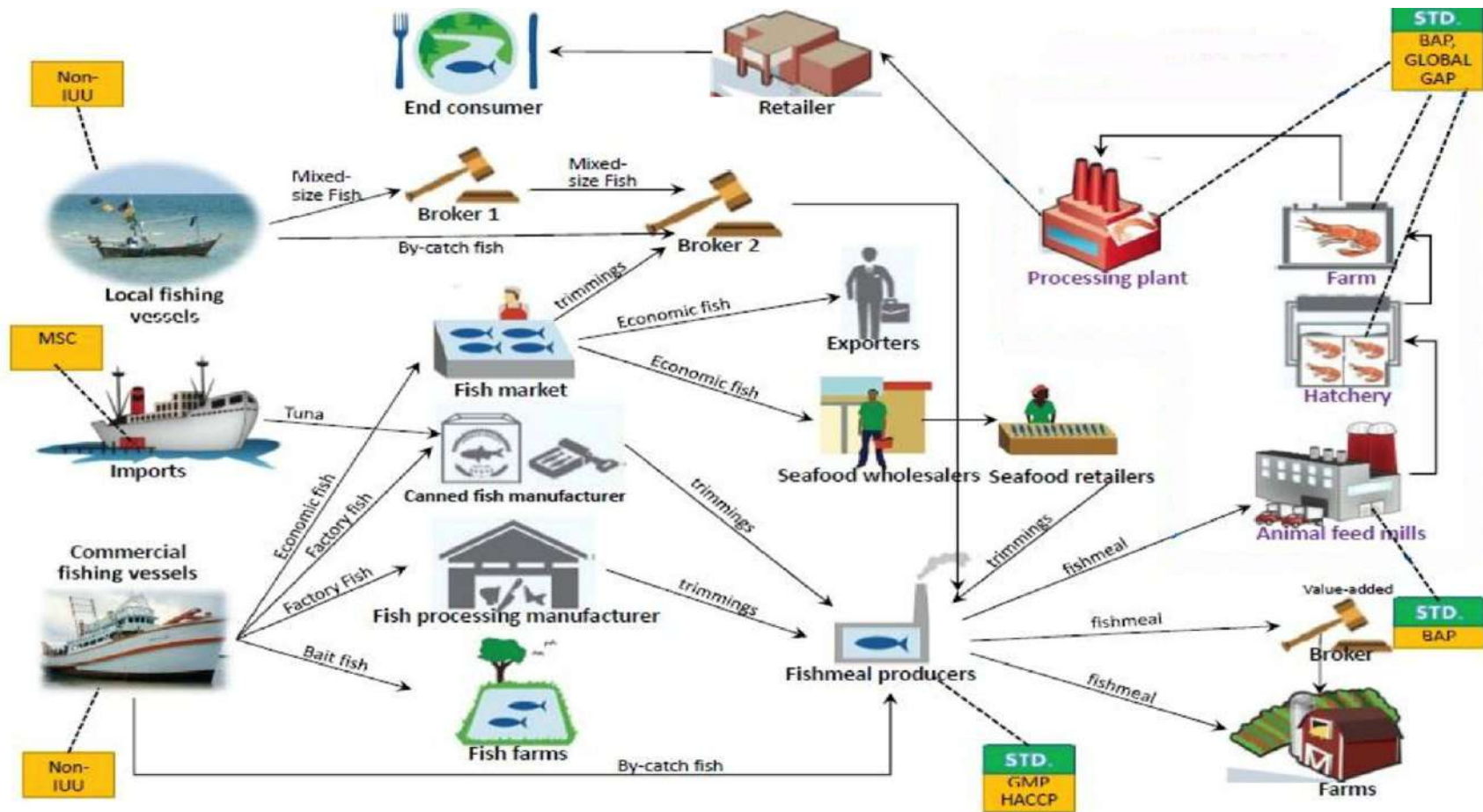
60+ use cases deployed by members

- Agrofood
- Banking and finances
- Legal **11**
- Education **%**
- Marketing
- NGO
- Citizen participation
- Real estate
- Human Resources
- Health **9**
- Tourism **%**
- Transport and logistics

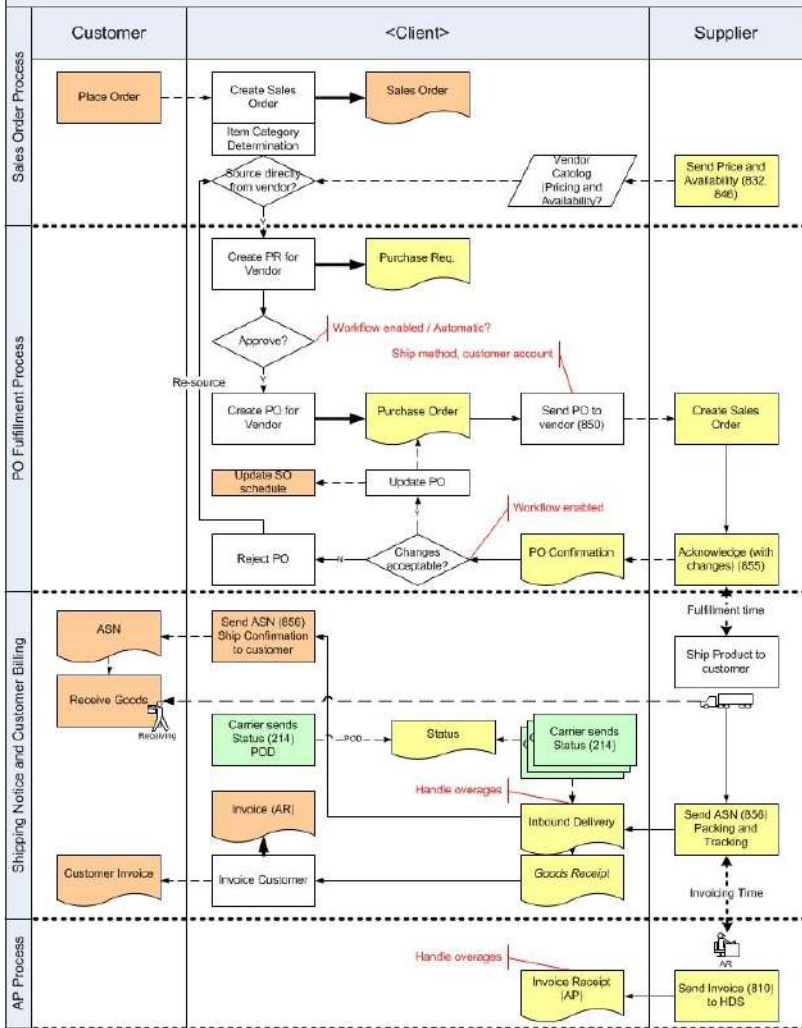
Focus on Real Economy and Government services



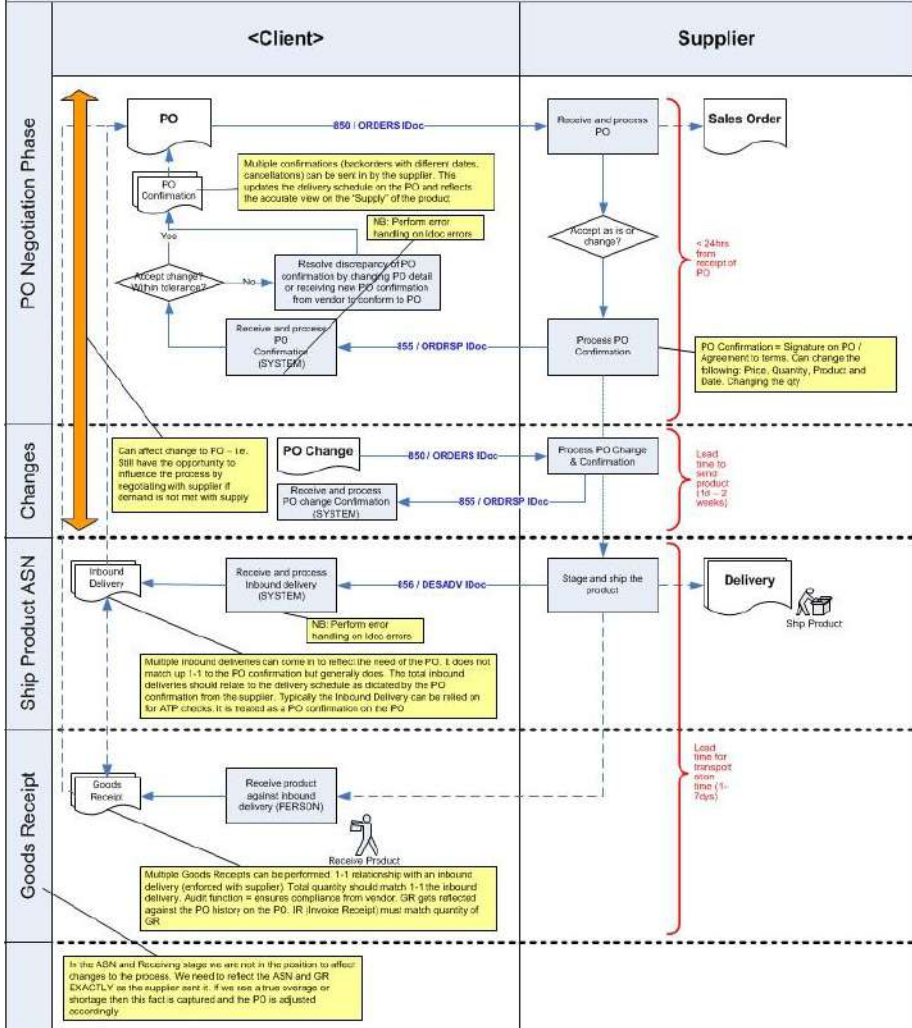




Virtual Skus Procurement Process



PTP Process



In the ASN and Receiving stage we are not in the position to affect changes to the process. We need to reflect the ASN and GR EXACTLY as the supplier sent it. If we see an overage or shortage then this fact is captured and the PO is adjusted accordingly

EBSI

Meet

European Blockchain Services Infrastructure

HARNESS THE POWER OF BLOCKCHAIN
SERVICES, INCREASING TRUST THROUGH
DATA SECURITY, PRIVACY AND
TRANSPARENCY

#Blockchain4Europe





Joint initiative EC - Member States to deliver EU-wide cross-border public services using blockchain technology.

Objectives of EBSI



Cross border

enhance cross border services provided by government to the citizen



Mobility

enhance cross border citizen and enterprise mobility



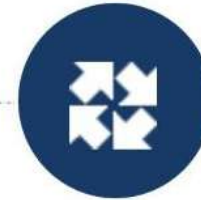
Sustainable

reduce environmental impact of paper and transportation



Compliance

compliance with GDPR, eIDAS, SDGR...



Enabler

enable development of European technology hubs & projects



Cross border

enhance cross border services provided by government to the citizen



Mobility

enhance cross border citizen and enterprise mobility



Sustainable

reduce environmental impact of paper and transportation



Compliance

compliance with GDPR, eIDAS, SDGR...

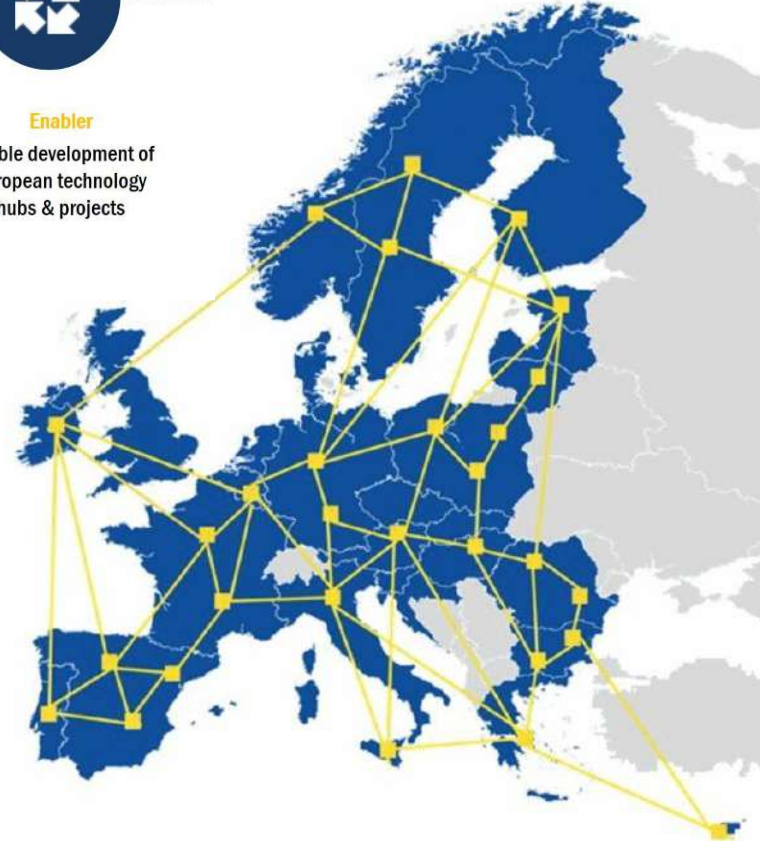


Enabler

enable development of European technology hubs & projects

Status of the EBSI network

Status	Nodes
COMPLETE	33
ON-BOARDING	5
IN PROGRESS	3
WAITING	2



EBSI v1 use cases



European Self-Sovereign Identity

Generic Self-Sovereign Identity capability, allowing users to create and control their own identity without relying on centralized authorities.



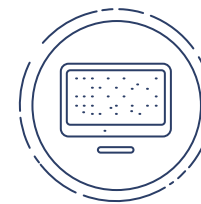
Notarisation of documents

Leverage the power of blockchain to create trusted digital audit trails, automate compliance checks in time-sensitive processes and prove data integrity.



Diplomas Management

Give access to education credentials, with control by citizens, significantly reducing verification costs and improving authenticity trust.



Trusted data sharing

Securely share data (e.g. IOSS VAT identification numbers and import one-stop-shop) amongst customs and tax authorities in the EU.

EBSI v2 (new use cases)



Asylum process management

Facilitate the management of cross-border and cross-authority processes in dealing with asylum applicants.



European Social Security Identification Number

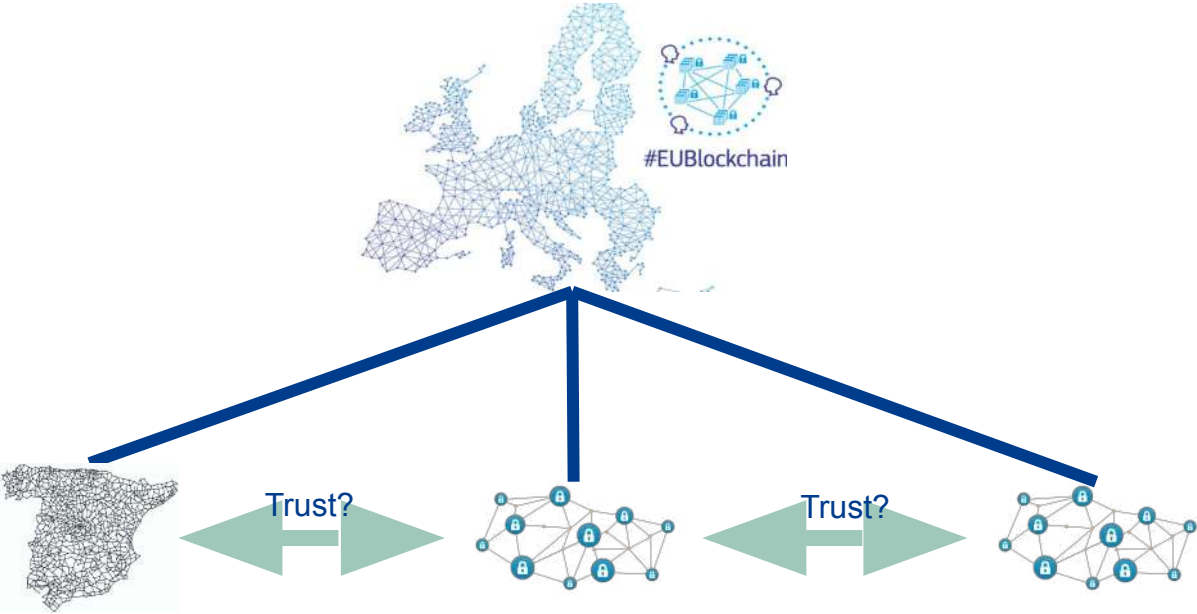
Ensure easier communication and data exchange between European countries and the EU Institutions to secure rights portability for citizens between different Member States and guarantee a uniform level of service. In addition, it will facilitate to fight frauds, errors, and duplication.



SME financing

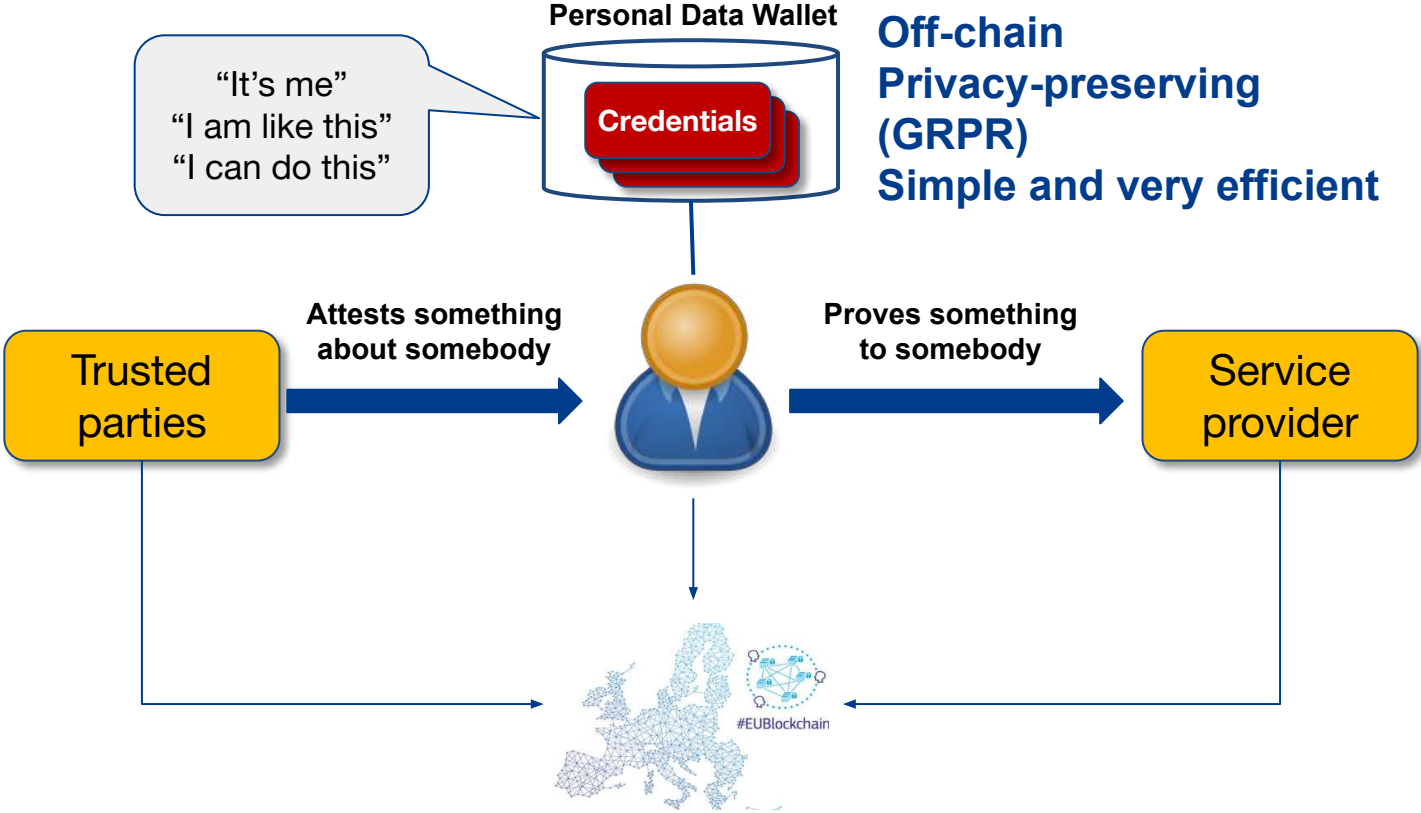
Create an EU-wide platform with private and public entities to reduce barriers of entry and asymmetries and facilitate flow of financing from capital owners to SMEs and green economy.

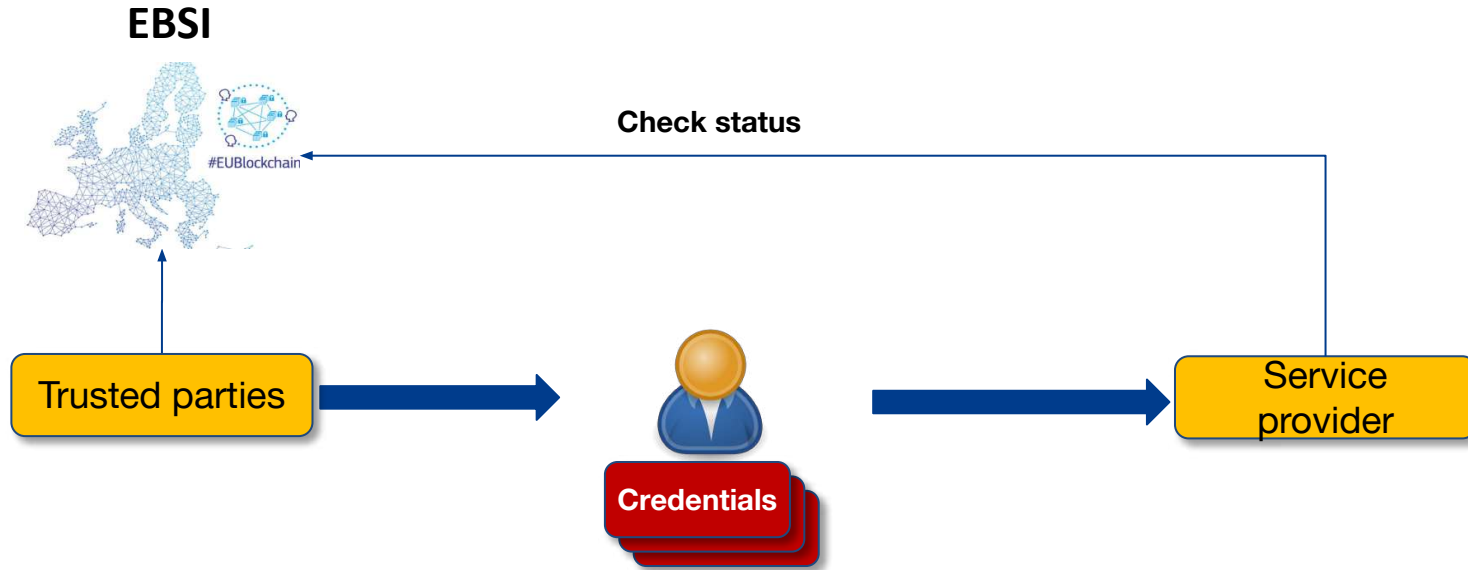
The future is a network of interoperable networks



Country networks, Private consortiums, existing systems

European Self-Sovereign Identity: the user in control of her data

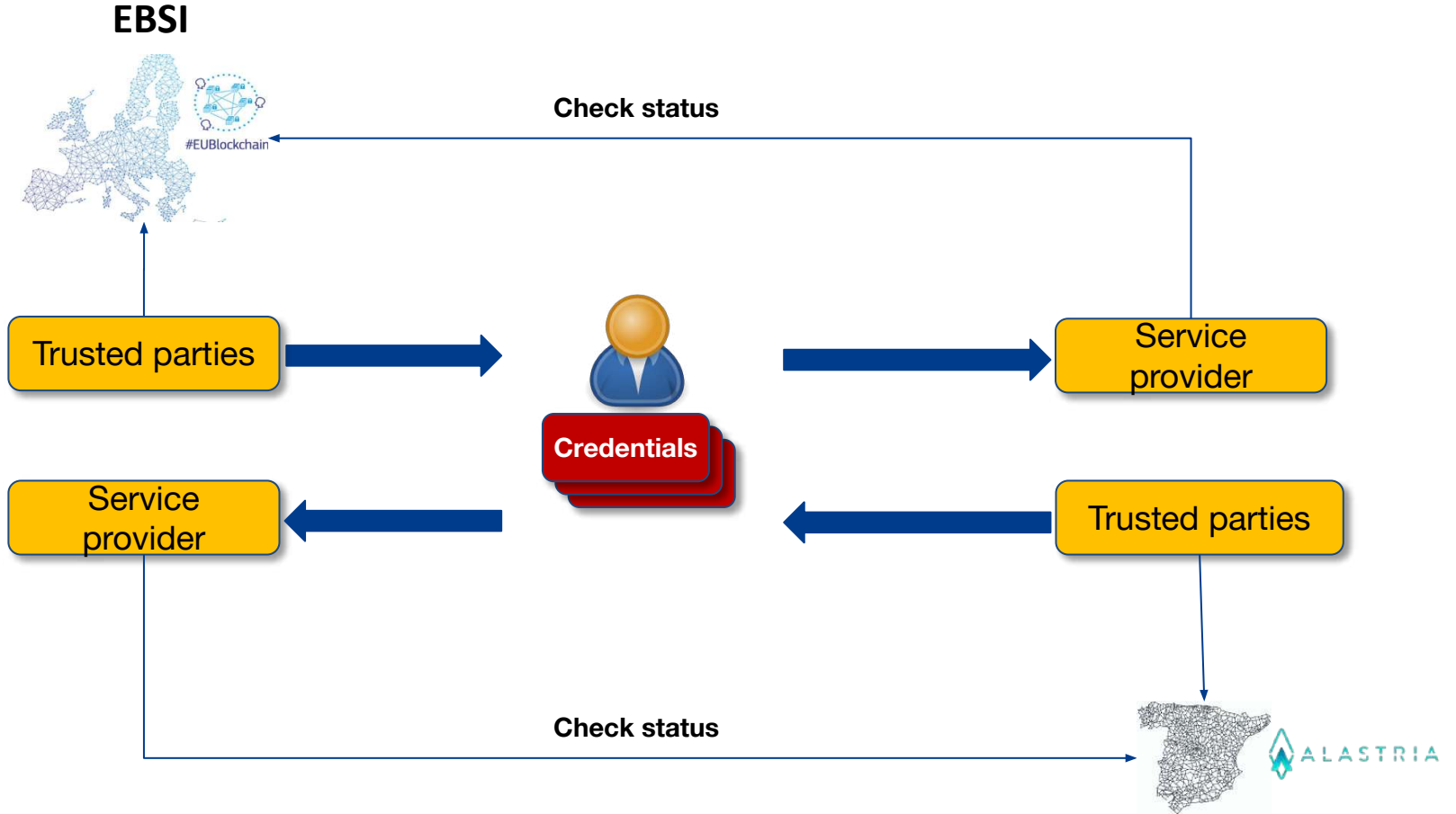


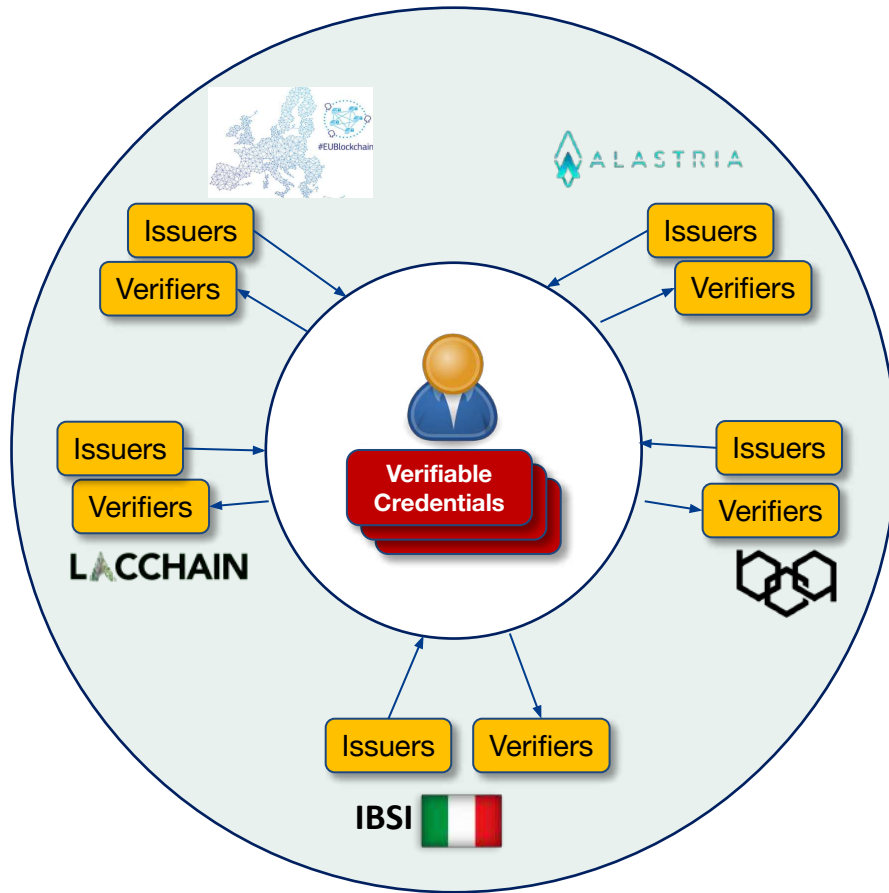


The Service Provider can be any entity in any part of the world

It requires:

1. Trust on the onboarding process of entities in the source blockchain
2. A trusted API to query the public key signing the credential and the status of the credential (not revoked)







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THE END

The background image shows a large audience seated in a conference hall, facing a stage. A teal network graphic with circular nodes and connecting lines is overlaid on the left side of the image. The text is centered in white, bold font.

**Thank you
Alastria
Couple more items:**



HYPERLEDGER

Hyperledger In-depth: An hour with...

Will return in July with:

DLT Global, Bonifii, Mindtree



HYPERLEDGER
GLOBAL FORUM

June 8–10, 2021 | Virtual Experience



All Virtual Event
2 Global Segments

APAC/Europe/Americas

3 Days of content
OVER 100 Talks!

Topics include:

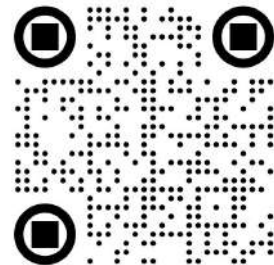
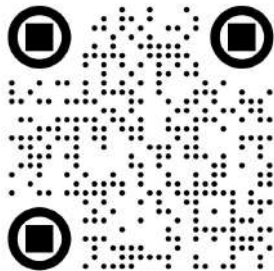
- Project dev talks
- Financial Services/CBDCs
- Consortiums
- Healthcare
- Supply Chain
- ++ More


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Get Involved!



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-  hyperledger.org/members/join



Thank you for joining us!

Questions?
membership@hyperledger.org