TERENA

AAA Study
Final Workshop

Brussels, 7 July 2012

Licia Florio

florio@terena.org

AAA Study Recommendations

Agenda

➢ Overview of the study goals

➢ Partners and methodology

➢ Recommendations

➢ Next Steps

Goals of the Study

Evaluate the feasibility to deliver an integrated AA(A)I to help the emergence of a robust platform for access and preservation of Scientific Data Information (SDI)

Provide recommendations to inform a EU strategy to deliver a SDI to enable access to a variety of dataset for the scientific community and the public at large

In Scope

TERENA

- ➢ Researchers requirements on data sharing, usage and access

- ➢ Technology drivers

- ➢ Obstacles and legal issues to deliver an integrated AA(A)I

Not In Scope

- ➢ Technical design of the integrated AA(A)I

- ➢ Digital identifiers

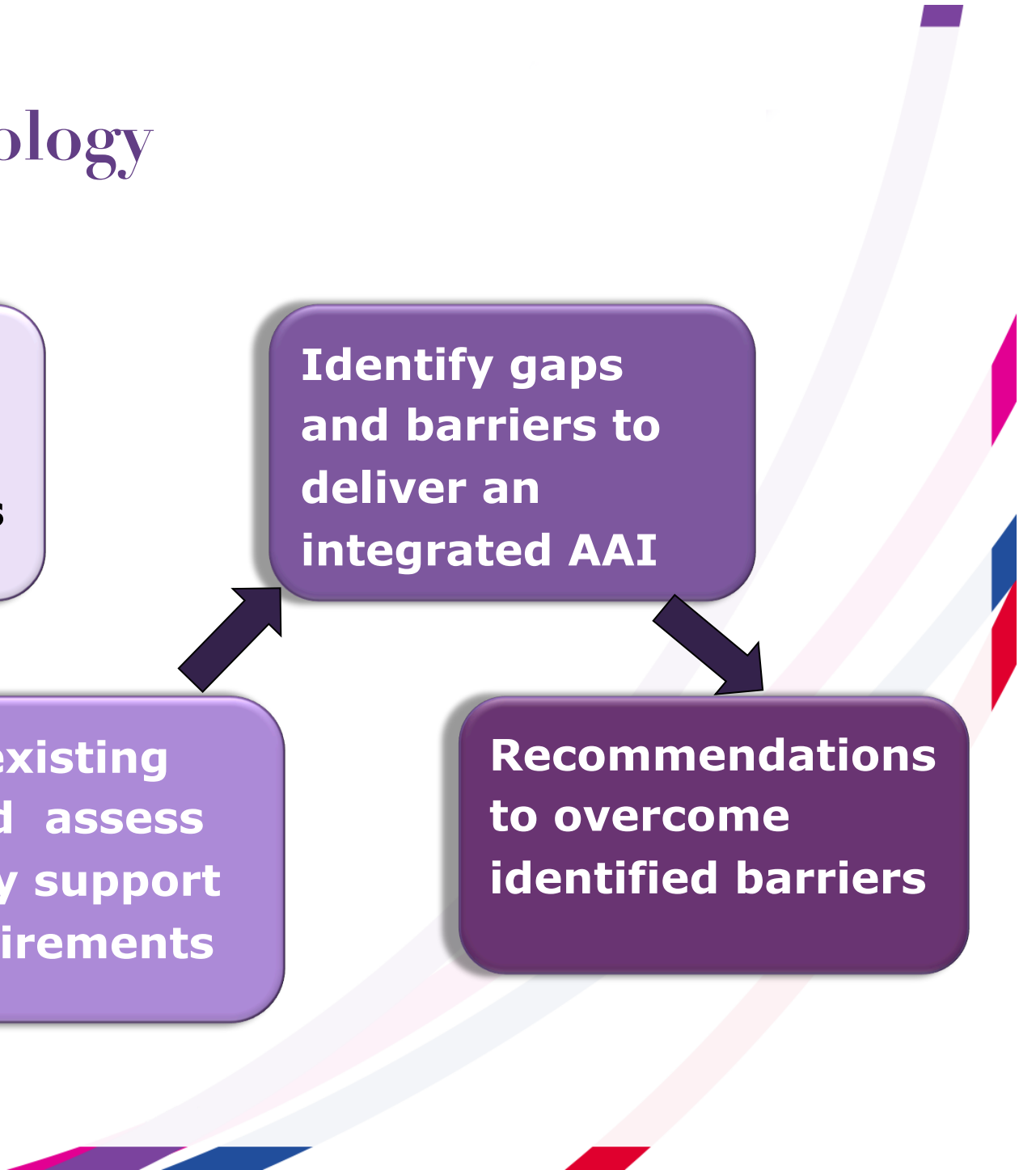- ➢ Evaluation on Linked Data/Open Access

Methodology

Gather use-cases to form an understanding on AAA requirements for SDI

Survey existing AAIs and assess how they support the requirements

Identify gaps and barriers to deliver an integrated AAI

Recommendations to overcome identified barriers

Output of the Study

"Advancing technologies and Federating communities"

Study on Authentication, Authorization and Accounting (AAA) Platforms For Scientific data/information Resources in Europe

➢ AAI Requirements for SDI

➢ Survey of existing AAIs

➢ **Recommendations**

Key People Beyond the AAA Study

➢ Partners:
  ✧ TERENA (Licia Florio coordinator)
  ✧ UvA (Yuri Demchenko)
  ✧ LIBER (Susan Reilly)
  ✧ DEENK (Univ. Debrecen)

➢ Experts:
  ✧ Klaas Wierenga (Cisco Systems, Mobility expert)
  ✧ Diego Lopez (Telefonica I+D, federated access technologies experts)
  ✧ Nicole Harris (JISC Advance, federated access technologies experts)
  ✧ David Groep (Nikhef, EGI/IGTF expert)
  ✧ Torbjörn Wiberg (Univ Umeä, eIRG member)
  ✧ Andrew Cormack (JANET, Data Protection expert)

Key Findings

- ➤ Existing AAIs satisfy their users' needs;
- ➤ Existing AAIs have a significant user base and have reached a mature deployment;
- ➤ There are no AAIs that can satisfy all requirements requirements;
- ➤ There is consensus in adopting identity management technologies;
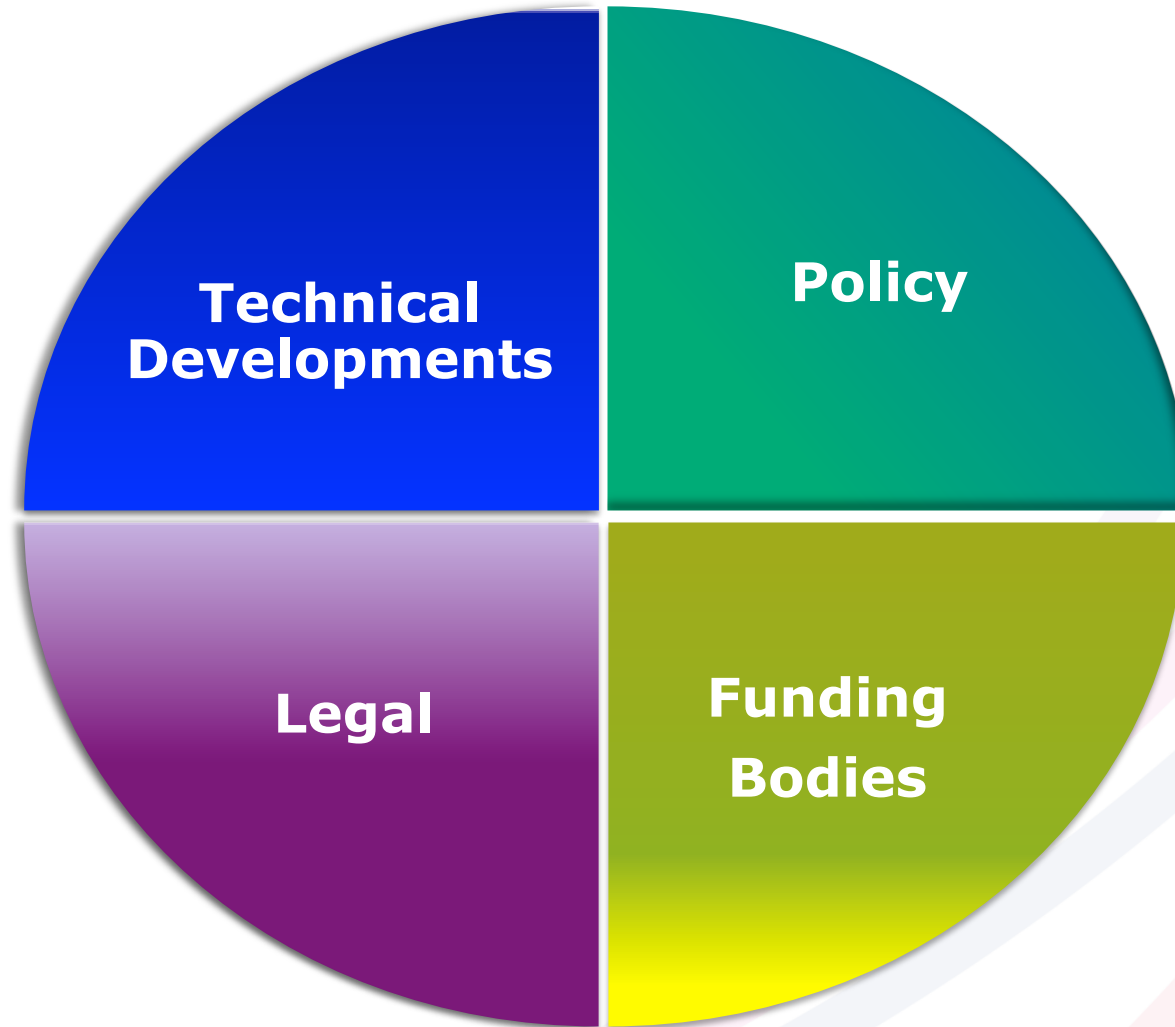- ➤ The delivery of the SDI should be achieved by harmonizing existing infrastructures

Recommendations

The Areas Addressed

Technical Developments

Policy

Legal

Funding Bodies

Technical Recommendations

The core focus for technical development should be on:

(i) Lowering the adoption threshold for new users and providers;

(ii) Enhancing existing infrastructures in line with emerging requirements;

(iii) Supporting development on interoperability of existing AAIs and underling technologies;

Technical Recommendations

➢ More specifically:

 ◇ Enhance Identity Federations to support community requirements (eScience, libraries, etc);

 ◇ Extend existing models for network resources and applications access control to make them data centric (IPR, licenses , etc);

 ◇ Improve authorisation; provide support for decentralized attribute management;

 ◇ Improve accounting particularly in distributed environments;

 ◇ Develop model to securely use cloud computing;

Policy and Practice Recommendations

There is growing realisation that existing policies and practices do not meet the needs of ever evolving technologies and more critically, are being interpreted and implemented differently across the EU member states.

Policy and Practice Recommendations

➢ More specifically:

◇ Support the development of a common policy and trust framework for Identity Management that involves NRENs and eResearchers.

◇ Improve collaboration among REFEDS, IGTF, libraries; and with more strategic initiatives like eIRG and ESFRI;

◇ Provide assurance that fundamental rights will not be over-ridden by the exchange of attributes necessary for federated access management;

◇ Enforce IPR policies in ways to preserve ownership of data but also inline with the open nature of the Internet;

Legal Recommendations

Developments in this area should focus on achieving clarity, consistency and user-friendly tools for implementation. The main law to be considered in this area is the European Data Protection Directive (95/46/EC) and its revision, the draft Data Protection Regulation (published in January 2012).

Legal Recommendations

➢ More specifically:

   ✧ Provide clarity about Consent and Legitimate Interest;

     › Note that consent is questionable in a federated contest!

   ✧ Create and support a clear statement on the legal status of processing opaque identifiers, implemented consistently across Member States.

   ✧ EC to provide clear information for Member States and education community on the key aspects of the Data Protection Regulation when it enters into force.

     › In the meanwhile support for a more consistent implementation of the Data Protection Directive should be pursed

Recommendations for Funding Agencies, EC and Member States

Funding should be allocated to develop and enhance the convergence of eInfrastructures. The deployment of an SDI can only be successful if Member States embrace it and provide the necessary funding to ensure that universities, libraries and research centres can connect to it.

Recommendations for Funding Agencies, EC and Member States

➢ More specifically:

 ◇ Periodical studies should be funded to assess the impact of new technologies and the penetration of existing infrastructures at national level.

 ◇ National federation operators should act to expand the coverage of their identity federations to include research centres and libraries.

 ◇ The operation of data centres, storage and cloud facilities should be (whenever possible) entrusted to existing and specialised centres.

Next Steps

➢ Significant effort has been spent to cover as many angles as possible:

   ✧ However there may be a number of points that need clarifications or improvement;

➢ This workshop is only one mean to convey your feedback;

   ✧ You can mail anyone of the study team;

➢ We will include your comments in the final report and correct any inaccuracy you might have identified.

   ✧ The final version of the report is expected in September.

Thanks for listening