

WORKSHOP

"Decentralized operation and security in the IoT Space"

18 June 2020

Time 11:00-13:00 CEST



#IoTsecuritySpace



Agenda

11:00 - 11:10 **Cyberwatching.eu & SOFIE Workshop Introduction**

Nicholas Ferguson, Trust-IT Services & Cyberwatching.eu
Project Coordinator (IT)

11:10 - 11:20 **IoT space and where SOFIE fits in, what kind of results are produced - a broader sense overview**

George Polyzos, Professor, Athens University of Economics and Business (AUEB) (GR)

11:20 - 11:35 **Combining multiple ledgers for better control - Interledger approaches in IoT**

Santeri Paavolainen, Doctorate Researcher, Aalto University (FI)

11:35 - 11:40 **Q&A**

11:40 - 11:55 **Enabling Decentralised Identifiers and Verifiable Credentials for Constrained IoT Devices**

Vasilios A. Siris, Professor, Athens University of Economics and Business, (AUEB) (GR)

11:55 - 12:00 **Q&A**

12:00 - 12:10 **Enabling next generation secure energy services through data exchange liberation**

Priit Anton, Program Manager, Guardtime OÜ (ES)

12:10 - 12:20 **A marketplace for flexibility: improving power network efficiency using electric vehicles**

Giuseppe Raveduto, Researcher, Engineering Ingegneria Informatica (IT)

12:20 - 12:25 **Q&A**

12:25 - 12:35 **Exploring DLT & IoT use-cases in mobile gaming**

Max Samarin, Researchers, ROVIO (FI)

12:35 - 12:45 **Blockchain-based Architectures for Food Supply-Chain Management**

Spyros Voulgaris, Assistant Professor, Athens University of Economics and Business (AUEB) (GR)

12:45 - 12:50 **Q&A**

12:50 - 12:55 **Workshop Conclusion**

George Polyzos

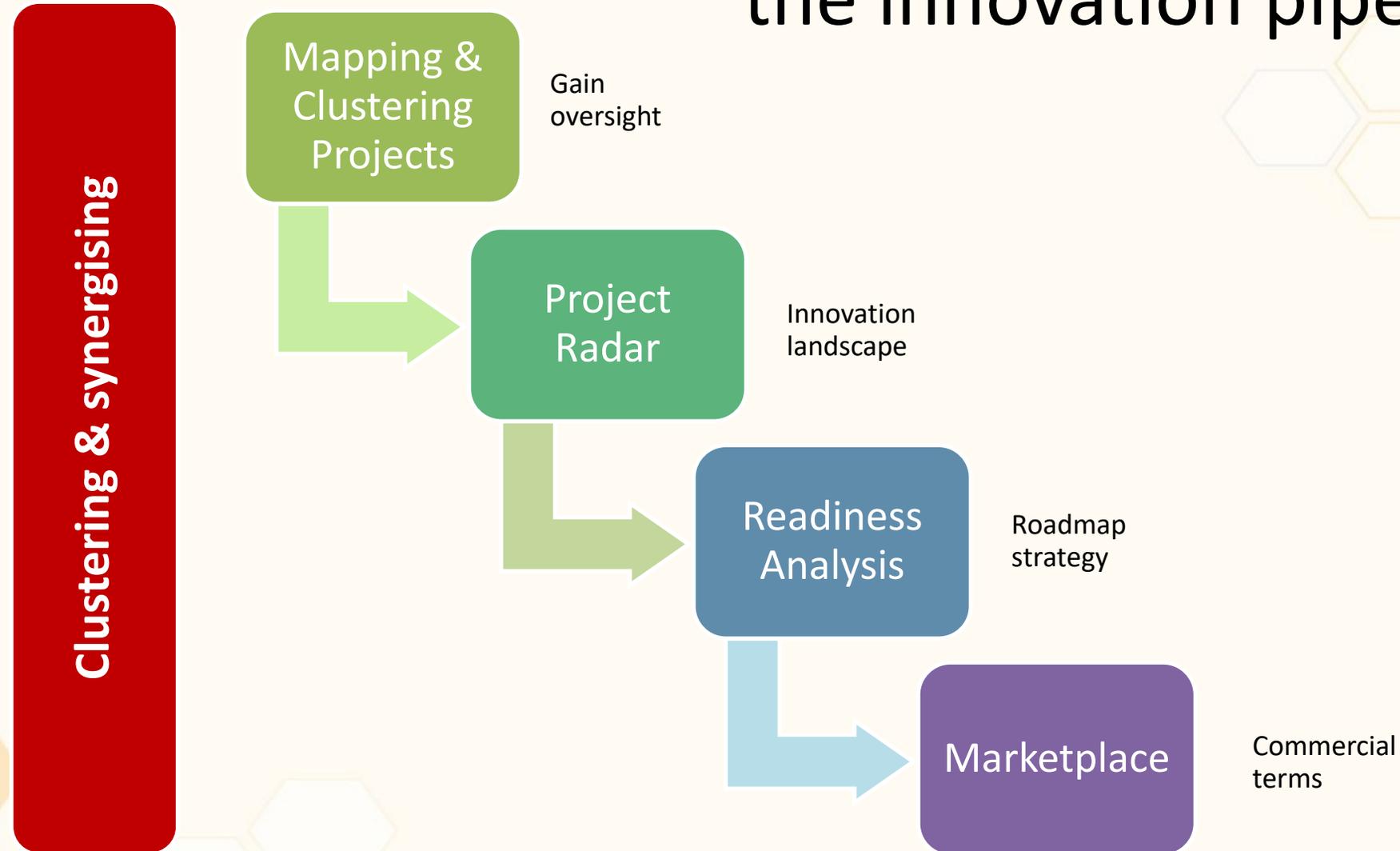
12:55 - 13:00 **Closing Remarks**

Nicholas Ferguson

The European watch on Cybersecurity and Privacy

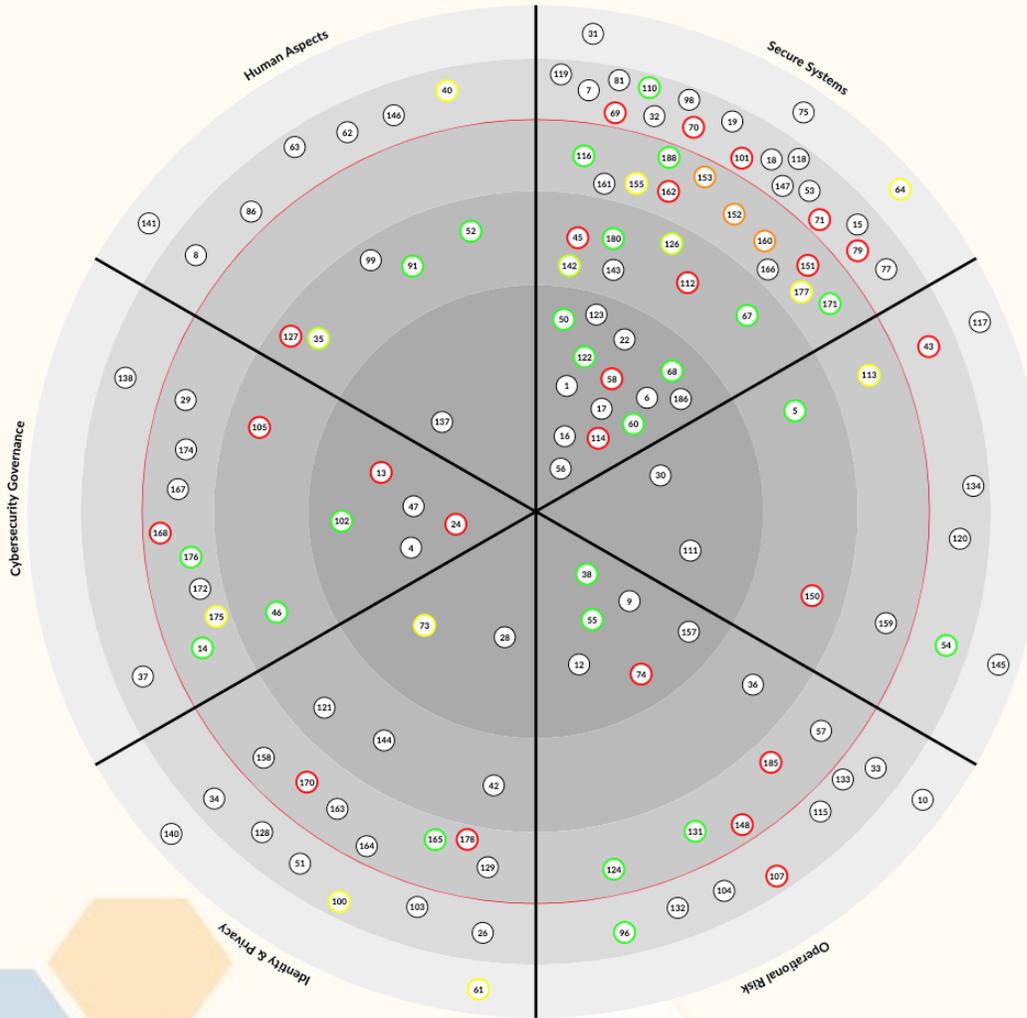


Supporting EU projects in the innovation pipeline

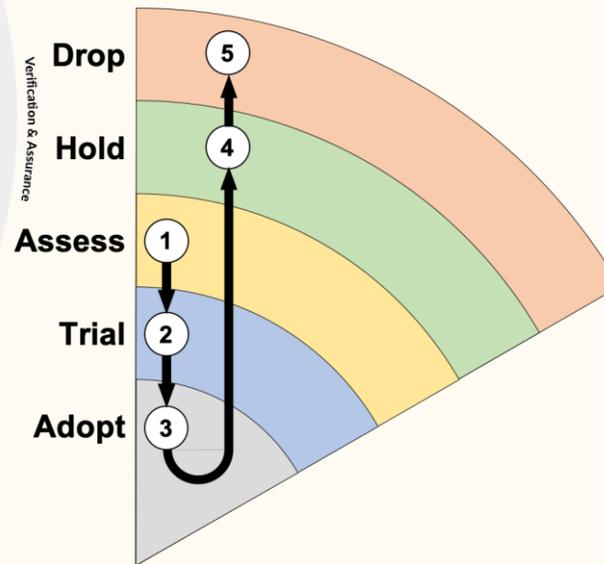


EU Project Radar

- 188 R&I Projects mapped spanning 15 years (Feb 2008 – Feb 2023)
- New interactive & radar launch – early July



Rings illustrate project age



Mapping categories

- Secure Systems and Technology
- Operational Risk and Analytics
- Identity, Behaviour, Ethics and Privacy
- National and international security and governance
- Verification and Assurance
- Human Aspects of Cybersecurity

Europe's only
collaboration platform for
EU-funded projects in
cybersecurity and privacy



1800
Visits per month



+175
Project mini-sites



+150
Projects in
Technology radar



+500
People connected

**Create your
project mini-site**

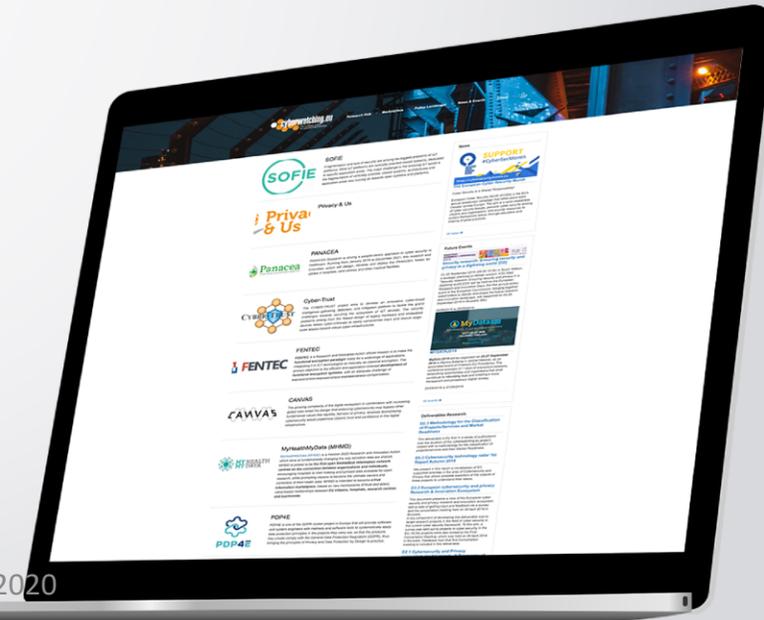
**Update your technology
radar rankings**

**Connect and cluster
with other projects**



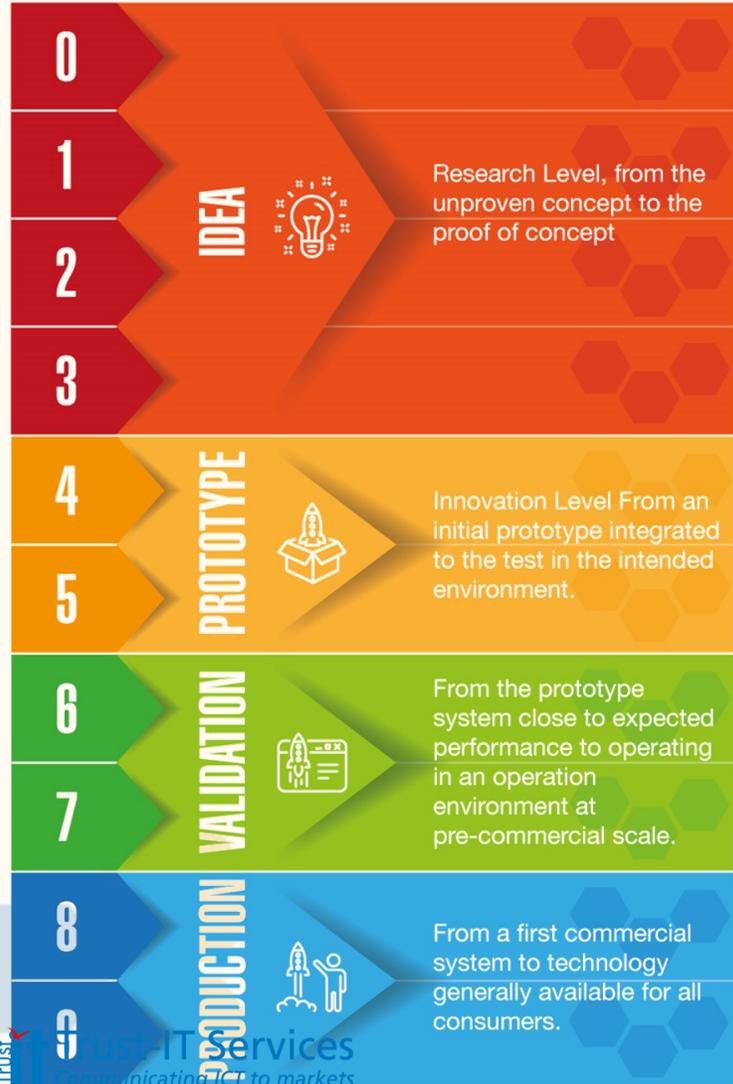
**Publish your results,
reports, news and events**

**Participate at events
and webinars**

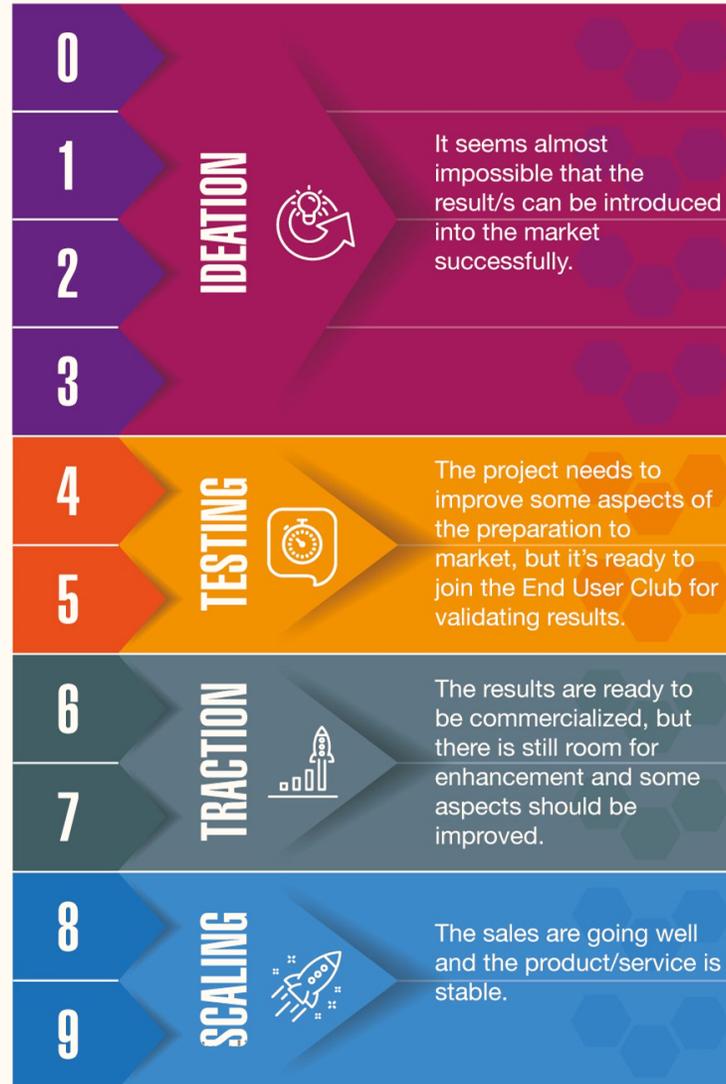


Tech vs Market readiness

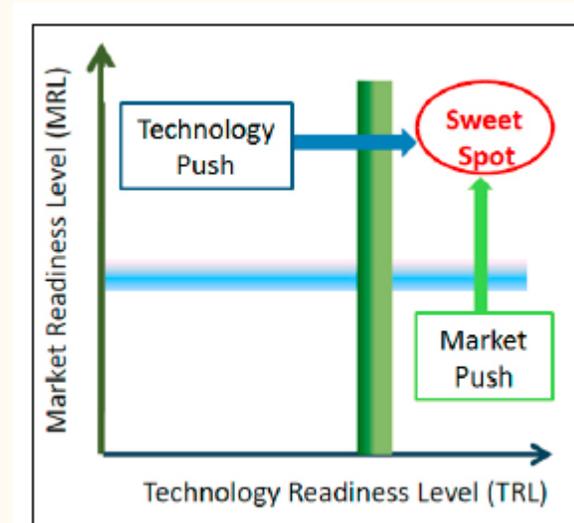
Technology Readiness Levels



Market Readiness Levels



- Is the technology ready for the market?
- Is the market ready for the technology?
- Goal: Synchronize time and content of technology development and market development to reach the Sweet Spot



New innovation from
European providers and
R&I projects


+70
Services listed


Free
Resources for
SMEs


+20
Workshops &
webinars


+1500
Community
members

Make it easy for new users to find you!

**Publish your services,
news and videos**

**Promote at events and
webinars**



**Create your
organization/project
profile**



Respond to RFIs & RFQs



**Connect with a new
network of users and
collaborators**



Just some projects innovating on IoT security and privacy



GHOST

Usable and transparent security suite oriented for smart home systems based on Internet of Things (IoT) with blockchain-based integrity checking

Telecare, telehealth, energy, home automation and security



 ANASTACIA

Holistic solution enabling trust and security by-design for Cyber Physical Systems based on IoT and Cloud architectures

Smart buildings, Mobile Edge computing



Open, secure, decentralized, multi-stakeholder management framework. IoT-Edge interactions

Emergency situation management

KONFID 

Scalable and holistic paradigm for secure inner- and cross-border exchange, storage and overall handling of healthcare data with blockchain-based integrity checking

Healthcare

**PRIV
LEDGE**

Cryptographic protocols supporting privacy, anonymity, and efficient decentralised consensus for DLTs

Online voting, insurance validation, university diplomas

More info and results



About Results News Contact

Secure Open Federation for Internet Everywhere

SOFIE facilitates the smooth creation of new IoT business platforms through secure open federation - powered by the SOFIE architecture, software framework, and reference implementation.

LATEST NEWS

SOFIE WORKSHOP: Decentralised operation and security in the IoT Space 18/6/2020
8 Jun 2020

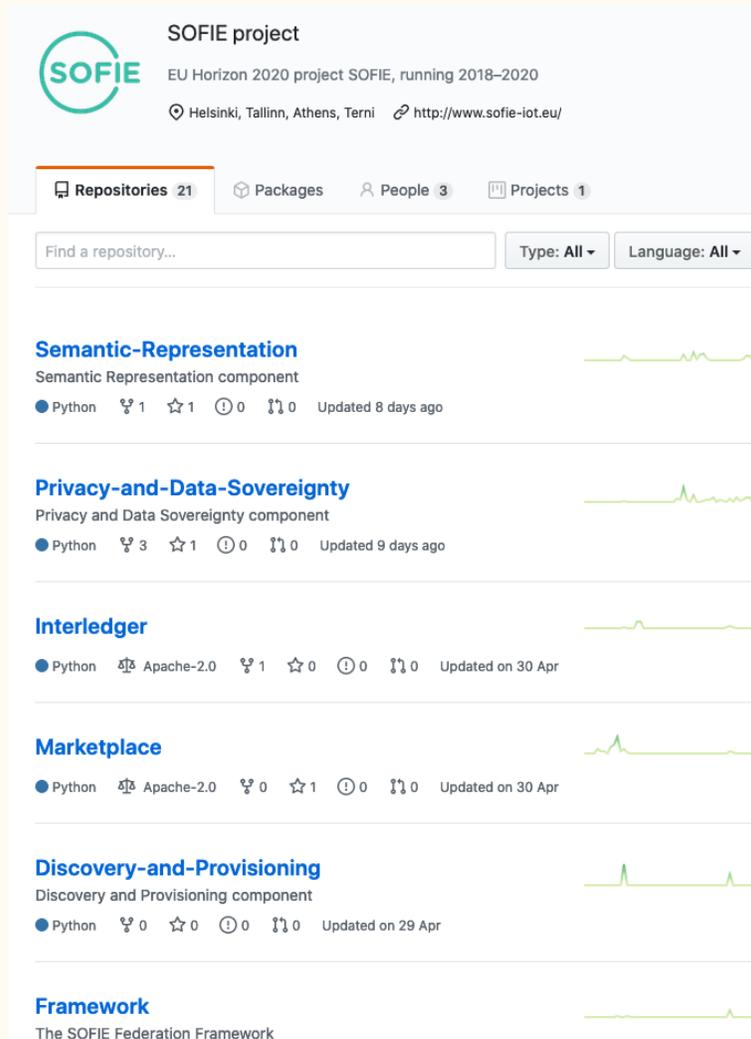
SOFIE participating at NGIoT Webinar: The Interoperability between IoT Platforms

<https://www.sofie-iot.eu/>



All presentations & recording

<https://www.cyberwatching.eu/decentralized-operation-and-security-iot-space>



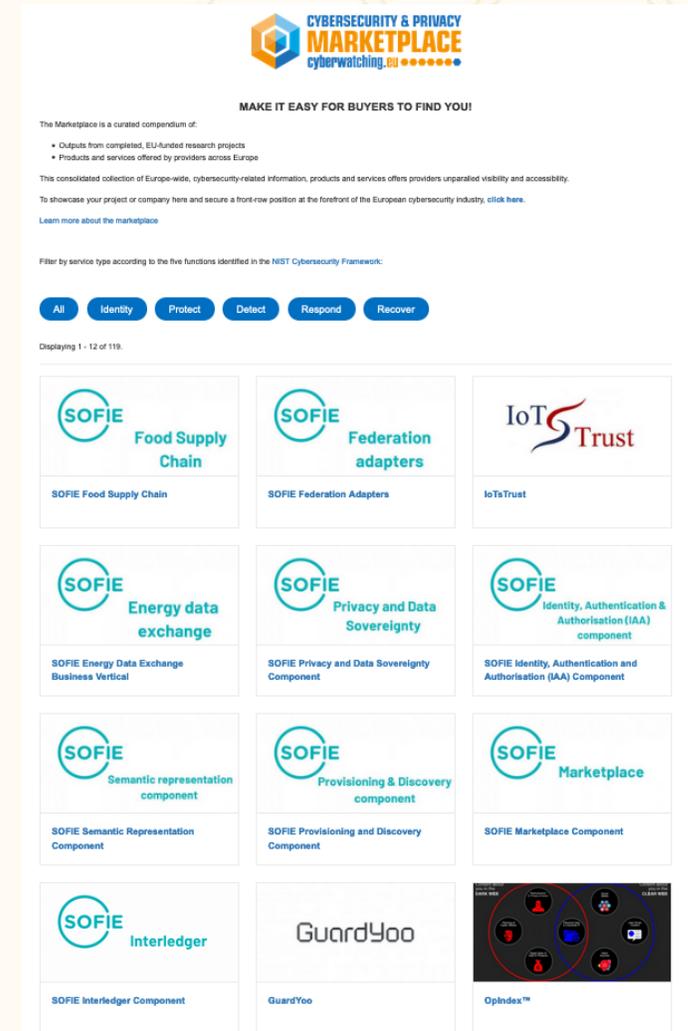
SOFIE project
EU Horizon 2020 project SOFIE, running 2018–2020
Helsinki, Tallinn, Athens, Terni <http://www.sofie-iot.eu/>

Repositories 21 Packages People 3 Projects 1

Find a repository... Type: All Language: All

- Semantic-Representation**
Semantic Representation component
Python 1 star 0 issues Updated 8 days ago
- Privacy-and-Data-Sovereignty**
Privacy and Data Sovereignty component
Python 3 star 0 issues Updated 9 days ago
- Interledger**
Python Apache-2.0 1 star 0 issues Updated on 30 Apr
- Marketplace**
Python Apache-2.0 0 star 1 issue Updated on 30 Apr
- Discovery-and-Provisioning**
Discovery and Provisioning component
Python 0 star 0 issues Updated on 29 Apr
- Framework**
The SOFIE Federation Framework

<https://github.com/SOFIE-project>



CYBERSECURITY & PRIVACY MARKETPLACE
cyberwatching.eu

MAKE IT EASY FOR BUYERS TO FIND YOU!

The Marketplace is a curated compendium of:
• Outputs from completed, EU-funded research projects
• Products and services offered by providers across Europe

This consolidated collection of Europe-wide, cybersecurity-related information, products and services offers providers unparalleled visibility and accessibility. To showcase your project or company here and secure a front-row position at the forefront of the European cybersecurity industry, [click here](#).
[Learn more about the marketplace](#)

Filter by service type according to the five functions identified in the NIST Cybersecurity Framework:

All Identity Protect Detect Respond Recover

Displaying 1 - 12 of 119.

 SOFIE Food Supply Chain	 SOFIE Federation Adapters	 IoT Trust
 SOFIE Energy Data Exchange Business Vertical	 SOFIE Privacy and Data Sovereignty Component	 SOFIE Identity, Authentication and Authorisation (IAA) Component
 SOFIE Semantic Representation Component	 SOFIE Provisioning and Discovery Component	 SOFIE Marketplace Component
 SOFIE Interledger Component	 GuardYoo	 OpIndex™

<https://www.cyberwatching.eu/market-products-list>

Unlocking the potential and harnessing the benefits of blockchain and DLT



INATBA: Multi-stakeholder support for blockchain and Distributed Ledger Technology (DLT) to be mainstreamed and scaled-up across multiple sectors.

NATBA aims to develop a framework that promotes public and private sector collaboration, regulatory convergence, legal predictability and ensures the system's integrity and transparency.

Working Groups

- Energy
- Climate
- Finance
- Real estate
- Healthcare
- Education
- Social impact
- Mobility
- Supply chain
- Interoperability
- Privacy
- Identity



<https://inatba.org>

Upcoming events

- ◆ [SPARTA Brokerage event](#) (22 June)
- ◆ [Cybersecurity and COVID-19 – Experiences from the frontline](#) (23 June)
- ◆ Innovating the EU project pipeline (July – date tbc)
 - ◆ New EU Project radar launch
- ◆ Being cybersecure during COVID-19: Best practices and tips for remote working (July – date tbc)
- ◆ CS&P EU Project Concertation Meeting – (October – date tbc)
- ◆ ICT2020 – 1-3 December, Cologne
- ◆ Twenty2X – 9-11 March 2021, Hannover

Thank-you and keep in touch

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