

Geoscience data interoperability through a new lens: how designing a telescope that looks down changed our view of data.

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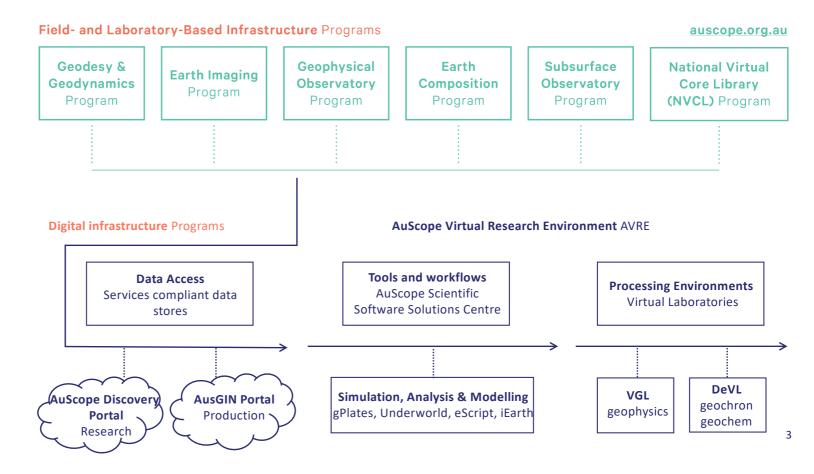


AuScope's purpose is to:

Create wide and open access to earth and geospatial science research infrastructure that drives world-leading Australian scientific research, which in turn, helps to solve national challenges and build a <u>resilient and sustainable nation</u>.



Programs:





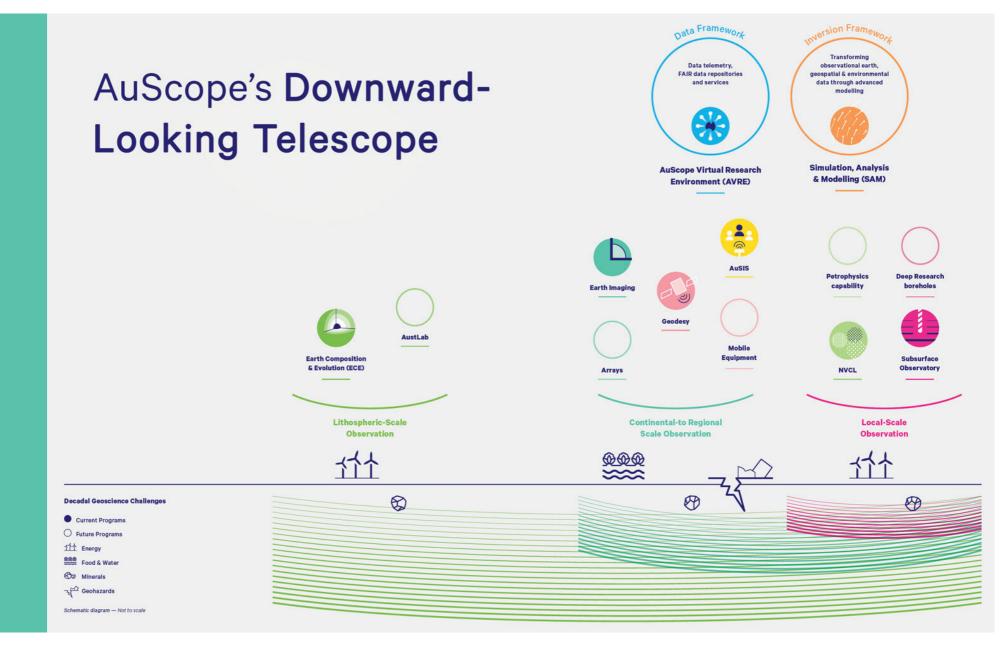
New investment in National Research Infrastructure for Geoscience





In a nutshell, for NCRIS + AuScope

- NISA funding of \$1.5B over 10 x years
 for & 9 x focus areas across medical,
 energy & enviro across NCRIS orgs
- Explore establishment of next generation Earth monitoring and potential development of inward looking "telescopes"
- Must build predictive geoscience capacity





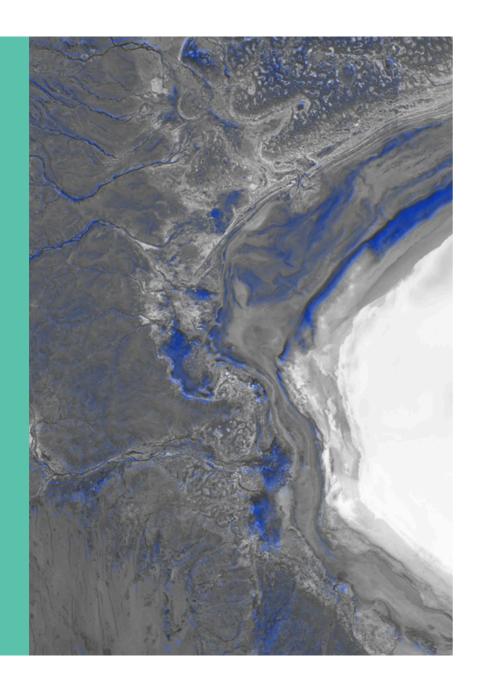


Community Data Framework is a community of practise comprising

- domain experts;
- socio-technical policies and standards;
- research data management;
- regular workshops, webinars, interactive training events and professional development opportunities;
- a community cloud resource

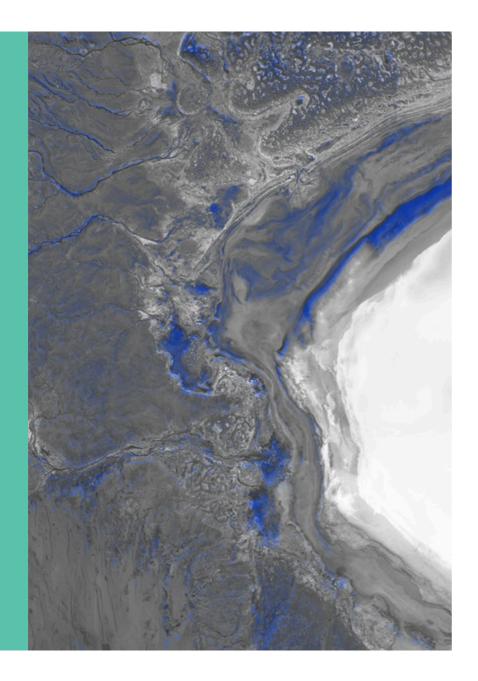
Holistic view of research data management is encouraged with repositories, pipelines and portals codesigned by stakeholders across the full life cycle of research data

 creation, processing, analysis, storage, access, preservation, etc.



Building the 'downwardlooking telescope' – Australian Earth Observatory

- The AuScope strategy is to link field and laboratory infrastructure across Australia to form a sensor array focusing on the Solid Earth
- "The AEO will be our communities SQA a distributed telescope that looks into the earth rather than away from it"



AuScope will build the 'downward-looking telescope'



- Providing unprecedented imaging fidelity of our crust to fundamental and applied researchers in the earth, environmental and geospatial sciences
- Focused by integrated data repositories, analytics and data delivery infrastructures built around a community of practice
- Collaboration with existing and new partners, including GA, UNCOVER
 Australia and MinEx CRC
- Supporting recommendations of the AAC Decadal Plan and UN/COVER Roadmap



Thank you!

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