

# UPKI Federation -2009 Pilot Operation-

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- ▶ Federation
  - ▶ 2008 Feasibility Study
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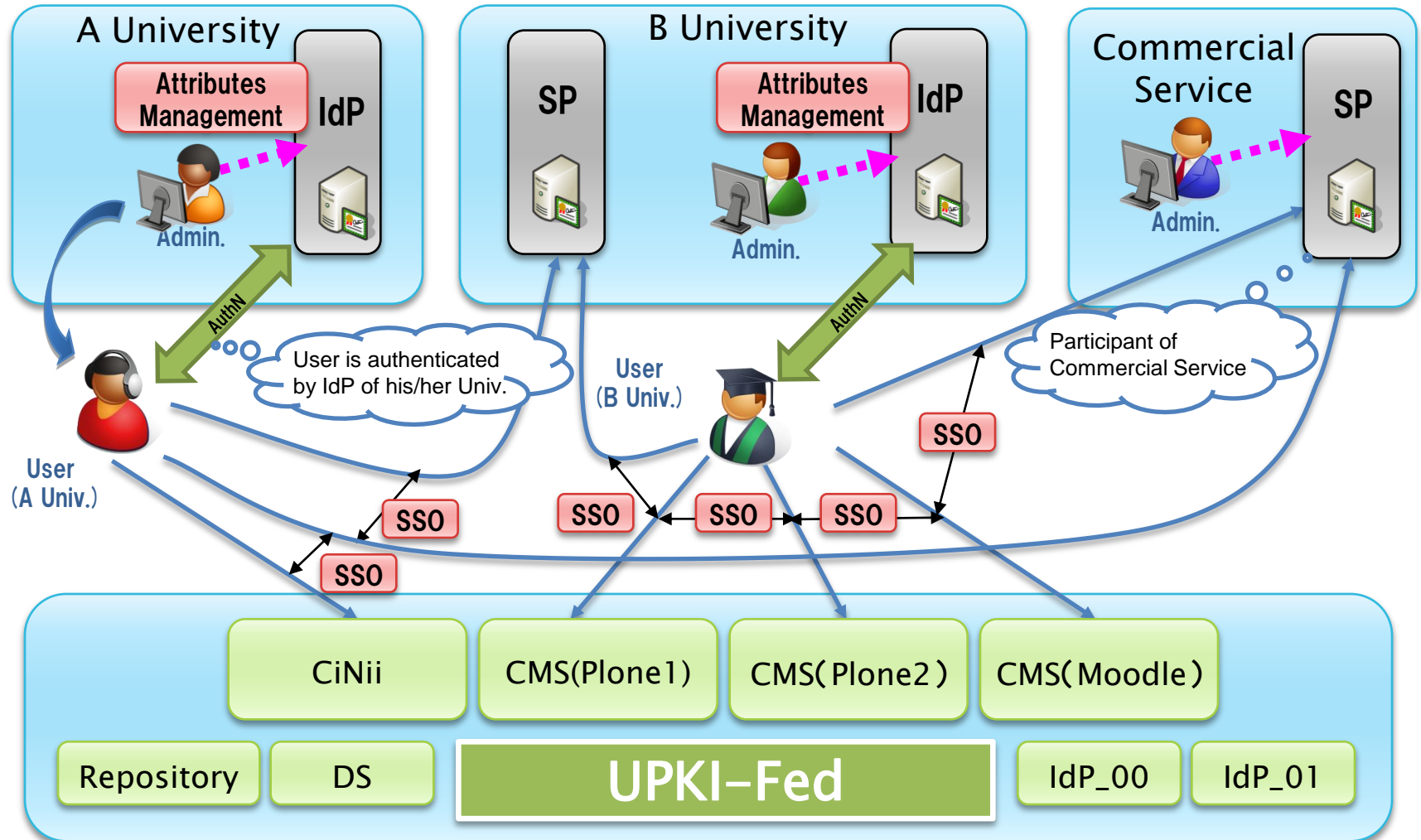
# 2008 Feasibility Study: What we did

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- ▶ Preparation
    - ▶ Setup documents
    - ▶ VMWare Image for IdP
    - ▶ test-bed including DS, repository (see next slide)
  - ▶ Explanatory meeting
    - ▶ Ask to attend both IT people and librarians from each institutes
  - ▶ Development
    - ▶ setup test SP
    - ▶ support institutes to setup IdP, SP
    - ▶ metadata distribution
    - ▶ feasibility test instruction
    - ▶ share information by wiki, mailing-list, mail magazine
  - ▶ Participants meeting
    - ▶ report status from all institutions
  - ▶ Preparation for next step
    - ▶ discussion and development of policy for pilot operation
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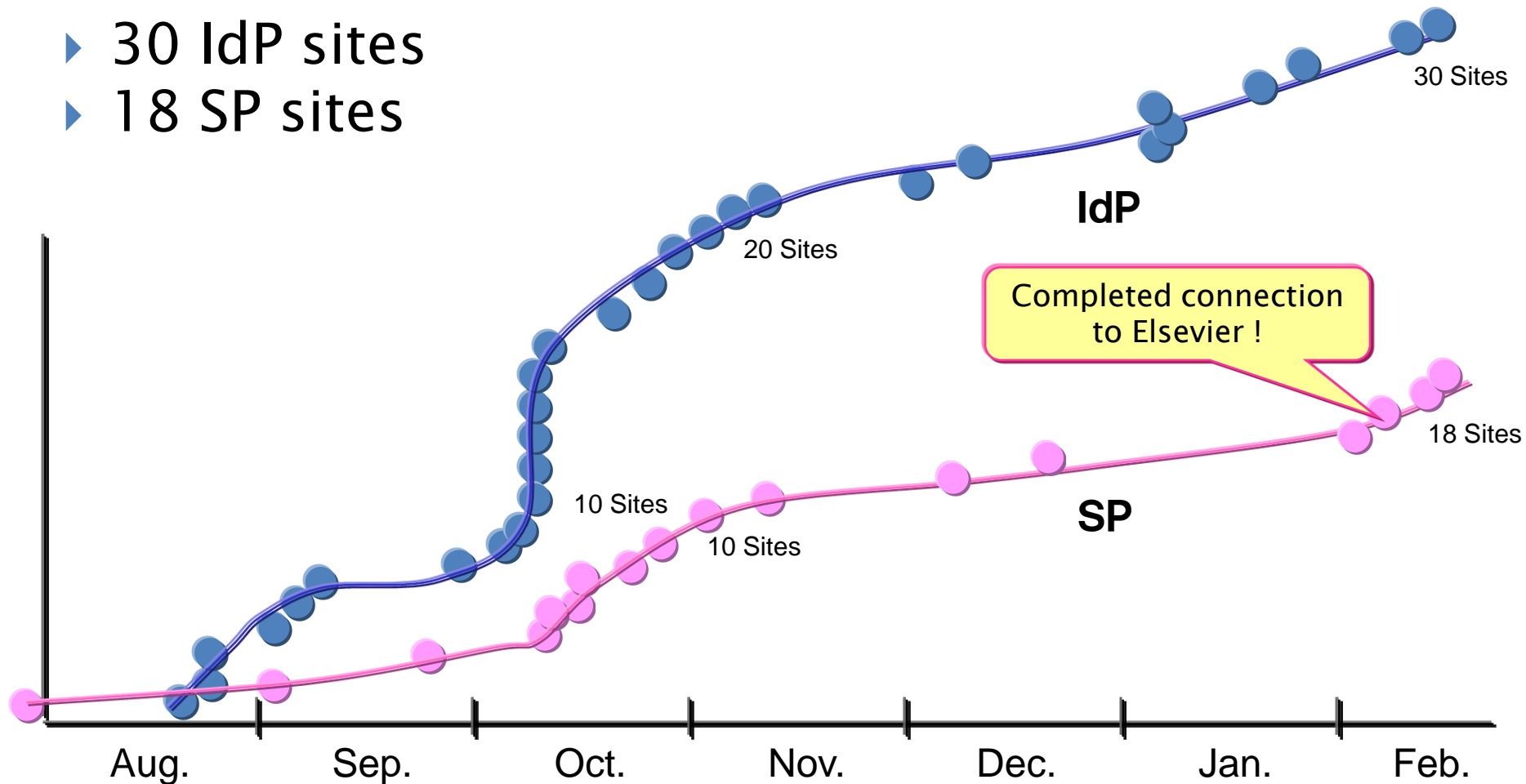


# 2008 Feasibility Study: System Environment



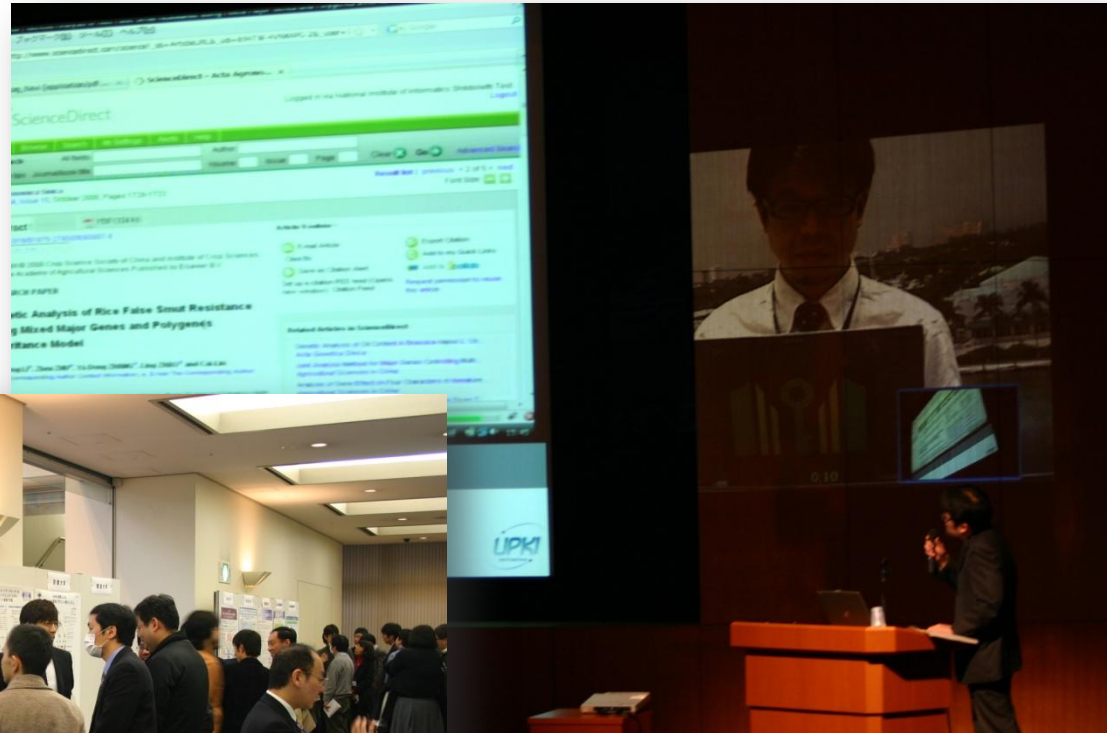
# 2008 Feasibility Study: Participants

- ▶ 27 Institutions
- ▶ 30 IdP sites
- ▶ 18 SP sites



# 2008 Feasibility Study: UPKI Symposium (February 23, 2009)

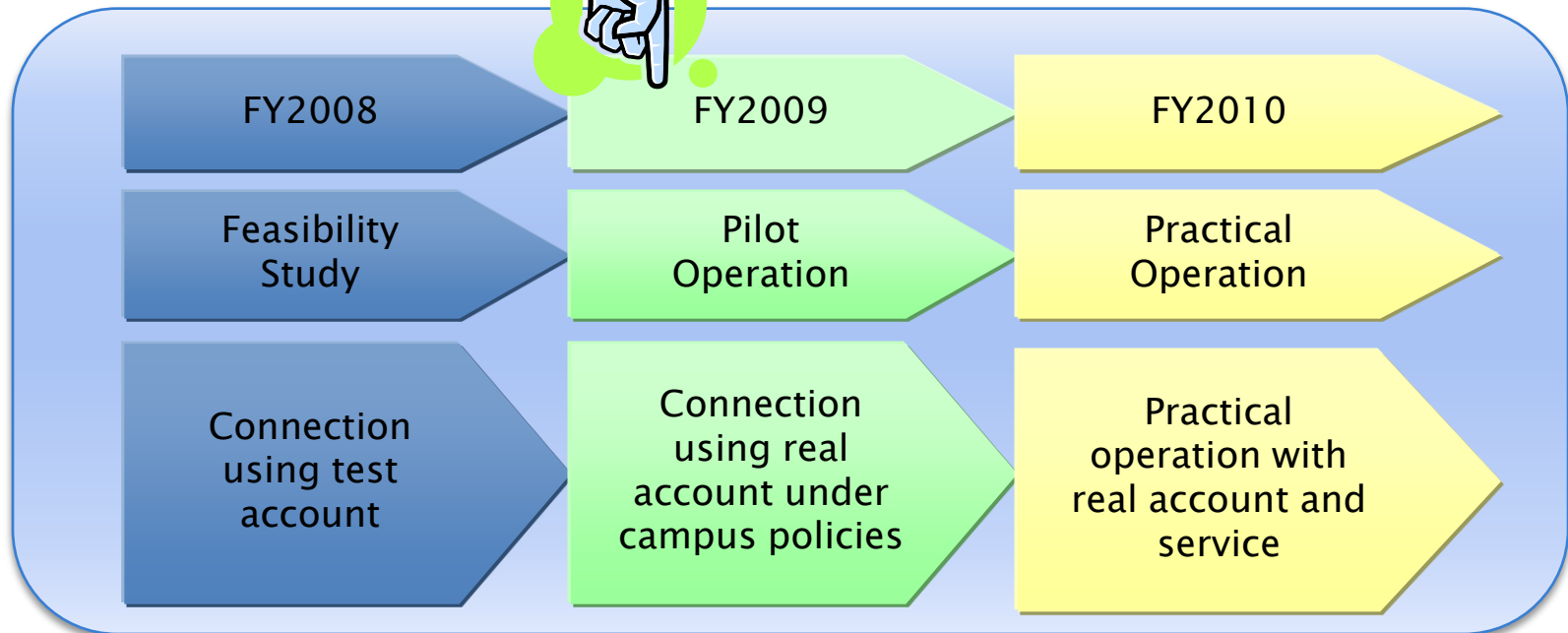
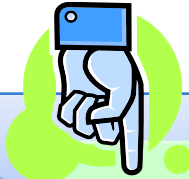
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# 2009 Pilot Operation

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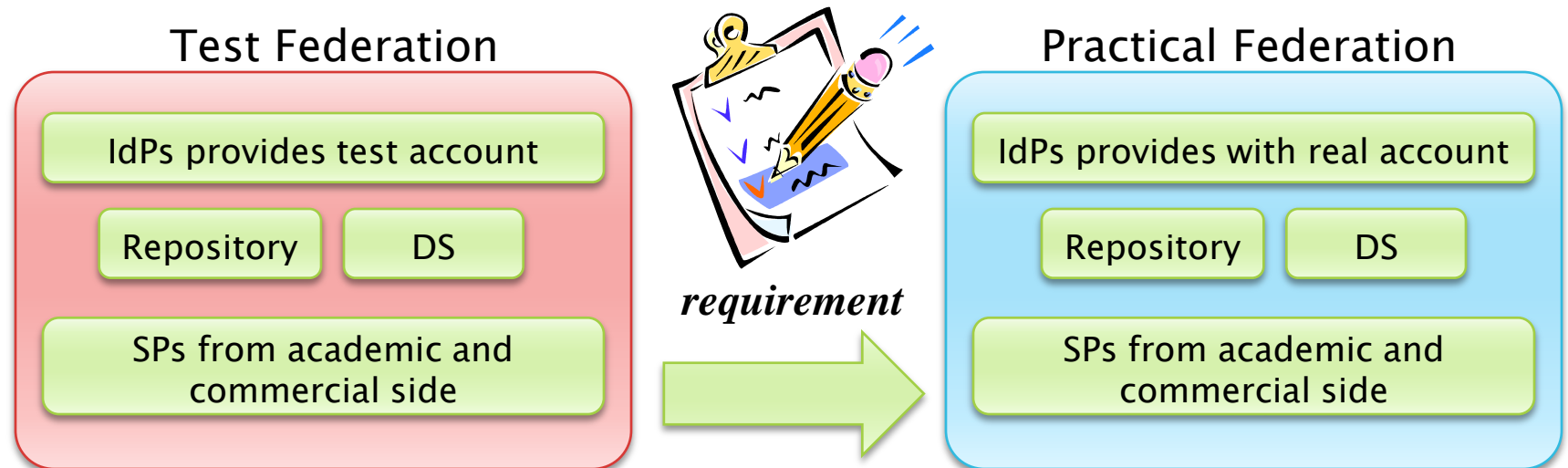
**We are HERE**



# 2009 Pilot Operation: What we do

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- ▶ Documents
  - ▶ Federation Policy, System Specification
- ▶ Event and Training
  - ▶ IdP and SP implementation
  - ▶ Discussion among IT people and Librarians
- ▶ Recruiting
  - ▶ IdP: University, College
  - ▶ SP: Major Publishers, Domestic Services





# 2009 Pilot Operation: 16 Attributes

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## *Name*

[mail](#)

[sn](#)

[o](#)

[ou](#)

[givenName](#)

[displayName](#)

## *OIDs*

0.9.2342.19200300.100.1.3

2.5.4.4

2.5.4.10

2.5.4.11

2.5.4.42

2.16.840.1.113730.3.1.241

## *Name*

[eduPersonAffiliation](#)

[eduPersonPrincipalName](#)

[eduPersonEntitlement](#)

[eduPersonScopedAffiliation](#)

[eduPersonTargetedID](#)

## *eduPerson OIDs*

1.3.6.1.4.1.5923.1.1.1.1

1.3.6.1.4.1.5923.1.1.1.6

1.3.6.1.4.1.5923.1.1.1.7

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1.3.6.1.4.1.5923.1.1.1.10

## *Name*

[jasn](#)

[jaGivenName](#)

[jaDisplayName](#)

[jao](#)

[jaou](#)

## *UPKI-Fed OIDs*

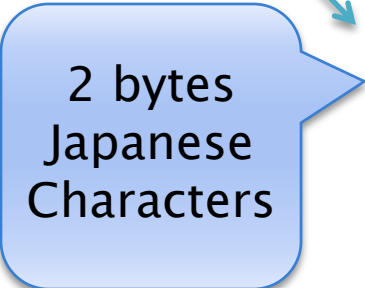
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1.3.6.1.4.1.32264.1.1.4

1.3.6.1.4.1.32264.1.1.5



2 bytes  
Japanese  
Characters



# 2009 Pilot Operation: Communicating with Major SPs

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- ▶ Practical Federation
  - ▶ Elsevier: Science Direct and SCOPUS
- ▶ Test Federation (connecting test)
  - ▶ Refworks
  - ▶ Thomson      Web of Knowledge and EndNote Web
  - ▶ Springer      SpringerLink
  - ▶ LWW/Ovid      OvidSP
  - ▶ NII              CiNii
  - ▶ ...

## *Difficulties*

Need to ask to modify the SP setup which is practically operating

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# 2009 Pilot Operation: Communicating with IdPs and Domestic SPs

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## ▶ IdPs

- ▶ Benefit to University Manager, IT section and Libraries
  - ▶ Especially, setup round table for IT people and Librarians
- ▶ Understanding (do NOT hesitate) to release personal information
- ▶ From test IdP to practical IdP
  - ▶ Facilitate “consensus building effort” among the institution

## ▶ Domestic SPs

- ▶ IdP first? or SP first? The chicken and the egg



### *So far*

1. Obtain number of test IdPs in feasibility study
2. Communicate with major overseas SPs

### *Future*

3. Facilitate to operate practical IdPs
4. Recruits domestic SPs



*Produce Positive Feedback*

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# Move a Topic

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## Federation

- ▶ 2008 Feasibility Study
- ▶ 2009 Pilot Operation
  - ▶ Documents
  - ▶ Event and Training
  - ▶ Recruiting

## Example of Extended Application (*Informatics Square*)

- ▶ Usual: Simple IdP and SP communication
- ▶ Extended: Institutional IdP and VO IdP communication
  - ▶ VO (academic society) IdP  $\rightleftharpoons$  Attribute Provider from the view point of Institutional IdP



# Institutional IdP and VO IdP: Concept of Informatics Square

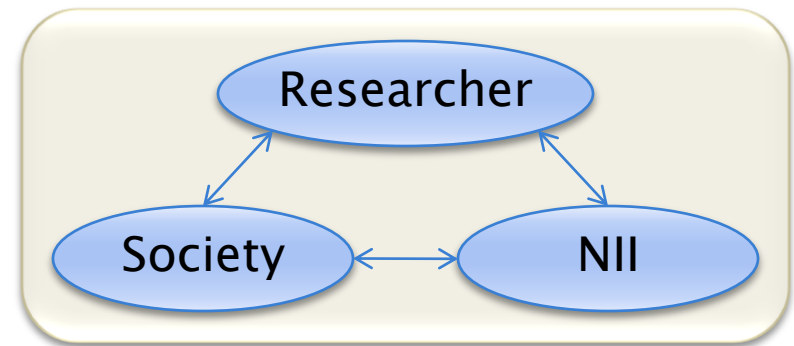
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## ▶ What (contents)

- ▶ Electronic journals published by Japanese academic societies for informatics.
- ▶ Conference paper and materials published by the above societies.
- ▶ Supplemental data and/or multimedia data related to the above papers.

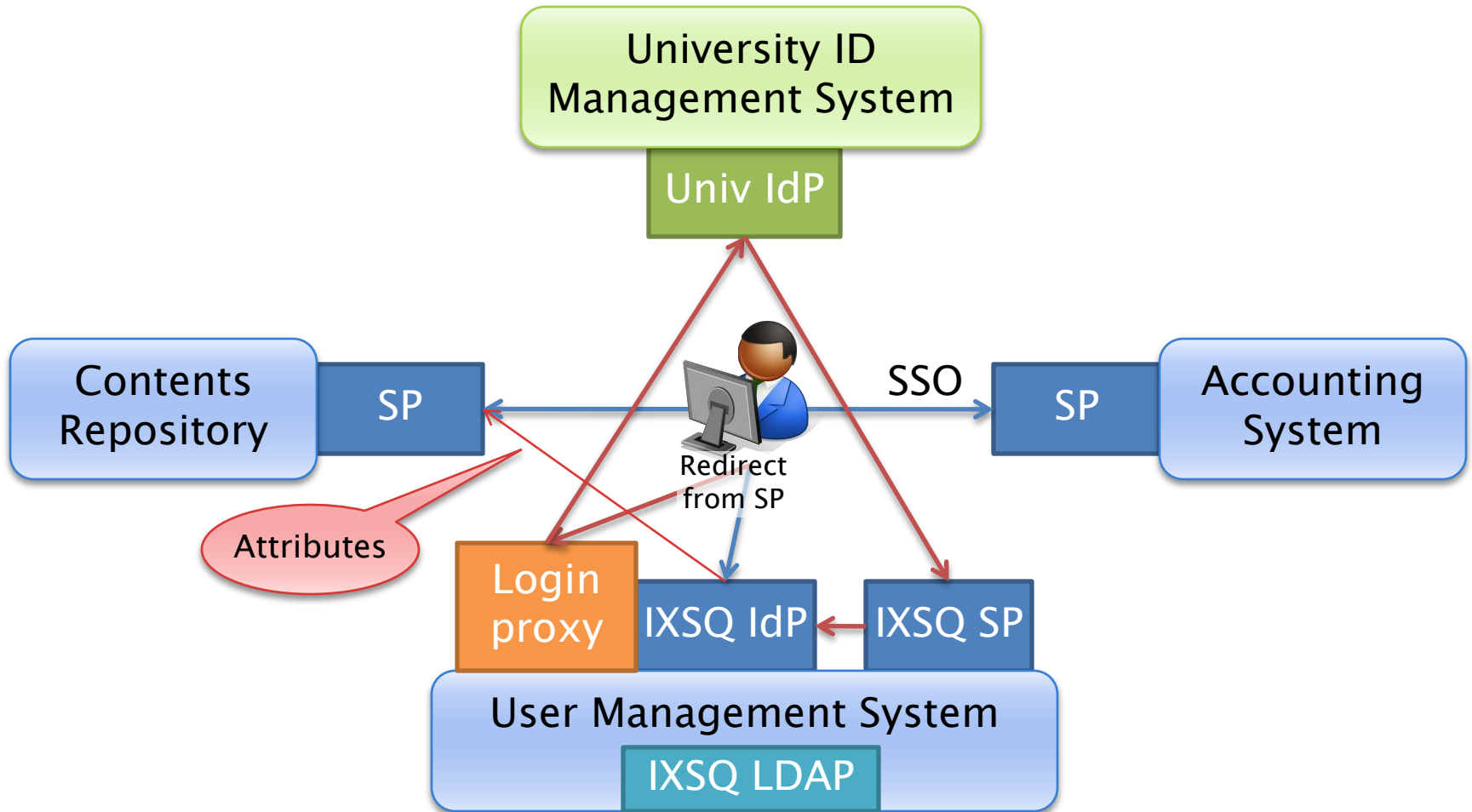
## ▶ How (contributors)

- ▶ EJ -> Academic Societies
- ▶ Supplemental Data -> Researchers
- ▶ Shibbolized System (Repository, UMS, Accounting) -> NII



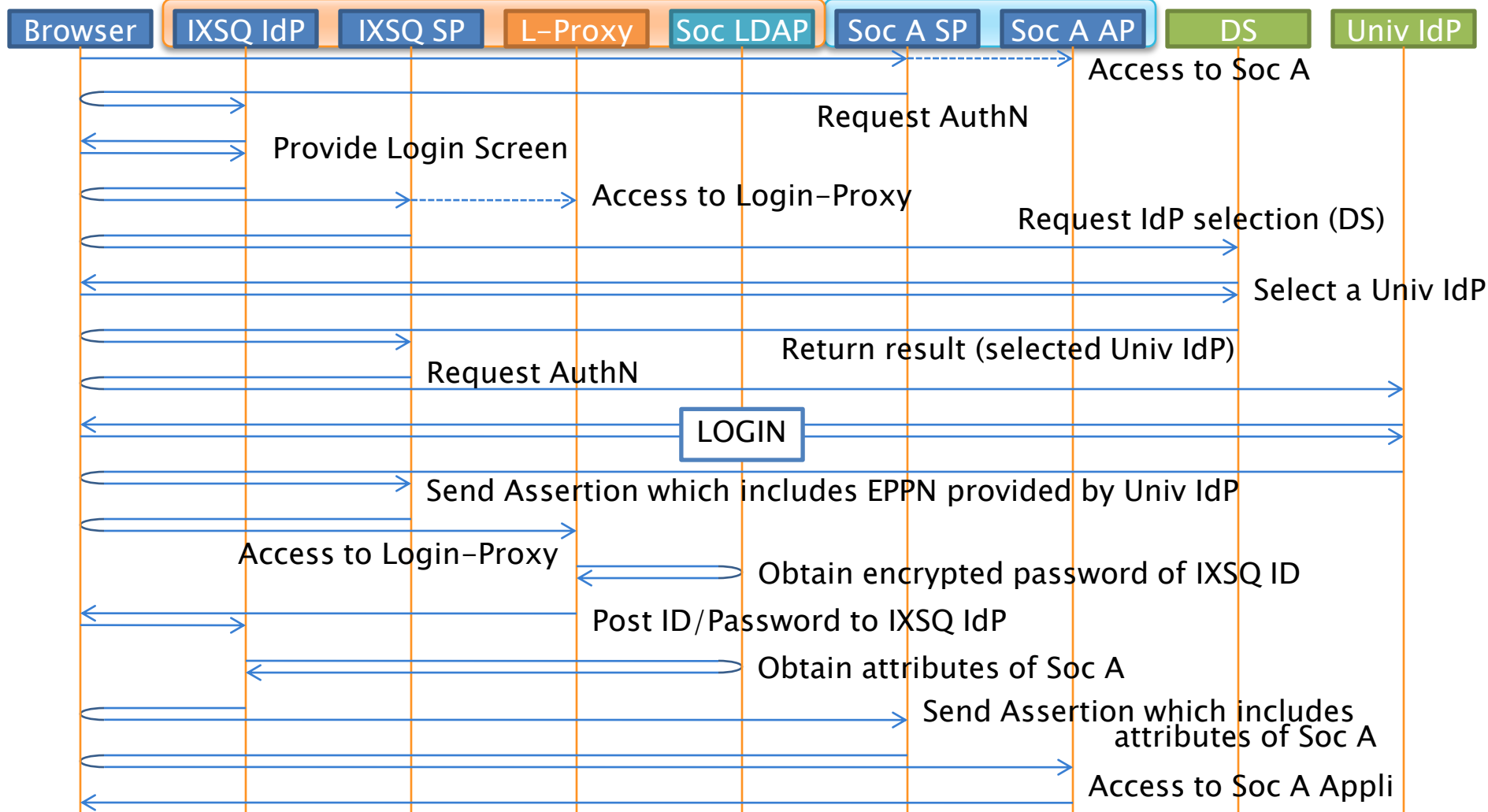
# Institutional IdP and VO IdP: Schematic System Architecture

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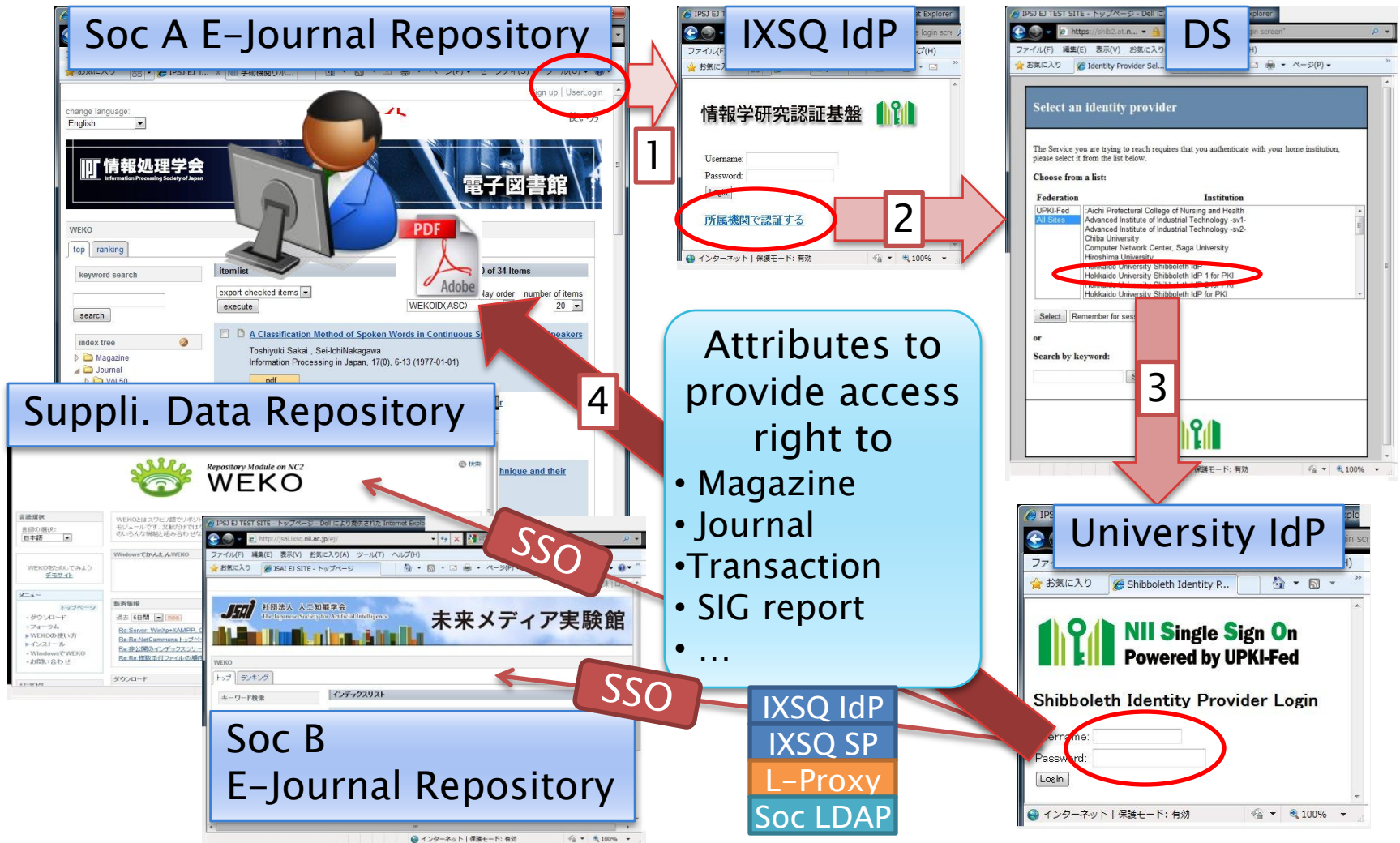


# Institutional IdP and VO IdP: Sequence Diagram

Example: Login to Society A application by using university IdP



# Institutional IdP and VO IdP: Screen Images





# Conclusions

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## ▶ Federation in Pilot Operation

### ▶ Deployment of IdP and SP

- ▶ Case study
- ▶ Strategies
- ▶ Event Training



*Produce many more IdPs*

### ▶ Policy and Technical Guideline

### ▶ Organization of Federation



### ▶ Inter-federation with ...possibly^^)

## ▶ Advanced Application

