

2023 INTERNET2  
**TECHNOLOGY**  
exchange

Get to Know the InCommon Catalysts



Presented By:  
InCommon Catalyst Partners

# InCommon Catalyst Program Overview

- **InCommon Catalysts are Internet2 industry members knowledgeable about the InCommon Federation and Trusted Access Platform. Individually and collectively, they:**
  - Understand the specific challenges and requirements of research and education.
  - Give back in the form of case studies, contributed code, and other services.
- **While this community-driven program was “officially” branded and launched in 2021...**
  - Several of our 11 Catalyst members have been involved with InCommon for much longer!
  - Before becoming a Catalyst, an organization must spend at least a year getting to know the community’s needs.
- **Catalysts actively participate in InCommon’s conferences, training programs, and working groups.**



# InCommon Catalyst Program Benefits

- **Provides IAM Expertise and Hosted Solutions When You Need It**
  - Trusted Subject Matter Experts who can assist you with your design, implementation and support needs
- **Ensures your chosen solution aligns with InCommon community standards, software and services**
  - Integrated relationships with the community through participation in working groups, coordination bodies, and other InCommon programs
- **Provides peace of mind**
  - Relationships with and know the community and have good customer reviews. Working with a Catalyst means you made a good choice.



# Catalyst Partners



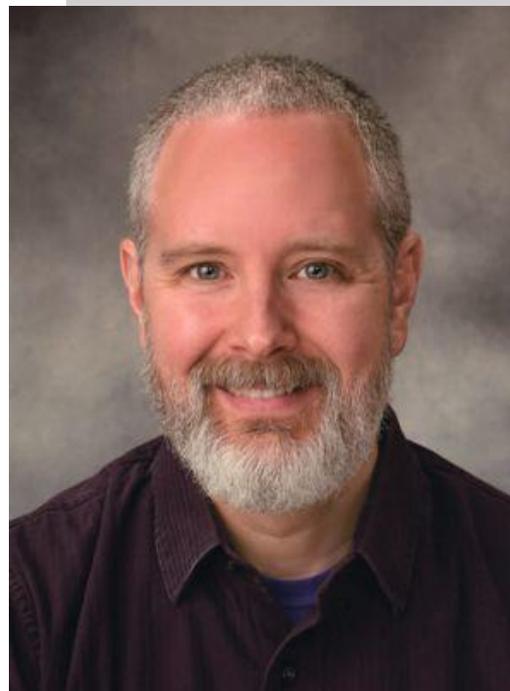
...Eleven (and counting)



***CILogon***

## **Terry Fleury**

Lead Research Programmer  
University of Illinois / NCSA



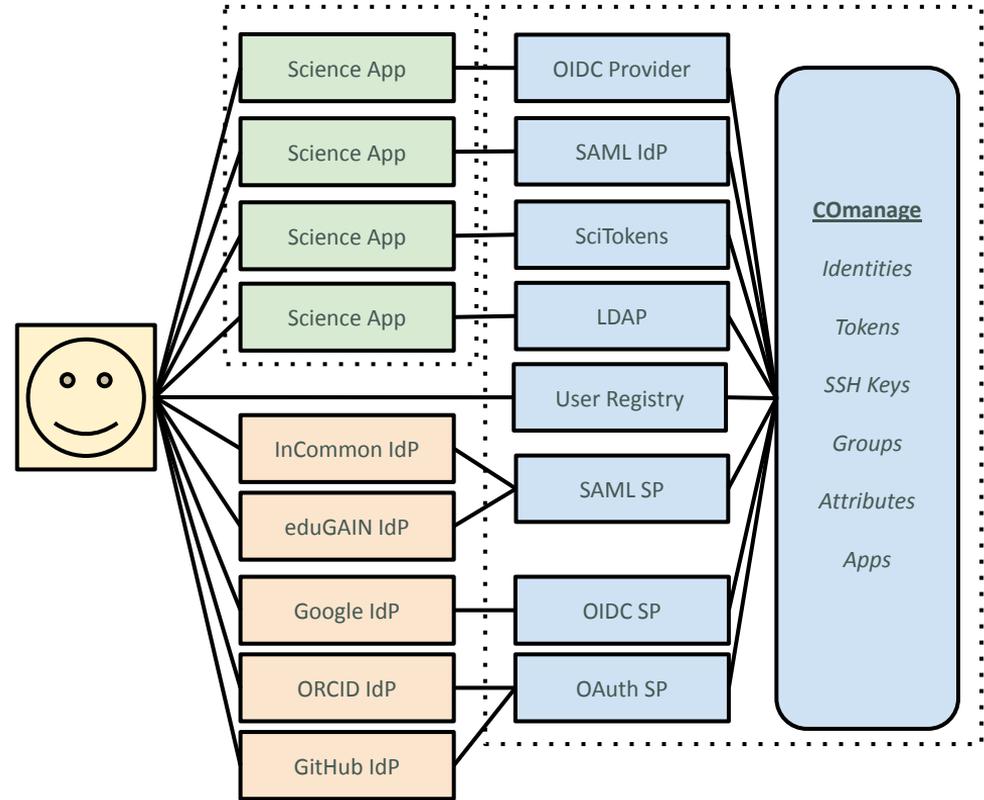
# CILogon

- Software-as-a-Service IAM platform for research collaborations
- Non-profit subscription service from the University of Illinois (NCSA)
- Hosted Collaboration Management (COmanage Registry), OIDC/SAML Proxy (SATOSA), and Directory (OpenLDAP)
- InCommon REFEDS Research and Scholarship (R&S) service provider
- Implementing the AARC BPA with InCommon TAP components
- JWT support including SciTokens, WLCG Tokens, and GA4GH Passports

Visit <https://www.cilogon.org/subscribe> for details

Supports access to science applications on HPC clusters, in Jupyter notebooks, using Globus, via REST APIs, and many other interfaces

Uses existing identity providers from the researcher's home organization (SAML/ADFS) or external sources (Google, GitHub, ORCID, Microsoft)



[www.cilogon.org](http://www.cilogon.org)



**cirrus** identity

## **Dedra Chamberlin**

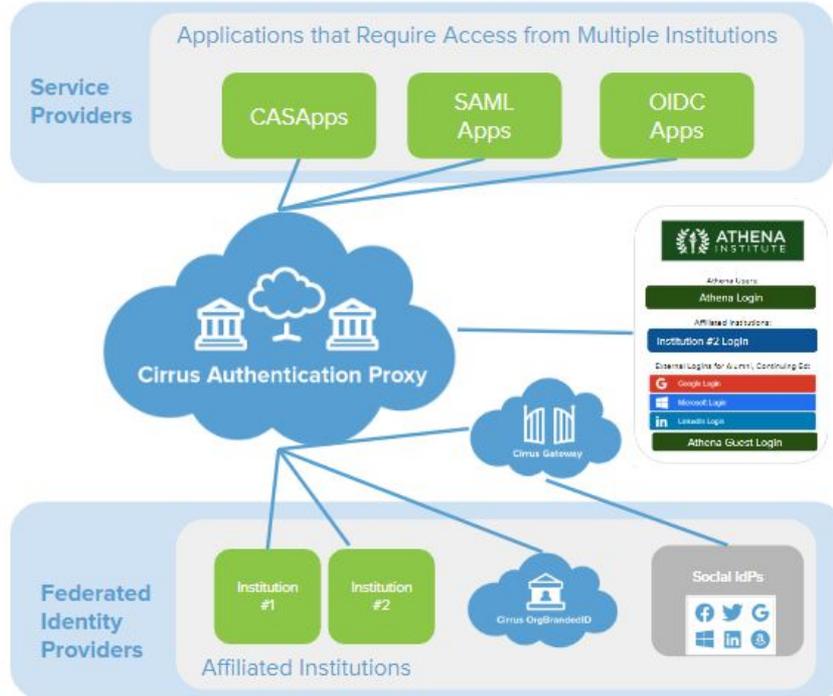
CEO  
Cirrus Identity



# Federation without Frustration

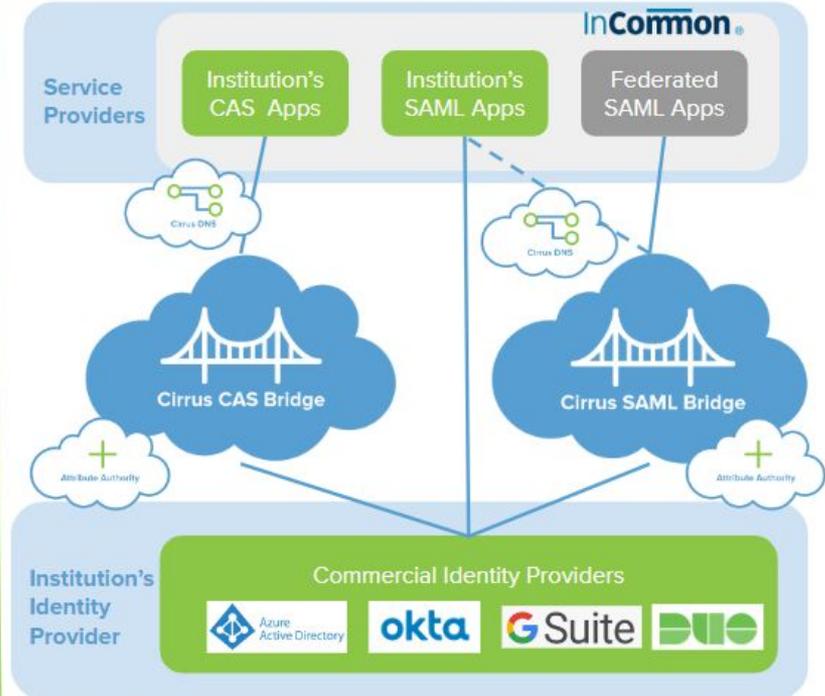
## Cirrus Proxy for Service Providers

- Add your Research Service to InCommon and easily integrate with 100s of Identity Providers. Brand the login discovery screen for your service
- Also supports Cirrus Account Linking and External Login solutions



## Cirrus Bridge for Identity Providers

- Easily integrates commercial Identity Providers (Azure AD, Okta, Google or LDAP) with InCommon/eduGAIN
- Supports conditional access, REFEDS R&S and MFA AuthN context



Contact [sales@cirrusidentity.com](mailto:sales@cirrusidentity.com) to learn more!

©Cirrus Identity, Inc.

# Cirrus Announcements!



**Cirrus New Release:** The Attribute Authority for Bridge & Proxy is great when all your authentication attributes are not in your primary Identity Provider!



**Cirrus New Release:** The SIEM Connector Beta is rolling out! Logs are moved real-time to your institution's SIEM tool.

**Also:** Microsoft has published new Azure AD documentation outlining the challenges, baseline design and solutions for multilateral federation and CAS protocol support that highlights the [Cirrus Bridge as the first solution!](#)

Come to the Catalyst Booth or mail [sales@cirrusidentity.com](mailto:sales@cirrusidentity.com) to learn more about Cirrus Identity solutions!



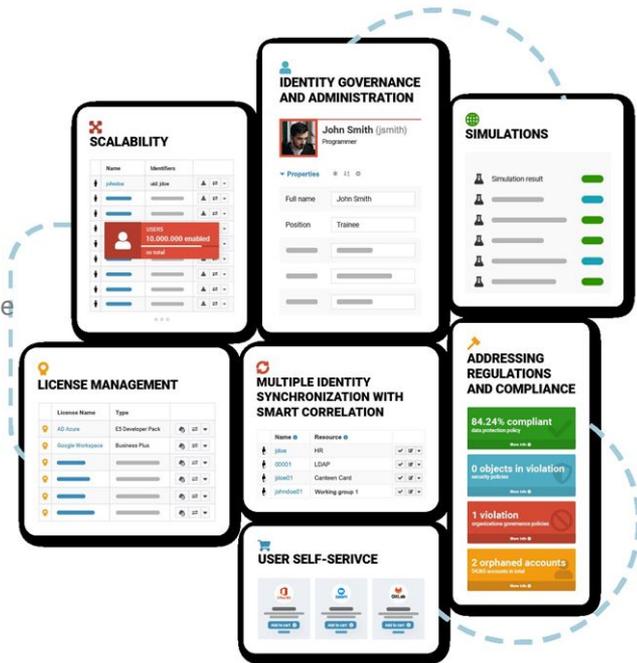
## Slavek Licehammer

Global Identity Leader for Academia  
Evolveum



# The Creator of midPoint

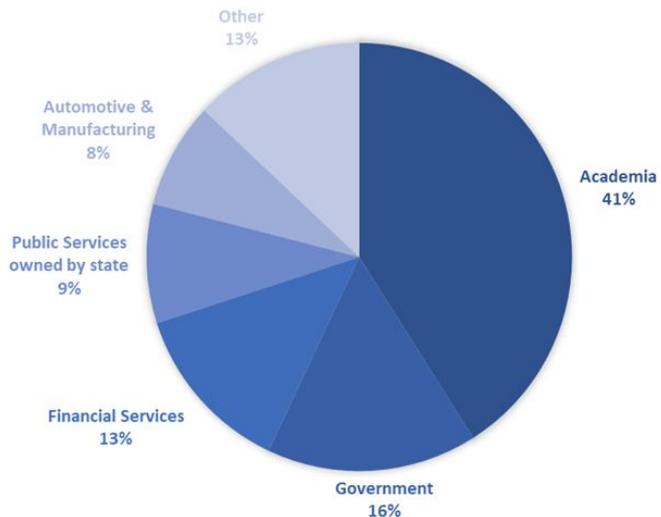
- ▶ [Professional open source](#) since 2011
- ▶ Team of full-time developers
- ▶ Product development and maintenance
- ▶ USD 1.854M revenue in 2022
- ▶ [Partners](#) in 45+ countries



- ▶ [2 releases](#) per year
- ▶ Leading open source [IGA platform](#)
- ▶ Recognized by [Gartner](#) as a complete IGA suite.
- ▶ [Simulations](#)
- ▶ Full identity lifecycle management

# Evolveum's Cooperation with Academia

- > Adopted at [number of universities](#)
- > [CIO Document](#)
- > [List of connectors](#)
- > InCommon [Working Group](#) and [webinars](#)
- > [Academic Subscription](#)



Graph data from 2022



## Scott Weyandt

Vice President, Information Security  
Moran Technology Consulting

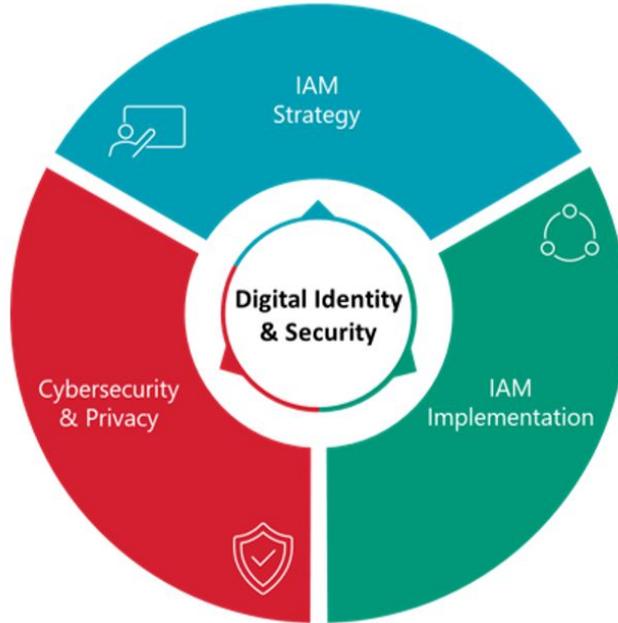


# Moran Technology Consulting - Our Expertise

Provide expert **management consulting and technology consulting** services to colleges, universities, and university healthcare

## Cybersecurity & Privacy

Build tailored IT Security & Compliance Programs to ably handle the most pressing institutional risks in research and higher education



## IAM Strategy

Develop human-centered IAM Programs capable of delivering continuous improvement and transforming the digital campus

## IAM Implementation

Deliver IAM technical solutions designed to address the most strategic goals and significant challenges of higher education



# Moran Technology Consulting - IAM Assessment Framework

Who are you?	What do you get?	Is that really you?
<ul style="list-style-type: none"> <li>Data Aggregation</li> <li>ID Matching</li> <li>Unique ID Assignment</li> <li>Affiliations/Roles</li> <li>Data Management/Hygiene</li> </ul>	<ul style="list-style-type: none"> <li>Entitlements</li> <li>RBAC</li> <li>ABAC</li> <li>Group Management</li> <li>Request/Approval</li> <li>(re)Certification</li> </ul>	<ul style="list-style-type: none"> <li>Single Sign On</li> <li>Federation</li> <li>Social Login</li> <li>ID Proofing/LOA</li> <li>MFA</li> </ul>
Identity Management	Access Governance	Authentication & Assurance

The MTC IAM Assessment Framework is aligned to international standards:

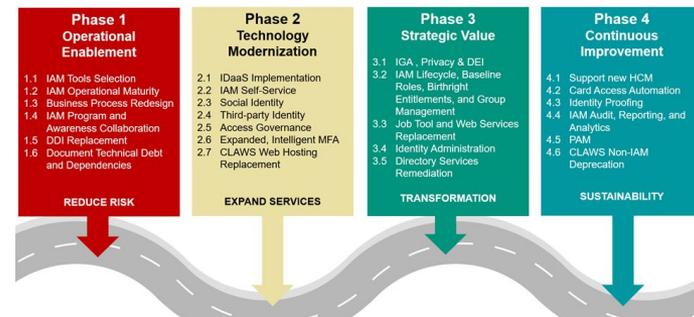
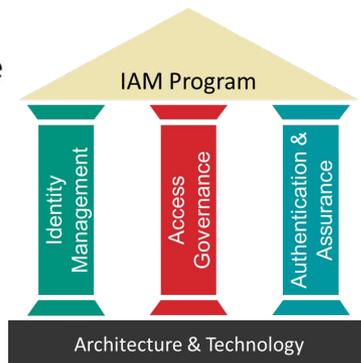
- ISO/IEC 24760 – A Framework for Identity Management
- ISO/IEC 29146 – A Framework for Access Management
- ISO/IEC 29115 – Entity Authentication & Assurance
- NIST 800 (e.g., -53 Access Controls (AC) & Identification and Authentication (IA))

## iii The MTC IAM Strategic Plan & Roadmap:

- Aligns with institutional **strategic** goals and priorities
- Delivers **actionable** recommendations
- Provides a multi-year, multi-phased roadmap **tailored** to your institution's goals, needs, and capacity to execute

iii The **IAM Assessment Tool** organizes our discovery, findings, and recommendations into these five categories:

1. IAM Program
2. Identity Management
3. Access Governance
4. Authentication & Assurance
5. Architecture & Technology





## Drew Capener

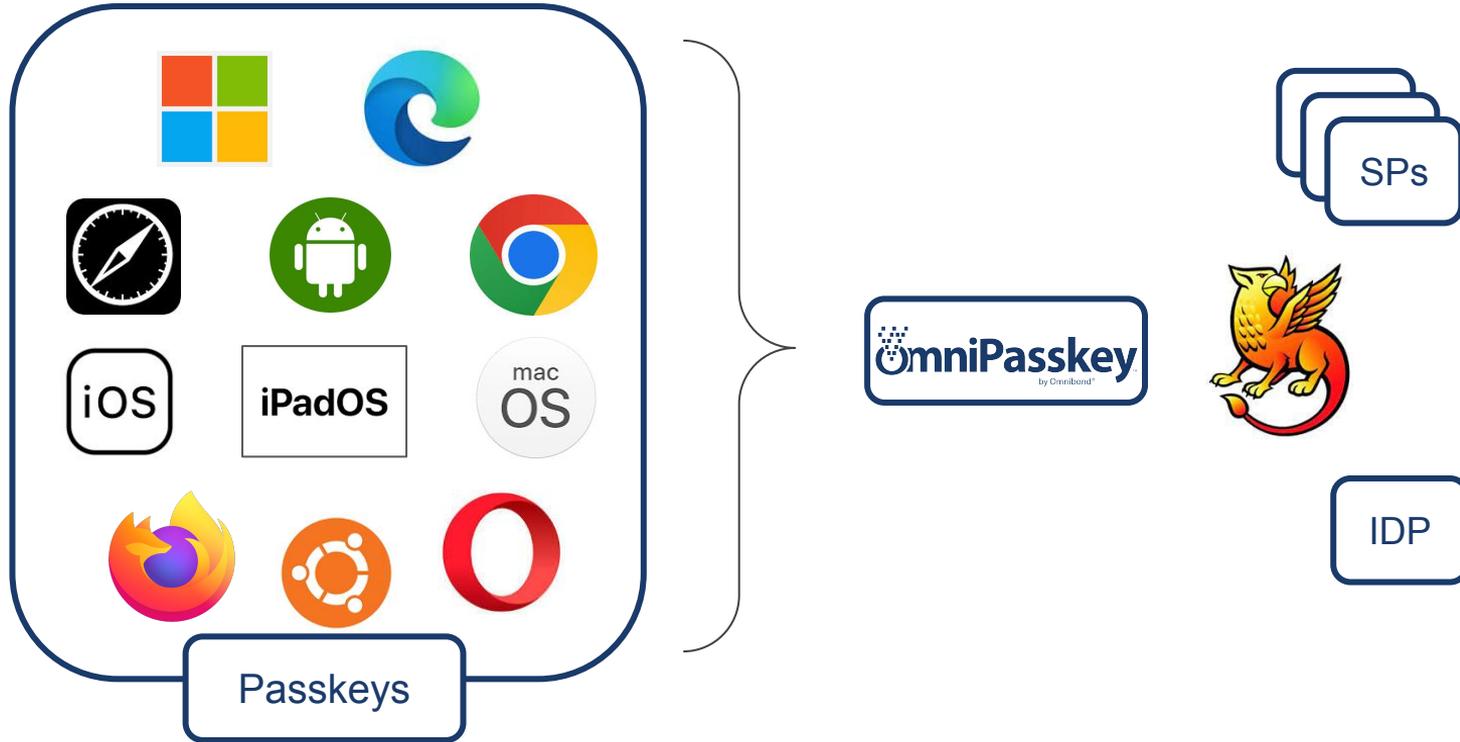
Software Engineer, OmniPasskey  
Omnibond



# Omnibond

- **Customer-focused software engineering and support**
- **Three industries**
  - IAM and Security
  - Computer Vision
  - Cloud HPC
- **Rooted in research and education**
  - Leadership team includes technical, project, and executive veterans from Clemson, Purdue, Miami, and NCSA
  - Founded ACI-REF and CaRCC
  - Over three decades of funded projects from NSF, DoD, DoE, NSA, NIST and DARPA
  -  Presidential Fellow & CSTAAC Committee Members

# OmniPasskey- Passwordless Shib Authentication





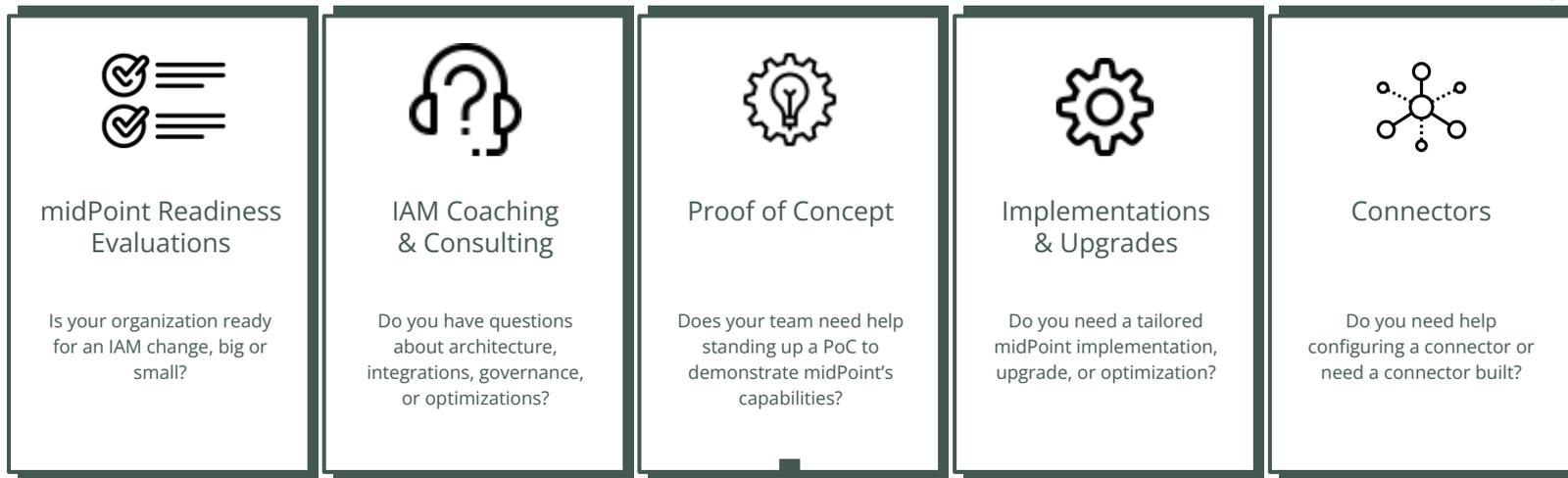
## Matt Growden

Executive Director of Identity Services  
Provision IAM



# Provision IAM Service Offerings

Ask me about our SaaS IAM offering!



Provision IAM offers **Flexible Support Agreements** and **IAM Managed Services** to help!

We are expanding our services to the **full Trusted Access Platform (TAP) too!**

# midPoint Connectors

We support over 80 different connectors today!

Does your team need help with Connector **configurations** or do you need one built?

- We are experts in **connector** development, system integration, and midPoint orchestration.
- Click [here](#) to view our list of open-source connectors
- Check out some of the resource integrations we support that are common in **higher education**:





## Chris Whalen

President  
Research Data and  
Communication Technologies



# International Centers for Excellence in Research



Grants and Research

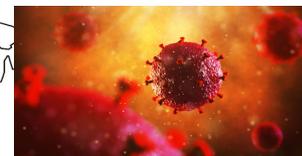
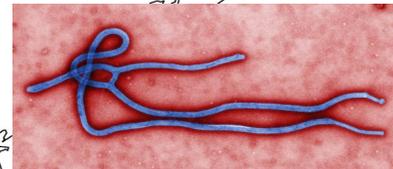
Protocol Development

Biostatistics

Sequencing

Human Data and Specimen Collection  
Data Management

Entomology specimen collection



# Tools for Collaboration

- Data Sharing
- Data Collection-clinical, laboratory, patient reported
- Data Validation
- Data Visualization
- Specimen Management
- Project Management
- Procurement Workflows
- Training

## Tools to support collaboration

- Network infrastructure
- Antimalware
- Mobile Device Mgmt.
- AWS
- Team Chat
- Data transfer

## Laura Paglione

Partner  
SCG

Same great initials.  
Brand new retronym.



<https://scgcg.com/scg-is-now-scg>



## A seasoned partner for analysis, planning, & execution

We have helped many universities, research institutions, and scholarly infrastructure providers achieve ambitious results! We help you make big plans happen.



### Identity and Access Management

Been there. Done Lots. Global experience from defining protocols to executing solutions.



### COmanage & TAP Component Expertise

We literally have written the book (and code) for COmanage Registry and Match.



### ORCID and Other Global Standards

Deep understanding of scholarship standards like ORCID, GA4GH, and others.  
Experts at web accessibility.



### Scholarly Communications

We know scholarly knowledge sharing and strive to make it more effective and efficient.



**SCG**  
collaboration group

<https://scgcg.com/scg-is-now-scg>



## COmanage Project Stewards

<https://spaces.at.internet2.edu/display/COmanage/Home>



### COmanage Registry

*Identity Enrollment & Lifecycle Management*

- Manage onboarding flows
- Identifier management/definition
- User lifecycle management
- Provision to other systems

### COmanage Match

*Inbound Record Cross-System Matching*

- Flexible rule configuration
- Matching attributes defined by you
- Use w/Registry or standalone
- A full API

**SCG**  
collaboration group

## Charise Arrowood

Executive Director, Business Development  
carrowood@unicon.net



# IDENTITY AND ACCESS MANAGEMENT

- IAM Evaluation
- Implementation
- Readiness Assessment
- Federation Gateway
- ITAP Consulting
- Upgrade, Migrations
- **New: NAVIGATE Identity**



# NAVIGATE

Enable seamless and secure access with hosted  
and managed cloud-based open source identity  
solutions

# WAYFIND

Empower Data & Analytics solutions to optimize data-informed decision-making for student success



# **CLOUD SERVICES**

Expand your cloud capabilities with artificial intelligence (AI) and machine learning (ML)



## Natalie Simonson

Director of Outreach  
West Arete

[natalie@westarete.com](mailto:natalie@westarete.com)



## COMMUNITY PARTNERSHIP

# InCommon Catalyst Partner

We have a slightly different positioning as an InCommon Catalyst. We don't help you set up or run the Trusted Access Platform itself - that's what the other Catalysts do so well.

We create or modify the other software in your institution to take advantage of your IAM and your investment in the Trusted Access Platform.



# Key Projects



## InCommon: **Federation Manager**

Led the security audit and initial modernization effort of the web application that manages the metadata for the InCommon Federation.



**Massachusetts  
Institute of  
Technology**

## MIT: **Living Wage Calculator**

Manage all the data collection, processing, calculation, design, development, and infrastructure of the de facto definition for what constitutes a living wage in the United States.



**PennState**

## Penn State: **Research Information Management**

Captured the most comprehensive picture of Penn State's research output in a single system, and published the clean metadata via an easy-to-use interface for other developers to build upon.

# Three ways to work on specialized software with us.

Guidance



Full Service

## We advise you on how to do it

We counsel your team on how you could build/modify your enterprise systems.

## We help you do it

We work alongside your team to build/modify your enterprise systems.

## We do it for you

We build/modify your enterprise systems for you, with service contracts for sustainability.

**Questions?**

