

Panel Discussion:

The role of publicly funded research institutions in maintaining the skills pipeline for sustainable socio-economic development

An NSTF/Science Councils and Statutory Bodies sector
discussion forum
17-18 October 2023



science & innovation


Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA



Presentation outline

- **Mandate and strategic pillars**
- **Build and transform Human Capital: pipeline development**
- **Build and transform Human Capital: professional development**

Our mandate



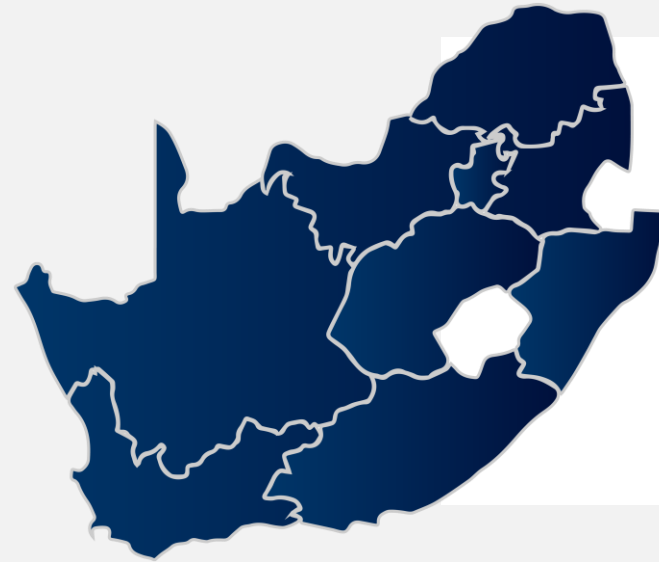
“The objects of the CSIR are, through **directed** and **particularly multidisciplinary research** and **technological innovation**, to foster, in the **national interest** and in fields which in its opinion should receive preference, **industrial** and **scientific development**, either by itself or in **co-operation with principals** from the **private** or **public sectors**, and thereby to contribute to the **improvement of the quality of life** of the people of the Republic, and to perform any other functions that may be assigned to the CSIR by or under this Act.”



(Scientific Research Council Act, 1988 (Act 46 of 1988, amended by Act 27 of 2014))



CSIR at a glance



Pretoria
Johannesburg
Durban
Cape Town
Stellenbosch

2 205

CSIR Total Staff Base

1 674

Black South Africans

989

Female South Africans

1 555

Total SET base

1089

Black South Africans in SET base

608

Female South Africans in SET base

52

Employees with disabilities

471

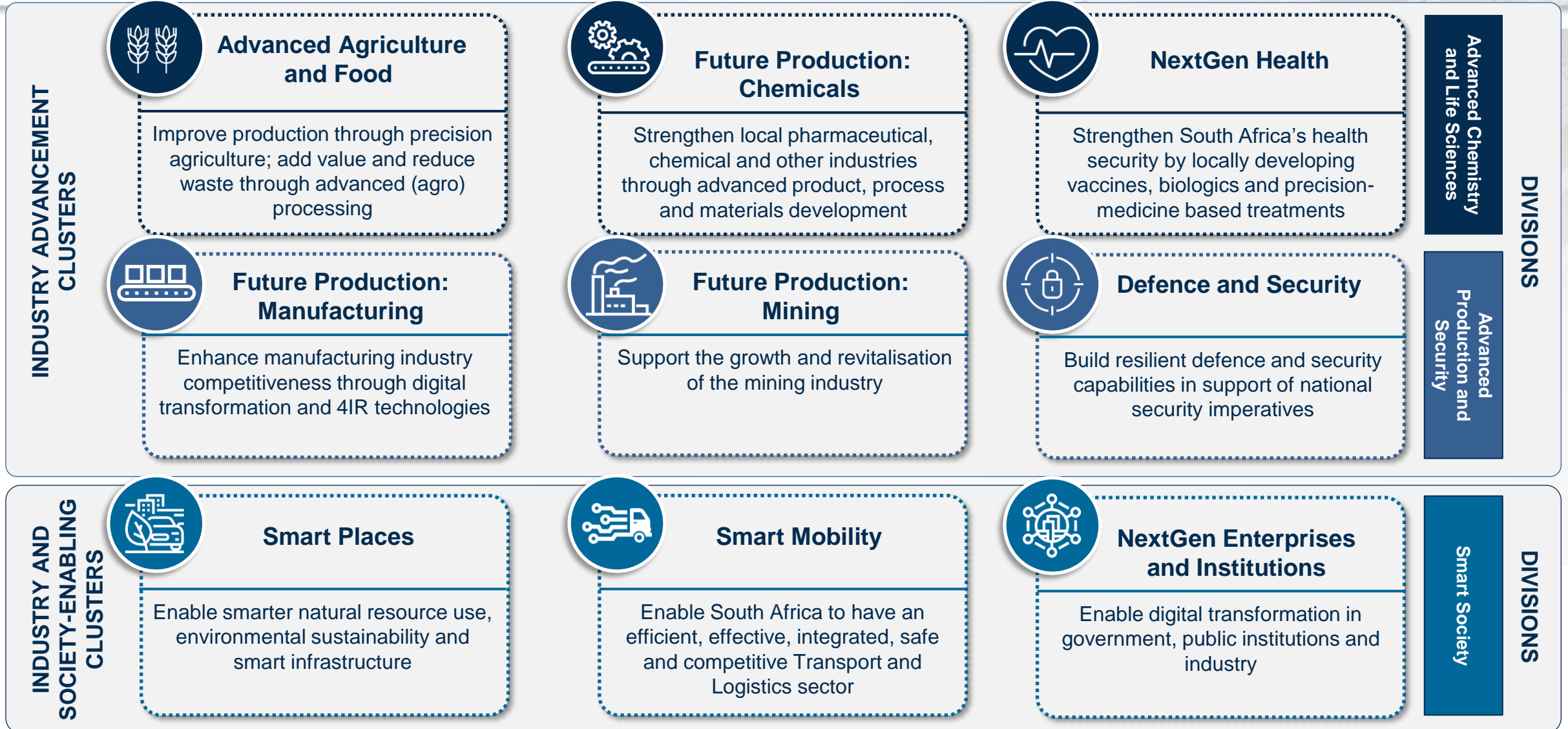
SET base with Master's

311

SET base with PhDs

OUR STRATEGIC CLUSTERS

Positioned to drive South Africa's industrialisation



Pillars of our strategy



STRATEGIC CLUSTERS

Delivering the CSIR Strategic Objectives



HC DEVELOPMENT

Development of relevant skills to support industrial development & the state



STRATEGIC INFRASTRUCTURE

Infrastructure to strengthen scientific and industrial development



CAPABILITY DEVELOPMENT

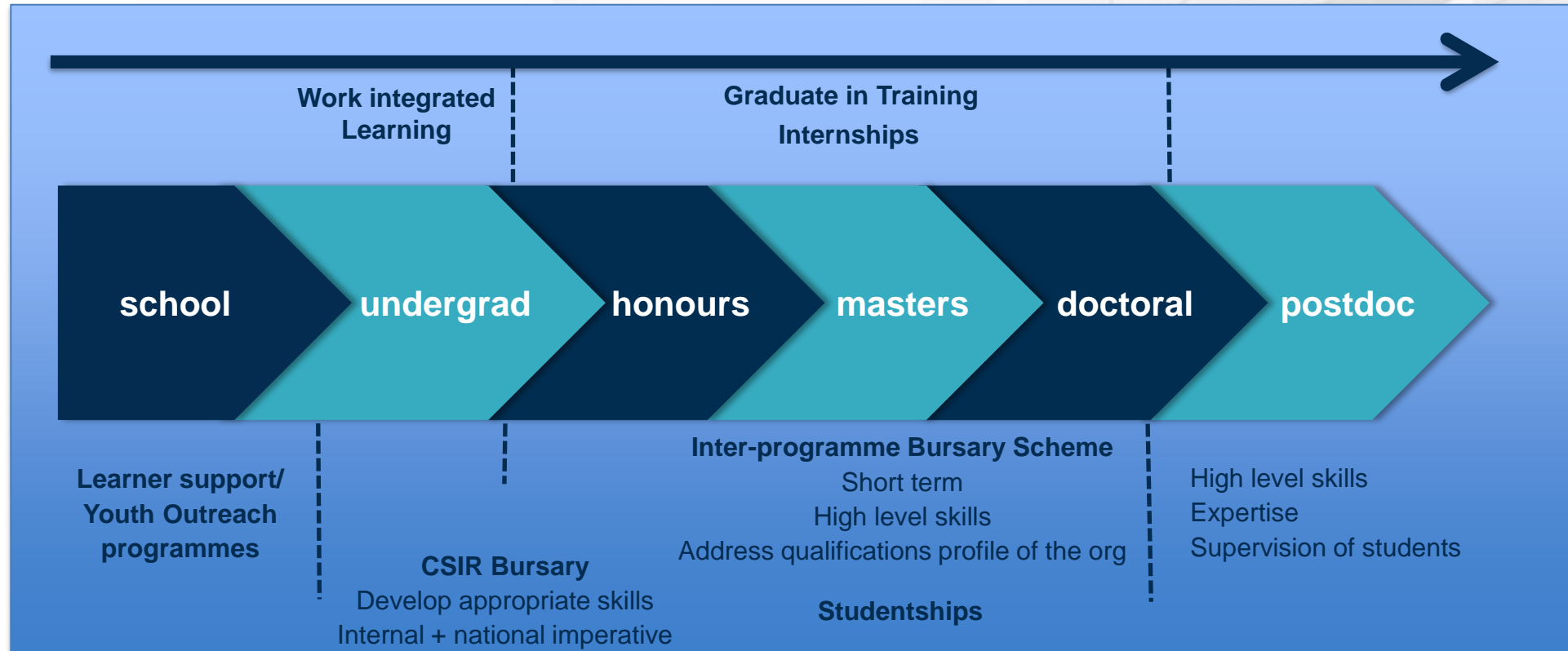
Investing in a relevant, future-facing portfolio of strategic offerings



ENABLING SUPPORT

Support that is agile, digitally enabled, efficient, cost-effective and fit for purpose

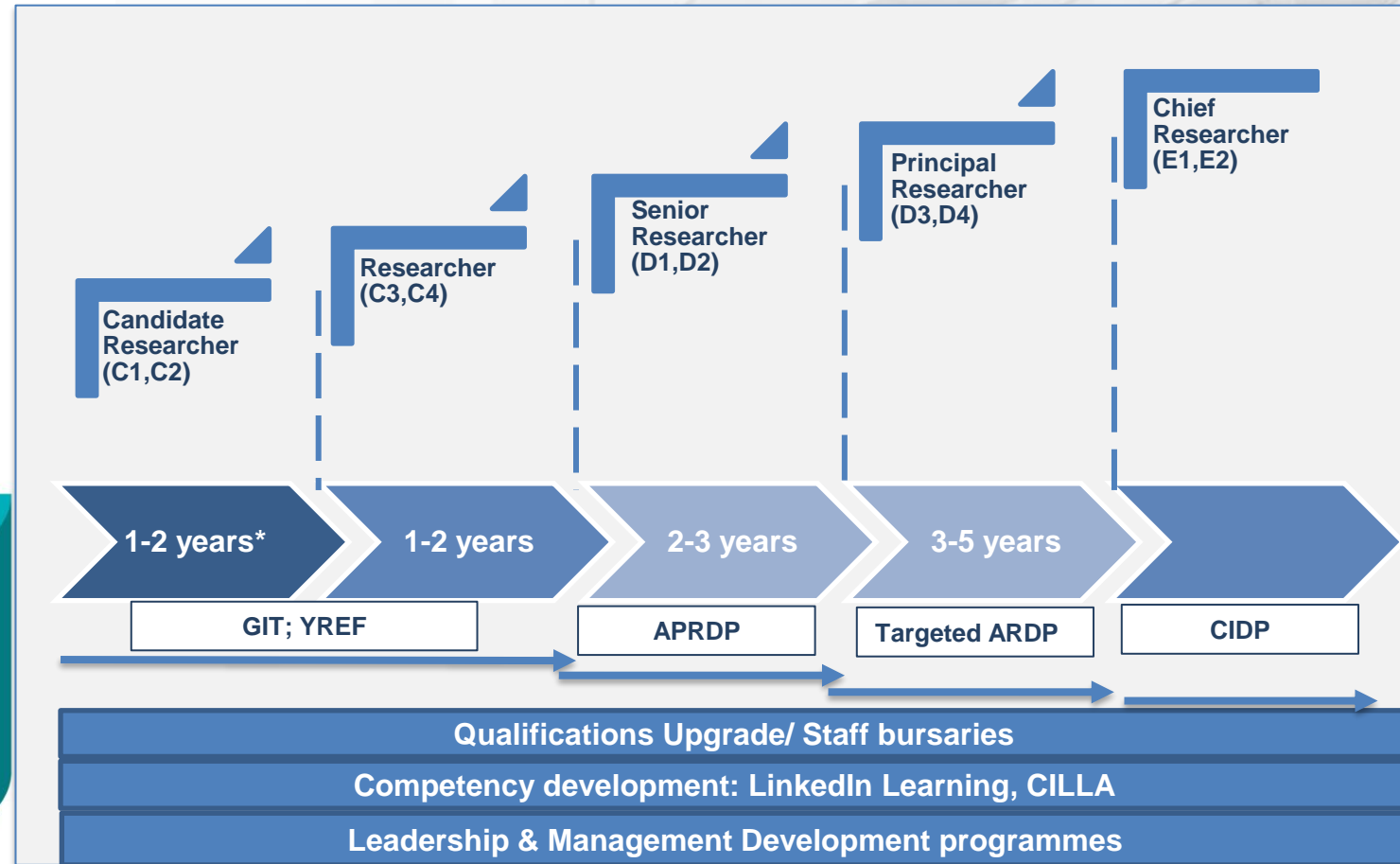
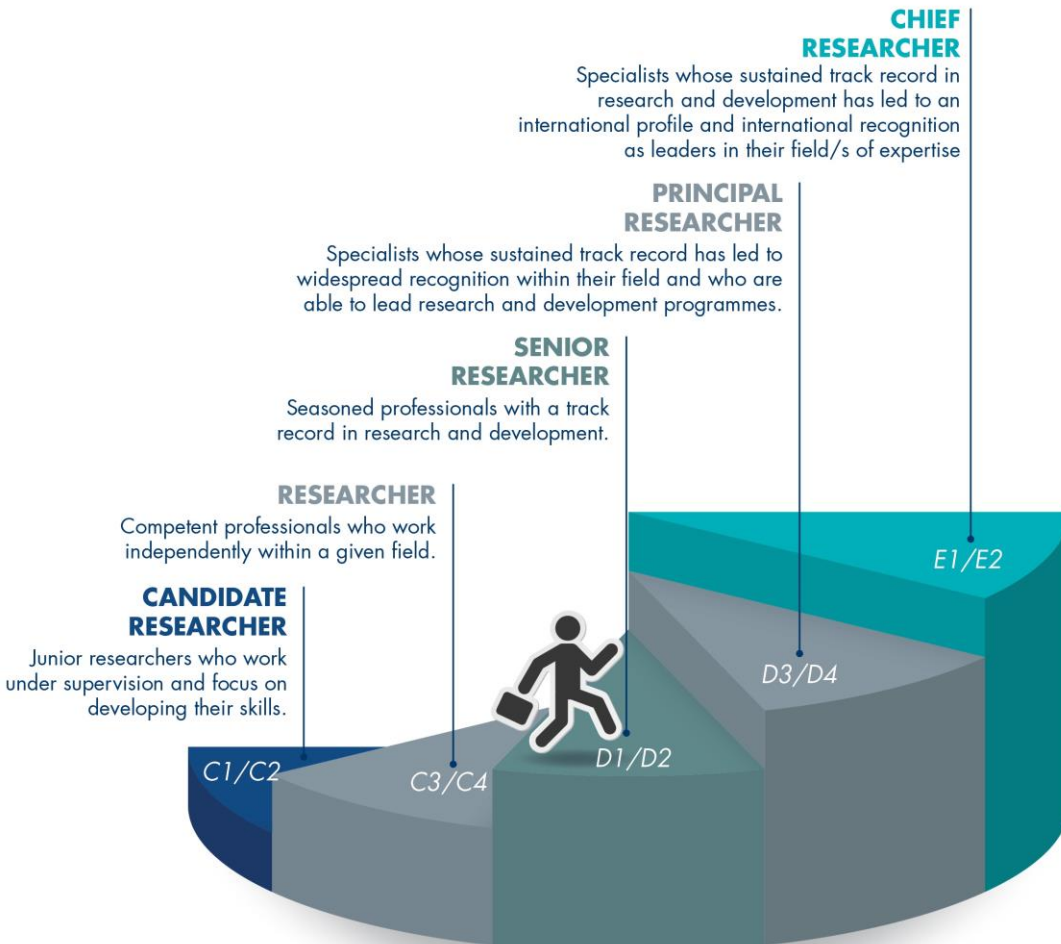
Build and transform human capital: Pipeline Development Programmes



Build and transform human capital

Strategic initiative	Focus and impact
Bursary programmes	<ul style="list-style-type: none">• Targeting undergraduate and postgraduate students to increase the pool of highly qualified individuals in STEM fields.• Partnerships with the DSI, NRF and SETAs.• 399 students sponsored, with 154 at PhD and 121 Masters level.
Graduates-in-Training programme	<ul style="list-style-type: none">• Holistic development of recent graduates to attain professional registration in their areas of expertise.• 30 new candidates appointed in March 2022.• 107 graduates have been supported since the inception of the programme in 2019/20, 38 graduates have been appointed permanently in various clusters within the organisation.
Workplace-based learning programmes	<ul style="list-style-type: none">• Developed a Master Learning Factory to facilitate the development of digital skills• 97 interns supported within the CSIR and a total of 304 interns have been supported since the inception of the programme in 2018/19.• CSIR, DSI, DHET, NSA, NSF and SETAs partnership in advancing Skills of the Future.

Build and transform human capital: Professional Development



principal and chief researchers - an important indicator of the CSIR's capacity to fulfil its mandate and retain its status as a distinguished RTO in the continent.

Build and transform human capital

Strategic initiative	Focus and impact
Outreach & CSI	<ul style="list-style-type: none">• Supported 1767 Grade 10-12 learners for Mandela Day.• Supported 7 High Schools (four schools in rural areas) with painting of classrooms; donation of laboratory equipment, office furniture, laptops and mathematical instruments.• Youth outreach programme with focus in rural areas• Annual CSIR Science Day
YES initiative	<ul style="list-style-type: none">• Develop and impart skills, as well as create job opportunities for unemployed youth.• First SOE to implement this programme.• The CSIR has 74 youths on board. The youths were placed at both the CSIR and its partnering SMMEs that are aligned with the organisation's RD&I.• Since inception in 2020, 219 unemployed youth have been supported by the CSIR.

The background is a dark blue gradient. On the left side, there is a complex, semi-transparent graphic consisting of overlapping circles, lines, and geometric shapes in lighter shades of blue and white, creating a technical or network-like aesthetic. The text "Thank you" is centered in the middle of the image in a white, sans-serif font.

Thank you