# SOUTH AFRICAN NATIONAL SURVEY OF RESEARCH AND EXPERIMENTAL DEVELOPMENT 2017/18

#### **KEY SECTOR RESULTS AND TRENDS**



South African science councils form an integral part of the national system of innovation. R&D performed by science councils, in areas such as the social sciences, health, agriculture, industrial development, or water, inform critical policy decisions by government, as well as other actors. This fact sheet demonstrates the profile of R&D expenditure in science councils in 2017/18: between 2008/09 and 2017/18 for example, both annual R&D expenditure and R&D capital expenditure doubled. R&D spending by research field and socio-economic objective in 2017/18 closely mirrored national priority areas, such as economic development, health, and education.

### FACT SHEET NO. 23







### THE BIG PICTURE



THE VALUE OF SOUTH AFRICA'S GROSS DOMESTIC PRODUCT (GDP) IN 2017/18



, R **4 653.579** BILLION

THE SHARE OF GDP
SPENT ON R&D



0.83%

SOUTH AFRICA'S

ANNUAL R&D

SPEND INCREASED

FROM:

R 21.041 BILLION IN 2008/09 R 38.725 BILLION IN 2017/18

SCIENCE COUNCIL R&D EXPENDITURE STEADILY INCREASED FROM: R 3.137 BILLION IN 2008/09



R 6.313 BILLION IN 2017/18

R&D SPENDING PATTERNS IN 2017/18



ANNUAL CAPITAL EXPENDITURE HAS GROWN STEADILY:

R 0.384

BILLION IN 2008/09







BILLION IN 2017/18

### **RESEARCH FIELDS WITH THE HIGHEST R&D EXPENDITURE:**



**ENGINEERING** SCIENCES 18.6%



**INFORMATION &** COMMUNICATION **TECHNOLOGY** 17.8%



MEDICAL & HEALTH **SCIENCES** 16.2%



**AGRICULTURAL SCIENCES** 15.7%

**INVESTMENT IN ENVIRONMENT-RELATED R&D INCREASED** SIGNIFICANTLY:



6.9% 15.1% IN 2017/18





THE SHARE OF R&D IN NANO-TECHNOLOGY HAS **DOUBLED** FROM:









IN 2016/17 — (TO) IN 2017/18



## BENEFITS OF R&D SPENDING 2017/18 (&)



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



**DIVISION 1: DEFENCE** 14.5%



**DIVISION 2: ECONOMIC** DEVELOPMENT 41.6%



**DIVISION 3:** SOCIETY 15.5%



**DIVISION 4:** 12.4%



**DIVISION 5:** ENVIRONMENT ADVANCEMENT **OF KNOWLEDGE** 16.0%

### **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

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