



ANSTO and the CDMPP

Richard Garrett

Senior Advisor, Strategic Projects

Science. Ingenuity. Sustainability.

ANSTO Involvement

- Partner in the Stawell Underground Physics Laboratory
- Use of SUPL for high precision high sensitivity metrology
- Collaboration on the SABRE project
- Accelerator Mass Spectroscopy for detector materials
- Annual research grant scheme



Materials testing for SUPL



Test lab at 729m in SGM



ANSTO Environmental
Radiation Lab

ANSTO's Research Fund

- ANSTO will establish a research fund of up to \$50k pa dedicated to ANSTO-related research that ANSTO judges to be of sufficiently high merit.
- The fund will be open to all Centre investigators in an annual application round
- Guidelines and selection criteria being developed
- We anticipate the first round in Q1 next year
- Very open to leverage opportunities

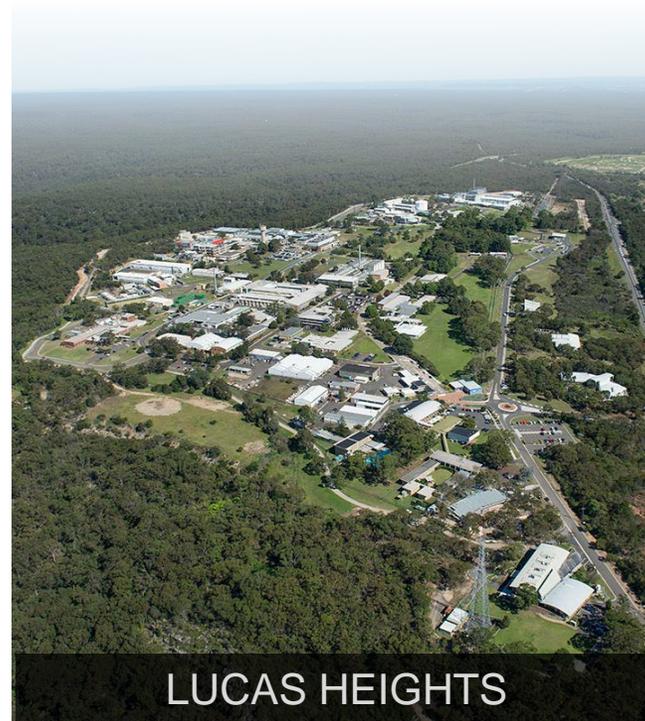
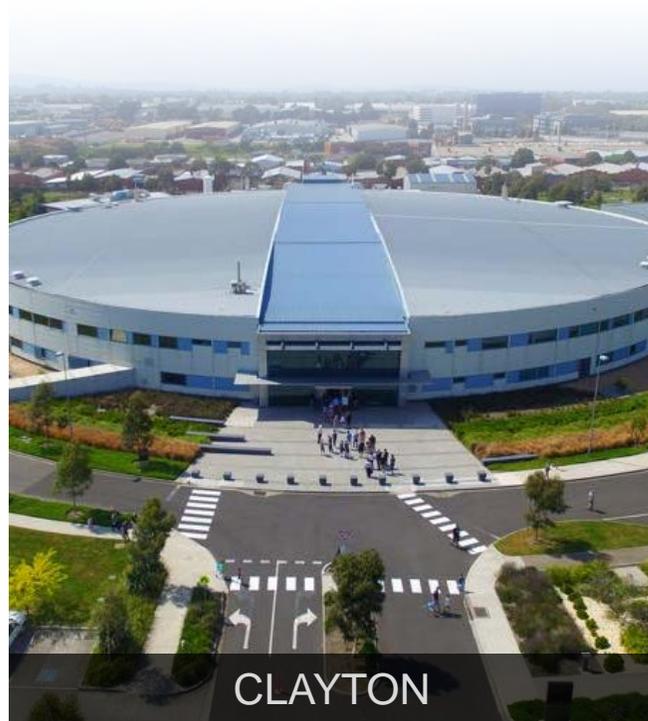
ANSTO overview

Operating safely for over
60 years

Leaders in nuclear science
and technology expertise

Home of Australia's
landmark infrastructure

Three campus locations
across Sydney and Melbourne



NSTLI Research Portfolio

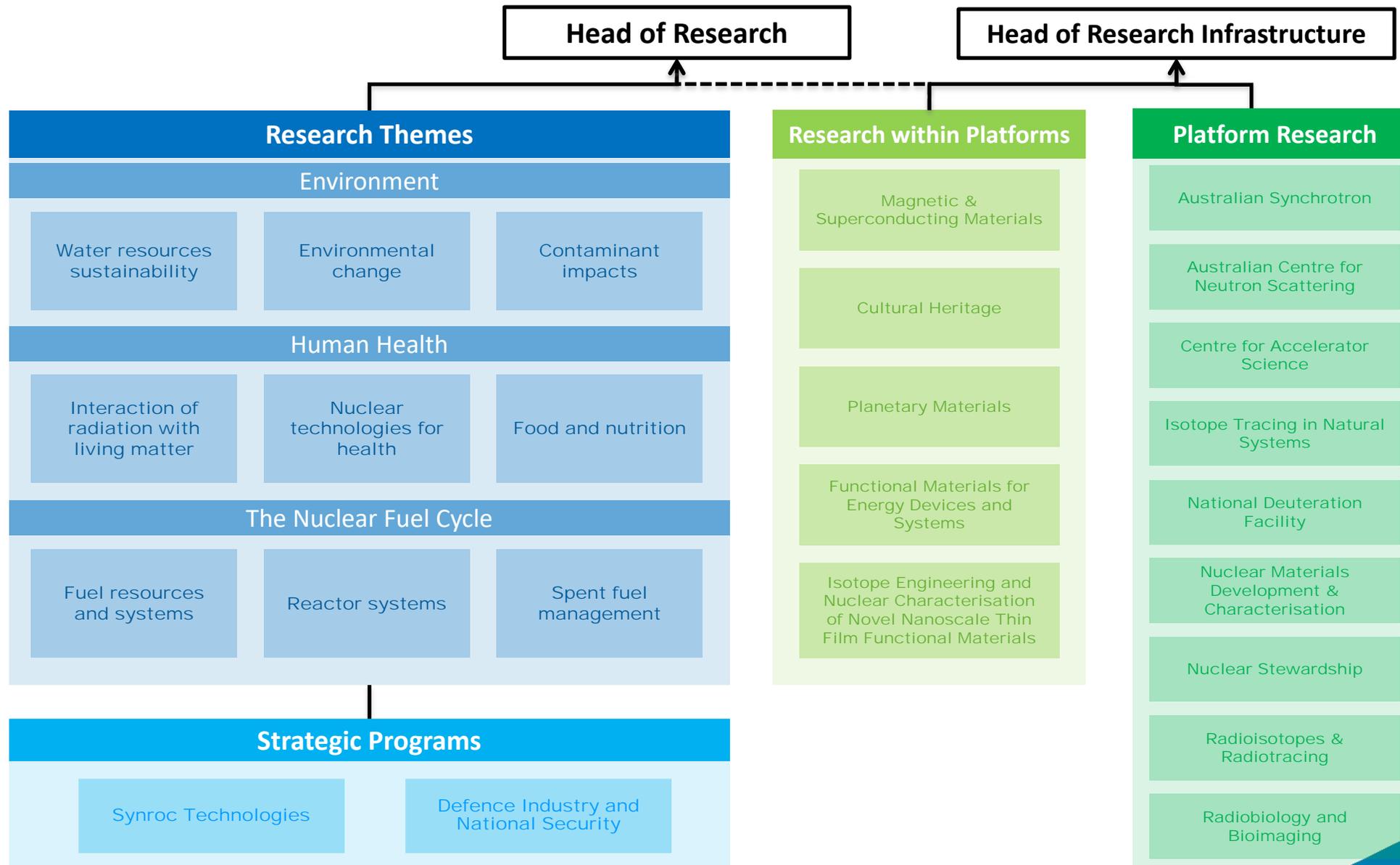
**Research
Themes**

**Strategic
Programs**

**Research
within
Platforms**

**Platform
Research**

Overall Structure of NSTLI Research Portfolio



The Environment

How can we inform sustainable environmental management strategies and add to our capacity to respond to modern environmental challenges?

ANSTO aims to be a major contributor to this question with research programmes focussed on:

1. Understanding the scale and speed of environmental change
2. Sustainability and quality of key water resources and aquatic ecosystems
3. Understanding the pathways & impacts of contaminants in biota and the environment

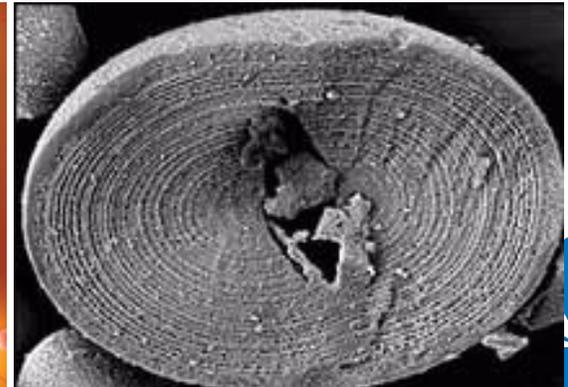
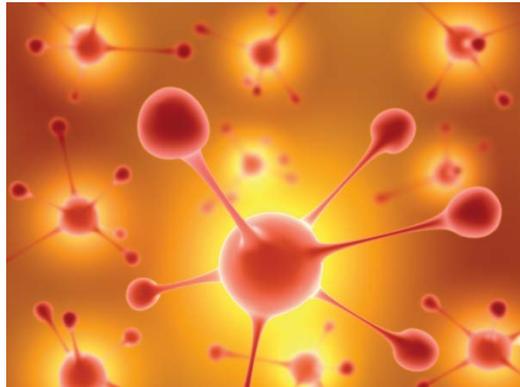
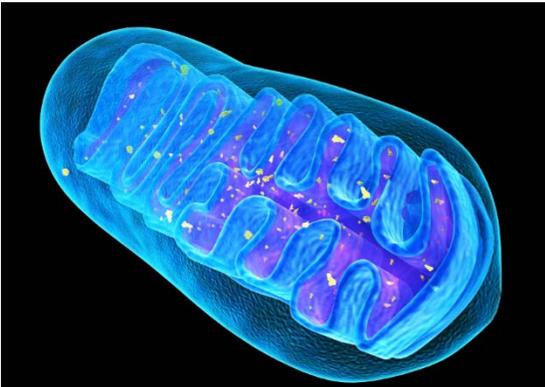


Human Health

How can we contribute to maintaining good health ?

ANSTO aims to be a major contributor to this question with research programmes focussed on:

1. Understanding of environmental risks and their impact on health
2. Optimisation of the impact of radiation on health
3. Mitigating food-related risks to health

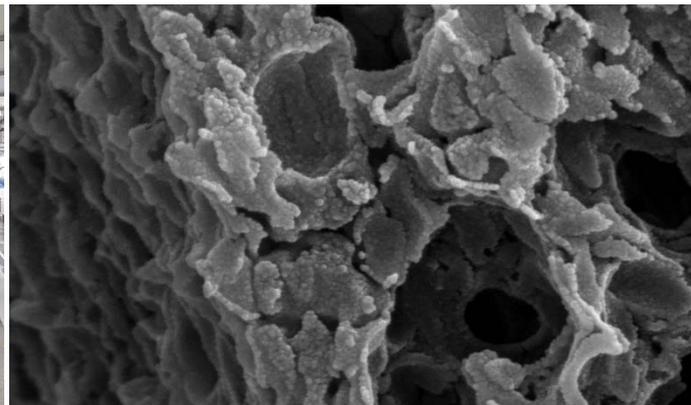
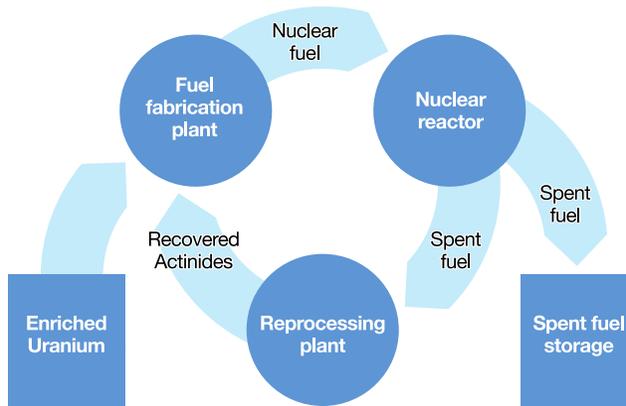


Nuclear Fuel Cycle

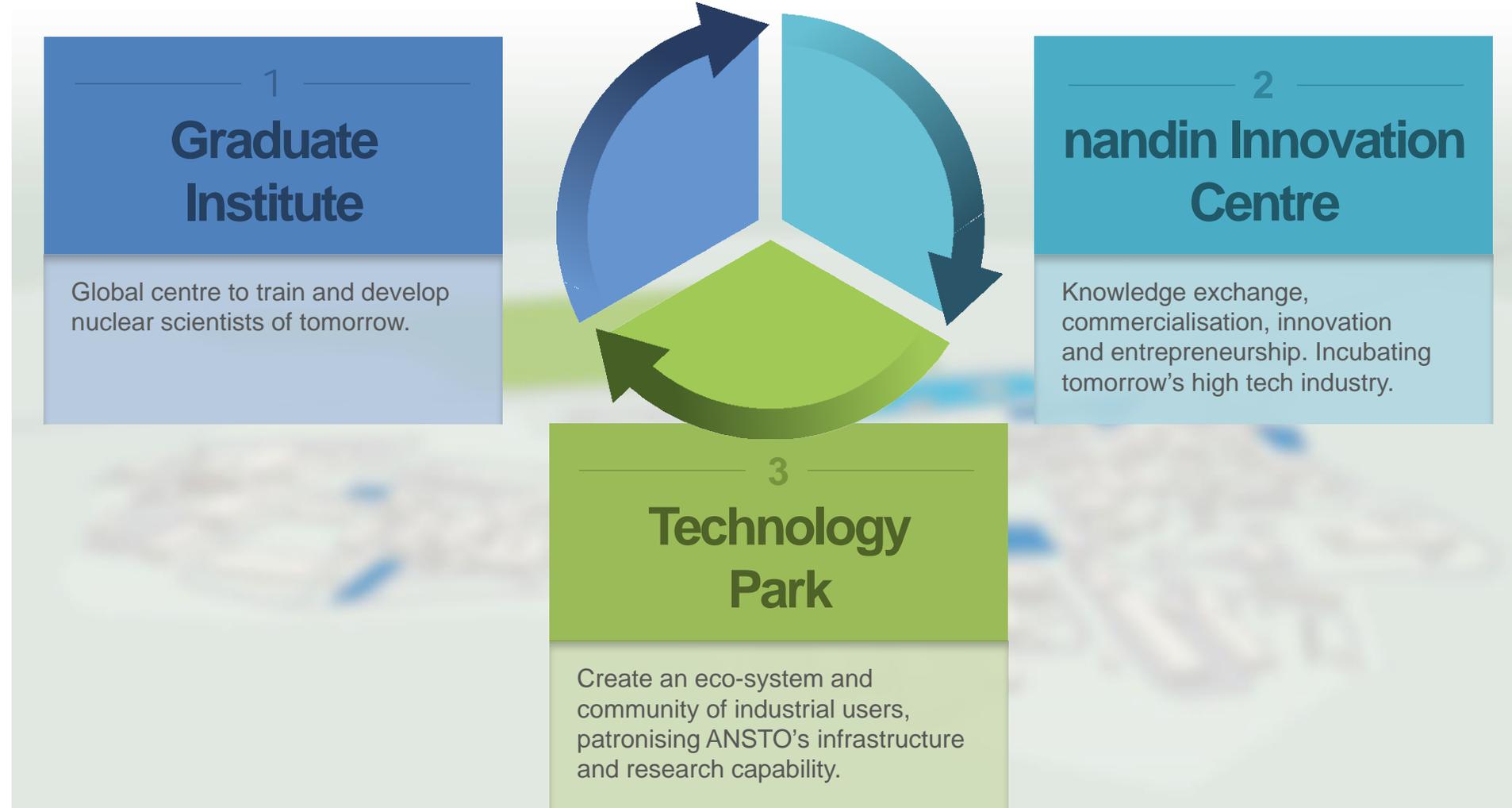
How can ANSTO assist in the development of a sustainable nuclear industry for Australia's future energy and economic security?

ANSTO aims to be a major contributor to this question with research programmes focussed on:

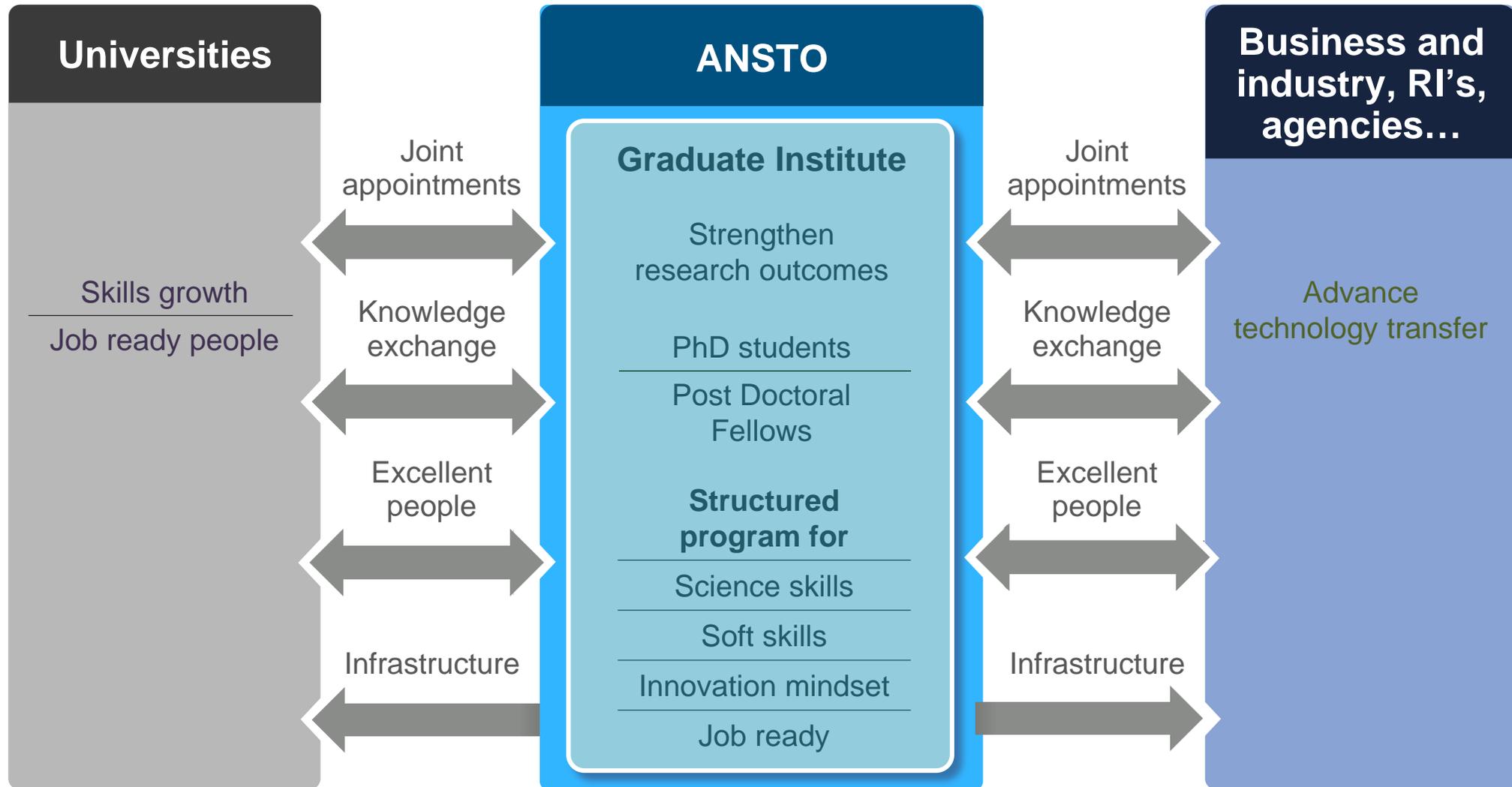
1. Front-end processes – extraction, processing, & development of fuels
2. Safe operation of reactor systems – interactions between materials, effects of radiation on structure and properties of materials
3. Back-end processes – waste conditioning & immobilisation, spent fuel and waste reprocessing



ANSTO Innovation Precinct



Graduate Institute



Administration

Use AINSE established systems for partner relationships; member welfare and training; onboarding

GI Goal

- Create a cohort of graduate students and early career appointments embedded in ANSTO and integrated into the Innovation Precinct that will enhance STEM training and impact.

GI value proposition - connectivity

- Connection to ANSTO – people and infrastructure
- Connection to industry – people, training and ideas
- Connection to each other – cross discipline, cross institution

The GI:

- Is a framework that enhances the HDR/ECR experience at ANSTO
AND
- Provides industry focus and connections
- The GI does not:
 - Substitute for university supervision requirements
 - Diminish the role of the principal supervisor
 - Grant degrees
- Upcoming opportunities
 - New full stipend scholarship
 - New top-up scholarships

Thank you