Federated Identity for Ohio

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Today's Presentation

- Vision and goals
- Benefits of Federated Identity
- How it works
- InCommon
- Federated Identity Roadmap
- Conclusion

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Strategic Plan for Higher Education

"The Board of Regents will create a single, integrated technology infrastructure to provide...

A federated system of authentication that makes it possible for students and faculty to access resources at multiple campuses through a single account."

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What is Federated Identity?

Your academic login becomes a

single – trusted – online – passport

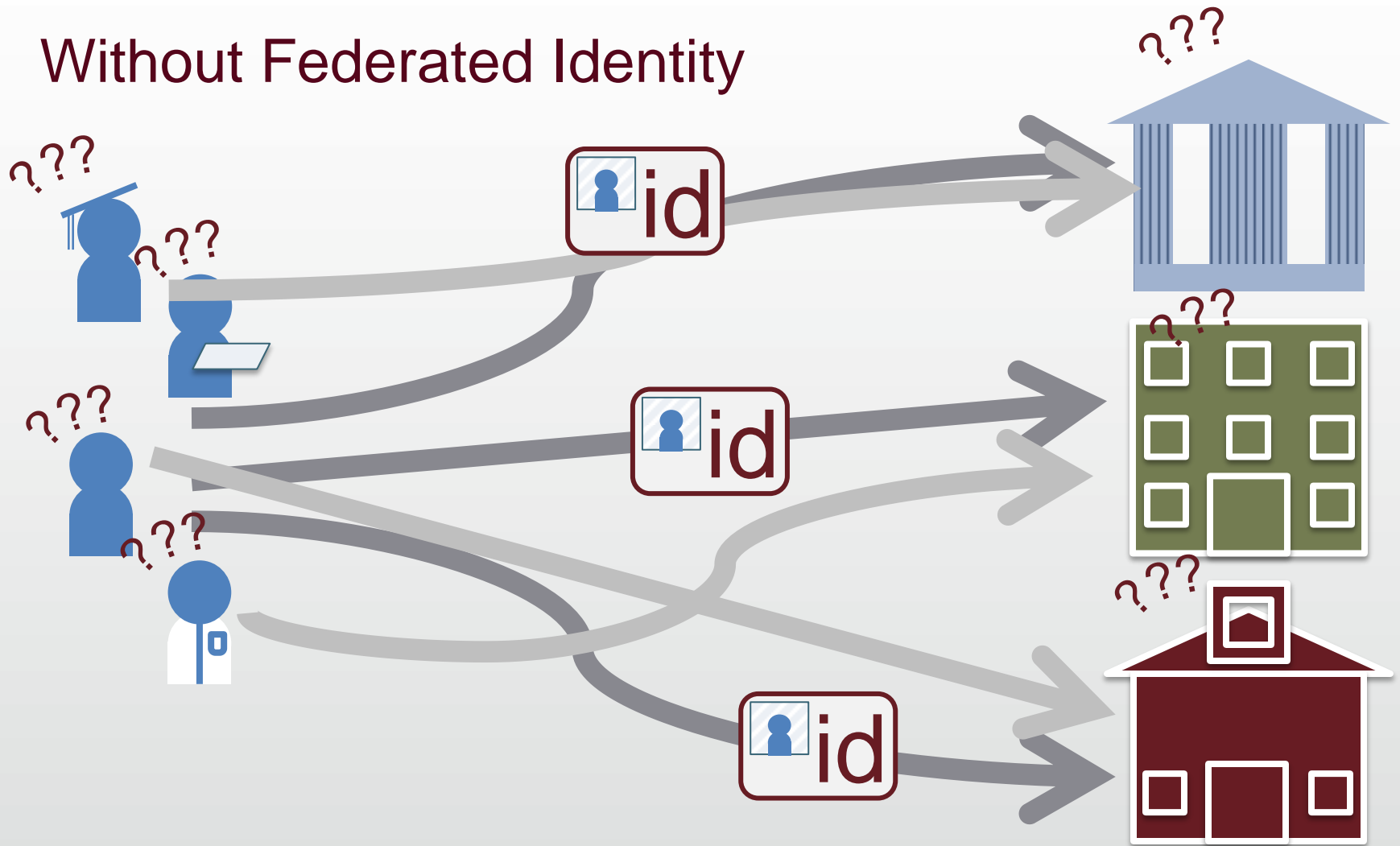*to education, research, and collaboration*

opportunities throughout Ohio.

What does it mean to **you**?

✓ *single ID, not multiple logins*

✓ *trusted to protect privacy & security*

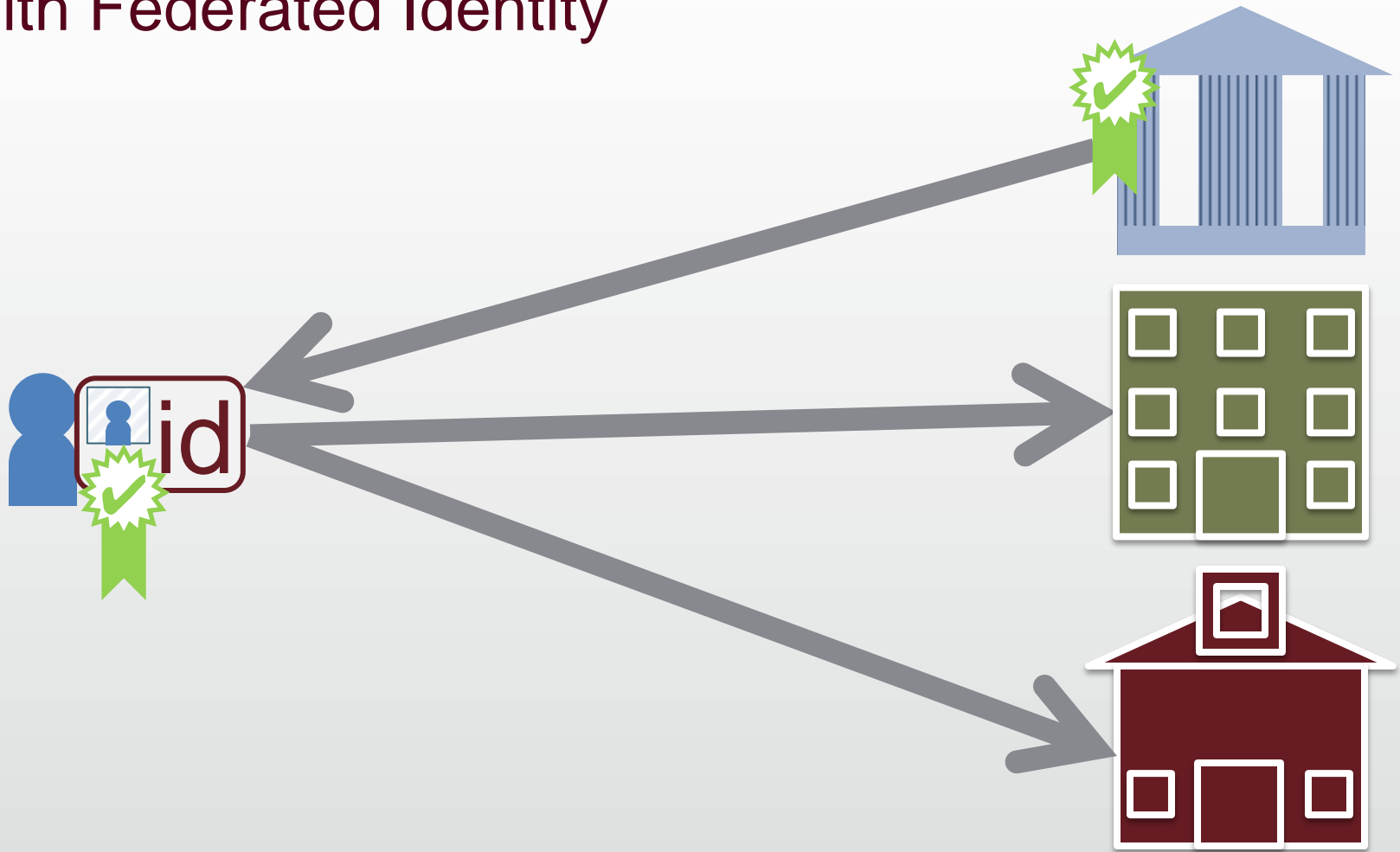✓ *online academic opportunities*

✓ *passport accepted everywhere*

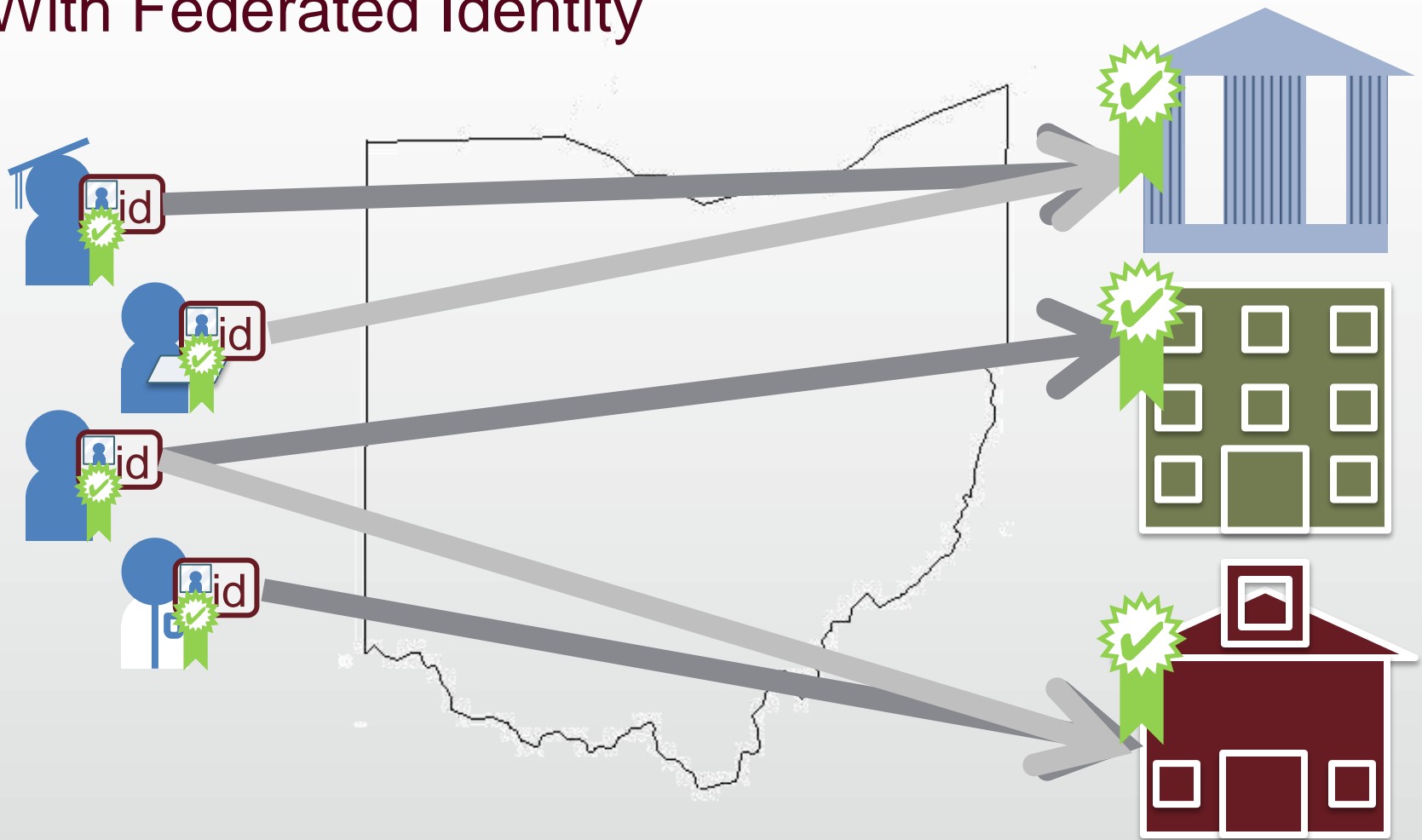Ohio | OARnet

Without Federated Identity
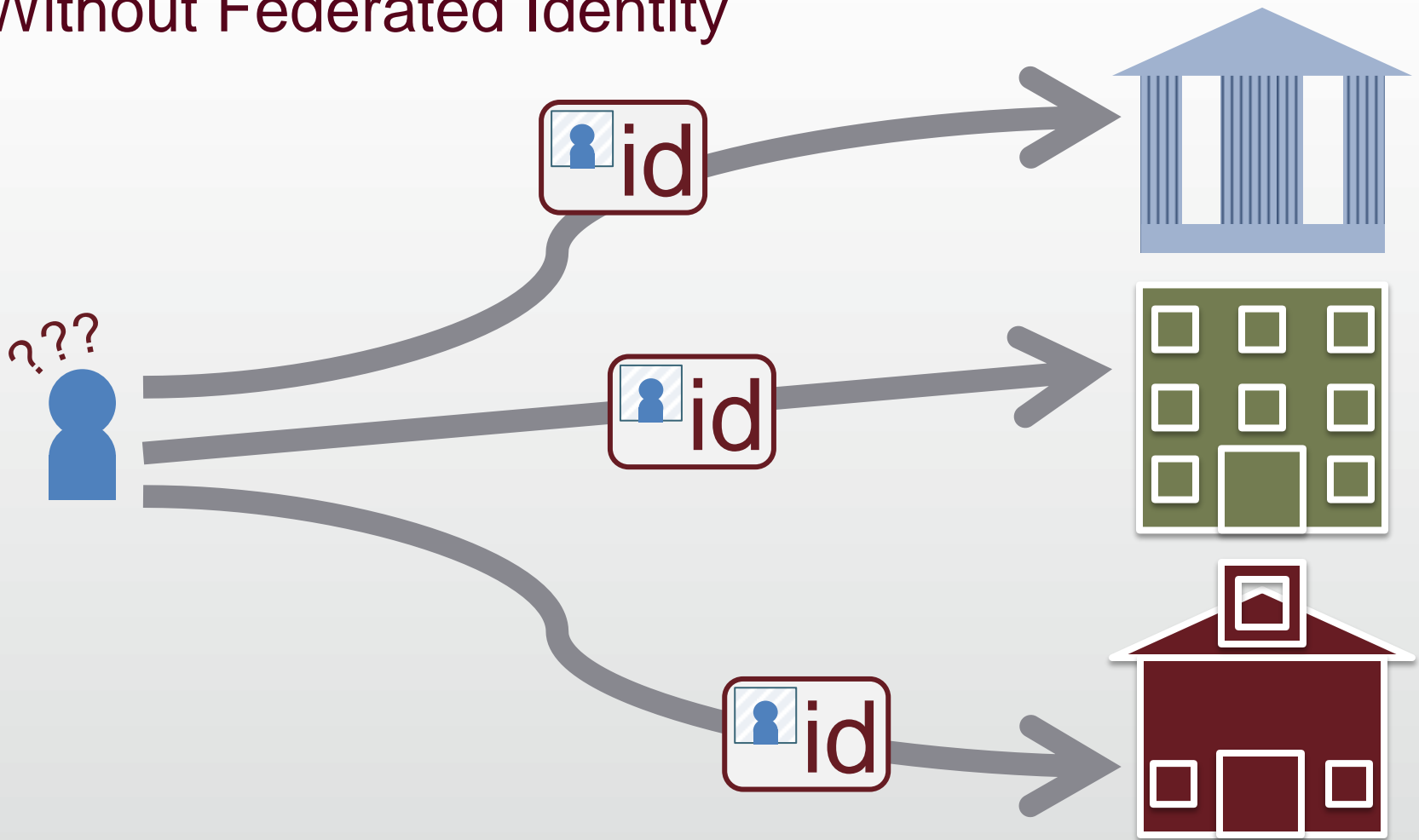
Without Federated Identity

With Federated Identity

With Federated Identity

What problems are we trying to solve?

- Multiple logins, multiple passwords
- Lack of access to applications and services
- Privacy breaches
- Lack of trust in identity and privacy claims
- Disconnected silos of information
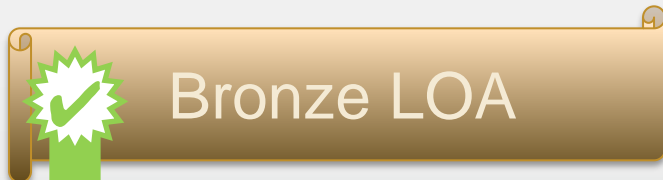- Duplicated effort and expense

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Benefits

- Single ID for a single user
- Standard way to access applications and services
- Less opportunity to breach identity data
- Individual control of identity and trust
- Connected fabric of services
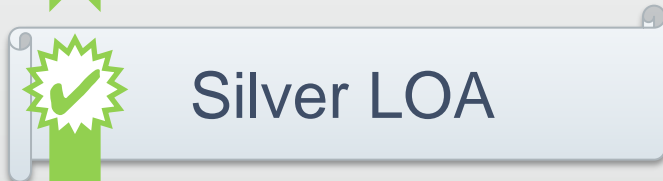- Reduce duplication, support costs

How it works - 1

- Federation operator defines _Levels of Assurance_
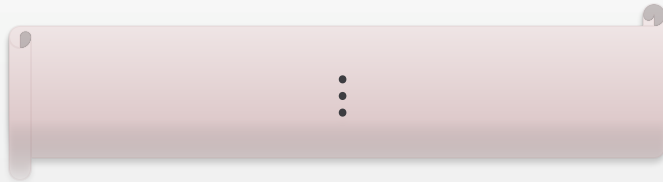
⋮ (No assurance)

Bronze LOA   + Legal authority
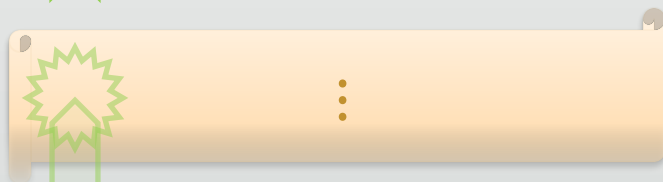   + Audit

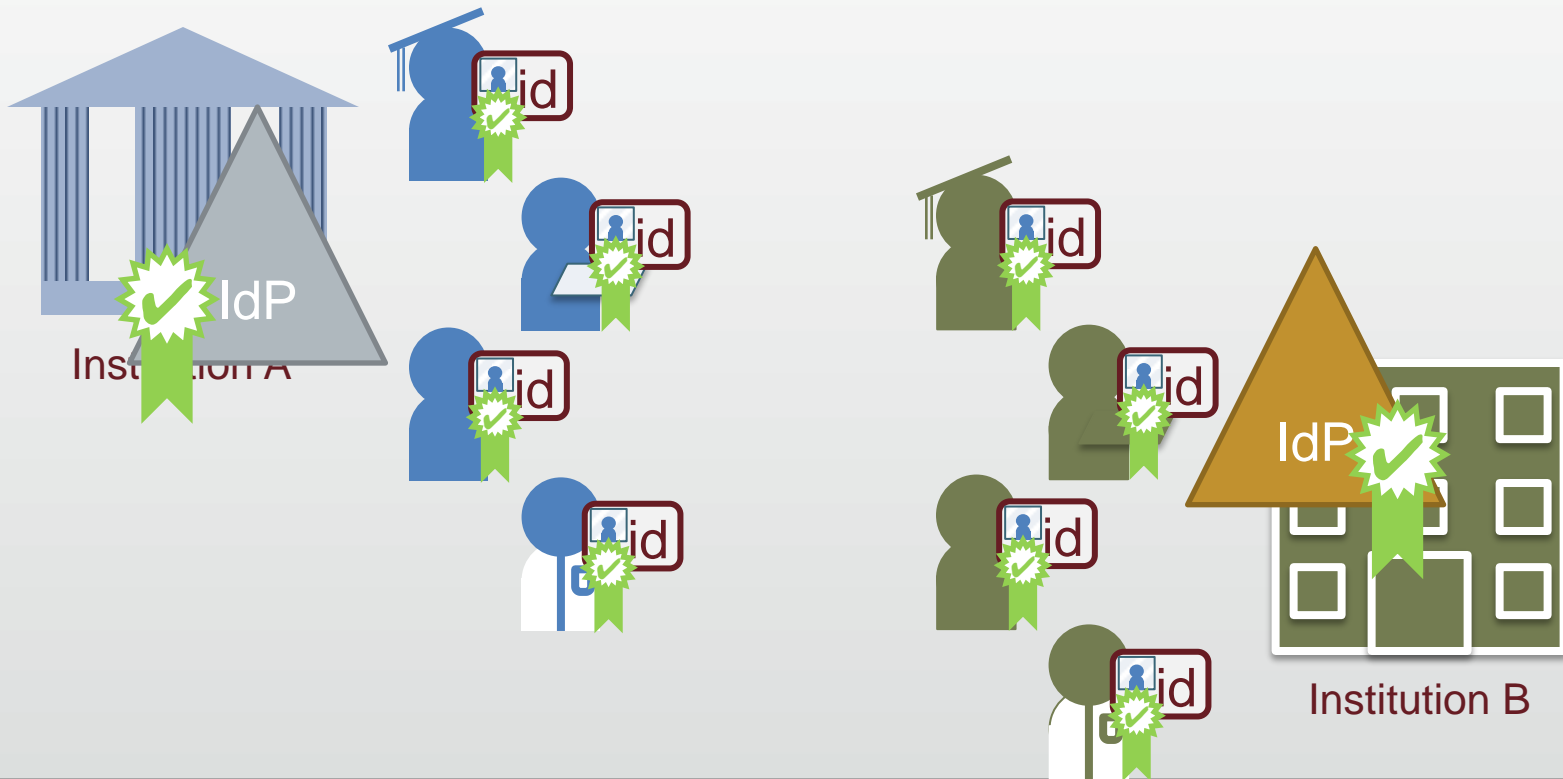Silver LOA   + Identity proofing
                   + Credential management

⋮   ⋮
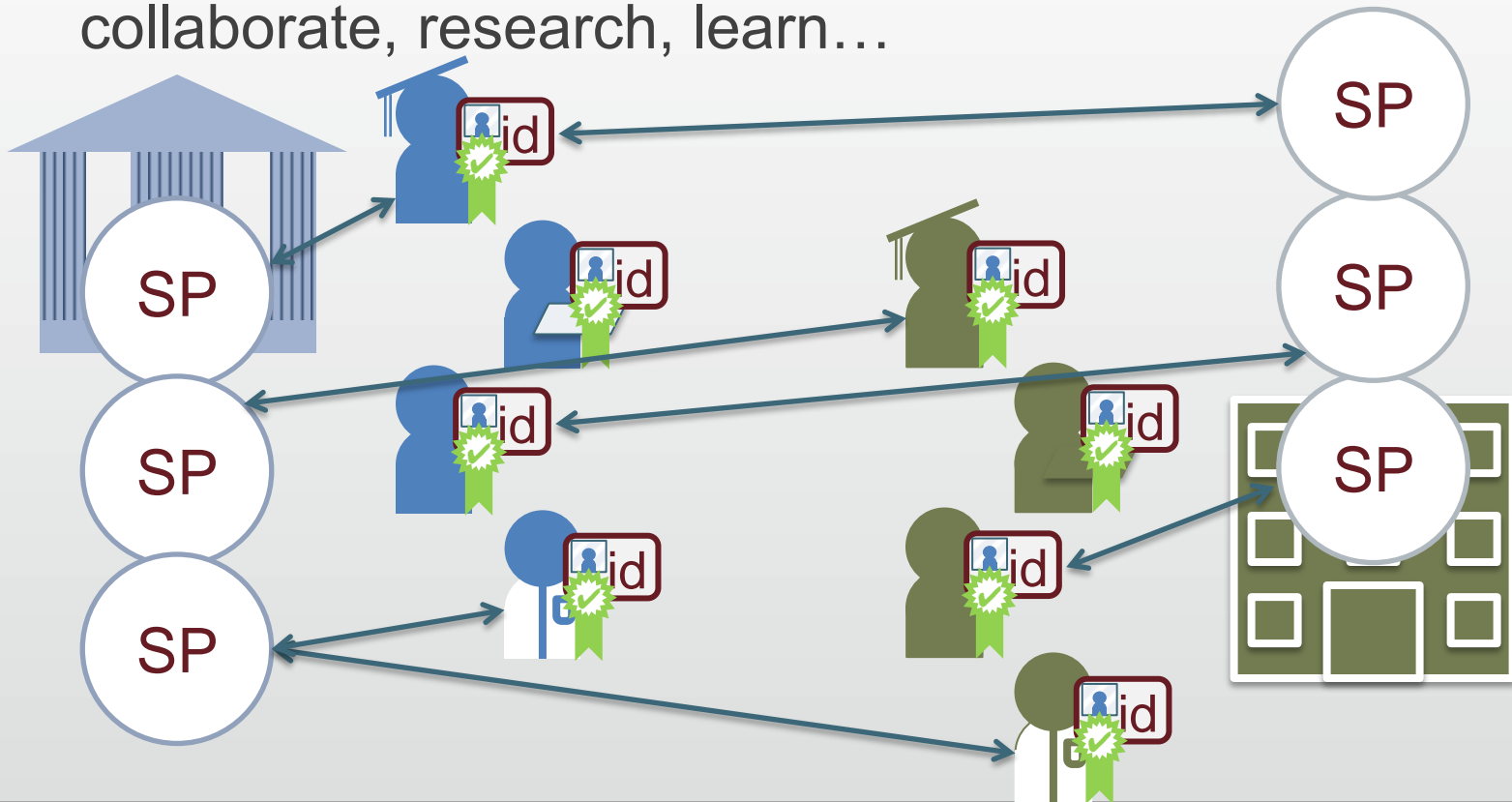
How it works - 2

- *Identity Providers* manage IDs for community members

How it works - 3

- Community members use *Service Providers* to collaborate, research, learn…

InCommon

- IdP and SP software
  - Shibboleth
  - SAML-based
  - Web Single Sign-On
- LOA standards
  - Bronze
  - Silver
- Certificates
- Discovery service

http://www.incommonfederation.org/

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Roadmap to Federated Identity

I.   Planning and Outreach

II. Building Blocks of Federation

III. Working Federation Framework

IV. Value-Added Service

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Roadmap to Federated Identity I

- Planning and Outreach
  - Discovery and education
    - Surveys, interactive roundtables, conferences and meetings, web resources
  - Gap analysis
    - Gauge readiness and rework if necessary
  - Planning
    - Technology; Service; Governance; Policy

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Roadmap to Federated Identity II

- Building Blocks of Federation
  - Proof of Concept
    - Integration with OLN Student Portal
  - Technology
    - Training
    - Implementation
  - Service definition
    - Certificates, Assurance Levels, Attributes
    - Integration w/Identity and Service Providers
  - Business and policy development
    - Value proposition
    - Federation structure, foundation, operations

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Roadmap to Federated Identity III

- Working Federation Framework
  - Service definition complete
  - Service implementation repeatable
  - Ready to bring on new members
    - Identity Providers
    - Service Providers
    - Users

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Roadmap to Federated Identity: IV

- Value-added Service offering
  (Revenue based)
  - Working Federation framework extends benefits of Federation to all USO colleges and universities
  - In daily use by students, educators, researchers
  - Pathway to future
    - New services
    - Private schools, Ohio K-12, public research and heath
  - Model for nation and world

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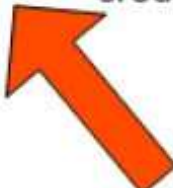
Questions?

1. I'd like to access your site

6. Sure, Mike, here you go

User

3. I need your credentials

4. Okay, here they are

2. Do you know Mike? And is he a student?

5. Yes I do. And yes he is.

Service Provider

Identity Provider