eResearch at UNSW

recent developments

Never Stand Still

Grainne Moran
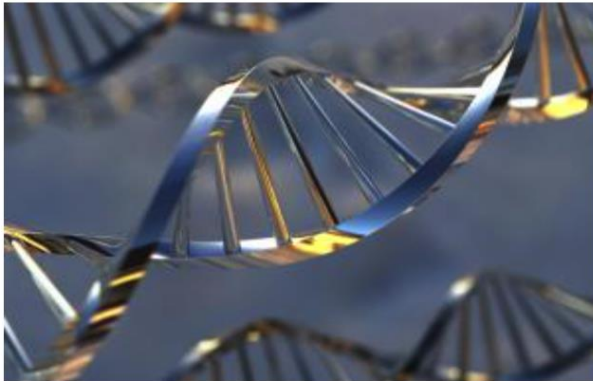
PVC, Research Infrastructure

and

Luc Betbeder-Matibet
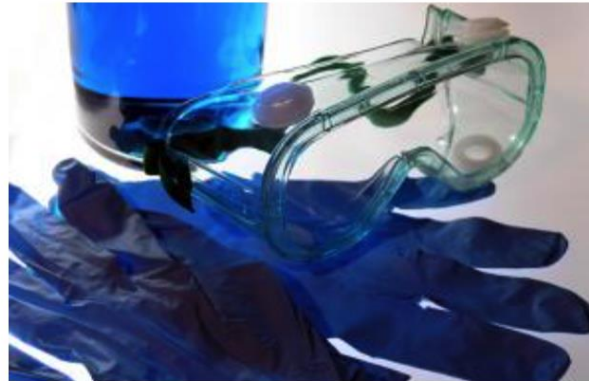
Director, Research Technology Services

Research Infrastructure (PVCRI)

Analytical Centre (MWAC)
Major instrumentation housed in custom-built laboratories, accessible to UNSW staff and students; external researchers and industry.

Network Labs & Shared Research Equipment
Network Labs enable researchers and industry to access research equipment, expertise. Search all the shared equipment available at UNSW.

Infrastructure Funding Schemes
Schemes that specifically fund research infrastructure, including the UNSW Research Infrastructure Scheme, ARC LIEF and the Cancer Institute NSW Research Equipment Grant.

Research Computing
Access to local and national research computing schemes and resources (including High Performance and Cloud Computing). Support and training for Software and Applications.

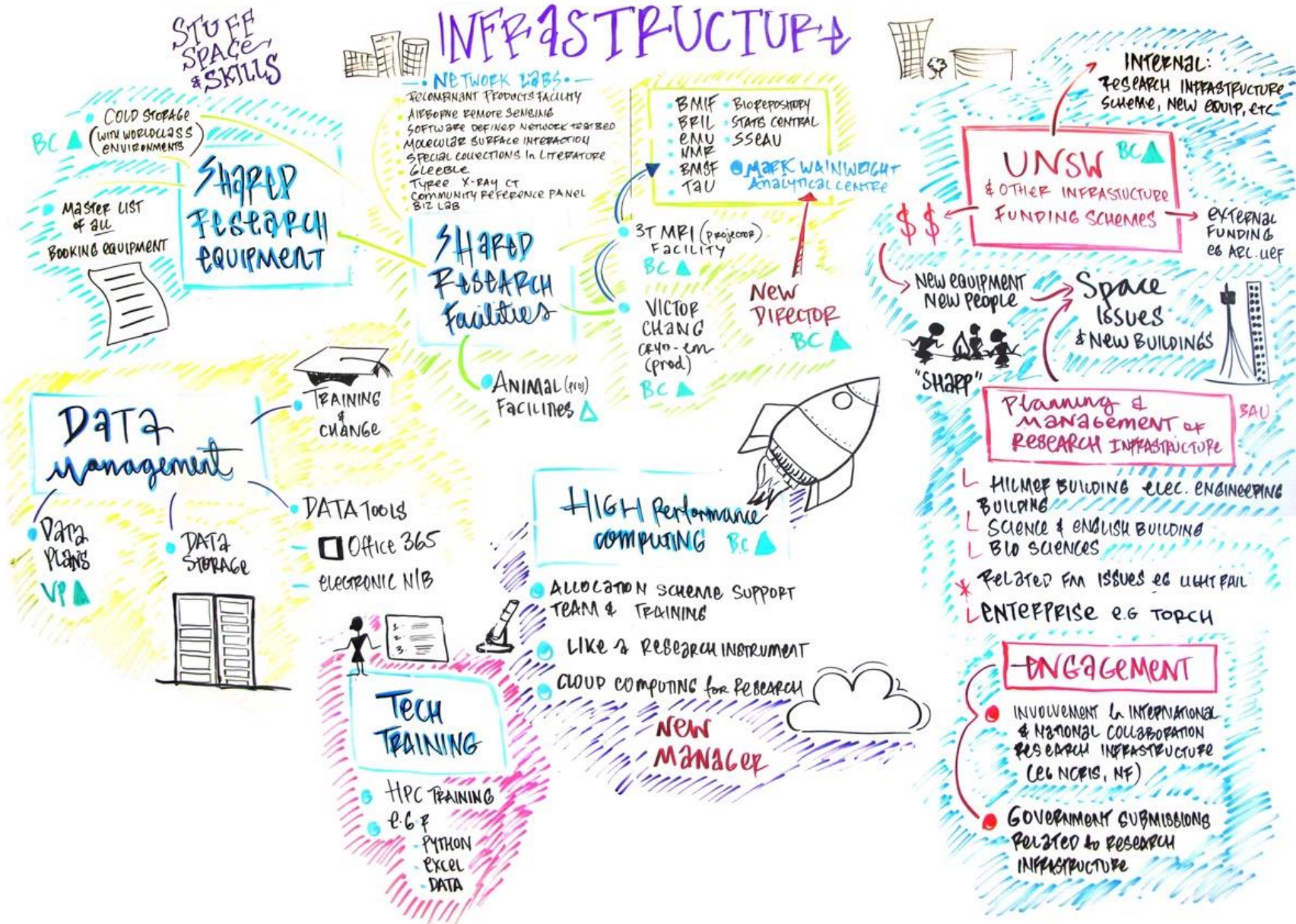### Data Management, Storage and Tools
Support and training on how to manage, store and share research data at UNSW. Access to open and shared data sets and community repositories.
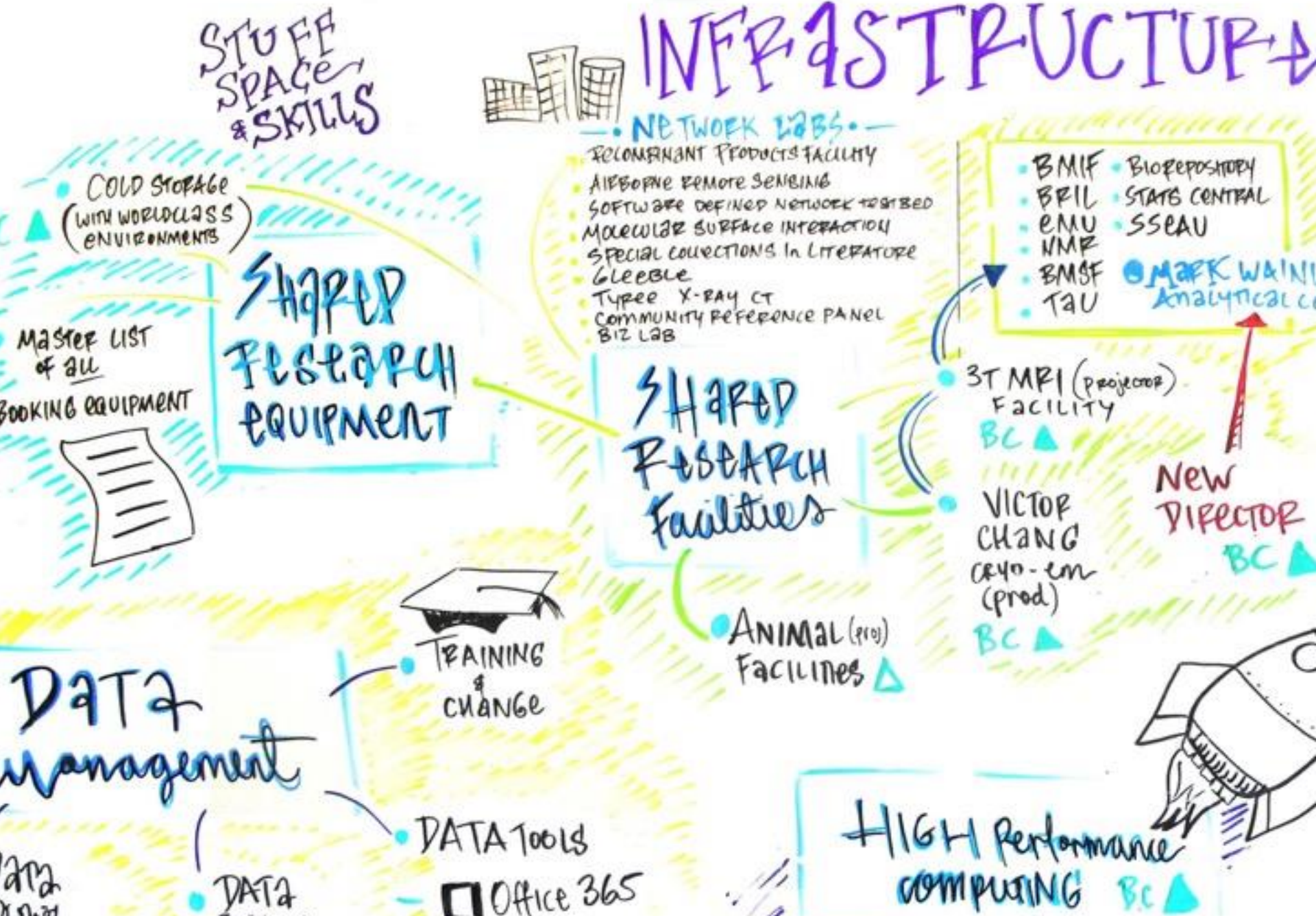
News, Engagement & About Us
Information about the Office of PVC-RI, current events, and the latest government submissions relevant to research infrastructure.

STUFF SPACE & SKILLS

INFRASTRUCTURE

NETWORK LABS

RECOMBINANT PRODUCTS FACILITY
AIRBORNE REMOTE SENSING
SOFTWARE DEFINED NETWORK TESTBED
MOLECULAR SURFACE INTERACTION
SPECIAL COLLECTIONS IN LITERATURE
GLEEBLE
TYREE X-RAY CT
COMMUNITY REFERENCE PANEL
BIZ LAB

- BMIF · BIOREPOSITORY
- BRIL · STATS CENTRAL
- eMU · SSEAU
- NMR
- BMSF · MARK WAINI
- TAU   Analytical c

COLD STORAGE
(WITH WORLDCLASS ENVIRONMENTS)

MASTER LIST
OF all
BOOKING EQUIPMENT

SHARED RESEARCH EQUIPMENT

SHARED RESEARCH Facilities

3T MRI (projector)
FACILITY
BC

VICTOR CHANG
CRYO-EM (prod)
BC

New DIRECTOR
BC

ANIMAL (prod)
FACILITIES

TRAINING & CHANGE

DATA Management

DATA TOOLS
Office 365

HIGH Performance COMPUTING BC

DATA

the mark wainwright analytical centre…

Solid State & Elemental Analysis Unit

Biomedical Imaging Facility

Electron Microscope Unit

Bioanalytical Mass Spectrometry Facility

NMR Facility

Biological Resources Imaging Lab

Chemical Consulting Lab

Stats Central

Lowy Bio-repository

Transgenic Animal Unit

Research Imaging (Clinical and Brain Sciences)
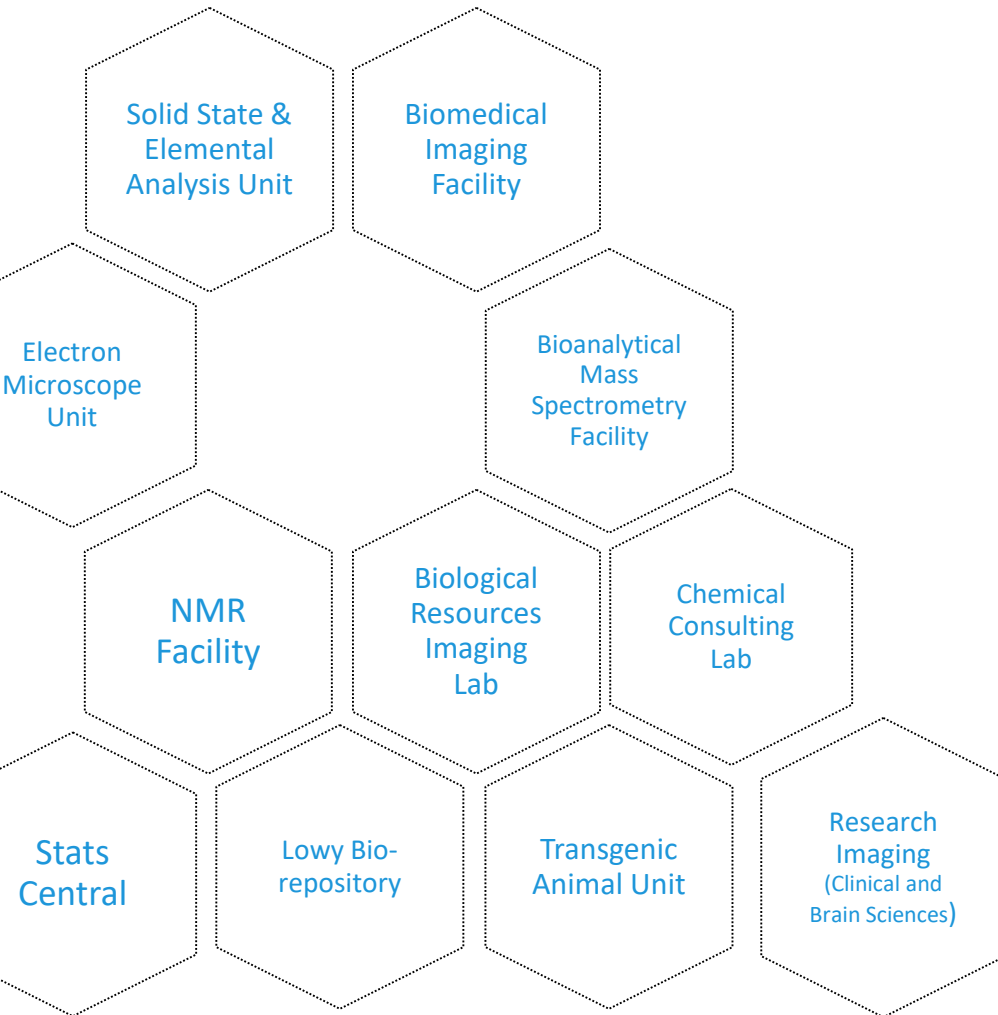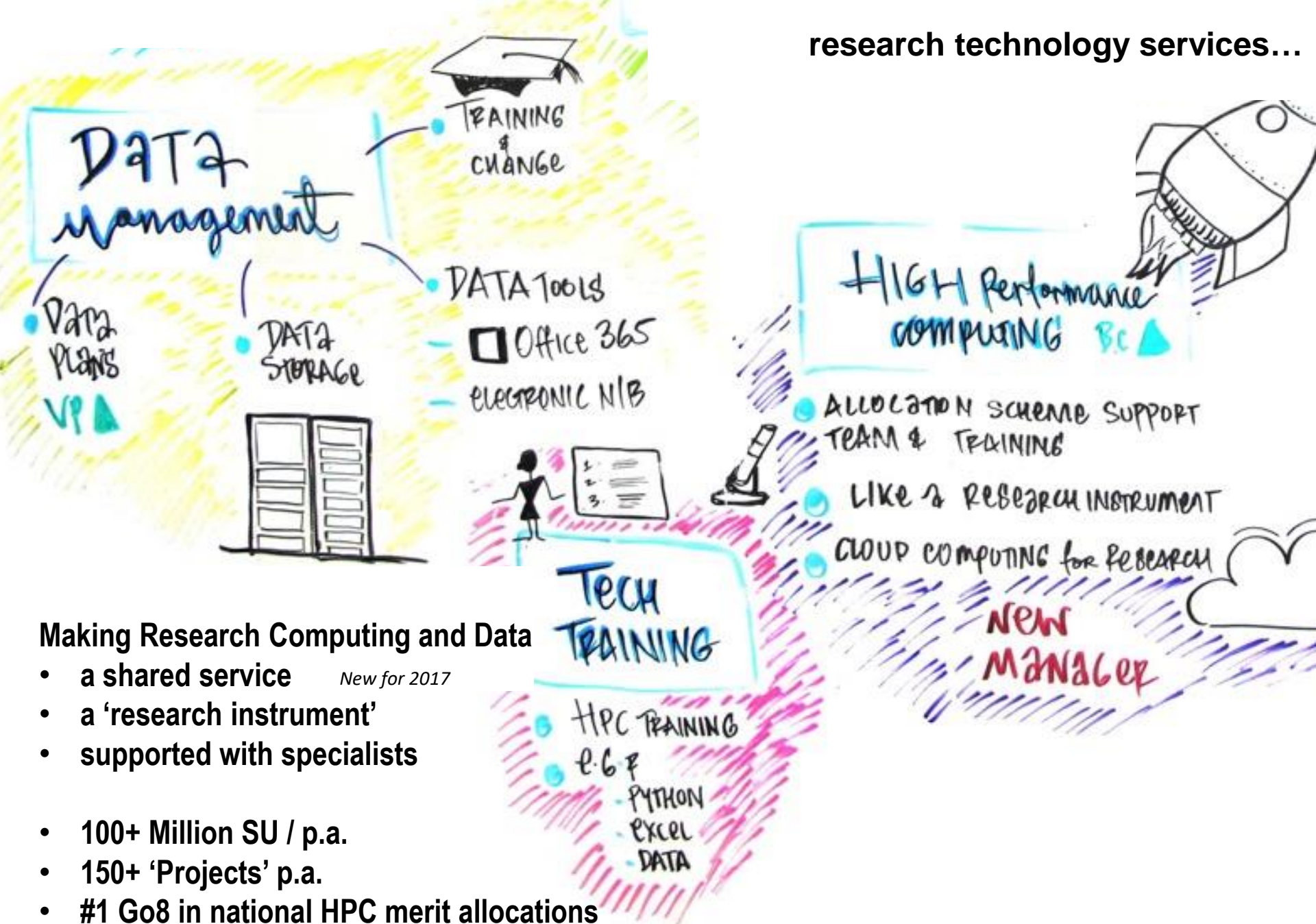
New in 2016   *New for 2017*

- **Services, advice, expertise & training**
- **11 key units**
- **9 new "network labs"**
- **133 major shared instruments**
- **85 Specialist Staff (academic and tech)**

- **Infrastructure Partnerships**
- **2000+ researchers supported p.a.**
- **1000+ publication p.a.**
- **80 + Infrastructure grants**

NCRIS
National Research Infrastructure for Australia

National Imaging Facility

ammrf
Australian Microscopy & Microanalysis Research Facility

NNNA
National NMR Network Australia

DATA management

- Data plans VP
- DATA STORAGE

- TRAINING & CHANGE
- DATA TOOLS
  - Office 365
  - ELECTRONIC NIB

TECH TRAINING
- HPC TRAINING
- e.6 f
  - PYTHON
  - EXCEL
  - DATA

HIGH Performance COMPUTING Bc
- ALLOCATION SCHEME SUPPORT TEAM & TRAINING
- LIKE A RESEARCH INSTRUMENT
- CLOUD COMPUTING for RESEARCH

NEW MANAGER

Making Research Computing and Data
- **a shared service** *New for 2017*
- **a 'research instrument'**
- **supported with specialists**

- **100+ Million SU / p.a.**
- **150+ 'Projects' p.a.**
- **#1 Go8 in national HPC merit allocations**
- **leverages national infrastructure**