Data Driven Economy Without Compromises

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And the next generation financial

By Kurt Nielsen Co-founder of Partisia

The best of two worlds for future prosperity

Shared and protected data is the new digital oil.

How do you keep your data and your customers' data secure and protected?

How can you bring data to use without breaching privacy?

How do you ensure transparency and accountability?



Partisia Platform enables data sharing and analysis AND protects the privacy and confidentiality of the data.

Digital Infrastructure

First principal design of digital infrastructure

Confidentiality, Integrity and Availability



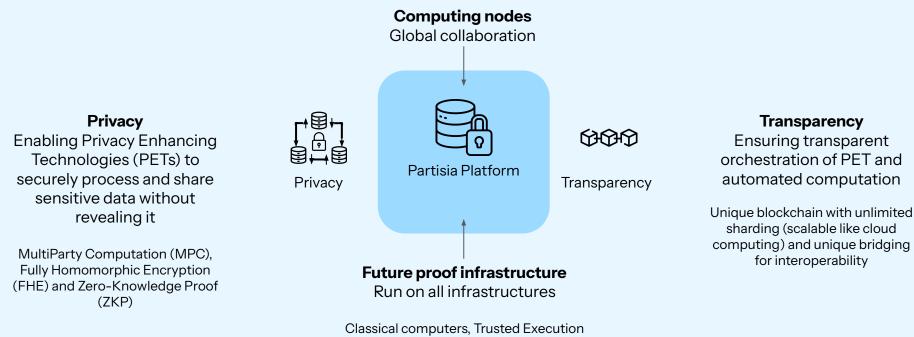
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Our tech platform is built to match the many new regulatory requirements

Ivan Damgård, Professor Chief Cryptographer, Partisia Partner

Unique combination of two core technologies

It took decades to develop and combine the two



Future-proof compliant infrastructure

Addressing new and upcoming regulatory requirements:

Confidentiality

addresses:

- GDPR
- Antitrust
- CCPA (California)
- APPI (Japan)
- LGPD (Brazil)

Integrity

addresses:

- KYC and AML
- AI Data Act
- Data Act
- Digital Market Act

Availability

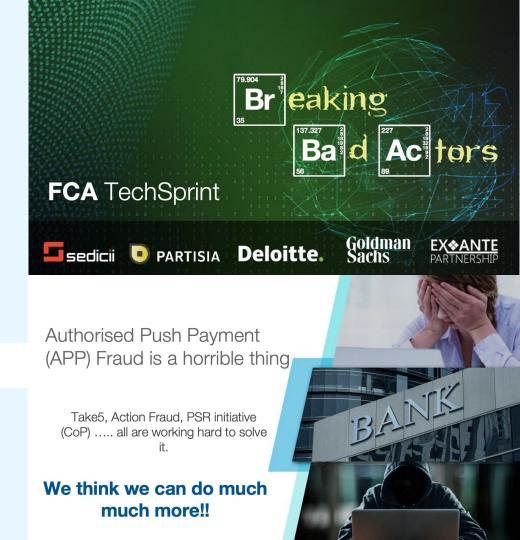
addresses:

- Schrems II
- NIS2 directive
- DORA
- Cyber Resilience Act
- Financial Data Access

FCA tech sprint

London, July 2019

Sparked a lot of innovation and discussions with regulators and banks around the world.





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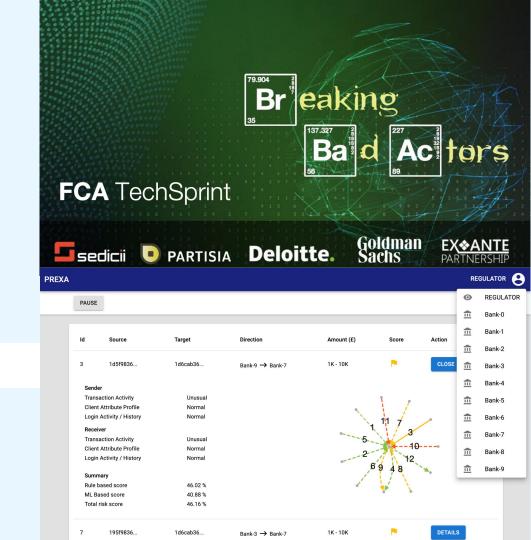


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Today we are ready to move this to real use

JV partners

🥏 Digital Platformer

Partisia

Banks



Concealed multiparty calculation
Partisia MPC

International level of security

Ø Digital Platformer X ● Partisia

We have partnered with Partisia, based in the privacy-enhancing techno logy powerhouse of Denmark.

By combining Partisia's advanced cryptography technology, which meet s the strict requirements of European data protection regulations, with Digital Platformer's technology and products, we are developing the nex t generation of fintech solutions that enable cross-border data sharing while ensuring transparency and privacy protection. We are developing next-generation fintech solutions that enable cross-border data sharin g while guaranteeing transparency and privacy protection.



Hokkoku Bank launches Japan's first deposit-backed stablecoin

April 1, 2024 · by Ledger Insights



With an eye toward the future, Hokkoku Bank intends to implement in-app payments between individuals by the end of the year. Additionally, it hopes to recruit other banks from Ishikawa prefecture to participate in its program. More than that, it hinted at future plans to expand into other areas.

This ground-breaking platform's technology is created by Digital Platformer. Although several banks across the globe have launched stablecoin programs, what sets Hokkoku apart is its emphasis on retail clients and the fact that it is backed by real bank deposits. O Partisia

Financial Fraud Detection

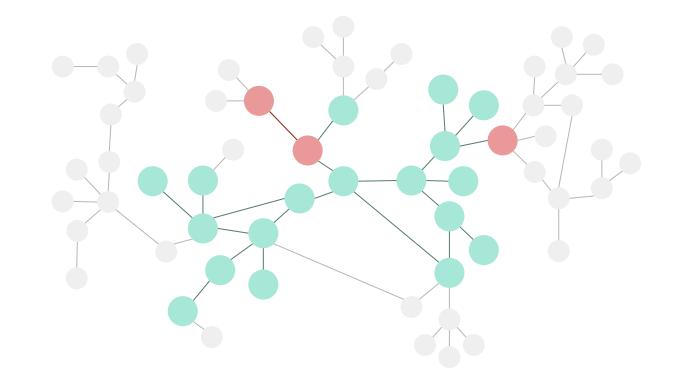
Next generation fraud detection



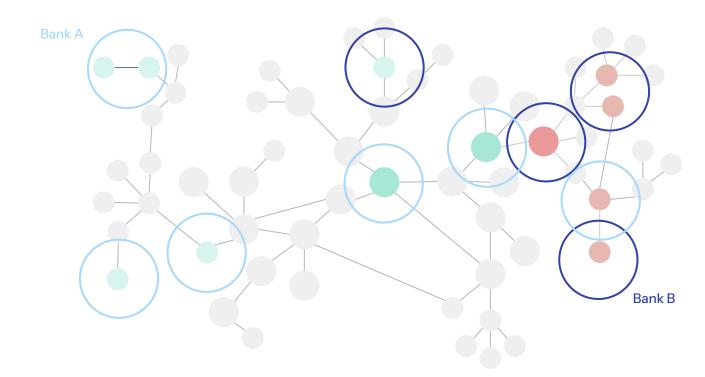
Financial fraud happens and evolves across banks

Every dot is an account in a bank

Every connection is a transaction between two accounts



Banks operate within perimeters



And typically only understand the transactions (and fraud) within their perimeter...

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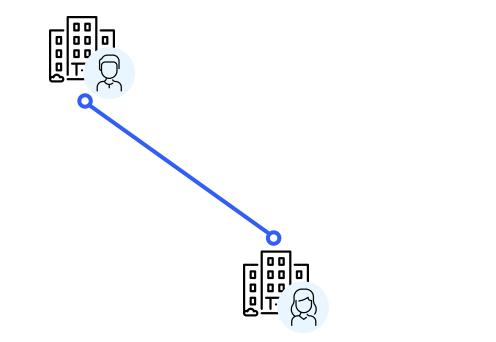
The solution

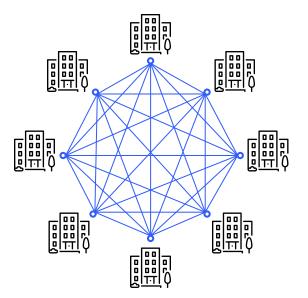
Step by step



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Introducing a network of banks





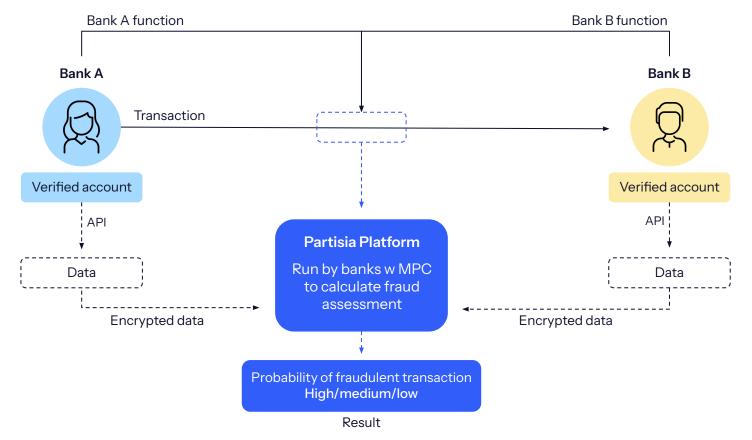
Zoom in on a single transaction

Zoom out to capture fraud detection maps

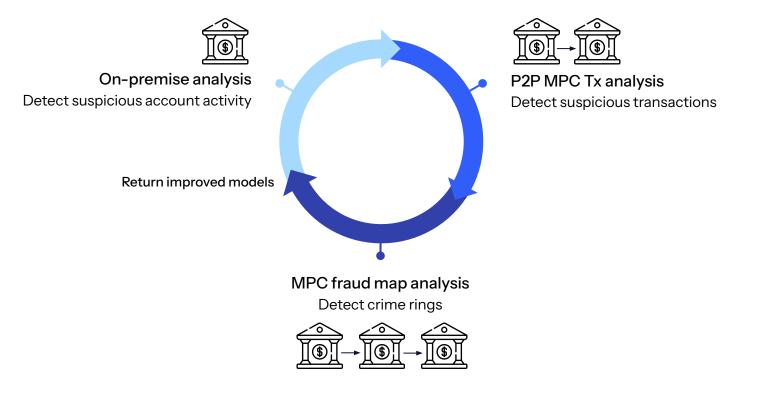
Enhanced assessment of each transaction with MPC 1:2

Transaction Activity	Client Attribute Profile	Login Activity/History
Number of outgoing payments 1st party payment range Frequency of payments Rapid movement of funds Number of cash deposits Number of cross border payments	Age range (if applicable) Gender (if applicable Net worth Employment status Wealth profile (£) Expected monthly income	Typical bank log in medium Typical IP address Typical region of activity Time of banking activity

Enhanced assessment of each transaction with MPC 2:2



The complete solution 1:2



The complete solution 2:2

Step 1: On-premise analysis



Customers within a bank

Detect suspicious account activity

Looking for: Anomalous account behaviour.

Models:

Anomaly detection ML random forest.

Secure infrastructure:

Proprietary data and use. Clear text and analysis.

Step 2: P2P MPC Analysis



Transaction between to banks

Detect suspicious transactions

Looking for: Push payment fraud. other types of fraud.

Models:

Rule based risk model. Apply ML results from step 1 Extent to with "global" model federated ML)

Secure infrastructure: Proprietary data and use. Clear text and analysis.

Step 3: Generic MPC analysis



chains of transactions

Detect crime rings

Looking for:

Answers to series of questions posed by AML experts. Known money laundering patterns.

Models: Mapping chains of transactions. Anonymizing data.

Secure infrastructure: Generic MPC Delegated trust

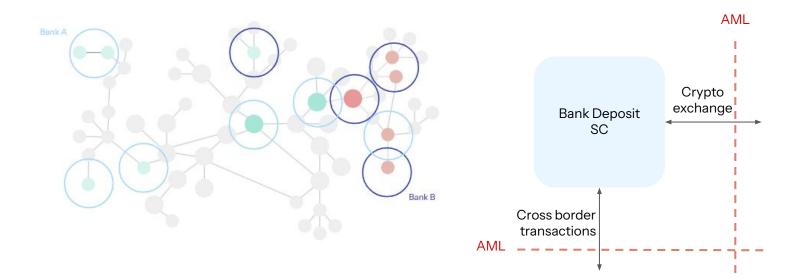
Return improved models

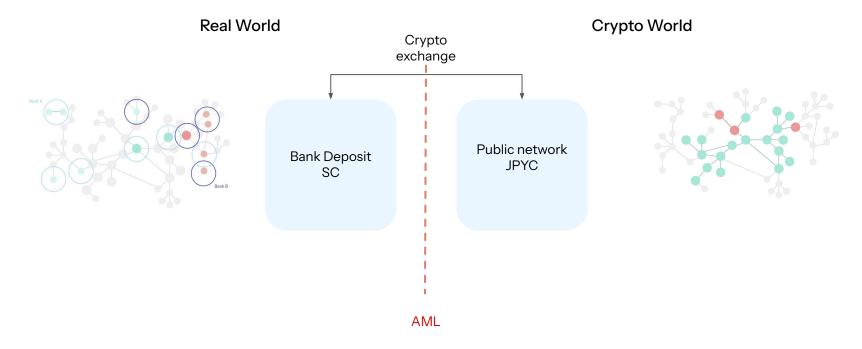
O Partisia

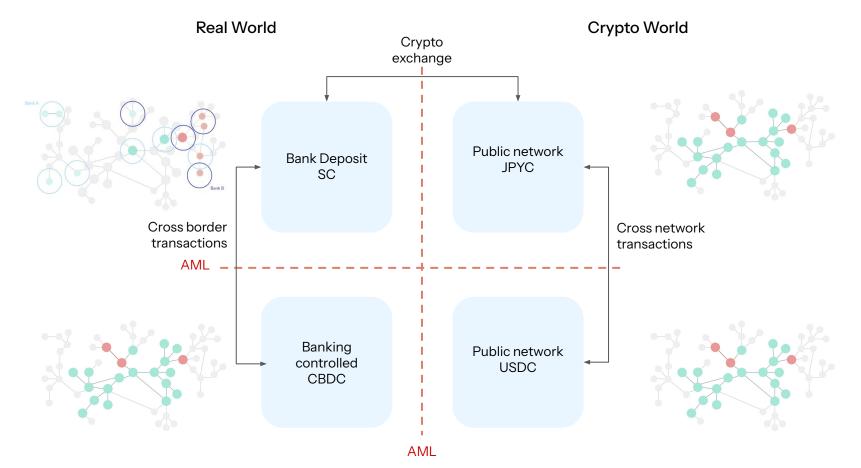
The solution

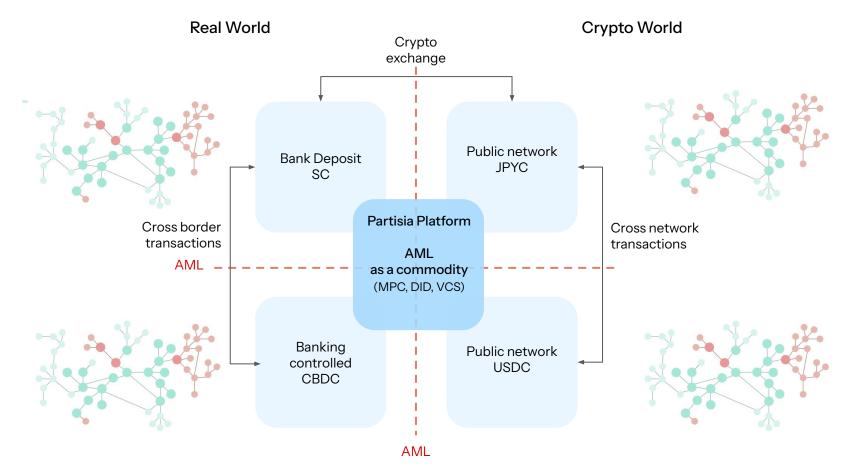
Applied across domains





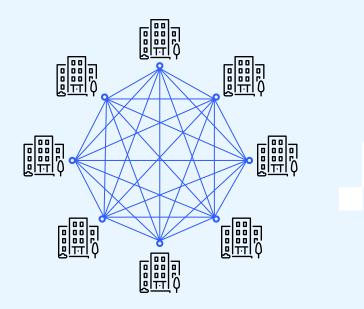






Bootstrapping uptake

Adding value in all steps



A network for banks run by banks

- Banks become part of the network
- Banks become part of the captable
- Build a network of banks for the long run

Add value for each transaction

- Add value even with a network of two banks
- Real-time assessment and dynamic blacklisting of accounts

Collaboration with regulators

- Sharing "blacklisted accounts"

"It takes a network of good actors to beat a network of bad actors"

