Government’s role in science, technology and innovation investments

NEPAD – OECD
4th Annual Ministerial Meeting
11-12 November 2009, Johannesburg, South Africa
INVESTING IN THE NATIONAL SYSTEM OF INNOVATION

OECD typology

OSLO ‘STI’

OSLO ‘STS’

OSLO ‘STET’

Type 1

Type 2

Type 3

Economic performance

Competitiveness and economic growth

Optimising productivity

Assimilating Science and Technology competencies

INVESTING IN THE NATIONAL SYSTEM OF INNOVATION
Scientific and technical education and training

- Activities comprising specialised non-university higher education and training;

- Higher education and training leading to a university degree,

- Post-graduate and further training,

- Organised lifelong training for scientists and engineers.

- Includes bursaries provided by departments for own employees pursuing qualifications in science and technology fields
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Scientific and Technological Services

- Defined as activities concerned with supporting research and experimental development and contributing to the generation, dissemination and application of scientific and technical knowledge.

- Includes activities such as patenting, geological surveys, standards generation, operation of libraries and scientific databases, scientific congress and symposia, control and testing of materials.
Science, Technology and Innovation

- Includes R&D transfers to universities, science councils and science & Technology agencies, private enterprises, public corporations and non-profit organisations.
- Expenditure that relates to transformation of ideas into new or improved products introduced on the market;
- New or improved operational processes used in industry;
- New approaches to a social service.
In 2005, the South African National Treasury incorporated, in its Estimates of National Expenditure document, requirements for government departments to provide reports on their expenditure on scientific and technological activities.

National Treasury submits this data to the Department of Science and Technology in February each year and from March to June, a verification process is undertaken with each department.

ZAR 12,2 billion recorded for 2008/09.
INVESTING IN THE NATIONAL SYSTEM OF INNOVATION

Main spending Departments:

- Science & Technology
- Public Enterprises
- Agriculture
- Minerals & Energy
- Health
- Trade & Industry
- Defence
- Environmental Affairs
THANK YOU