



HUMANITIES, ARTS & CULTURE DATA SUMMIT

Rob Cook
NRDC Reference Group



14-15 March 2018, Canberra
humanities.org.au | #HACDS2018

NRDC Future Design

HASS Workshop

Rob Cook, 14 Mar 2018

A guide to developing an NRDC for 5-10 years into the future

The Transition Plan is about converting the RAN into a single entity that will evolve into the NRDC for the future

The National Research Data Cloud (NRDC) will be an organisation that transforms, champions and enables the effective and productive application of data-intensive digital infrastructure to the delivery of advanced research.



Enhanced research excellence

Researcher productivity

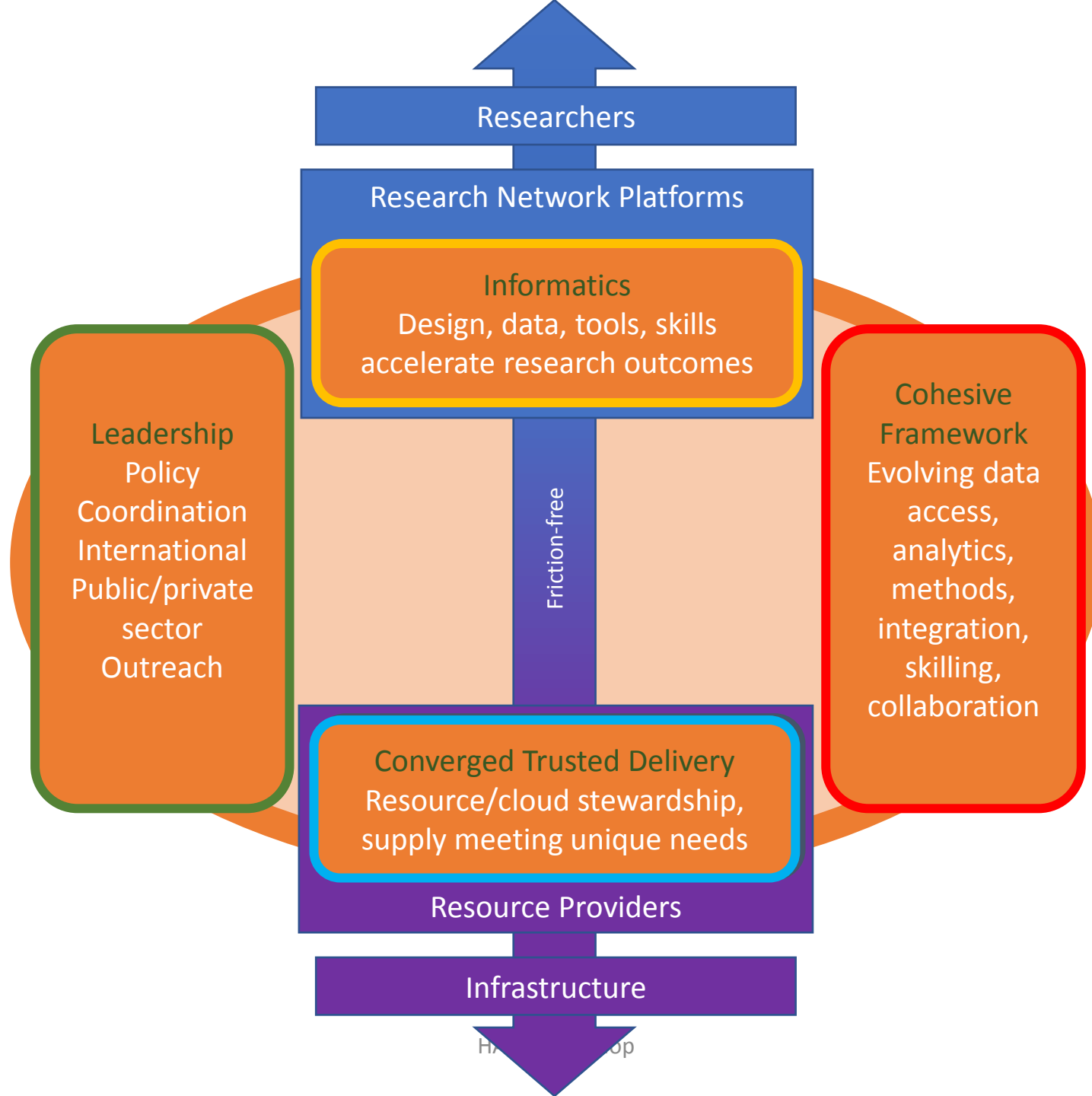
International interaction

Public/private sector bridge

Trusted quality re-useable data

Expertise

NRDC Model



Stakeholder context

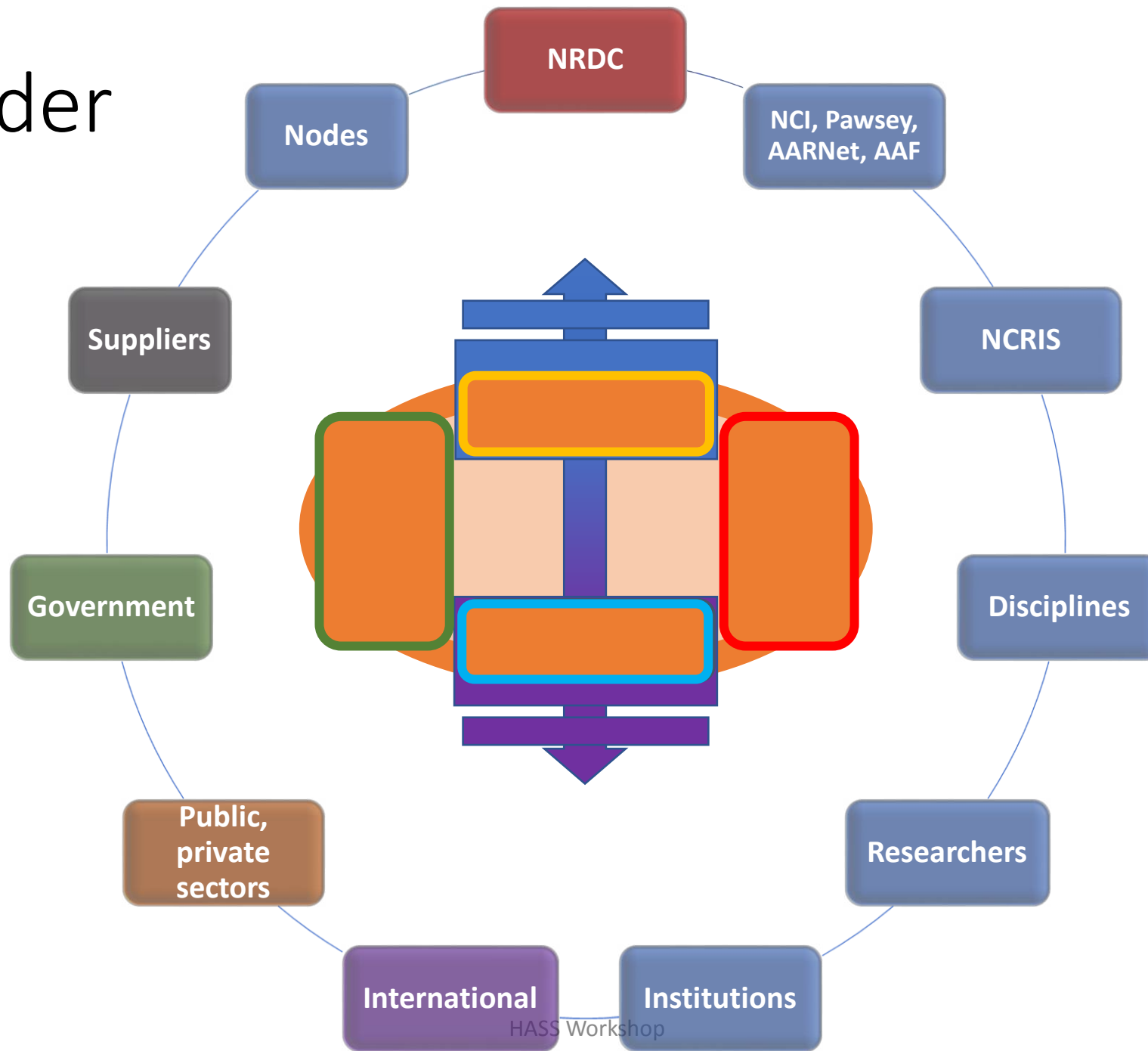
Customers

Users

Suppliers

Partners

Collaborators



Research Network Expertise



Tools



Data



Skills

NRDC Expertise

- Platforms led by Research Networks
- Delivering informatics for the community
- Maturing over time
- Pervasive culture of platform use
- Towards excellent highly productive research

Bioscience

Characterisation

Astronomy

Marine

HASS

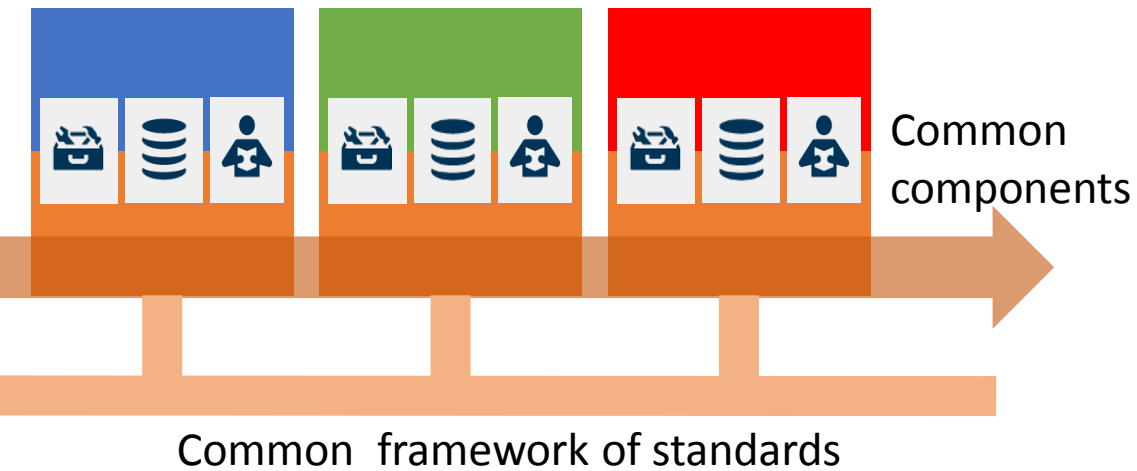
Ecoscience

Researchers

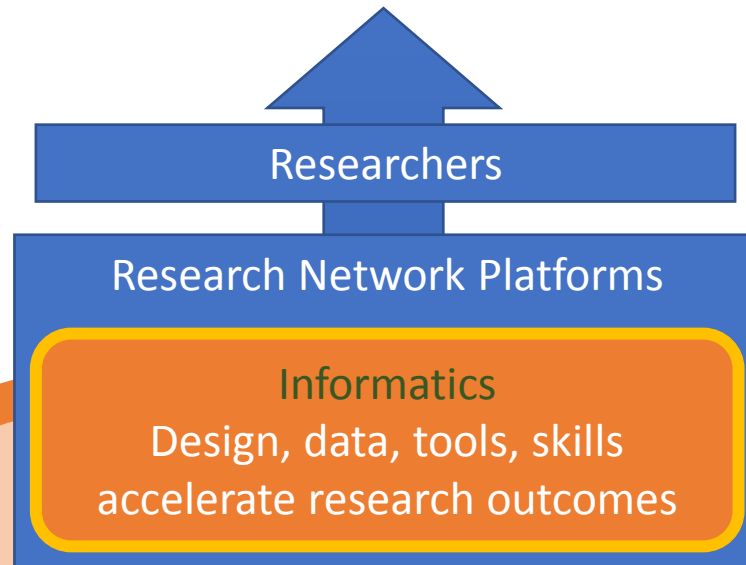
Research Network Platforms

Enable Platform
Informatics

Platforms: NRDC role



- Harvest from successful platforms
- Co-develop with maturing platforms
- Plan platforms with less mature networks
- Re-use componentry
- Promote the cohesive framework
- Adopt, adapt from international networks
- Expertise in production systems



Cohesive
Framework
Evolving data
access,
analytics,
methods,
integration,
skilling,
collaboration

Standards

Data management

FAIR data and tools

Open/shared research

Workforce development

Data bridges

Trusted quality data

Secure data secure repositories

Automation

Identifiers

Authentication

Catalogues

Geocoding

Metadata

Vocabularies

Publication

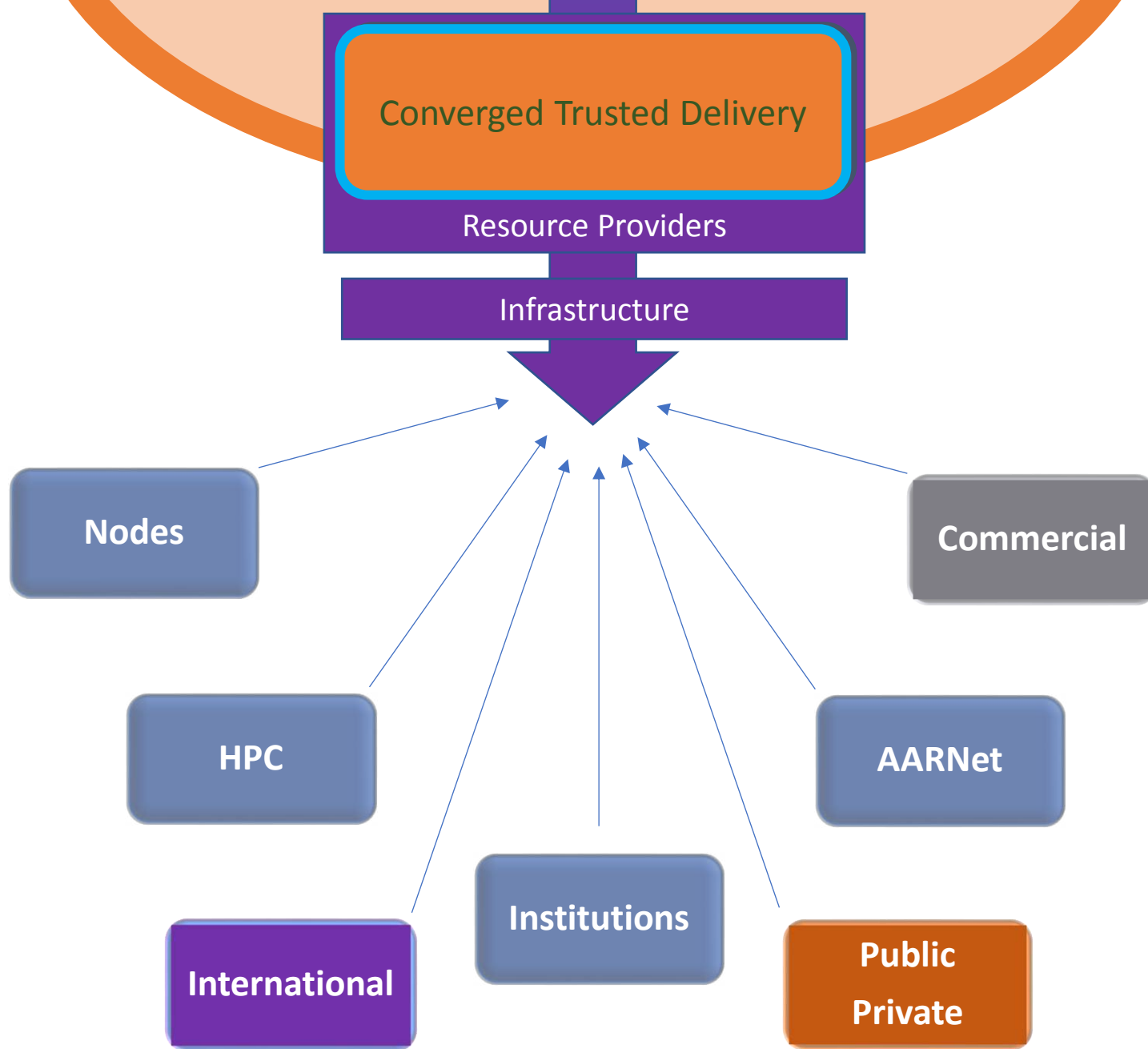
Global alignment, cross-disciplinary, cross-sector coherence

Framework: NRDC role

Cohesive
Framework
Evolving data
access,
analytics,
methods,
integration,
skilling,
collaboration

- International standards alignment & leadership
- Adopt & adapt international best practice
- A national framework strategy
- A national standards body
- Production systems implementing standards
- Selective developments
- Innovations – eg secure data systems, data federation

Resource Marketplace





Resource Providers

Nodes, NCI, Pawsey

Institutions

AARNet

AWS, Google etc

International

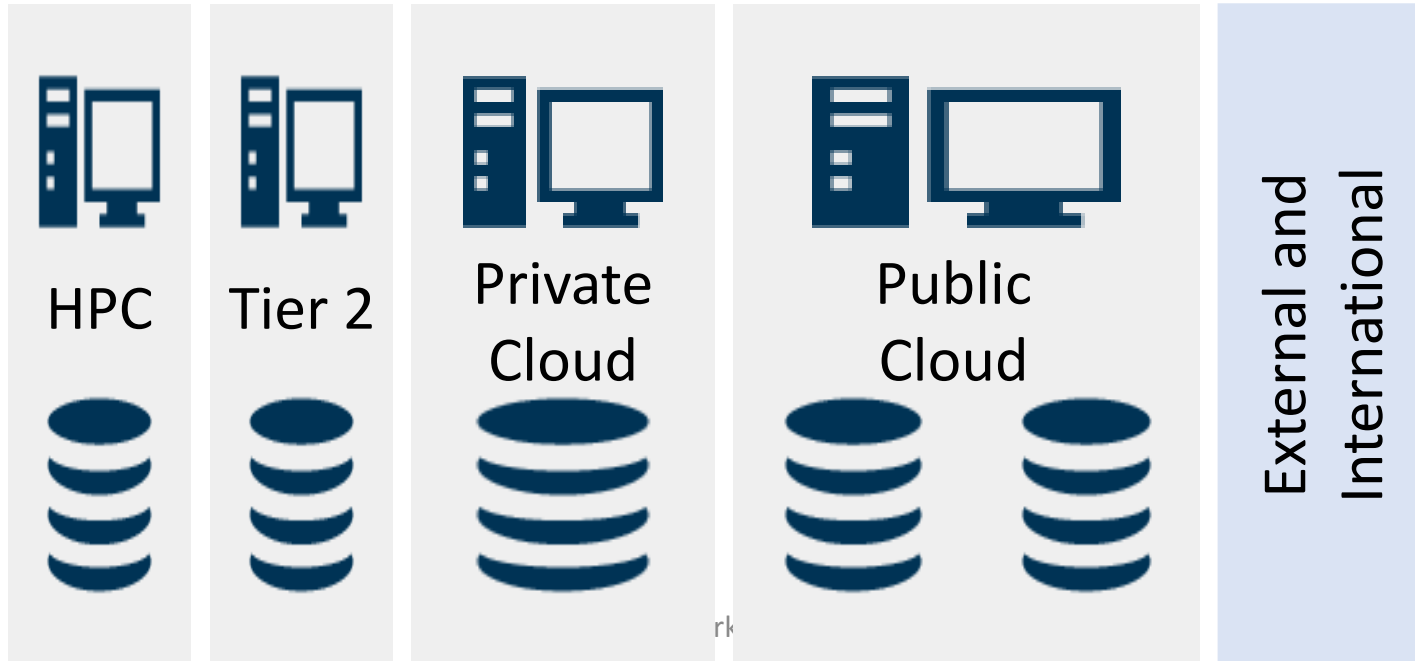
Service Providers

Core services

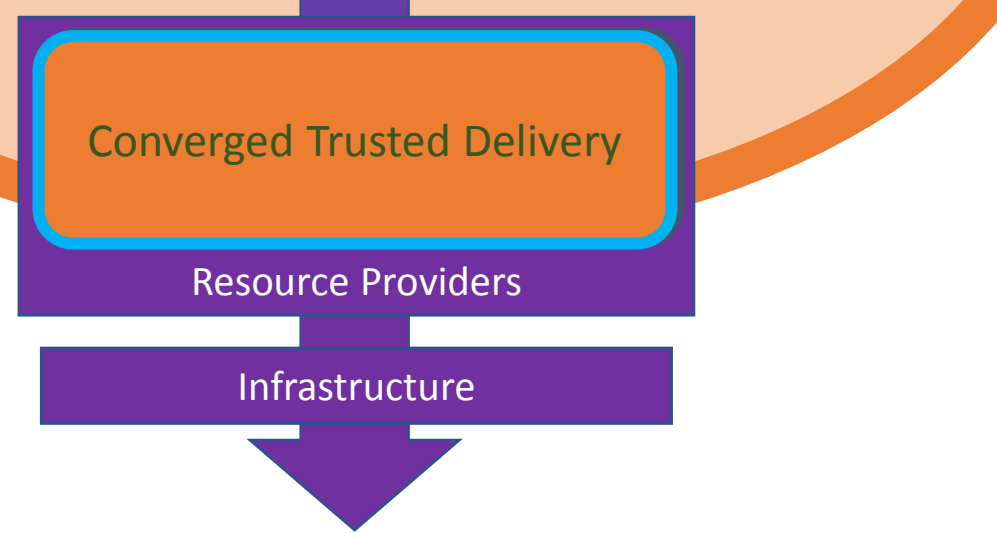
User support

Maturity models

Cohesive framework



Infrastructure: RAN to NRDC



- National Research Infrastructure Investment Plan (NRIIP)
- Uncertain final landing place
- RAN equipment nearing obsolescence
- It will be replaced, but converged and coordinated?



Leadership
 Policy
 Coordination
 International
 Public/private
 sector
 Outreach

Production

Development

Innovation

Data-intensive

Skills, culture

Expertise

Research
Network
Platform
Informatics

Transformation
Strategy

Converged
Trusted
Resource
Delivery

Cohesive
Framework

Leadership
Policy
Coordination
International
Public/private
sector
Outreach

Questions, discussion, feedback

Prof Robyn Owens

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NRDC Transition Plan

AeRO Forum

14 Mar 2018

Transition decisions

- Future Design accepted – that is it's a fine long-term vision
- RAN to extend through 2018-19
- NRDC to go operational \leq 1 Jul 2019
- Single Board to replace existing three RAN Boards
- RAN to pivot towards NRDC future

NRDC Transition Plan Advice

- Implementing NRDC entity
- Issues in transitioning RAN to NRDC

Questions, discussion, feedback

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