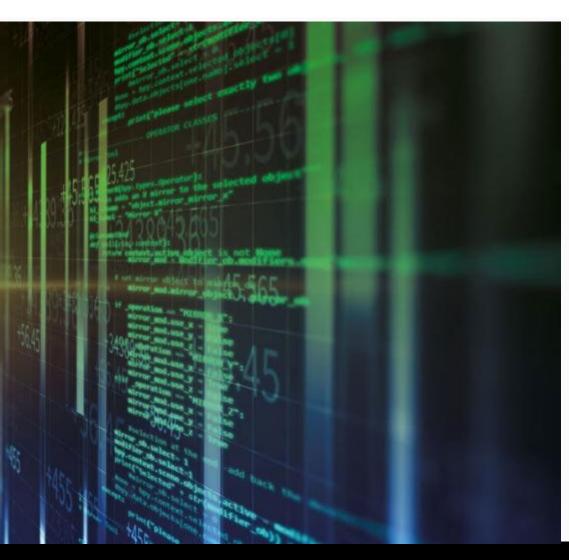


International cooperation to prevent, investigate and prosecute cybercrime using emerging technologies: challenges and opportunities





Pablo López-Aguilar

Director of IT & Project Leader Anti-Phishing Working Group - Europe pablo.lopezaguilar@apwg.eu

About APWG



APWG is a non-profit worldwide coalition aimed at unifying the global response to cybercrime through development of data resources, data standards, model response systems and protocols for private and public sectors.



https://apwg.org | https://apwg.eu

Research

- eCrime Exchange platform & Reports
- R+D projects
 - TRUESSEC, VIVET, **LOCARD**
- Events
 - Symposium on Electronic Crime Research
 - EU Symposium on Electronic Crime Research

Education

- Events
 - Symposium on Global Cybersecurity Awareness
- Global online safety awareness campaign: STOP.THINK.CONNECT

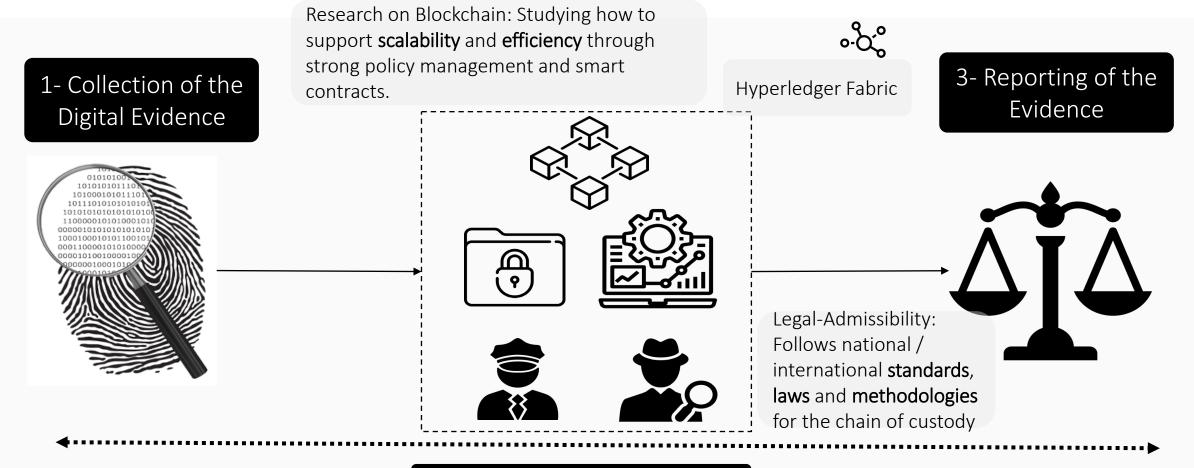


LOCARD presents the ultimate solution of accommodating independent users, jurisdictions, territories and global regulation, together with high security demands.

- 1st May 2019 30 April 2022
- 6,843,385.00€
- 19 partners
- H2020-SU-SEC-2018-2019-2020

The LOCARD Project - Boundaries





2- Identification and Analysis

Is Blockchain a New Technology?

1991



Stuart Haber



Scott Stornetta

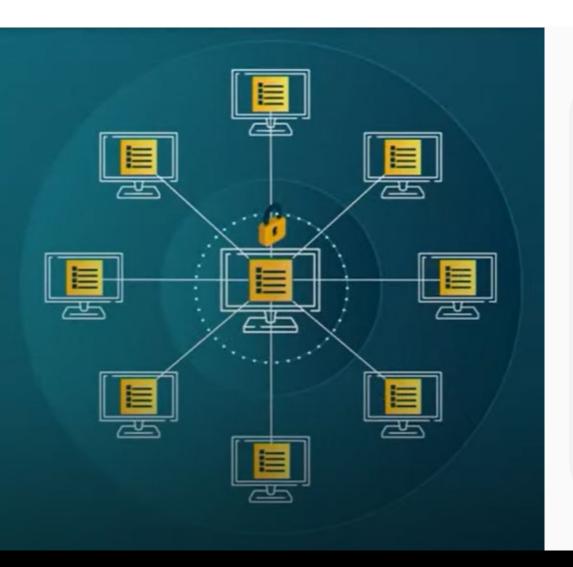
Proposed a system to prevent timestamps on documents from being modified.

2009



Satoshi Nakamoto deployed the first public blockchain when he invented Bitcoin in 2009.

Smart contracts



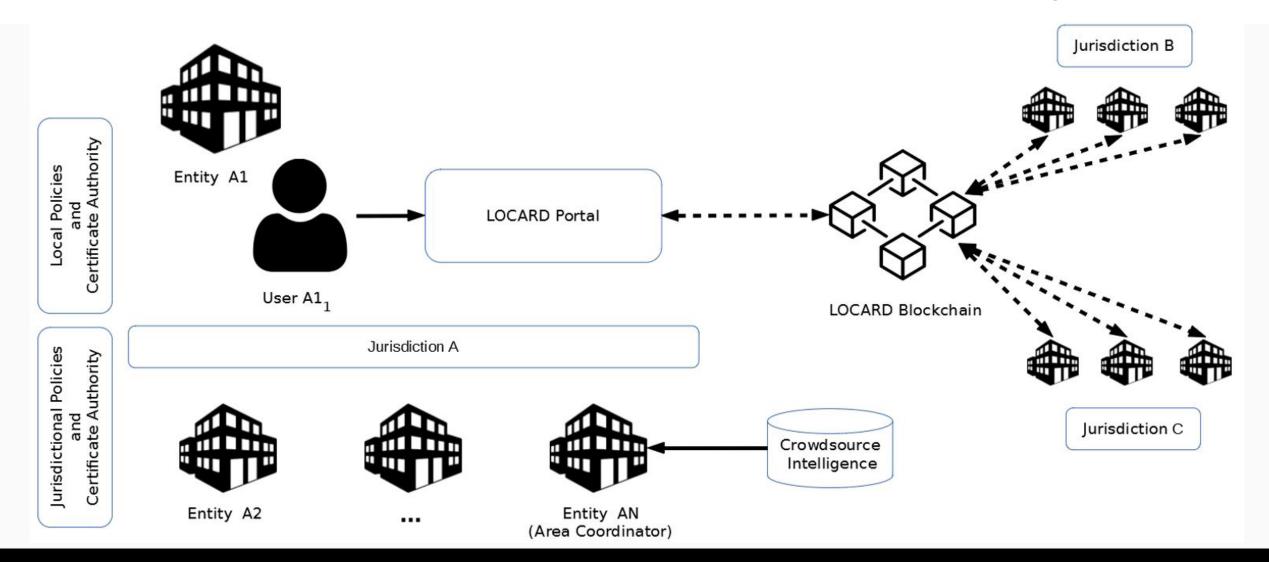
An smart contract is a tiny computer program that is stored inside a blockchain. They are like contracts in the real world but completely digital.

Immutable: it can never be changed

Distributed: the output of the contract is validated by everyone

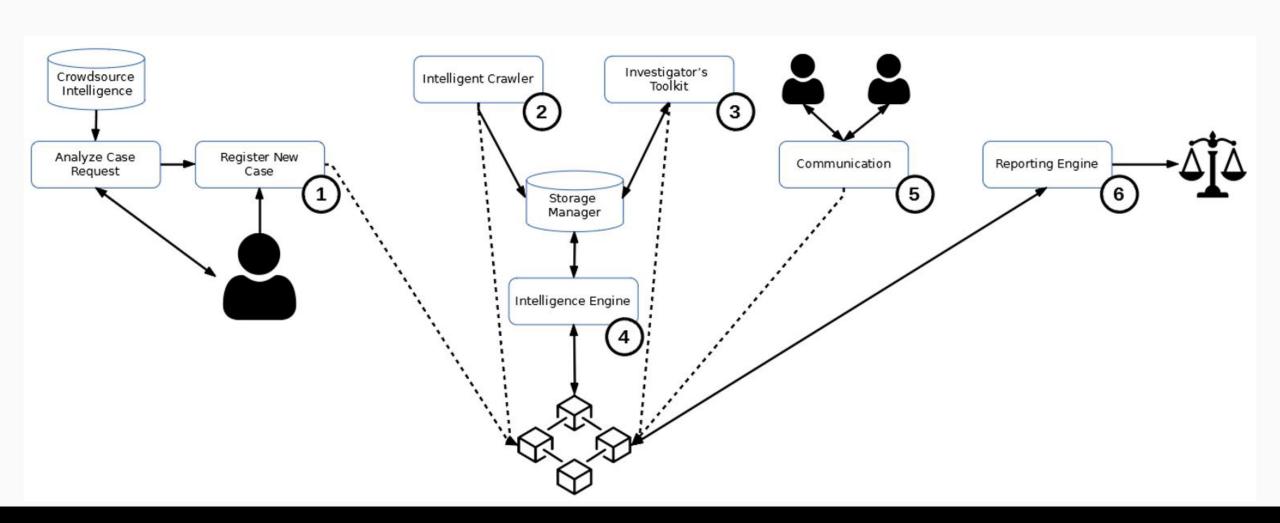
The LOCARD Project - High-level Architecture





The LOCARD Project - Forensic Flow





The LOCARD Project - Tools



Device Message Hijack Investigation

Spyware

SMS-Based Forge ID

Vulnerable App Identification

DNS Data Exfiltration

Harward OS

Deviant Behaviour

Use of Machine Learning to detect potential pedophile behaviour in Social Networks.

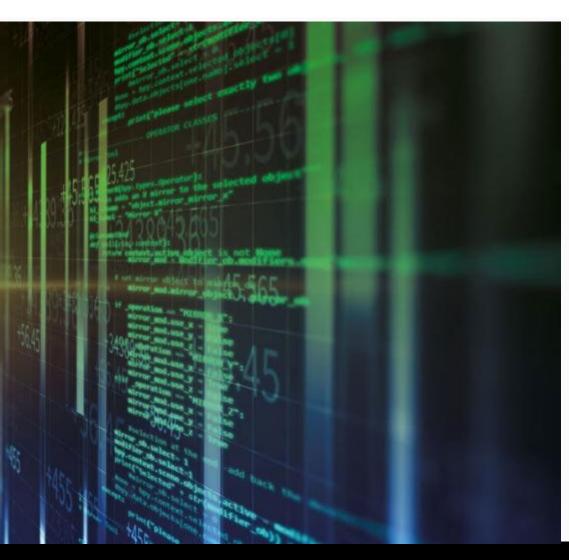


https://locard.eu/outcomes/training-material/



International cooperation to prevent, investigate and prosecute cybercrime using emerging technologies: challenges and opportunities





Pablo López-Aguilar

Director of IT & Project Leader Anti-Phishing Working Group - Europe pablo.lopezaguilar@apwg.eu