

#### Background

Centre for Science, Technology and Innovation Indicators (CeSTII) commissioned to conduct Annual R&D Surveys and regular Innovation Surveys to establish a baseline set of indicators for DST to monitor progress in achieving NSI/R&D Strategy goals

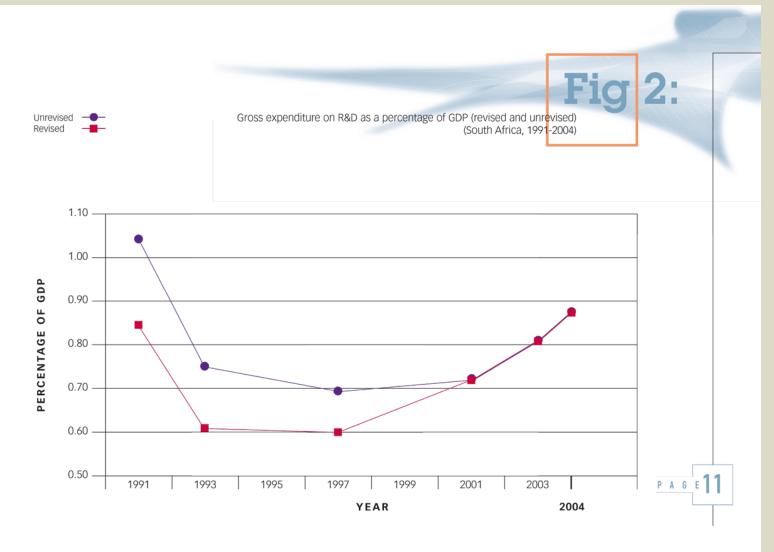


#### **R&D Surveys**

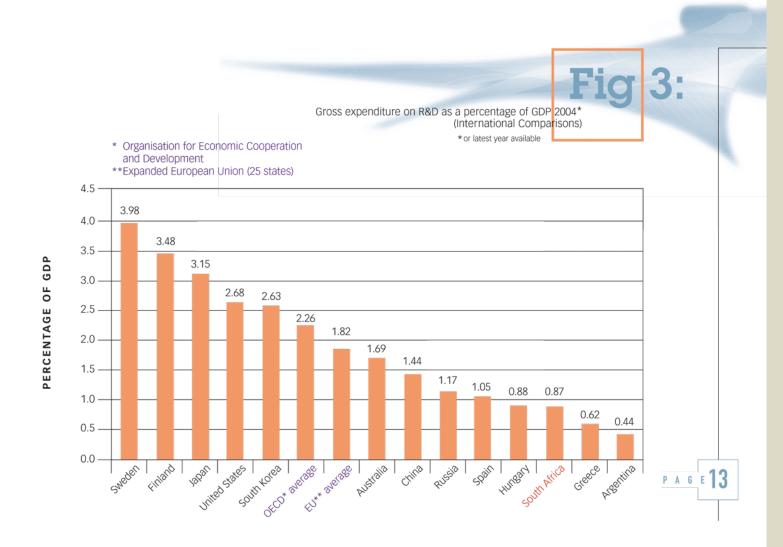
- CeSTII has now undertaken the third in a new official series of R&D Surveys
- 2004/05 R&D Survey Results launched by Minister of S&T in Parliament on 22 June 2006
- Will be making connections between R&D and innovation surveys (64% of innovative firms are active in R&D)



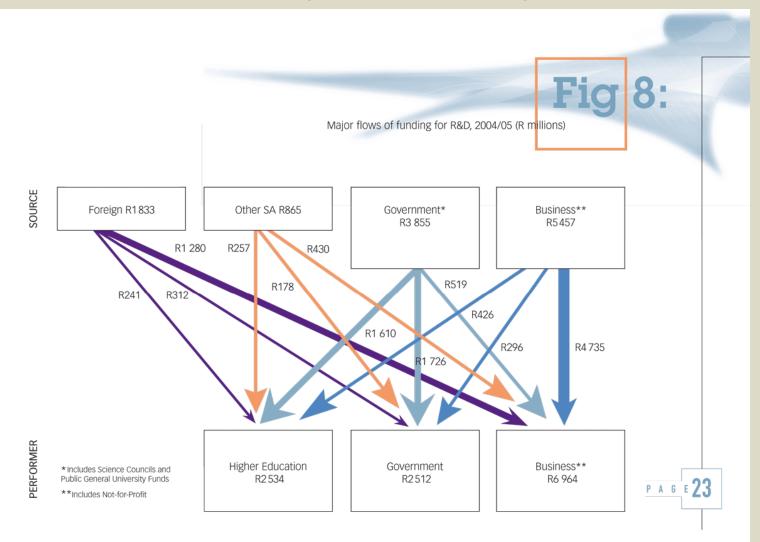
# GERD as a percentage of GDP (revised and unrevised)1991-2004



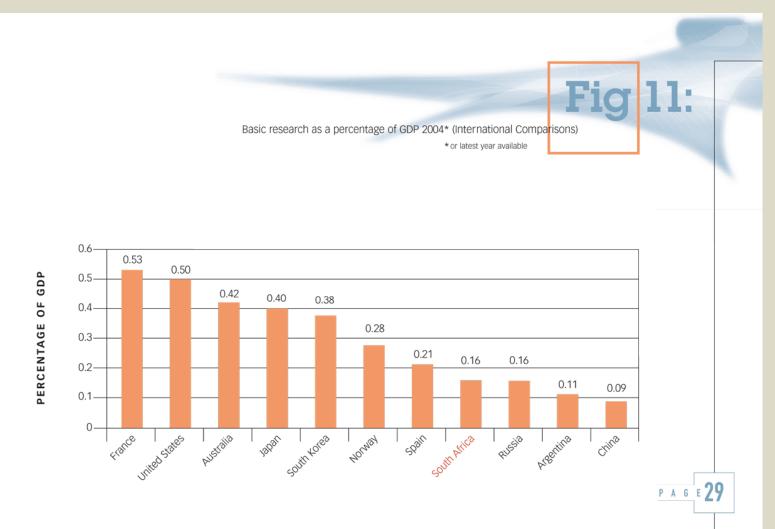
# GERD as a percentage of GDP (International Comparisons 2004)



## Major flows of funding for R&D 2004/05 (R millions)



### Basic research as a percentage of GDP 2004 (International Comparisons)



#### **Innovation Surveys**

- Two previous unofficial surveys of Innovation in South Africa
- Innovation Survey 2005 compatible with Community Innovation Survey 4 (CIS4) of EU



#### FRD/ISP 1994 Survey

- Modelled on first CIS
- Very small budget from international donors
- Confined to manufacturing sector
- Tended to focus on known R&D performers or innovators – 78.7% innovative
- Low response rate (8.9%)
- R&D expenditure poor proxy for innovation
- Proved useful for lobbying for greater government support for official S&T surveys



### U.Pretoria/U.Eindhoven 2000 Survey

- Based on CIS2
- Better funded
- Sample based on commercial database
- Random sample by sector (not size)
- Postal, internet and telephonic survey
- Student workers
- Low response rate (8.4%)
- 52% of South African manufacturing firms innovative



### Purpose of the South African Innovation Survey 2005

- International comparisons of innovation survey results important for S&T Policy development
- CIS4 a sophisticated and useful survey for comparisons
- Important for South Africa to have regular and reliable survey based data on Innovation & R&D to report on the development of the NSI



#### **Eurostat CIS4**

- March 2001 Eurostat open request to all non-EU countries to use core CIS questionnaires and methodology to allow international comparisons
- Followed the same format of questions and basic methodology as CIS4 to allow international comparisons but piloting took account of South African terminology and business environment



#### Eurostat CIS4 (cont.)

- Support and advice from OECD NESTI, Eurostat, StatsSA, DST, NACI and UP important in shaping the South African Innovation Survey 2005
- Tabulated basic results to Eurostat from members by 30 June 2006
- First results from South African Survey now being processed



#### **Approach**

- Random, stratified sample of 3087
  enterprises from Statistics SA business
  register (official statistics agreement with
  DST)
- Survey call centre (6 agents+manager)
  - Cleaned sample plus managed sectors
- Two pilot surveys
- Stakeholders workshop for buy in
- High quality questionnaire
- Non-response survey to control bias



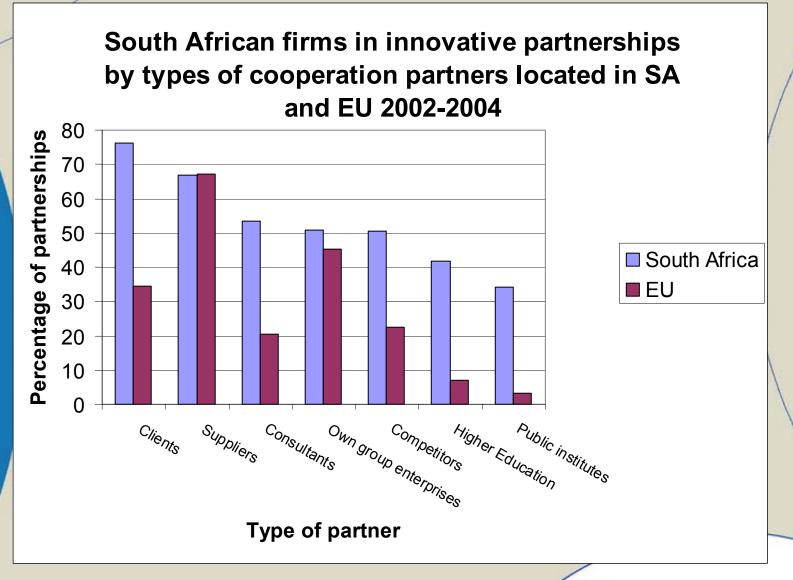
#### Preliminary trends (unweighted)

- Non-response survey only recently completed and still busy with analysis and weightings
- A 32% survey response rate (previously 8.9% and 8.4%) – Survey reluctance is high but survey call centre effective
- Non-response survey a 98% response rate
- About 60% of respondents innovative



#### Location of co-operation partners of innovating South African firms 2002-2004 Percentage of co-operation partners 60 50 40 30 20 10 0 **USA** Rest of South Europe Asia Other **Africa Africa**







#### **Innovative South Africa**

- Strong but relatively small core of researchers and innovators across institutions and sectors – to expand capacity
- Historically a strong manufacturing sector but increasing services R&D and innovation
- Numerous programmes and support measures for R&D and innovation + new R&D tax incentives coming
- Diversity of natural resources stimulating for R&D and innovation
- Strong political, economic and trade links with other African countries - new R&D and innovation linkages



### Thank You

