NEST4WB

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UPM, Madrid, Spain 07.05.2025

Trust & Transparency in B2B and B2C applications through DLT

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POLITÉCNICA UPM

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* B2B and B2C Workflows
* Challenges
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Introduction

Our society relies on communication and increasingly on automated exchanges between systems (with or without HITL).

There are hundred of examples in our lives.

What about trust, transparency and efficiency?

Are we happy?

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B2B Workflows

B2C Workflows

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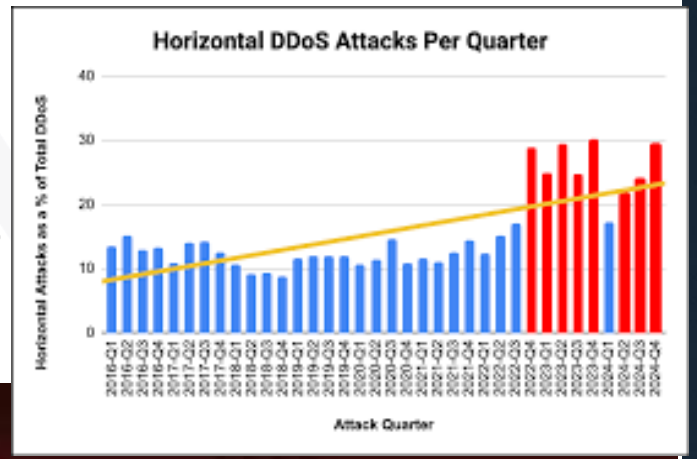
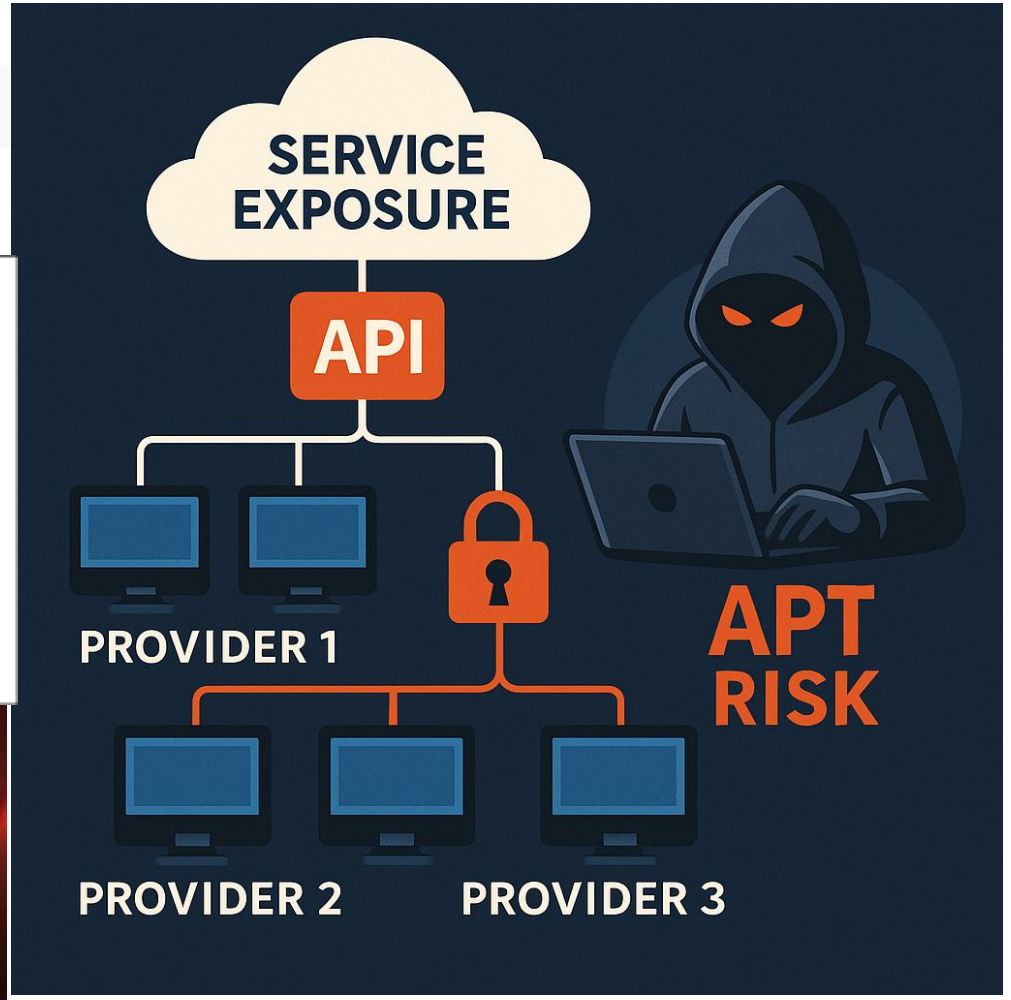
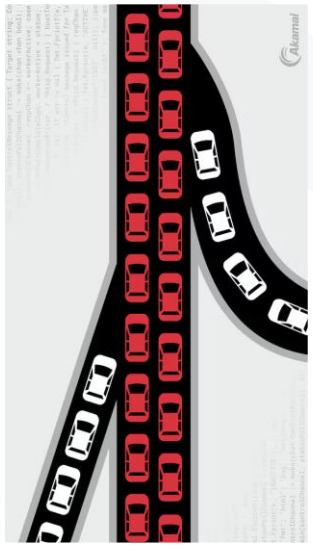
Challenges

Interacting systems in multi-provider networks require service exposure, risking unauthorized access and data theft.

Risks of DDoS preventing our customers to use our service







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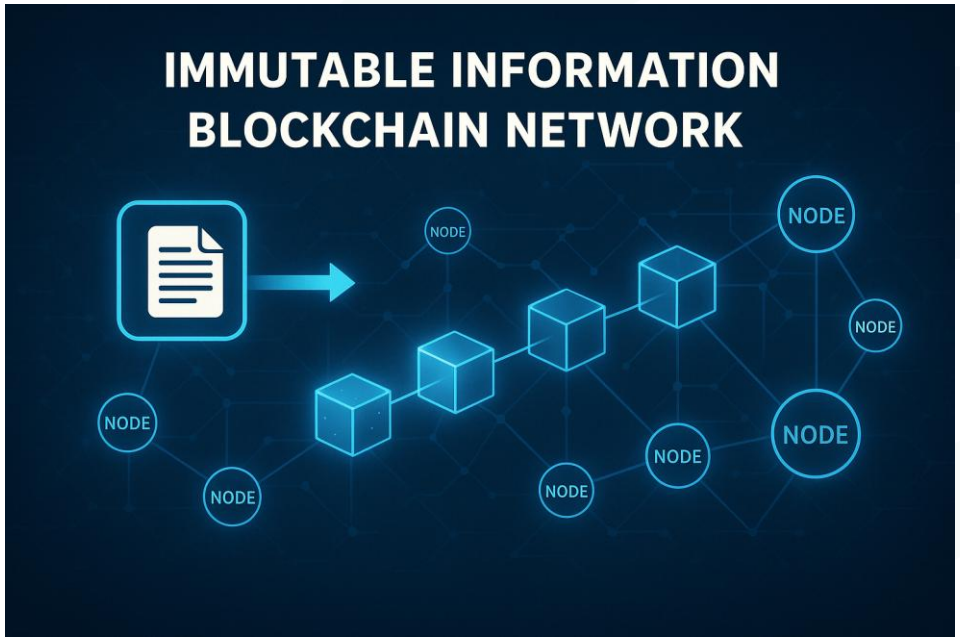
Alternatives & Persistence

Why not to shift the paradigm? Instead of promoting accessing data to my systems, let publish data into a nonmutable permissionless system

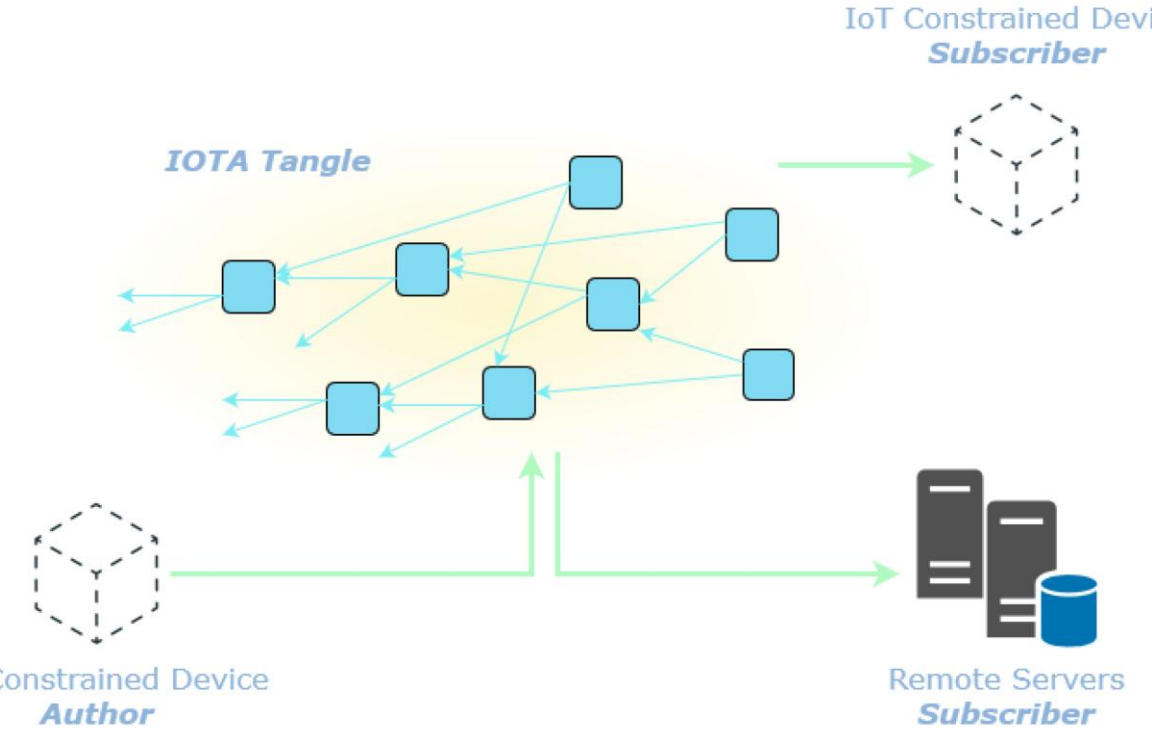


Issues:

Mining costs

Universal access

Storage costs



Source: https://www.mdpi.com/1424-8220/22/4/1384

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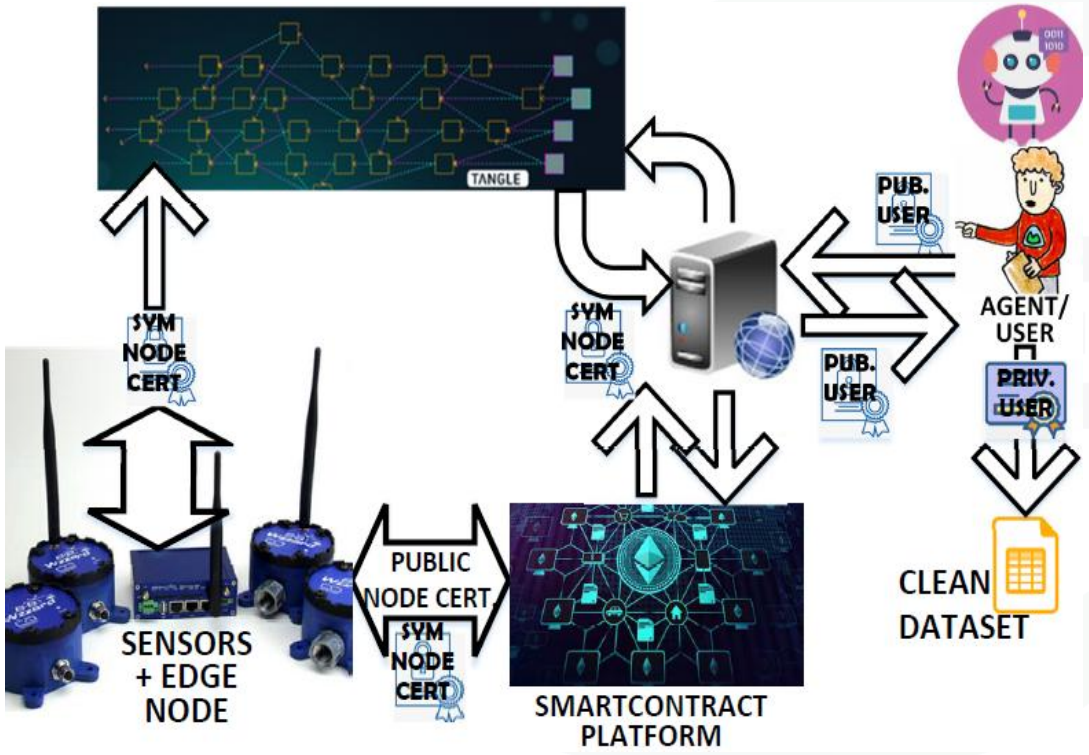
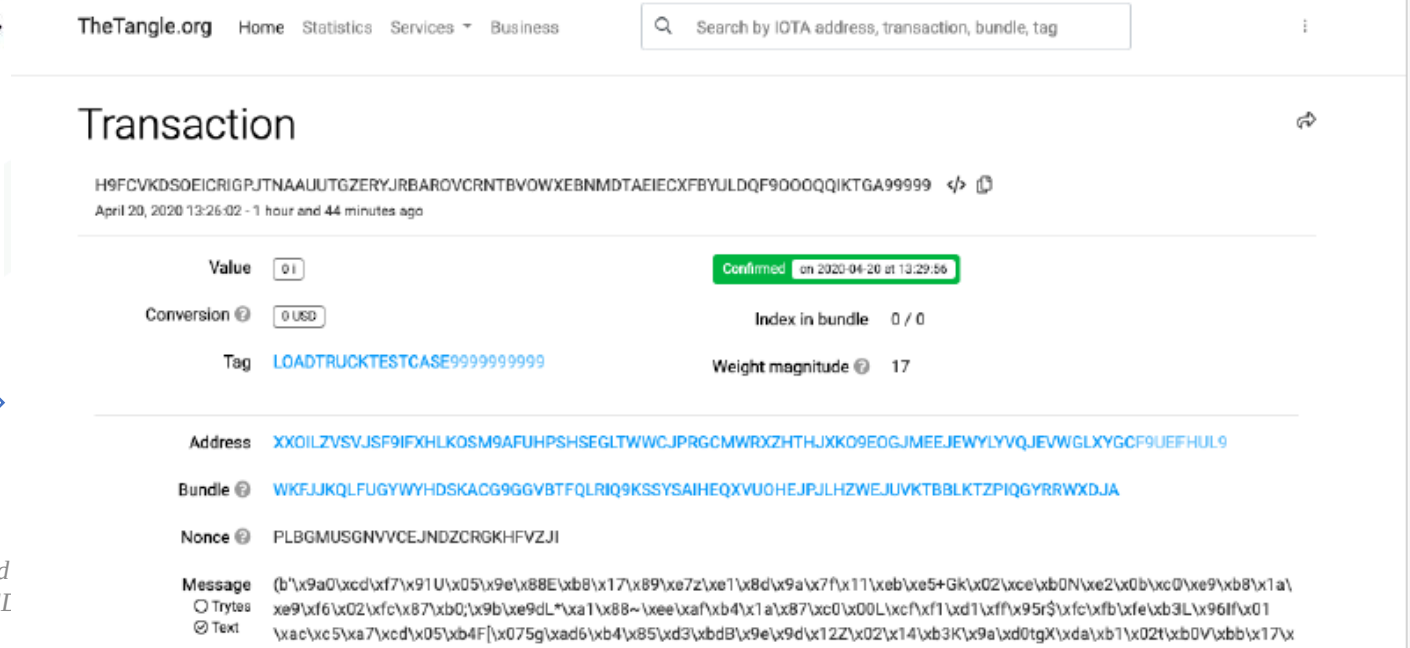
Alternatives & Persistence





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New energy competence system and
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Different Use Cases

IoT & IIoT Integration: Digital identity

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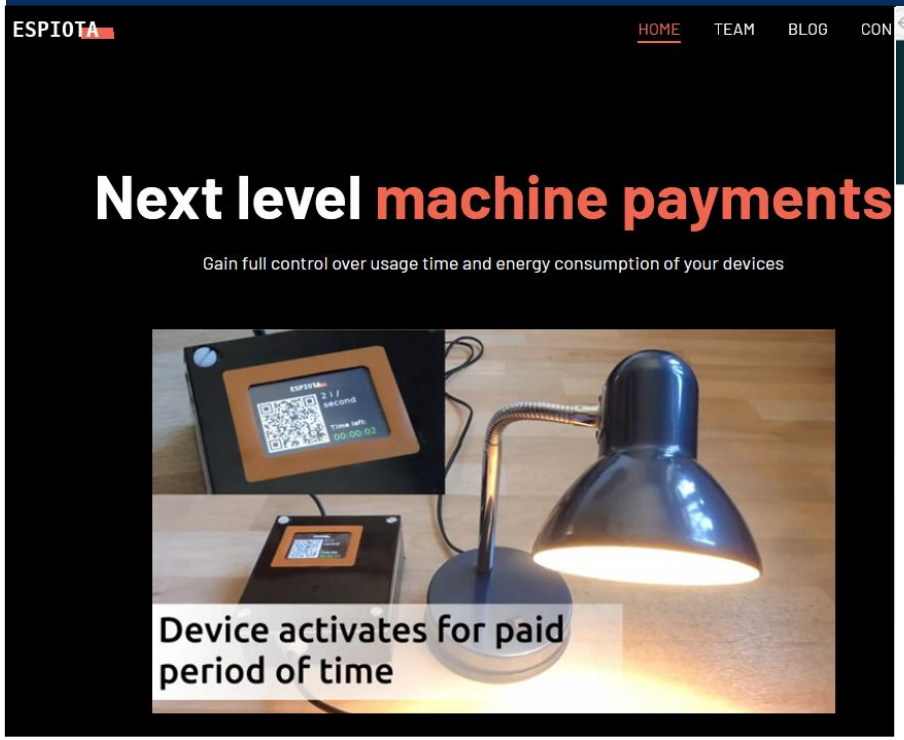
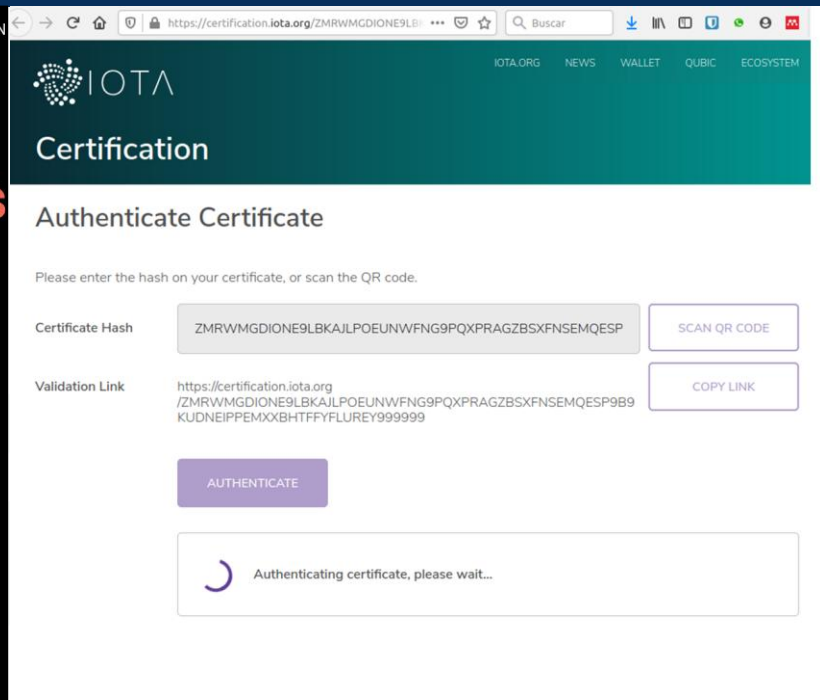
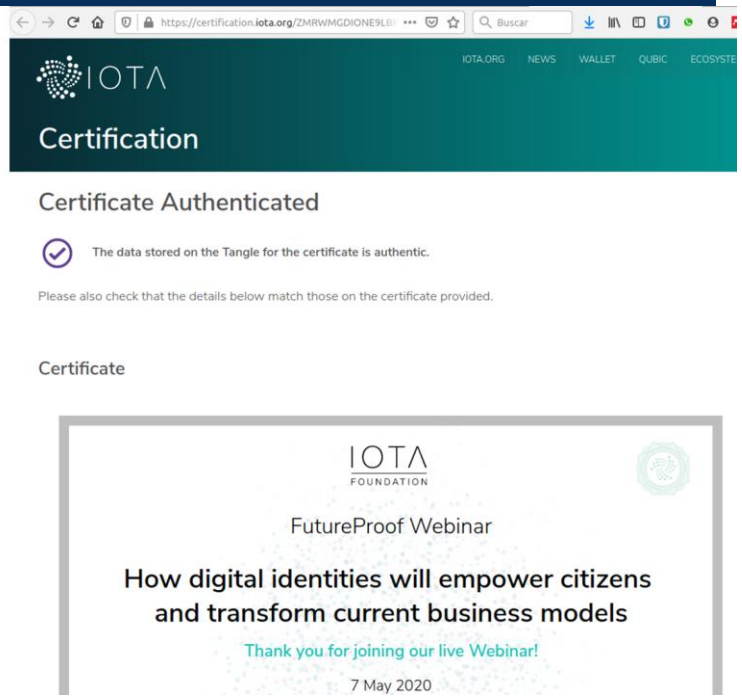
Different Use Cases

Certification from and to Digital Identities







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Different Use Cases

We are preparing learning materials: What is that in 2025?

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Different Use Cases

Competences: Are we teaching for that?

New energy competence system and technology for WB energy stability system curriculum reform
(Call: ERASMUS-EDU-2023-CBHE, Project number: 101129321)

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Different Use Cases

NEST4WB: What we should do for ‘learning’ materials?

These materials were prepared ‘on the fly’ **in less than 20 mins and effortless just yesterday, after gather a request from our coordinator (17:42 CEST)**. Just refining twice, the description for the content and that’s it.

- Does it make anysense to transmit knowledge to students through PowerPoint presentations (like I’m doing right now)?
- What learning is nowadays?
- What the concept for learning material is in 2025?
- Should we connect competences with capabilities to SOLVE problems or IMPROVE systems using the available technology?

Let’s keep this in mind when discussing and elaborating our “learning materials” for our NEST4WB project.

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Thank-you for your attention
Faleminderit per kohen tende
Hvala vam puno na pažnji
Хвала на времену

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