Building an area of area of freedom, security and justice

…exchanging biometric data in the EU…

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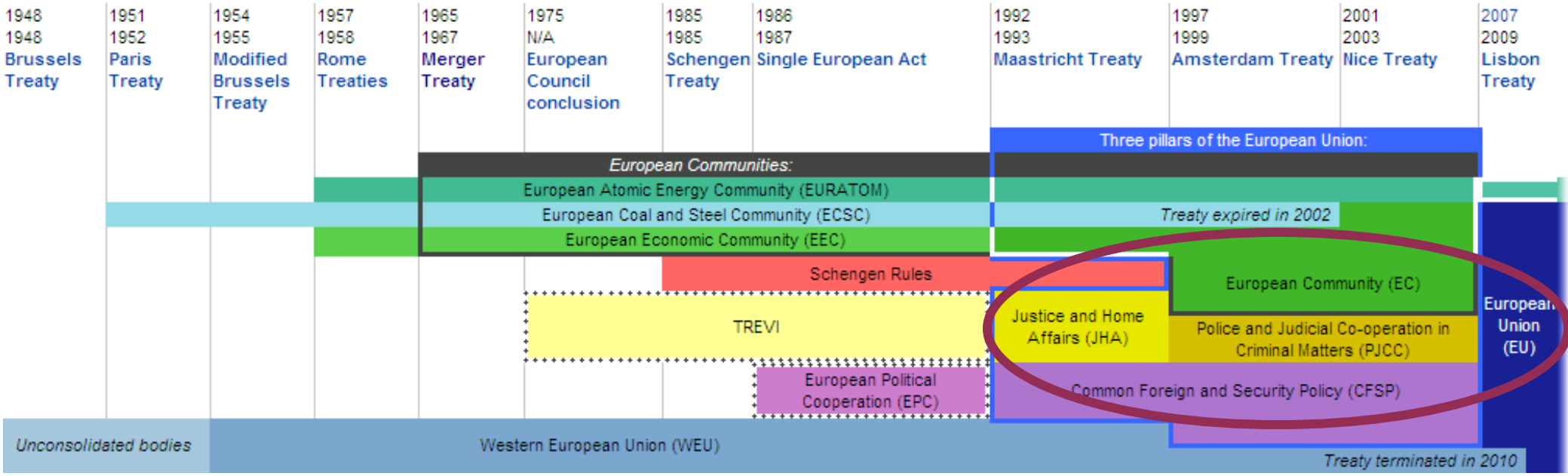
SAFRAN
Morpho

Understanding the European Union

an area of freedom, security and justice



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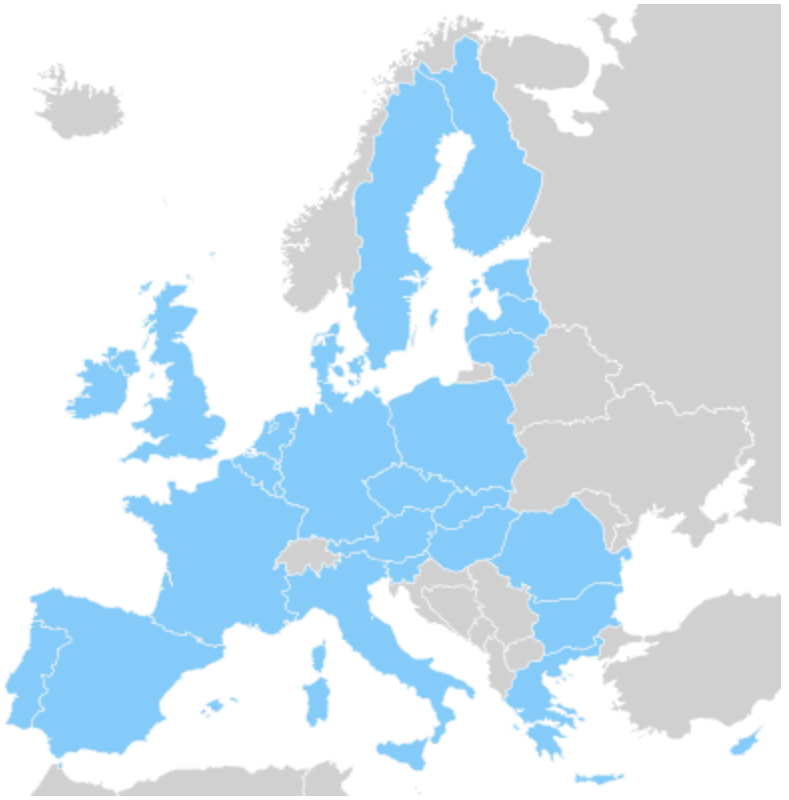
Understanding the European Union

an area of freedom, security and justice

- **European Union (EU)**
  - **European Economic Area (EEA)**
- **Schengen**
  - **Police co-operation**
  - **Border Control**
- **Member States**
  - **Old Member States**
  - **New Member States**
  - **Candidate States**
  - **Applicant States**
  - **Potential Candidate States**

Enlargement



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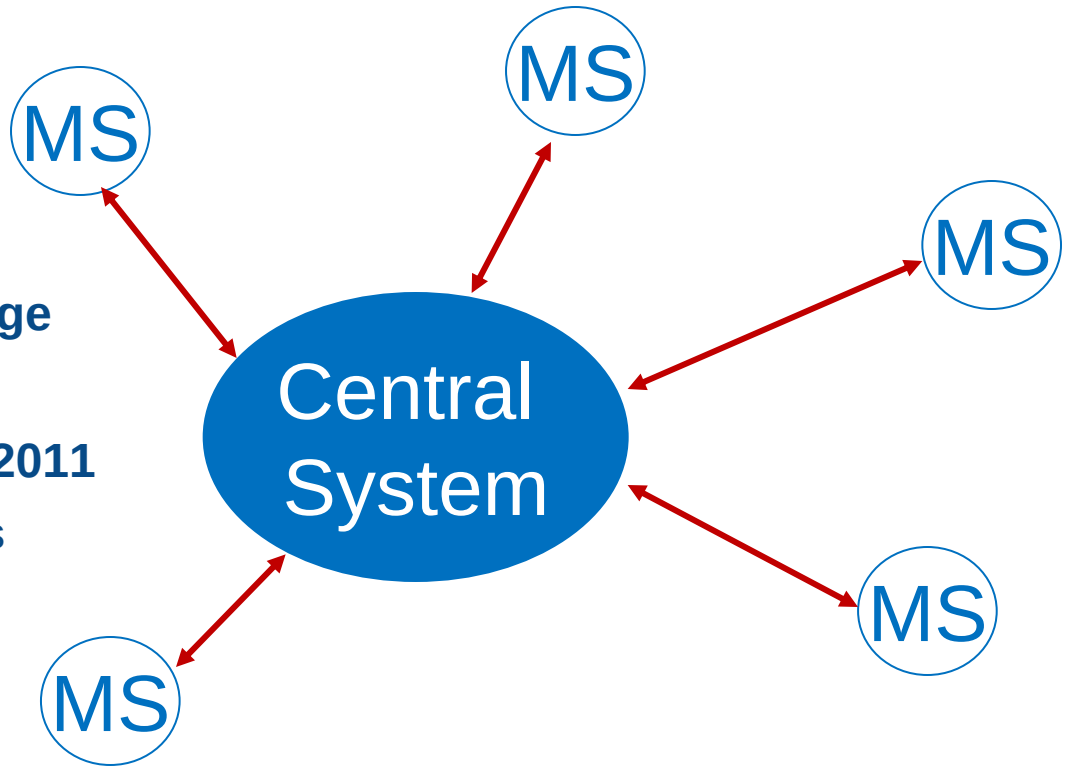
Data Sharing Models in the EU

Centralised

- **EURODAC (EU Asylum System)**
  - **Tenprint rolled**
  - **No alphanumeric data**
  - **Live since Jan 2003**
- **EU VIS (EU Visa System)**
  - ✓ Biometric Matching System
  - **Alphanumeric data + facial image**
    - ✓ 10 prints flat
  - **Operationally ready 24th June 2011**
    - ✓ Visa applications with biometrics
      - staged worldwide rollout
    - ✓ Biometric Border Verification
      - 3years after go live



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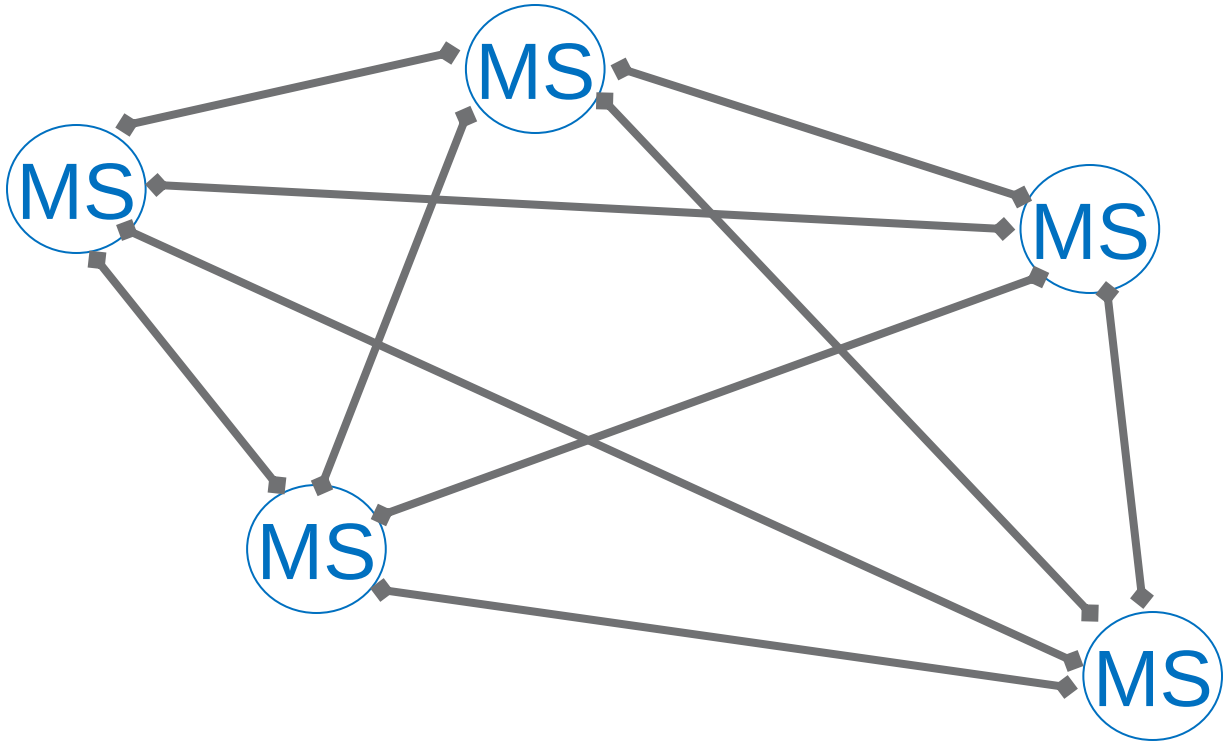
Data Sharing Models in the EU

Decentralised

- **Prüm**
  - **Deadline Aug 2011**
  - **Fingerprints**
    - ✓ Tenprints
    - ✓ Palmprints
    - ✓ Latents
    - ✓ 7 MS live
  - **DNA**
    - ✓ 10 MS live
  - **Vehicle Registration**
    - ✓ 10 MS Live



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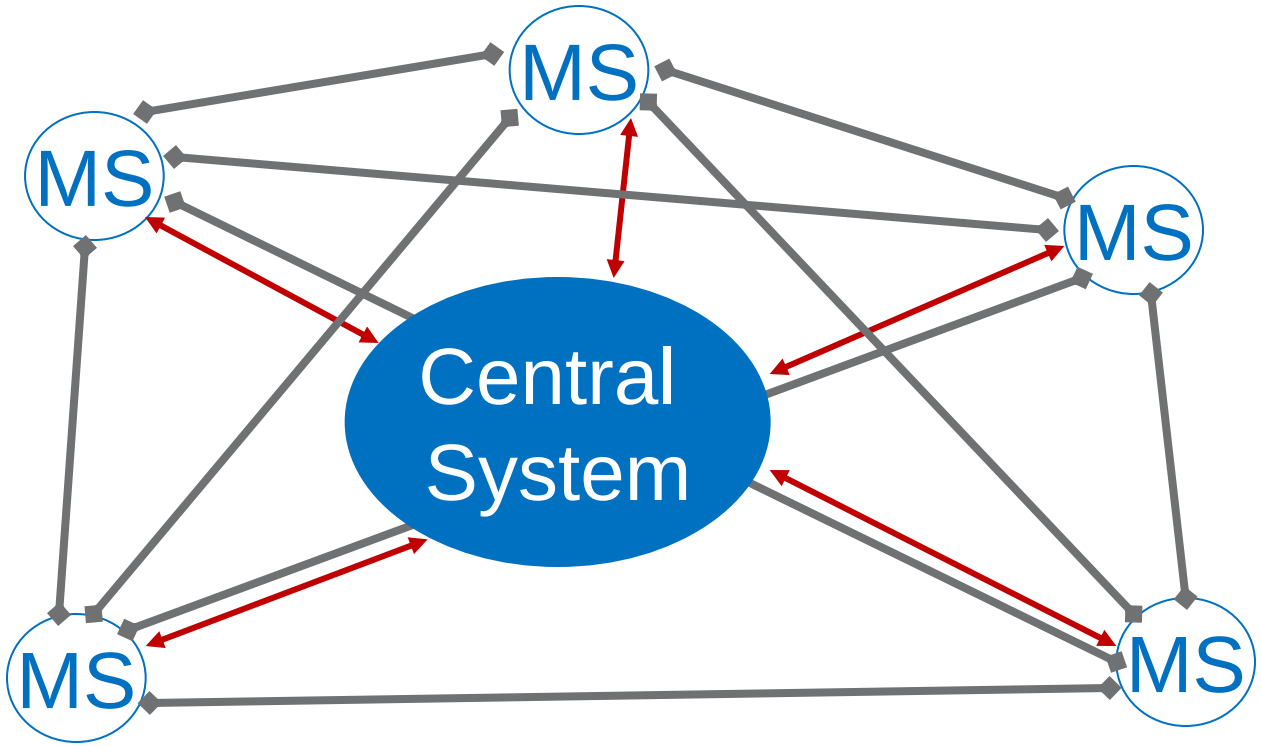
Data Sharing Models in the EU

Distributed

- **Schengen Information System (SIS)**
  - **Alerts on people and goods**
  - **Biometrics exchanged via decentralised model**
  - **Live since 1995**
  - **SIS II**
    - ✓ Biometrics
    - ✓ Go live 2013 ?



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Under discussion

- **Exchange of Criminal Records**
  - **European Citizens**
    - ✓ Biometrics as an option
    - ✓ Decentralised model chosen
    - ✓ Due to go live April 2012
  - **Third Country Nationals**
    - ✓ Technical Study completed
    - ✓ Feasibility Study to be launched Spring 2011
      - Legislation changes
      - Data to be exchanged
        - » Many MS want it to be fingerprints
      - Model for the exchange
        - » Many MS pushing for centralised model

The Operational Challenges

Throughput

Decentralised Model

- **Incoming Transactions**
  - **Sizing**
  - **Storage**
  - **Memory**
  - **New workflows**
- **Outgoing Transactions**
  - **New Workflows**
    - ✓ Automatic or Manual Workflows
    - ✓ Additional Processes might mean additional Workstations
  - **Manual Verification**
- **Manage the transaction limits**

V

Centralised Model

- **Outgoing Transactions**
  - **New Workflows**
    - ✓ Automatic or Manual Workflows
    - ✓ Additional Processes might mean additional Workstations
  - **Manual Verification**

The Operational Challenges

Searching strategies

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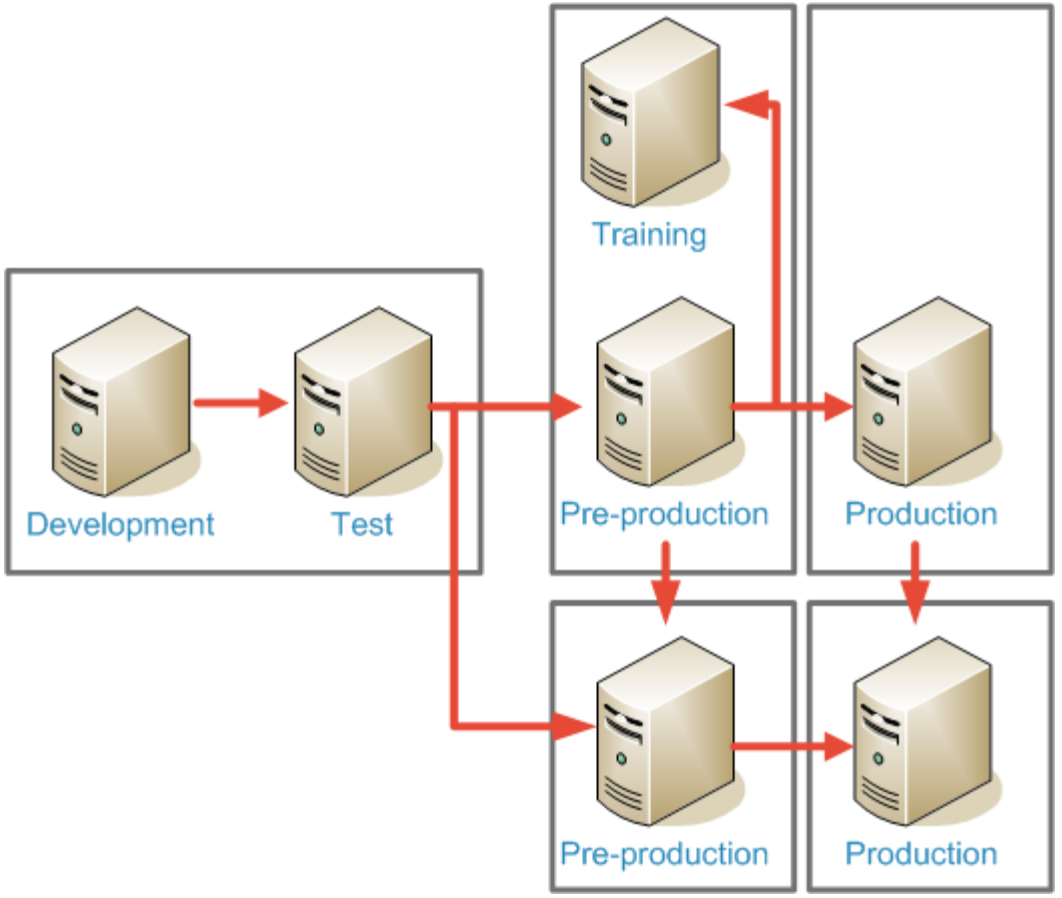
The Operational Challenges

Technical Infrastructure for decentralised model

- **Meeting the Response times**
  - **Higher resiliency**
  - **More IT domains to manage**
- **Testing**
  - **If 29 MS then**
    - ✓ with each MS = 28 tests
    - ✓ total no of communication tests = 812
  - **Can you test on an operational system?**
  - **Testing is not a one-off operation**
    - ✓ Will need this forever
- **Logging**
  - **Archiving of outbound and inbound responses might be required**
    - ✓ Prüm = ‘all data’



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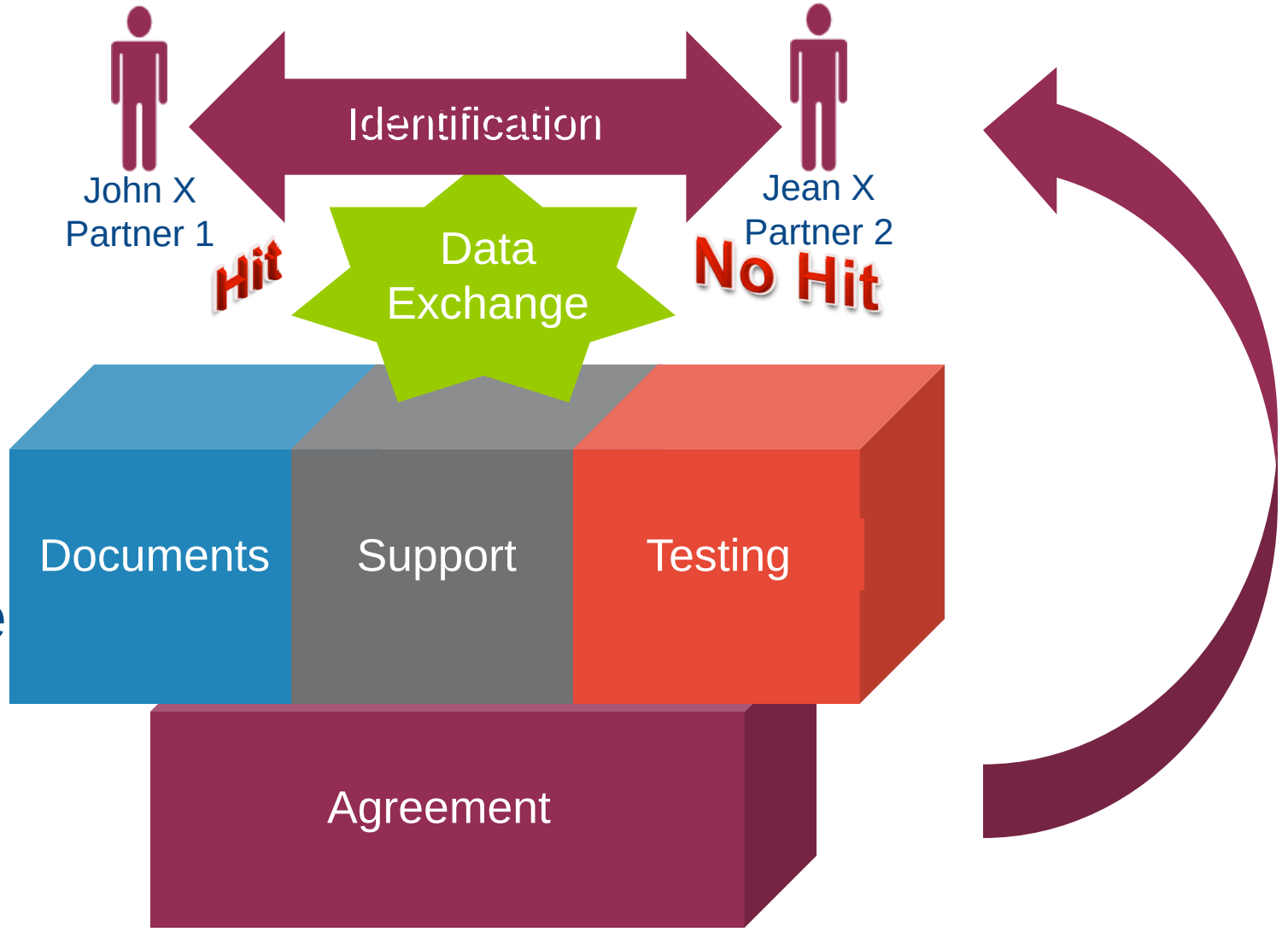
Building blocks for successful data exchanges

Success

Core data (biometrics)

Required Infrastructure



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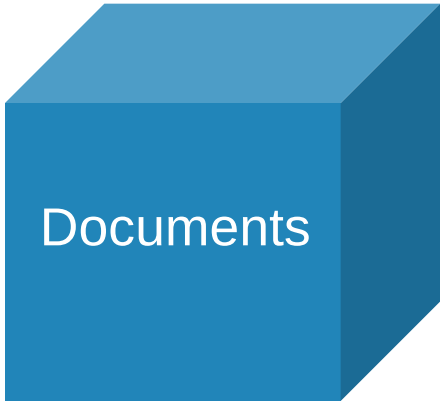
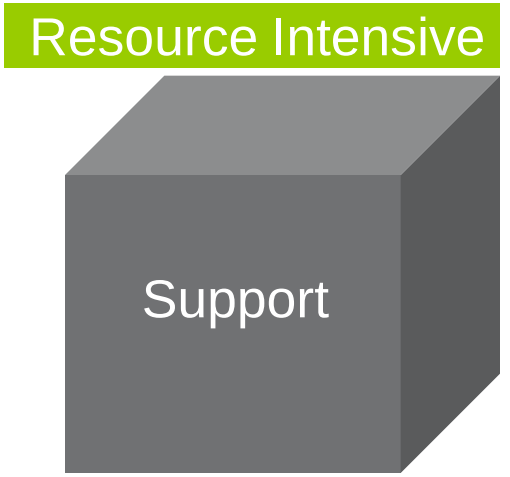
Building Blocks

Minimum requirements



- **Interface Control Document**
  - **Data to be exchanged**
  - **Types of Transactions**
    - ✓ Required for both core data and secondary data
- **Exchange Interface Document**
  - **Network definitions**
  - **Email addresses**
    - ✓ Need both formal and adminsitrative
  - **Certificate management**
- **Testing Document(s)**
  - **Communication tests between the network nodes**
    - ✓ Centralised : Once per partner
    - ✓ Decentralised : x*x-1
  - **Transaction Tests**
    - ✓ Test Data : need to be sure of the results of the tests
- **Final Acceptence / Go Live criteria**
  - What does it entail

Building Blocks



- Development of and understanding of FAQ
  - Pass on lessons learned
- Distribution of document updates
  - There are always errors in technical documents
  - Need a formal, fast way to disseminate information to all parties and their suppliers
- Management of Tests between partners
  - Central repository of test data
- Management and Distribution of certificates
  - If there are many partners, certificates will expire at different times
- Monitoring of Network
  - Most problems are network issues due to the number of stakeholders involved
- Training

Building Blocks

Resource Intensive

- **How is the testing organised**
  - **Communications and transactions tests can be performed separately**
  - **Time and resources**
    - ✓ Need dedicated personnel available to monitor results and resolve problems
- **How is testing performed on an operational system if no test system exists**
  - **Incoming transactions**
  - **Insertion of Test data**
  - **Logging**
    - ✓ If logs are used to create legal reports

Challenges

Organisational

- **After going live**
  - **What data should be submitted**
  - **Who decides what data should be submitted**
  - **Which Partner(s) should the data be submitted to**
    - ✓ The searching strategy
  - **Who verifies a hit from a request**
  - **Who supplies the alphanumeric data to a requesting partner who has verified a hit**
    - ✓ Might need dedicated ‘office’ to manage this
  - **Who deals with the issue when you exchange wrong data**

Funding

Who pays ?

Lessons learned

for success

- **Standards are just the starting point**
  - **not the end of the road**
- **It is not just about adding software to handle automated exchanges**
  - **Biometrics work but success is actually based on the manual exchange secondary alphanumeric data not the first level core data exchange**
- **Organisational challenges are greater than the technical challenges**
  - **Data Sharing changes the back office processes for ever**
- **No matter what exchange model is chosen you need key building blocks for the model to work**
  - **Without them, everybody struggles and the real issues are misunderstood**
- **Funding**
  - **If procurements are controlled by each individual partner, timeframes for going live are long**

Thank you

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