

AAF – LOOKING TOWARDS THE FUTURE

HEATH MARKS - CEO



AUSTRALIAN
ACCESS FEDERATION

WHAT IS THE AAF?



WATCH NOW

55 Production Federations in operation globally
A number of pilot Federations coming on line

AAF TODAY

AAF TODAY

100

ORGANISATIONS
connected to the AAF

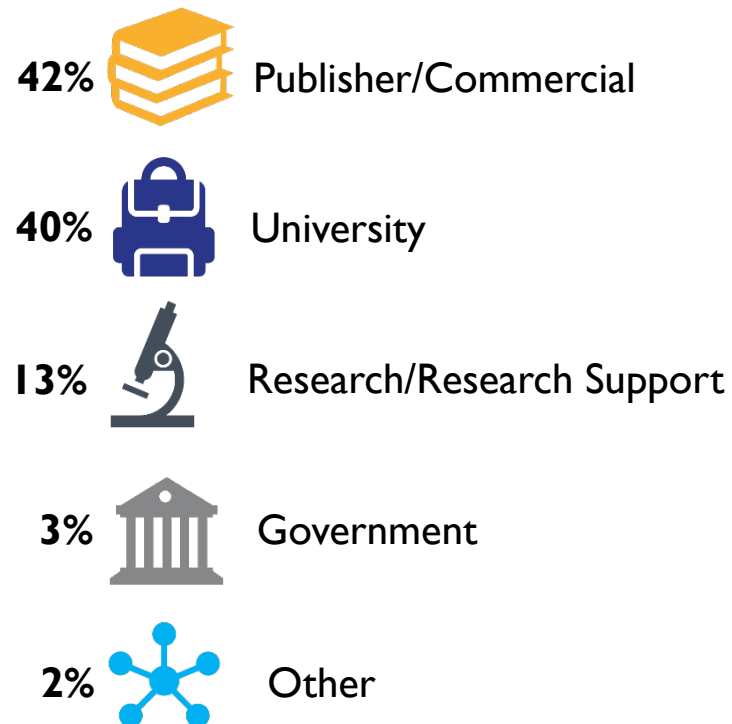
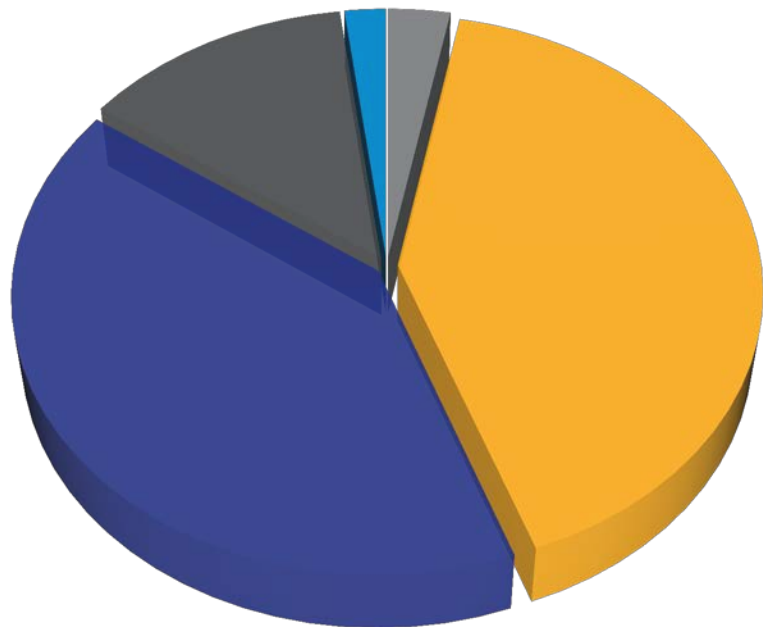
CONNECTING OVER 1.1 MILLION USERS

- 100% of Australian Universities
- State based research support organisations
- Australia's Research institutes (CSIRO, AAD, ANSTO etc)

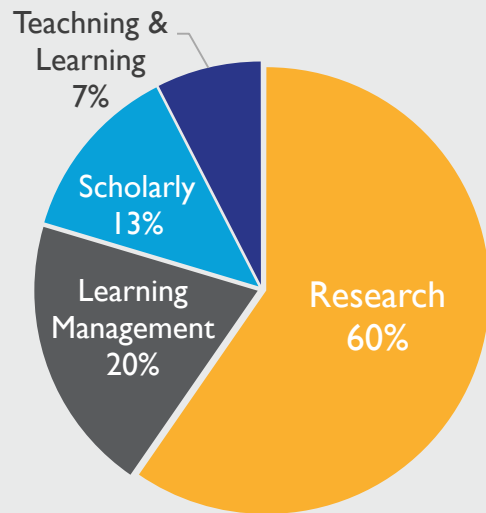
➤ **National
Authentication
Framework**

➤ **HE&R**

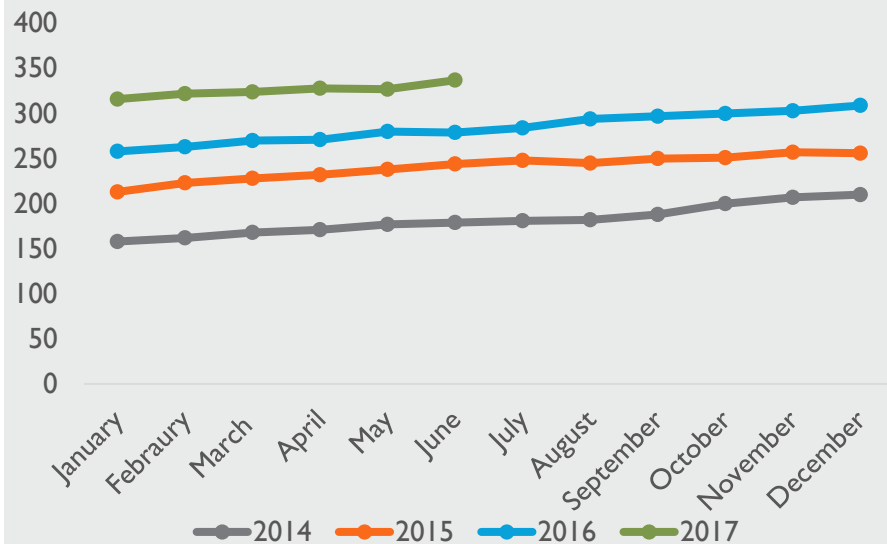
SUBSCRIBER PROFILE



SERVICES



■ Research ■ Learning Management ■ Scholarly ■ Teaching & Learning



GLOBAL THOUGHT LEADERSHIP



International REFEDS

Federation establishment:

- 
- **NZ**
 - **HK**
 - **Singapore**



**OpenID Connect
foundation**



**APAN APAC IDM
Working group**

THE NATIONAL AUTHENTICATION SERVICE – WHAT WE HAVE LEARNT?

- **National Asset**
 - Robust and secure solution
 - Can not be easily or economically replicated
 - Only service of its type in the sector
- **Critical to ensuring uptake for accessibility and collaboration to:**
 - National Research Infrastructure - research services, data, and facilities
 - Teaching and learning

AAF Into the Future

Enforce

Access and Authentication

Australia's access and authentication infrastructure should be extended further to provide additional access to international researchers, where possible. Connecting the AAF to the rest of the world is the next step for Australia's national authentication service for research and education. Implementation will connect Australian researchers with their counterparts across the globe, and allow international collaboration partners to access Australia's national research infrastructure.

Australia's ongoing participation in the global initiative eduGAIN²² will progress international access for researchers and make international collaborations much easier. This should include consideration of both authentication and authorisation.

https://docs.education.gov.au/system/files/doc/other/ed16-0269_national_research_infrastructure_roadmap_report_internals_acc.pdf

E RESEARCH REQUIREMENTS ARE:

- **Complex**
- **Bespoke**
- **Continually evolving**
- **Not easily known at the beginning**

Incremental ongoing investment is required to evolve the service

- *emerging infrastructure requirements*
- *emerging authentication and access standards*

**FUTURE
TECHNOLOGY**

ТЕХНОЛОГІЇ

GLOBAL AUTHENTICATION SERVICE



46

Members



4,256

IdPs

11

Coming on board

155

Research & Scholarship Services

GLOBAL AUTHENTICATION SERVICE

- Digital Data and eResearch Platforms

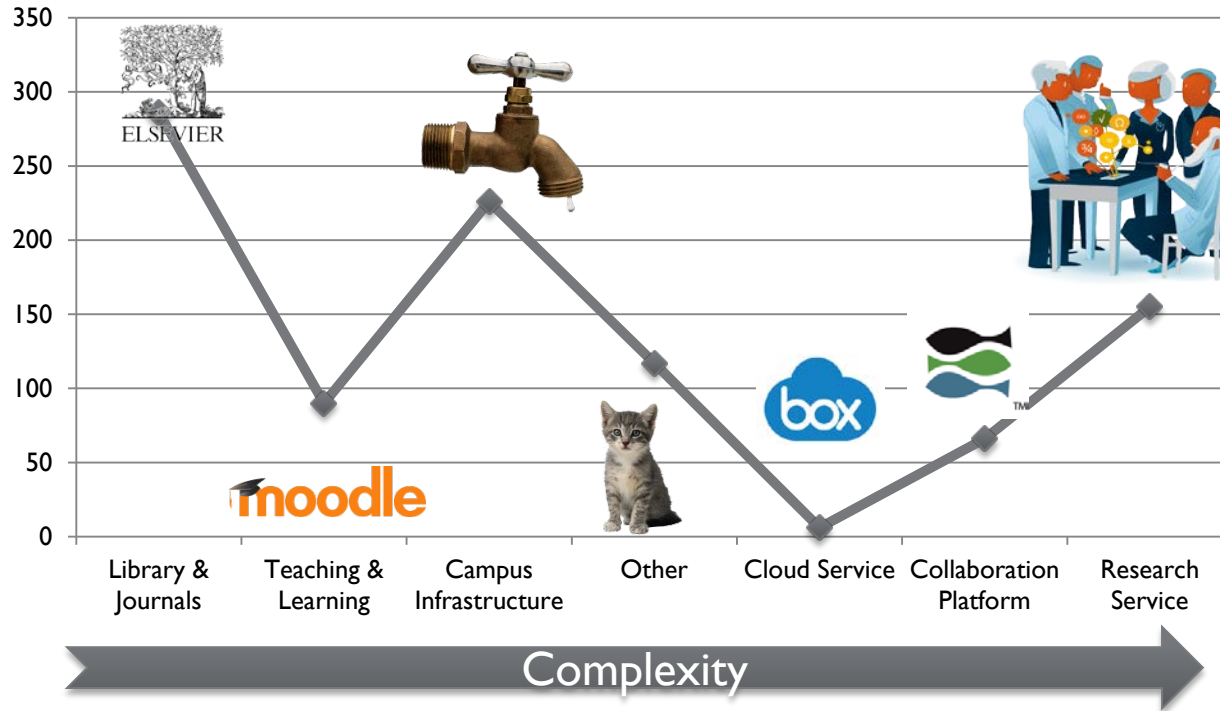
*“Australia’s access and authentication infrastructure should be extended further to provide additional access to international researchers, where possible. **Connecting the AAF to the rest of the world is the next step for Australia’s national authentication service** for research and education. Implementation will connect Australian researchers with their counterparts across the globe, and allow international collaboration partners to access Australia’s national research infrastructure.”*

aligns with the Roadmap’s need to deliver national long-term benefits and strategic international partnerships.





Services in eduGAIN – June 16



Class A) are the simple library/journal/learning applications

Class B) consists of the campus 'corporate' infrastructure

Class C) are the really complex trust applications for collaboration and e-Research

Science means big collaboration

Source: Harding, Ann – Activity Leader, Trust & Identity Development, Swiss Federation / GEANT



MORE NEEDS TO BE DONE...

- **National roll out – seeking funding**
 - Opt-in
- **Advanced tooling – seeking funding**
 - Connectivity handled manually within the AAF – resource consuming
 - Only available for SAML connected services to the AAF

GOING MULTI PROTOCOL





THE JOURNEY

- **NeCTAR funded project (2015-2017)**
 - 2015: Research into OIDC in a federation context
 - 2016: Delivered an experimental proxy
 - 2017: AAF became a member of the OIDC foundation – standards development
 - 2017: Developing a production proxy (April – October)
 - New style of product for the AAF
 - Focus on availability and security of the service

Go live 2018

Rapid

Identity Provider

Cloud IdP Service

- Highly available Shibboleth IdP
- Local or Remote identity store (LDAP)
- Federation + Local services
- Test and Production environments
- Hosted in AWS – ASD Certified env
- Configuration via web UI
- Maintained and upgraded by the AAF

SAAS IDP

Rapid 
Identity Provider



Migration



Development



Support



Business

PRICING MODEL

- Respect the original principles used to develop AAF's business model
- Cater for small organisations through to enterprise customers
- Seem reasonable to existing subscribers
- Cover all costs including innovation



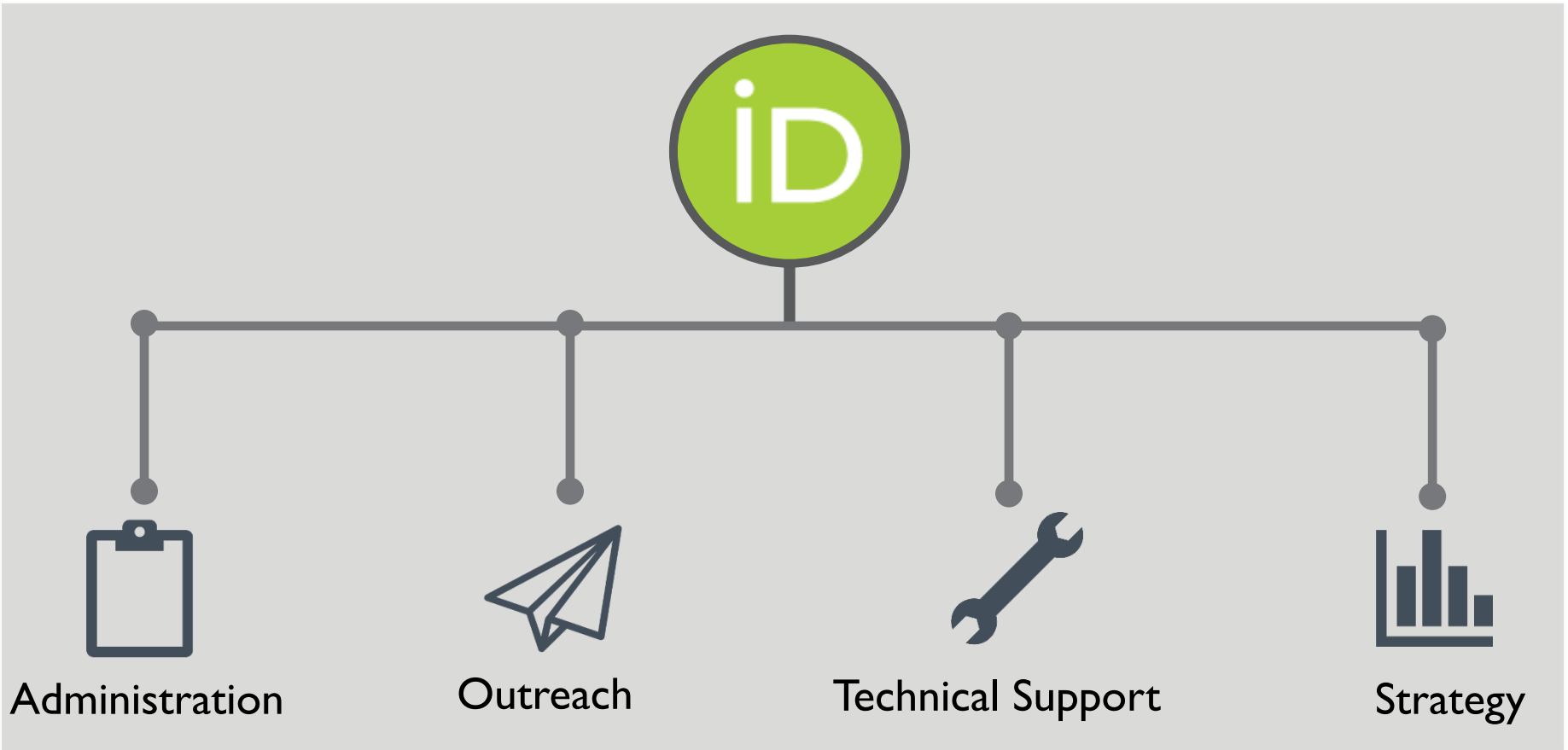
Go live 2018



ORCID

Connecting Research
and Researchers

2016 COMMENCED CONSORTIUM LEAD



ROLE OF THE CONSORTIUM LEAD

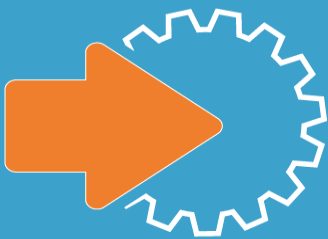
Support



support@aaf.edu.au
Mon-Fri | 8am-5pm

Tier 1 incident support

Advice & Guidance on Integration



Members need to advise the Consortium Lead of:

- planning
- integration testing

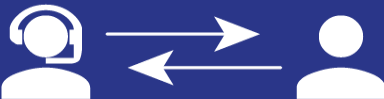
CONSORTIUM MEMBER BENEFITS



Premium Membership

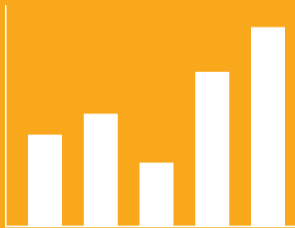
- Reduced costs
- Ability to integrate ORCID IDs in multiple systems

Local
Australian Support



Reporting

**STATS | REPORTS
FOR ORGANISATIONS**



*Integrated application & user
acceptance testing*

API
organisations get:

- ▶ Access to the member API
- ▶ Facilities to deposit & update user records
- ▶ Access to user's Read Limited Data
- ▶ Notifications of updates to user records

+3.8
MILLION

ORCID IDs WORLDWIDE

live orcid ids over time



+20
MILLION

WORKS IN ORCID REGSITRY

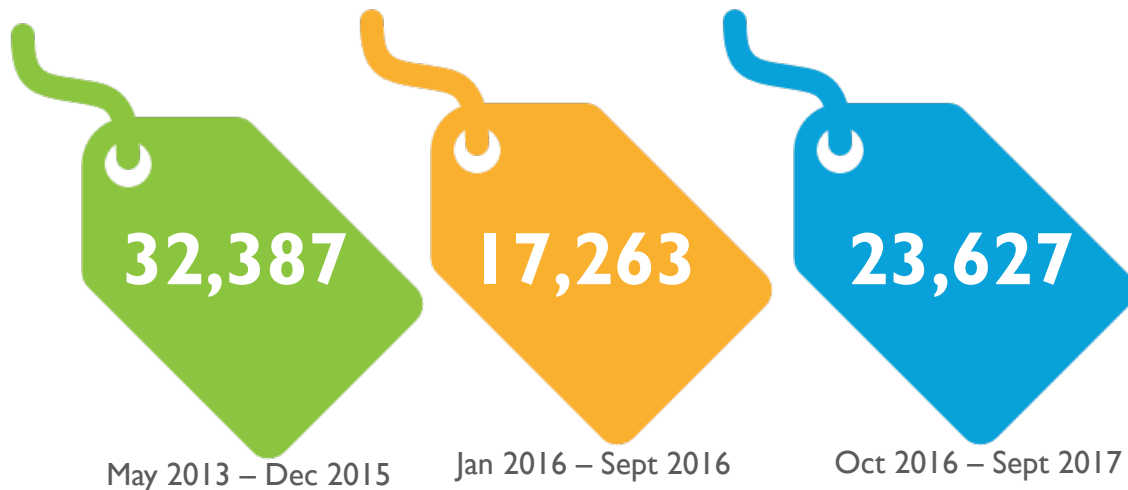
works in orcid by month



ORCID – AU GROWTH



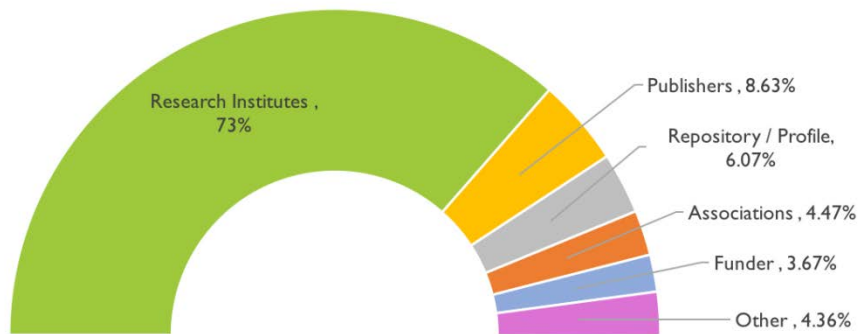
Number of Australian ORCID IDs



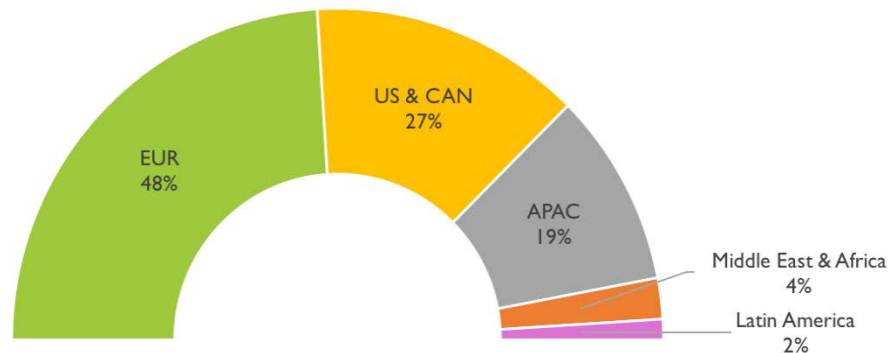


701 Members

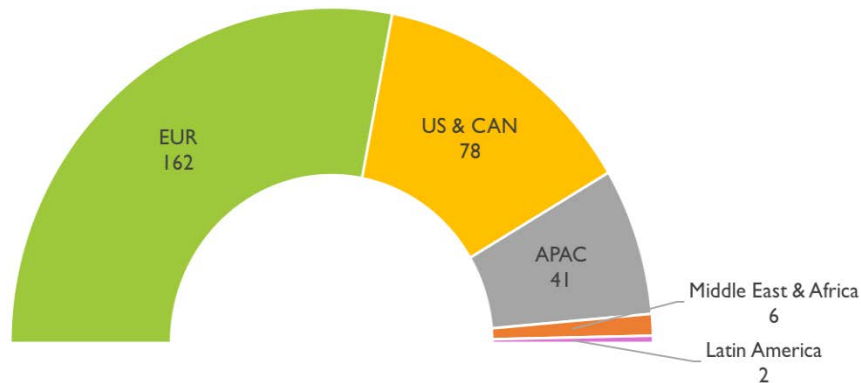
ORCID.ORG



ORCID Membership by Sector



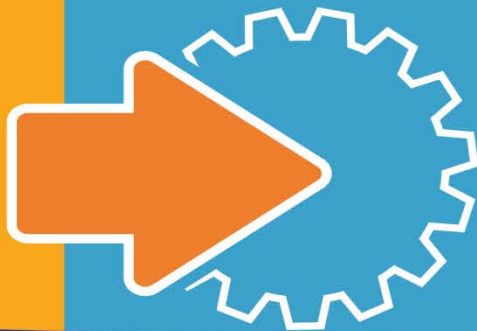
ORCID Membership by Region



ORCID Integrations by Region

AUSTRALIAN ORCID CONSORTIUM INTEGRATIONS

23



Member
integrations



Members
testing

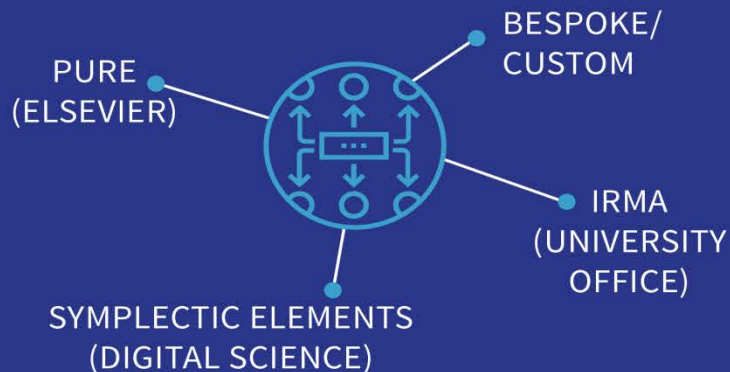
11

6



Members
planning

TYPE OF INTEGRATION



QUESTIONS?

