

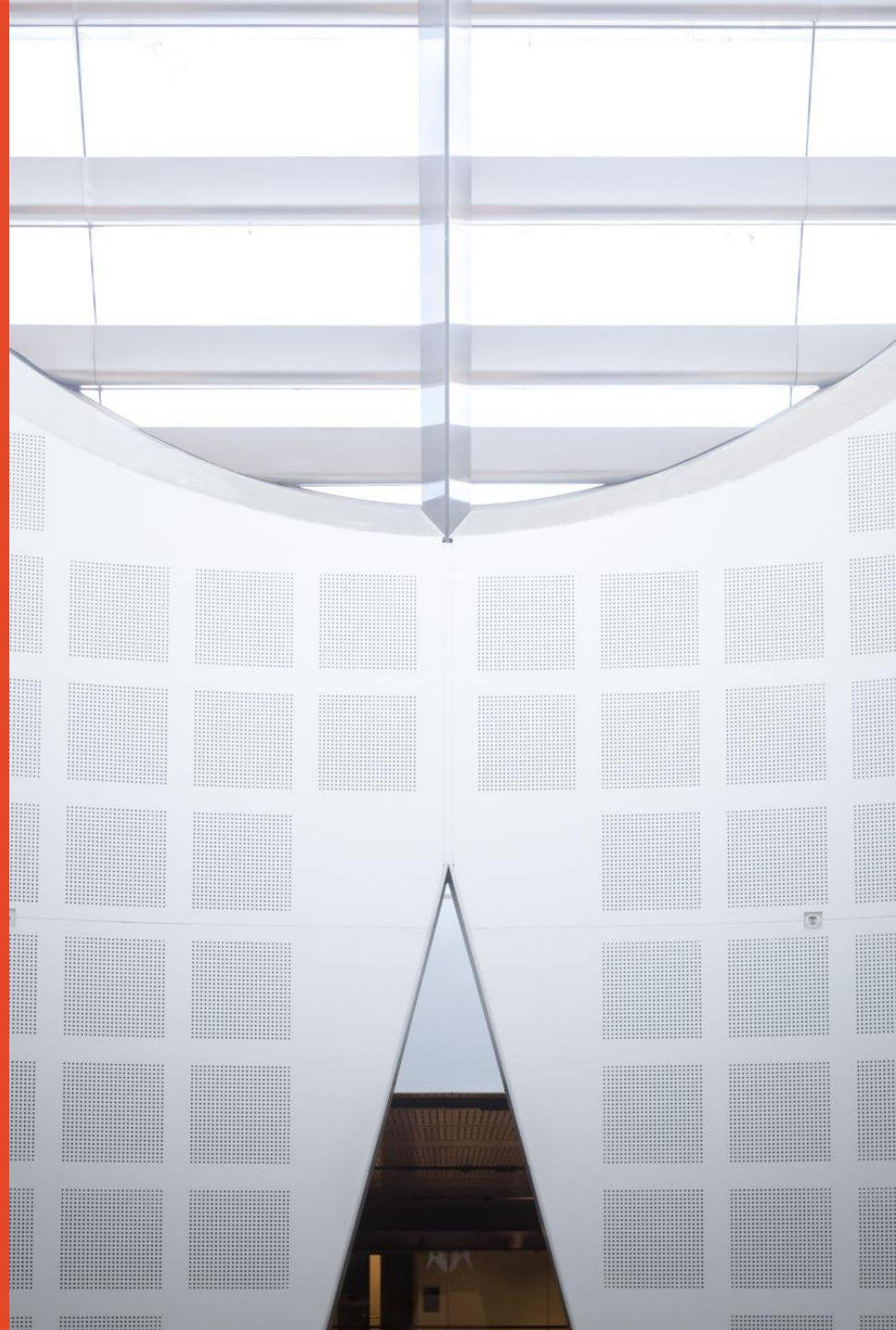
AeRO 2017 National Forum

University of Sydney
Research Infrastructure
and Data Science

Presented by
Justin Chang
ICT



THE UNIVERSITY OF
SYDNEY



March 2016

2016–20

Strategic Plan

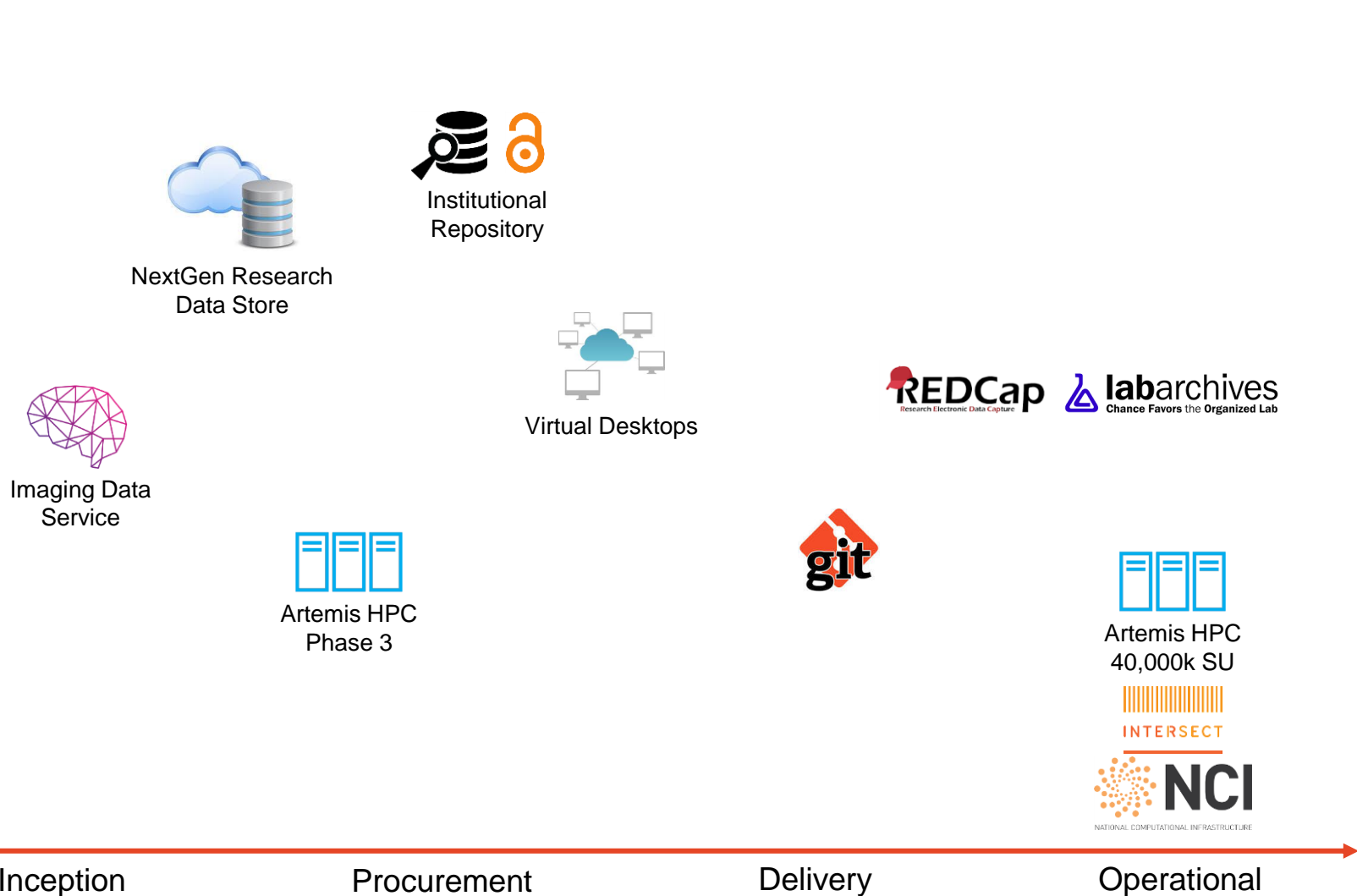
IF YOU
CHANGE
NOTHING,
NOTHING,
WILL
CHANGE.

Tripling our investment in research

*We will also make transformational investments in our advanced computing infrastructure, ensuring we are well placed to support our initiatives in translational data science, the biomedical sciences, humanities and social sciences, among others, across the University. **This will include a major expansion of our high-performance computing facilities (Artemis)**, as well as the creation of new Discovery Studios – dedicated studios that will enable powerful visualisation, segmentation and quantification analytics of complex data that is increasingly required in a multitude of disciplines throughout the University.*

What we are working on now

Size/Complexity



Data Science

*The **Sydney Centre for Translational Data Science (SCTDS)** will harness the extraordinary potential for innovation in data science and machine learning for the nation. It will be a partnership between data scientists, a broad range of research domain experts, and community and industry partners. The centre will deliver a world-class research capacity in data science to develop new methods, technologies and tools, and translate data science to drive new and transformational advances in the life, physical and social sciences, and tackle society's complex problems.*

Sydney Informatics Hub Core Research Facility

Data Engineers
Prof. Dietmar Muller
~30 active projects



Informatics Technicians
Prof. Geraint Lewis
1500+ users



Virtual Desktops



NextGen Research
Data Store



Artemis HPC

Research Data Steward
A/ Prof. Gareth Denyer
7000+ users



Institutional
Repository



University Executive
Sub-Committee for RDM

1. What are you doing to understand your researchers' needs over the next 2-10 years?
2. What eResearch infrastructure do you plan to support, and where is that best placed?
3. How would you engage with any national (and international) framework(s) for research data?

Research Infrastructure Projects

