

# CROSS-BORDER PATROL (CBP)

TEAM 9

# CROSS BORDER PATROL

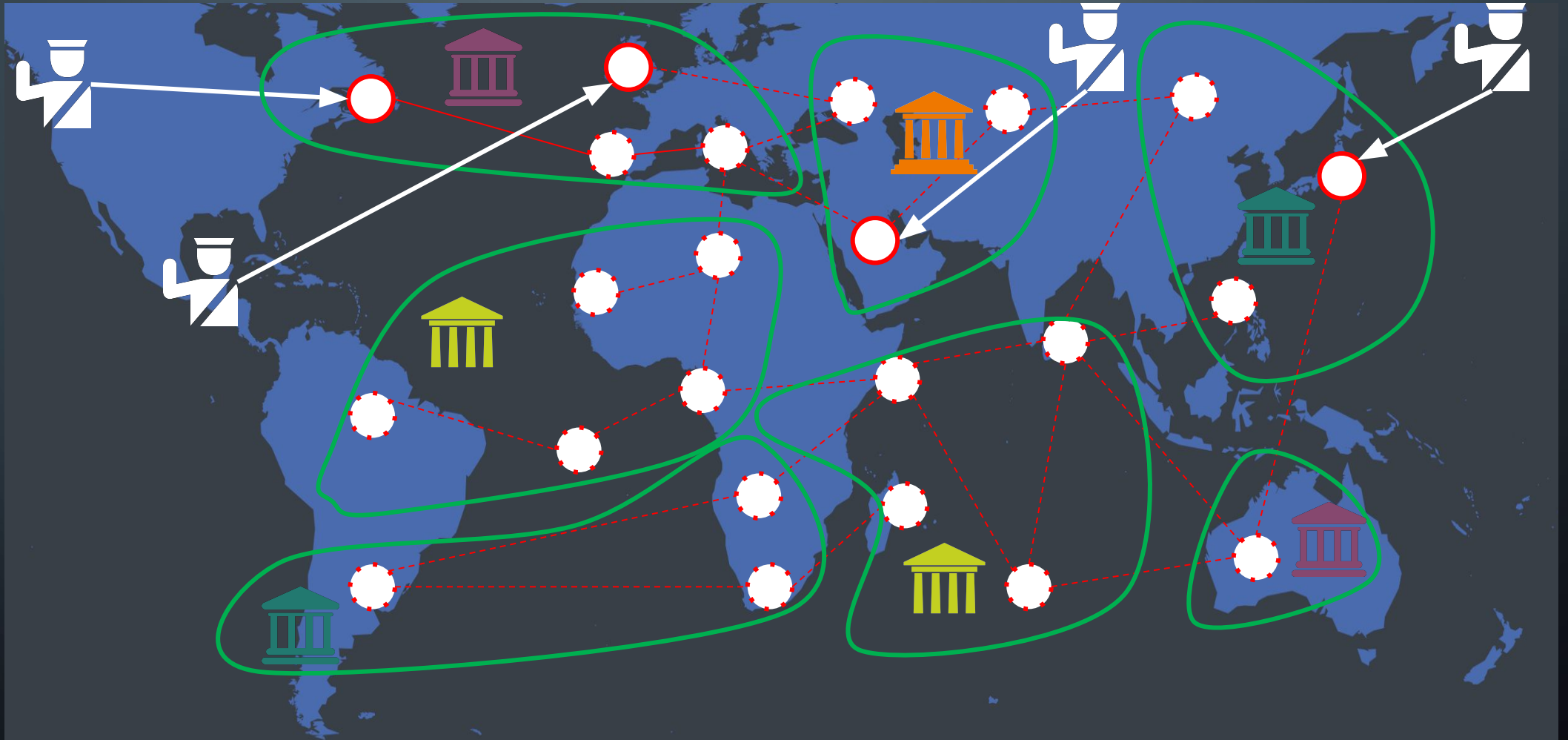
## Our Team

Law Enforcement  
Financial Institution  
Professional Services  
Systems Integration  
FinTech  
R&D

Australia  
Austria  
France  
Germany  
Poland  
United Kingdom  
United States

“We need a network to defeat a network”

# THE PROBLEM



Our network is disrupted by national and corporate boundaries and privacy constraints

# THE SOLUTION



# DEMO

<https://cpbapp.herokuapp.com/>

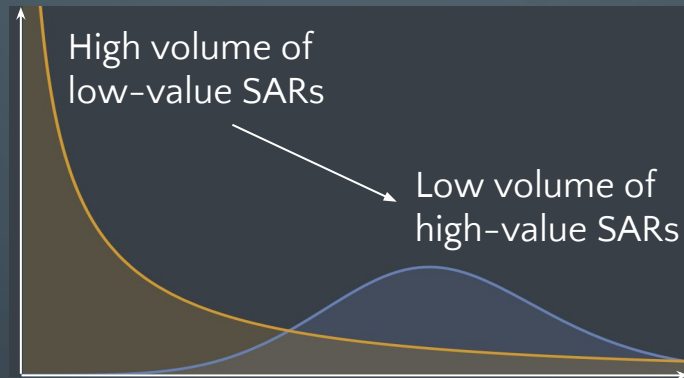
# THE FUTURE

Win for  
**Law Enforcement &  
Regulators**



Operate efficiently  
at a global scale

Win for  
**Financial Institutions**



Reduce costs  
Social dividend

Win for  
**Customers**

**PRIVACY**  
**CONFIDENTIALITY**  
**SECURITY**

Safety from harm

➡ Scale, Flexibility, Regulation, Efficiency, Effectiveness

# THANK YOU

Find our team and our vision here: [crossborderpatrol.github.io](https://crossborderpatrol.github.io)

CBP app active and accessible here: [cpbapp.herokuapp.com](https://cpbapp.herokuapp.com)



# Appendix



# TECH SPRINT ACTIVITIES

Business Value Analysis

Legal & Regulatory  
Analysis

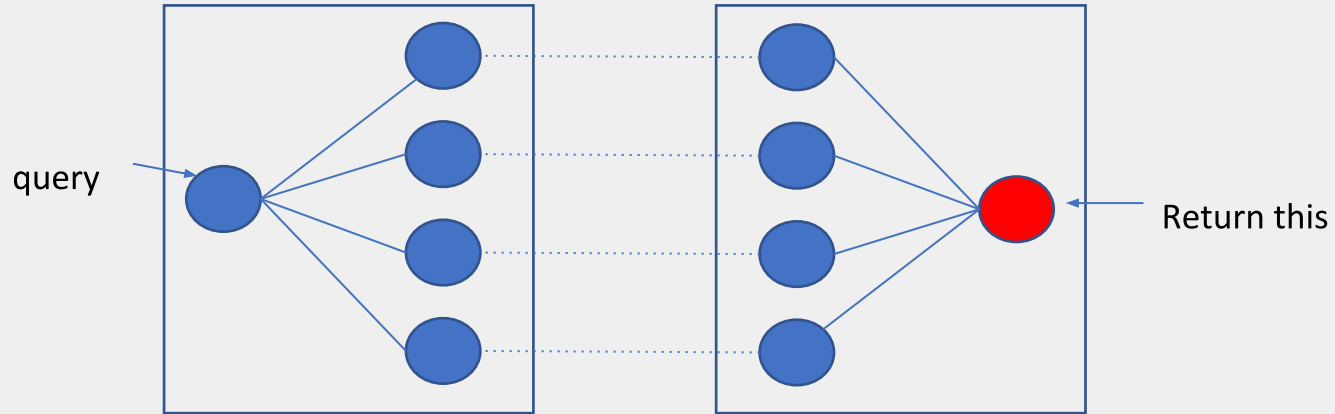
User Stories and User Interface

Encrypted Network  
Matching Algorithm

Synthetic Data analytics  
& extraction

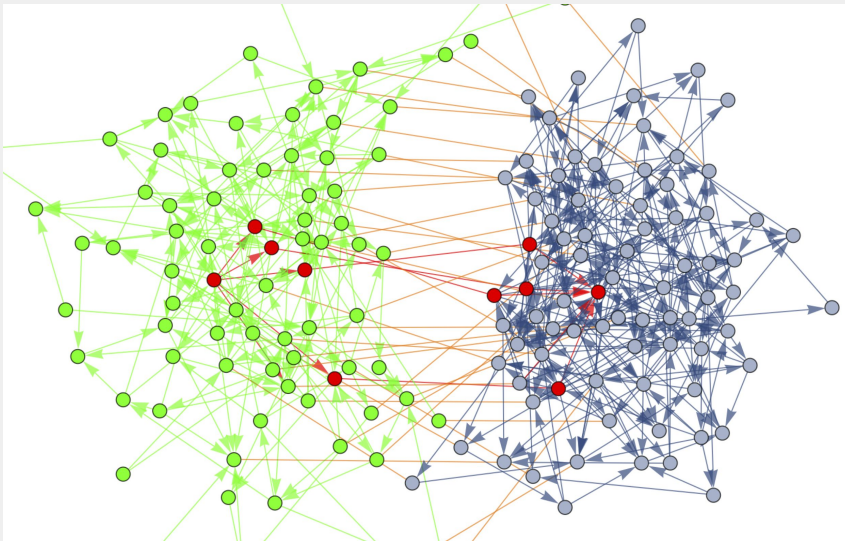
N1 Platform (existing)  
Homomorphic Encryption / Distributed Compute

# THE ALGORITHM

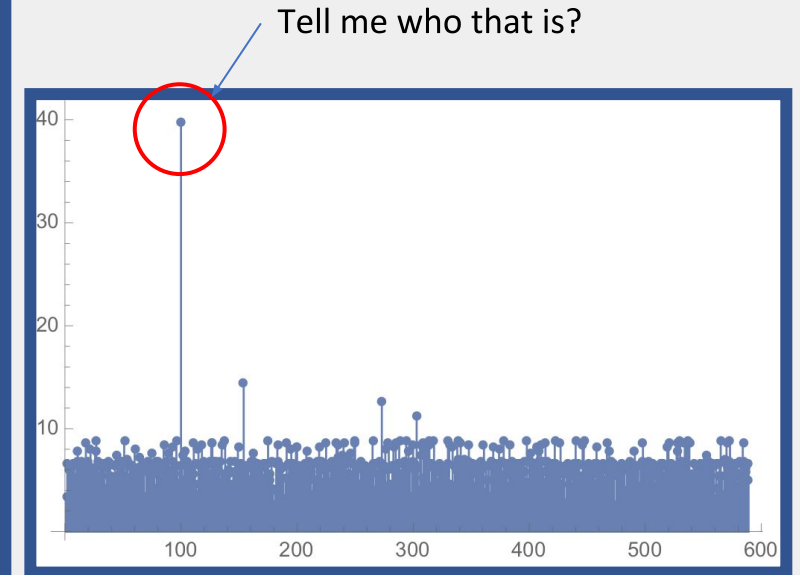


Links between banks may be transactions or common ownership

Build an encrypted signature of Mr. Big's network



Calculate the encrypted scores of entities in this network



Look for accounts highly correlated with the activity in Mr. Big's Bank A network

# NEW PRIVACY TECH

*Homomorphic Encryption*

**Encrypt**(1) "+" **Encrypt**(2) = **Encrypt**(3)

New ways to secretly analyse data



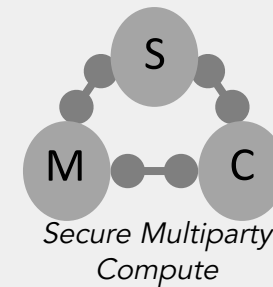
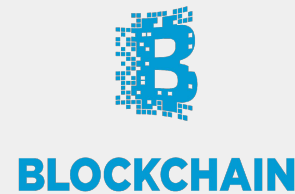
Federated Learning

Mary Smith - 10/4/1998 - 0403674324



001001011110100101001  
001000100001011110101

Private linkage of identities



**Zero  
Knowledge  
Proofs**

Many others!

# THE SOLUTION (2)

