



SOUTH AFRICAN NATIONAL SURVEY OF RESEARCH AND EXPERIMENTAL DEVELOPMENT

KEY SECTOR RESULTS AND TRENDS

SCIENCE COUNCILS SECTOR R&D AT A GLANCE

R&D performed by science councils, in areas such as space science, agriculture, industrial development, or health, informs critical policy decisions by government and other actors, as well as catalyses innovation. R&D expenditure in science councils declined in 2018/19 by 13.8%. Whether by research field or socio-economic objective, investment closely mirrored national priority areas, such as economic development, health, agriculture and education. Growing public and private sector R&D investment should be a priority.

FACT SHEET NO. 27

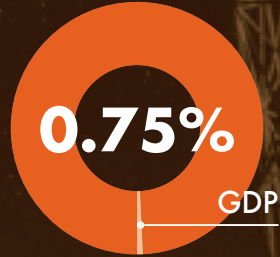
THE BIG PICTURE



THE VALUE OF **SOUTH AFRICA'S GROSS DOMESTIC PRODUCT (GDP)** IN 2018/19



THE SHARE OF **GDP SPENT ON R&D**



SOUTH AFRICA'S ANNUAL R&D SPEND HAS INCREASED OVER THE PAST DECADE:

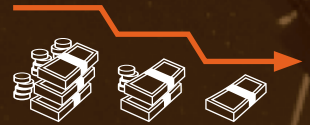
**R 20.955
BILLION**
IN 2009/10

**R 36.784
BILLION**
IN 2018/19

SCIENCE COUNCIL R&D EXPENDITURE DECREASED BY



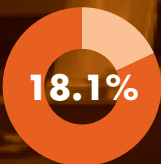
**R 869
MILLION**



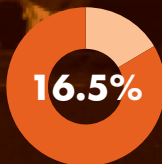
R&D SPENDING PATTERNS



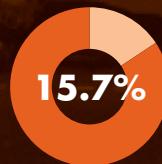
RESEARCH FIELDS WITH THE HIGHEST R&D EXPENDITURE:



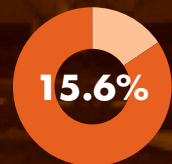
MEDICAL & HEALTH SCIENCES



AGRICULTURAL SCIENCES

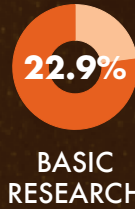
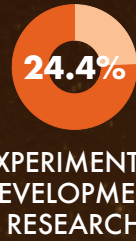


INFORMATION & COMMUNICATION TECHNOLOGY



ENGINEERING SCIENCES

BREAKDOWN OF SCIENCE COUNCIL SECTOR **R&D SPEND** BY **TYPE OF RESEARCH**:



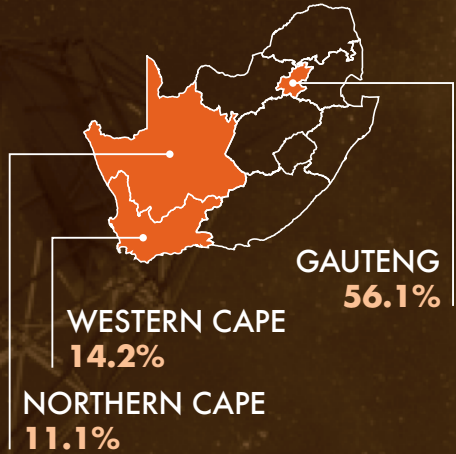
SCIENCE COUNCILS INVESTMENT IN SPACE SCIENCE AMOUNTED TO

R 594 MILLION

IN 2018/19



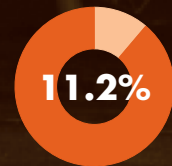
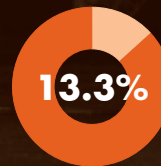
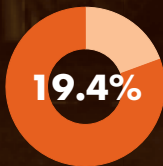
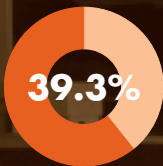
SCIENCE COUNCIL R&D IS **SPATIALLY MORE DOMINANT** IN:



BENEFITS OF R&D SPENDING



SCIENCE COUNCILS SECTOR **R&D EXPENDITURE** BY **SOCIO-ECONOMIC OBJECTIVE**





BEHIND THE NUMBERS

The annual South African National Survey of Research and Experimental Development (R&D Survey) is conducted by the Centre for Science, Technology and Innovation Indicators (CeSTII) at the Human Sciences Research Council (HSRC), on behalf of the Department of Science and Innovation (DSI). R&D statistics are collected in terms of the Statistics Act No. 6 of 1999, and are quality assured by Statistics South Africa. Data collected through the Survey, and its historic data series, helps to inform decision-makers on investment planning, policy making, advocacy, and research in South Africa. Data also adds to benchmarking and performance comparisons with our international counterparts.

Access previous survey reports: <http://www.hsrc.ac.za/en/departments/CeSTii/reports-cestii>
Data and analysis for this publication was prepared by Luthando Zondi and Dr Mario Clayford.

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