



Australian Access Federation REFEDS Update 2022

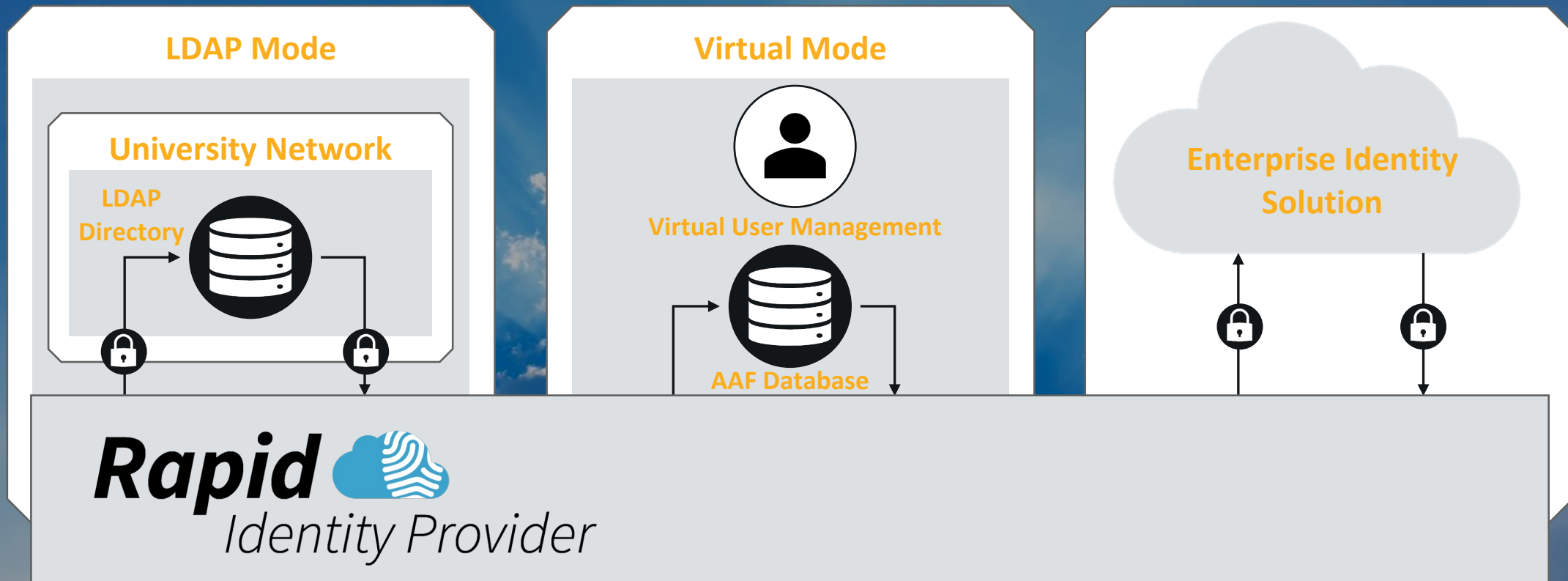
Rapid

Identity Provider

Platform Architecture



okta



Key features

- Designed for high availability
 - Automatic certificate generation and renewal
 - Deployment review system stops broken configuration
 - Auto-scales to meet demand
 - Load balanced across multiple availability zones
- Security
 - Dedicated VMs for each customer
 - Leverages AWS capabilities — WAF, DDoS protection, etc
 - Regular 3rd party penetration testing
- Zero downtime migration / rollback (blue green deployment)
- Attractive WCAG 2.1 compliant UI branding in under 5 minutes

Rapid 
Identity Provider

**NOW
SUPPORTING**

okta



Azure Active Directory



59%

of AAF customers signed up

- 3x LDAP
- 4x Virtual
- 22x Proxy

Affiliation
verification
service

Proven
technical and
commercial
model

4.75
MILLION
verifications

Federations
should
implement an
affiliation
verification
service

Community Engagement

National

- IdP Health Check program
- NCRIS Trust and Identity Capability
- Australian Higher Education Cybersecurity Service (AHECS)
- ORCID Consortium Lead
- *Chat in the Lounge* and *Coffee Break* videos
- Focus groups for feedback



Community Engagement

International

- REFEDS Steering Committee
- Schema Board
- eduGAIN Steering Committee
- eduGAIN Security Working Group
- APAN Identity & Access Management Taskforce
- ORCID Membership & Fees Committee
- ORCID APAC Consortium Interest Group



Technology Improvements

- Status monitoring outsourced (uptimerobot.com)
 - See <https://status.aaf.edu.au>
- New world order infrastructure
 - Containerisation, cloud-native approaches
- Rebuild core tooling
 - Federation Manager
 - Rapid Connect merged into FM
 - Validator service
 - FM / Salesforce integration
- Various Rapid IdP features and improvements
 - Migration process for LDAP -> Proxy mode

A close-up, low-angle shot of a person's legs and feet, wearing dark blue jeans and brown leather work boots. They are standing on a rough, rocky, and dusty terrain. A jackhammer is being used on the ground, with its metal bit visible and dust being kicked up. The background is blurred, showing more of the rocky ground.

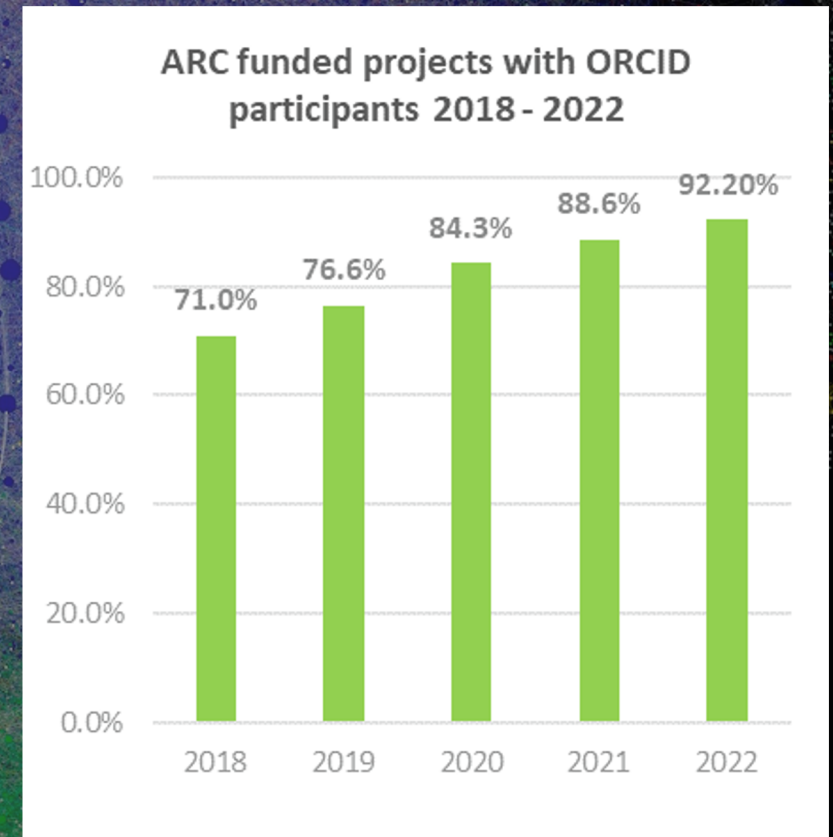
Technology Improvements

- Reporting and business intelligence
 - F-Ticks log collection
 - end-to-end service usage data collection
 - dashboards for different audiences
- SATOSA proxy
 - replace existing JWT and OIDC proxies
 - add SAML proxy capability

ORCID



- ORCID Member Portal released with:
 - Affiliation Manager
 - Member Reporting Dashboard
- PIDs Cost Benefit Analysis for Australia
- Growth in grant applications with linked ORCID records



Making Life Easier

Dr Joe Shapter's ORCID User Story



“ The integration of ORCID saves three to four days per grant application. The difference in workload is staggering! ”

“ What is critical is that my ARC record is getting updated, which is a mountainous saving of work for me and helps with keeping my CV easily up-to-date. ”

Projects

Australian BioCommons

- Human Genome Platform Project (cancer research data sharing)
- Threatened Species Initiative demonstrator

Coordinated Access for Data, Researchers and Environments (CADRE)

- Research data platform (5 Safes framework)
- Improve identity assurance and authentication
- Links to Data Availability & Transparency Act 2022

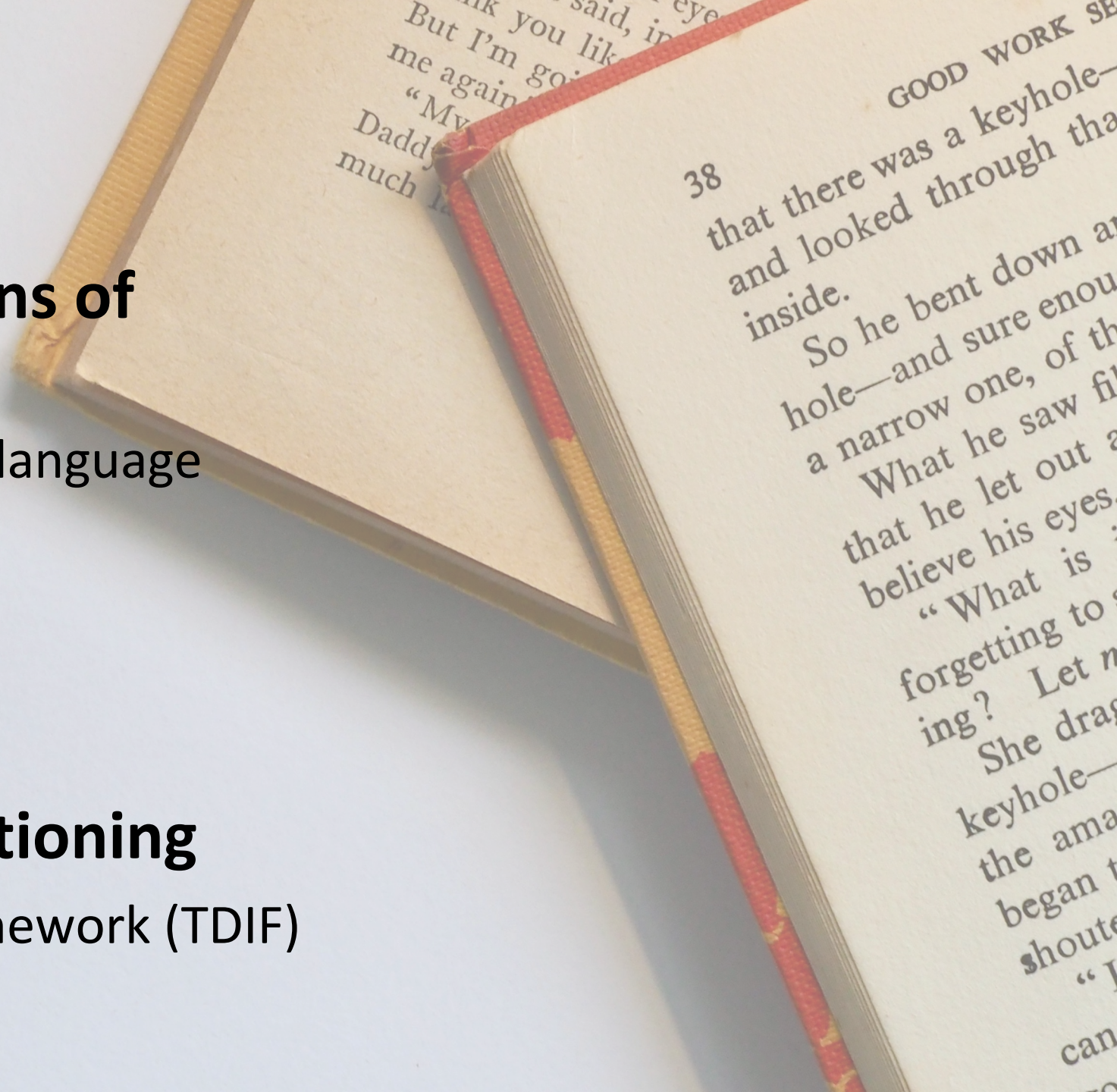
Projects

Language Data Commons of Australia (LDaCA)

- Sharing written and spoken language samples for research
- Indigenous language
 - 250 languages, 800 dialects

Digital ID strategic positioning

- Trusted Digital Identity Framework (TDIF)



Shameless Self-Promotion

Propelling Australia's Digital Life Science Research with Collaborative Research Infrastructure

- Wednesday, 15 June, 4:30pm
- Room C

T&I Capability Timeline

2016

**NATIONAL RESEARCH
INFRASTRUCTURE ROADMAP**



2019

**DEVELOPED THE TRUST &
IDENTITY STRATEGY**



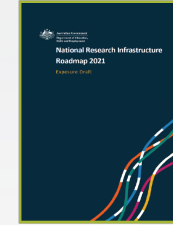
2020

**TRUST & IDENTITY
STRATEGY RELEASED**



2021

EXPERT WORKING GROUP



2022

**2021 NATIONAL RESEARCH
INFRASTRUCTURE ROADMAP**



2022

**FUNDING APPROVED FOR
T&I PATHFINDER**



The Good Things

- New skilled staff who have improved the culture at AAF
- Multiple locations and wider time zone coverage
- Opportunity to travel and meet face-to-face again
- Progress toward acceptance of T&I as critical infrastructure
- Work that makes a difference

