

Information Services in partnership with the School of Computing

# Logins for Life



# Project Overview

- What is Logins for Life?
- Identity Lifecycle – how would this change?
- Lifelong learning!
- Middleware (Glue)

# Best Practice

- Talking to others
- Other digital identities
- Improving user experience



# Aims and Objectives

- Strategy
- Interview interested parties and create use-cases
- Make internal recommendations
- Build proof-of-concept platform based on existing technologies
- Show and tell

# Deliverables

- Reports
  - Use-cases for Kent
  - Recommendations
  - Roadmap for adoption at Kent
- Proof-of-concept (glue) platform and documentation
- Workshop

# Scope: Stop that creep!

- Organisation (School, College, Institution)
- Sector (FE, HE, Life-long-learning)
- Public Life (Government Gateway)
- Private Life (Facebook? Twitter? OpenID?)
- Utopia

## Related work

- The OpenID Study (JISC, Edina)
- Shintau (JISC)
- PERMIS (EC ISIS)
- FAME-PERMIS (JISC, University of Manchester)
- Easy Expression of Authorisation Policies (EPSRC)
- TAS3 (EC FP7)

# What is a Digital Identity?

- A user or entities online presence.
- A collection of attributes and identifiers at different IdPs
  - an identifier is a special type of attribute that uniquely identifies a person
  - constructed using different underlying protocols and technologies.
  - cannot interoperate with identifiers of other types.
- Two common Approaches to federated identity Management :
  - Self Asserted – As long as I always say my name is George then it doesn't really matter to the SP if my name is actually David (OpenID).
  - Third-party Asserted – The UoK knows me and asserts that my name is George. If my name then turns out to be David the SP can blame UoK (SAML 2.0, InfoCard)

# Underlying technologies (for now)

- SAML 2.0
  - High LoA
  - Complicated
  - Requires a formal federation structure
- OpenID
  - Low LoA
  - Relatively Simple
  - Distributed
  - Extremely Popular
- InfoCard / Ws-\*
  - High LoA
  - Complicated
  - Requires pre-issued InfoCards
- PERMIS
  - Attribute Based Access Control
  - LoA Support
  - Attribute Aggregation and Account Linking (Shintau)

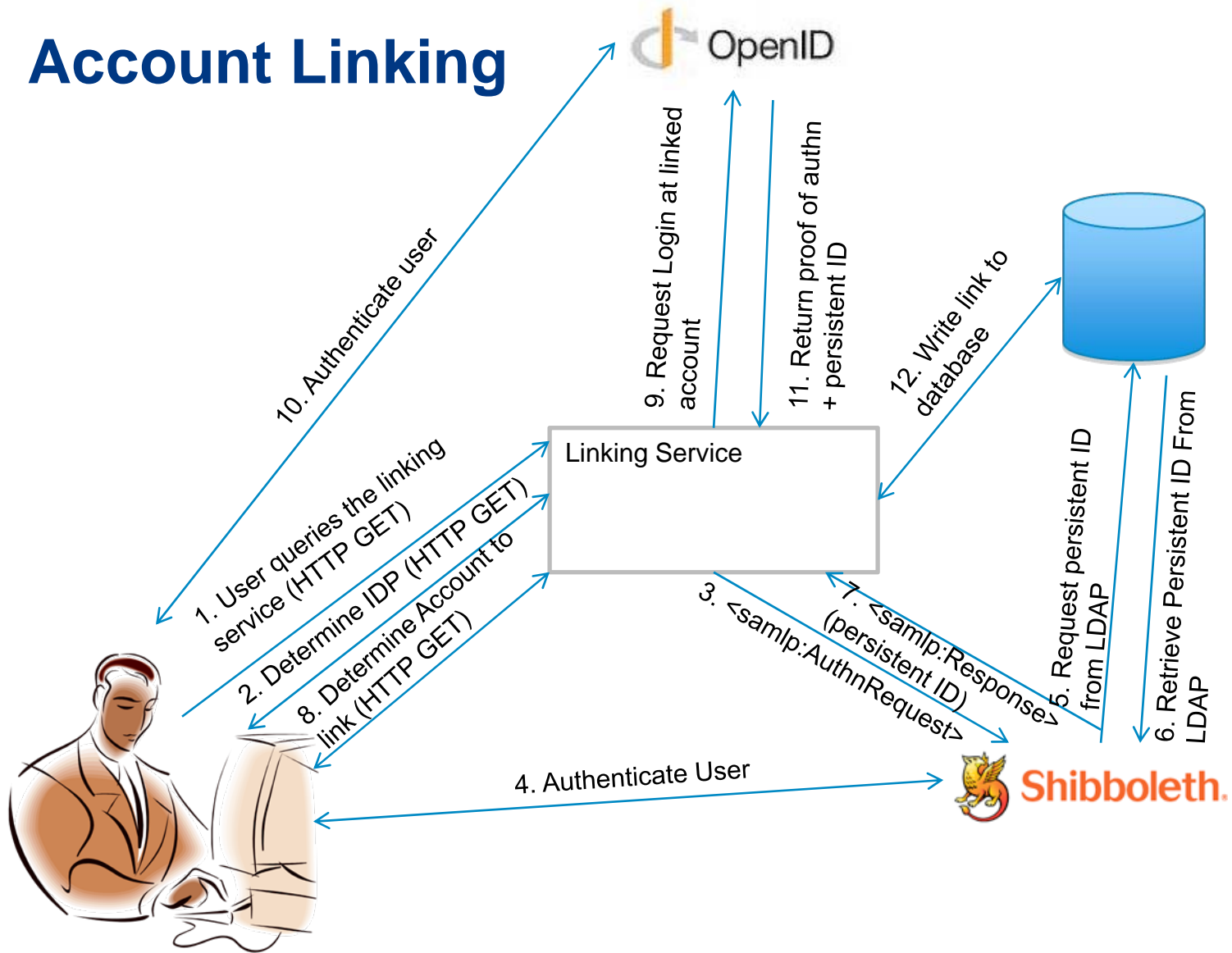
## Possible Additional Technologies?

FaceBook Connect, OAuth, OpenSocial

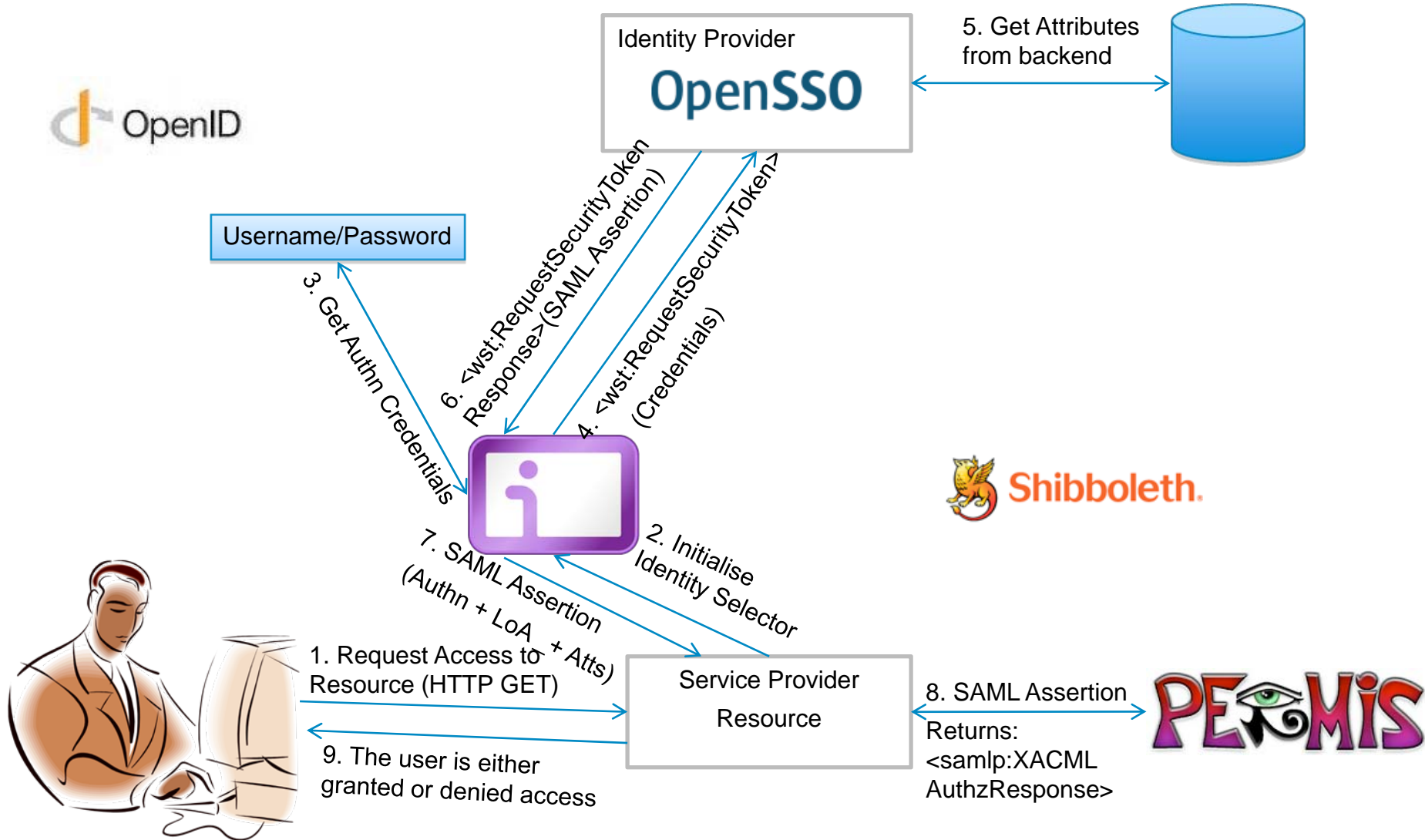
# Underlying Goals

- Demonstrating Interoperability between these diverse technologies
- Making a powerful yet user-centric system for access to resources
- An IdP that talks multiple common standards

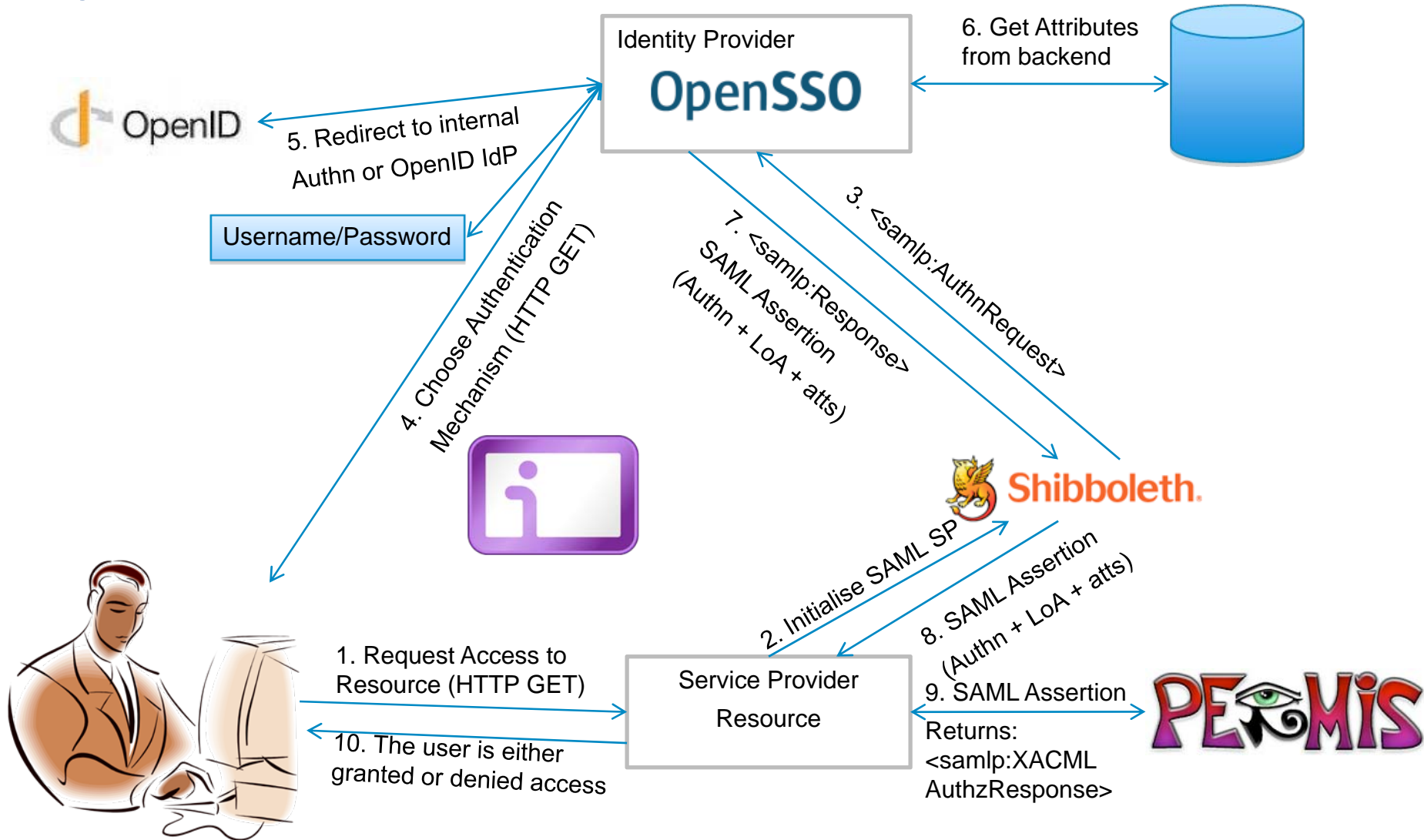
# Account Linking



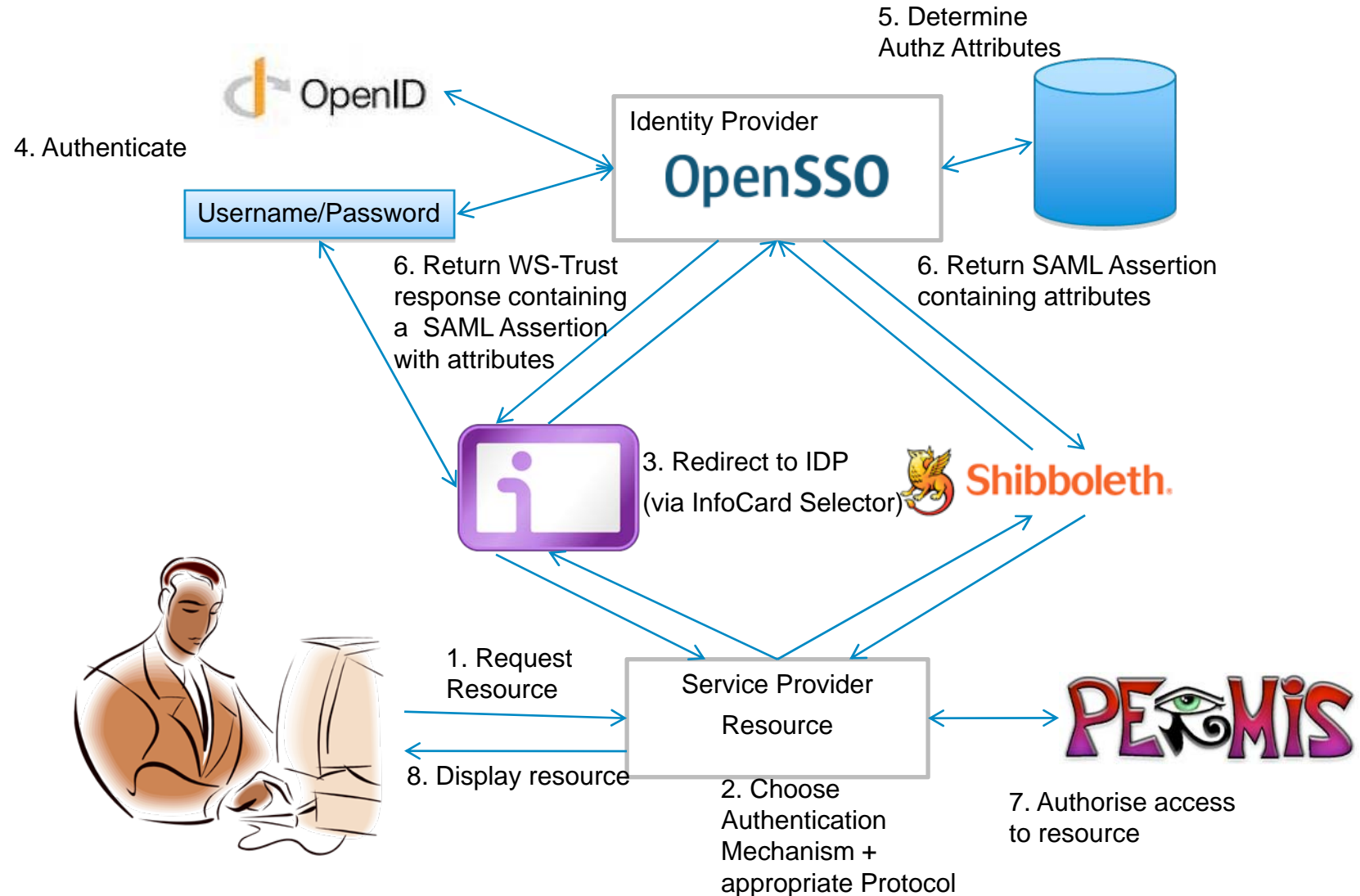
# System overview (InfoCard)



# System overview (SAML / OpenID)



# System overview



# Measuring Success

- Does it work?
- Workshop feedback
- User trial feedback
- External review of findings

# The wider community

- A multi-protocol IdP and related software
- Use-cases and recommendations which can (hopefully) be applied by other institutions
- An example timeline of how to implement the concepts
- Workshop

## More information

Project site: <http://bit.ly/aUpkPr>

Blog: <http://blogs.kent.ac.uk/logins4life/>

Computer Science Press Release: <http://bit.ly/aEi1XR>

# Questions?

This presentation: <http://bit.ly/9uOfVI>