

# SOUTH AFRICAN SCIENCE, TECHNOLOGY AND INNOVATION INDICATORS

# 2017

## KEY STI TRENDS

**57<sup>TH</sup>**

World ranking on Global Innovation Index

**39<sup>TH</sup>**

World ranking on Innovation and Sophistication Factors (part of GCI)

**51.1%**

New entrepreneurs innovating with technology for less than five years

## ECONOMIC IMPACT OF STI

**30.5%**

Medium-technology exports as a share of country merchandise exports

**40%**

High-technology exports as a share of country merchandise exports

**7.1%**

Low-technology exports as a share of country merchandise exports

## ENABLERS: PUBLIC SECTOR ACTIVITIES

**18%**

Proportion of engineering doctoral degrees awarded to female graduates

**19<sup>TH</sup>**

World ranking of publications on social sciences, arts and humanities

**0.8%**

GERD as a percentage of GDP

**3.6%**

Government funding of BERD

## SOCIAL IMPACT OF STI

**64 years**

Life expectancy at birth

**7.2%**

Deaths due to TB, as leading underlying cause of death

**7.1%**

Diabetes mellitus as leading underlying cause of death for females

**66<sup>TH</sup>**

World ranking on Social Progress Index

## FIRM-LEVEL STI ACTIVITIES

**42.7%**

BERD as a proportion of GERD

**39%**

Venture capital active funds funded by government

**7**

Active public-private partnerships in the energy sector

**32<sup>TH</sup>**

World ranking of South African patents granted by USPTO

## KEY SELECTED STI THEMES

*(Industry 4.0 and Regional Innovation)*

**0.52%**

World share of publications in Industry 4.0 scientific disciplines

**45.4%**

Gauteng's share of the country's R&D expenditure

**31.8%**

Western Cape's share of the higher education R&D expenditure



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