



CSTD 2011 – 2012 Inter-Sessional Panel

South Africa's ICT R&D and Innovation Strategy

Manila, Philippines
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Outline

SA R&D Statistics

ICT RDI
Investment

SA ICT RDI
Strategy

The ICT RDI
Roadmap

The Road
Ahead



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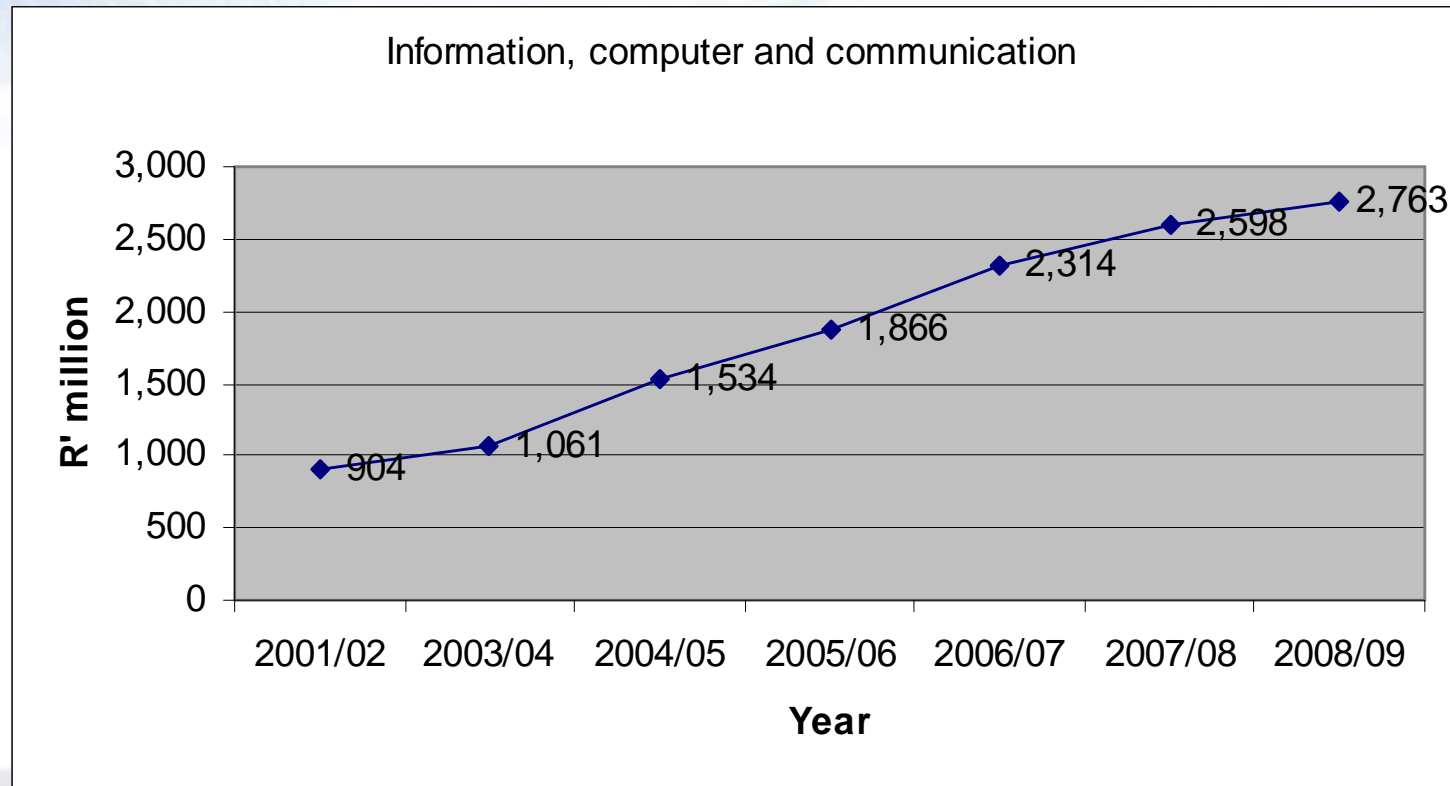
South African R&D Investment

Indicator	2007/08	2008/09
Gross domestic expenditure on R&D (GERD) – R' Millions	18 624	21 041
GERD as a percentage of GDP	0.93	0.92
ICT expenditure on R&D as a percentage of GERD	14.0	13.1
ICT GERD as percentage of GDP	0.12	0.13

Source: DST/HSRC – National Survey of Research and Experimental Development (2008/2009 Fiscal Year)

Ideal Target: GERD = 1.5% of GDP by 2014 and 2% of GDP by 2018

ICT R&D Investment



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ICT RDI Strategic Imperatives

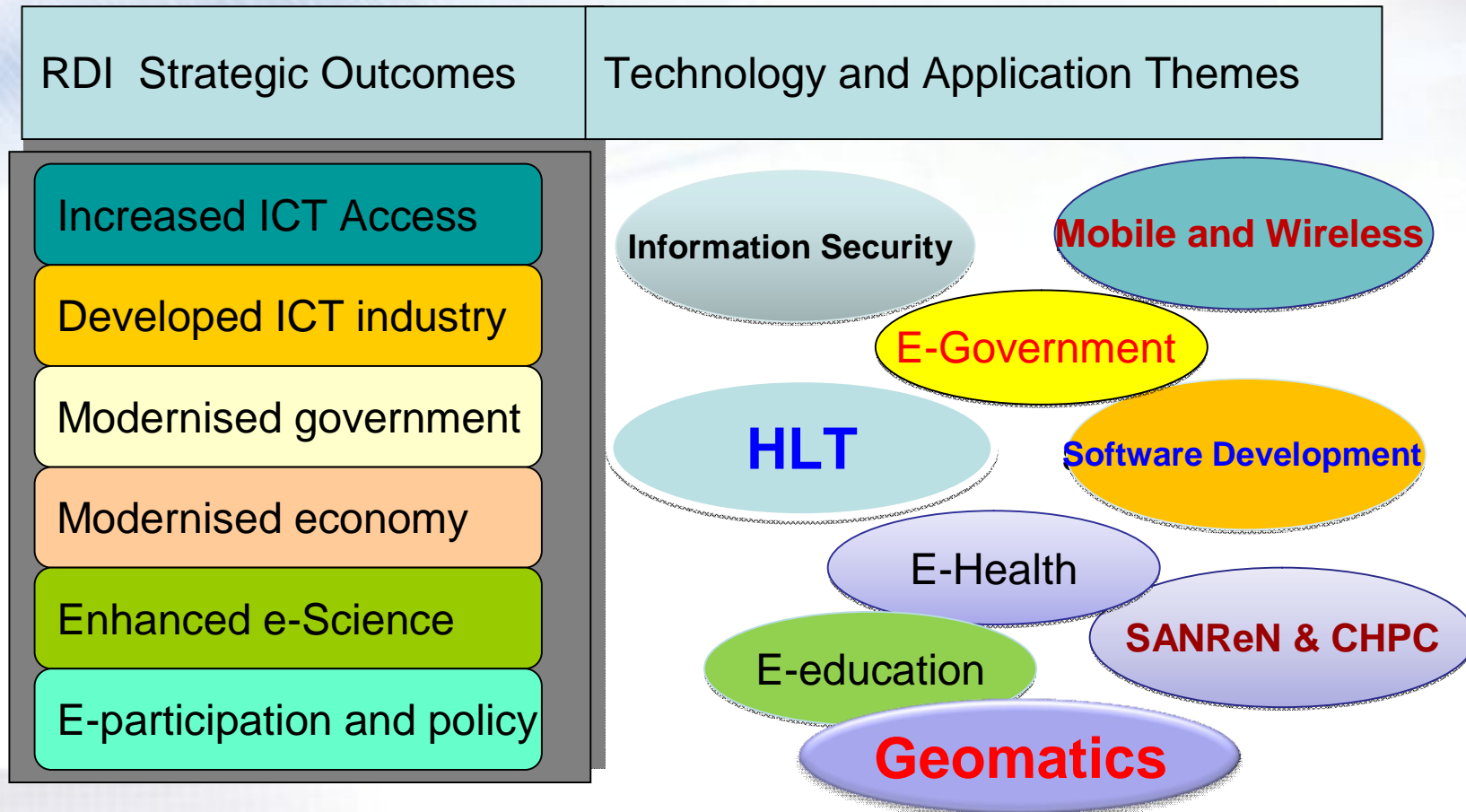
- Strategic Objectives
 - Focused world-class research
 - Strong innovation chain leading to increased ICT patenting, reduced digital divide and vibrant high-tech ICT industry
 - Advanced human resource capacity
- Pillars/CSFs for the ICT RDI strategy
 - Effective research infrastructure
 - Effective **government, research community, industry and international cooperation**
 - ICT policy and institutional support
 - Adequate funding



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ICT RDI Outcomes & Tech Domains



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The South African ICT R&D and innovation implementation roadmap



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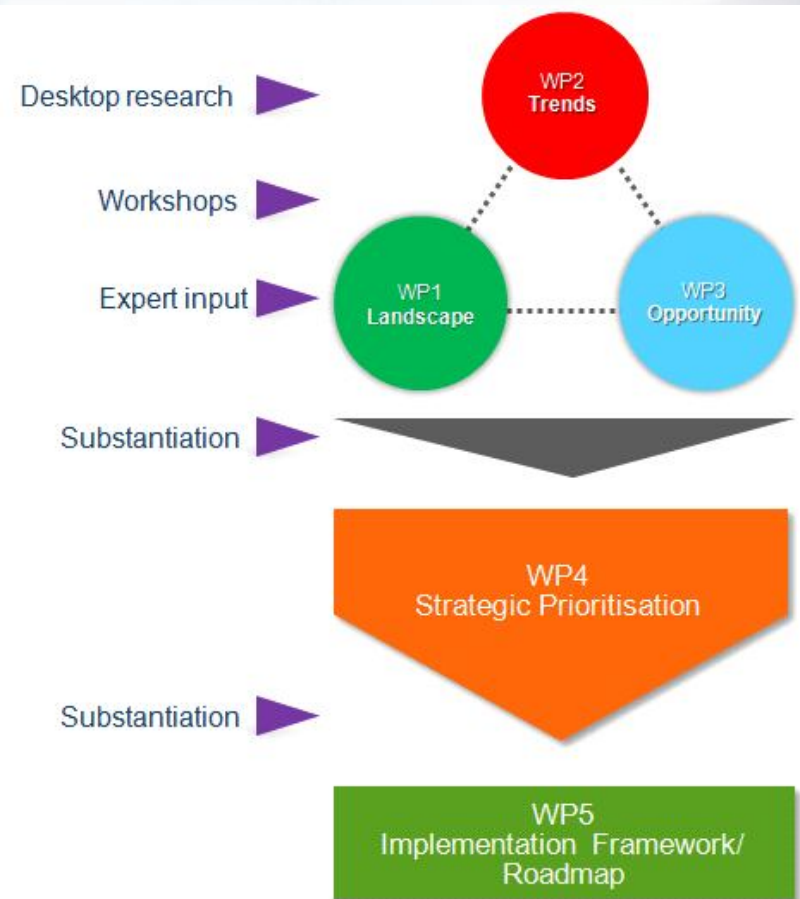
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The SA ICT RDI Roadmap: Methodology

Purpose

1. Enable increased **public** and **private investment in ICT RDI** (by a factor of 3 to 4) by providing a mechanism to forecast technology developments in targeted areas; identifying critical areas that must be developed to meet SA's socio-economic objectives ; and by surfacing and demonstrating the ICT research community and sector's understanding and agreement on the **trends, market potential, priorities and investment** requirements

2. Provide a **framework to plan** and coordinate technology developments both nationally and regionally – to enable **sophisticated decision making**



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Vision: Digital Divide to Digital Advantage

Our vision is for a South Africa that has **overcome** the Digital Divide; by leveraging advances in ICT to address socio-economic challenges, it has created **Digital Advantage**.

Through **sound investment** and **effective coordination of ICT R&D and innovation activities**, we have established these conditions:

- ▶ Advanced **human capital and strong and institutional capacity**, enabling critical mass for research in focus domains
- ▶ An **industry** characterised by **tight engagement with research communities**, as well as fast **uptake and promotion of research results** and **indigenous innovation**
- ▶ A healthy **innovation ecosystem**, in which research results flow unencumbered to government and industry to achieve impact in society
- ▶ Advanced **ICT infrastructure** connecting South Africa internally and with the world
- ▶ **Local content and applications** that address local needs and also create export opportunities



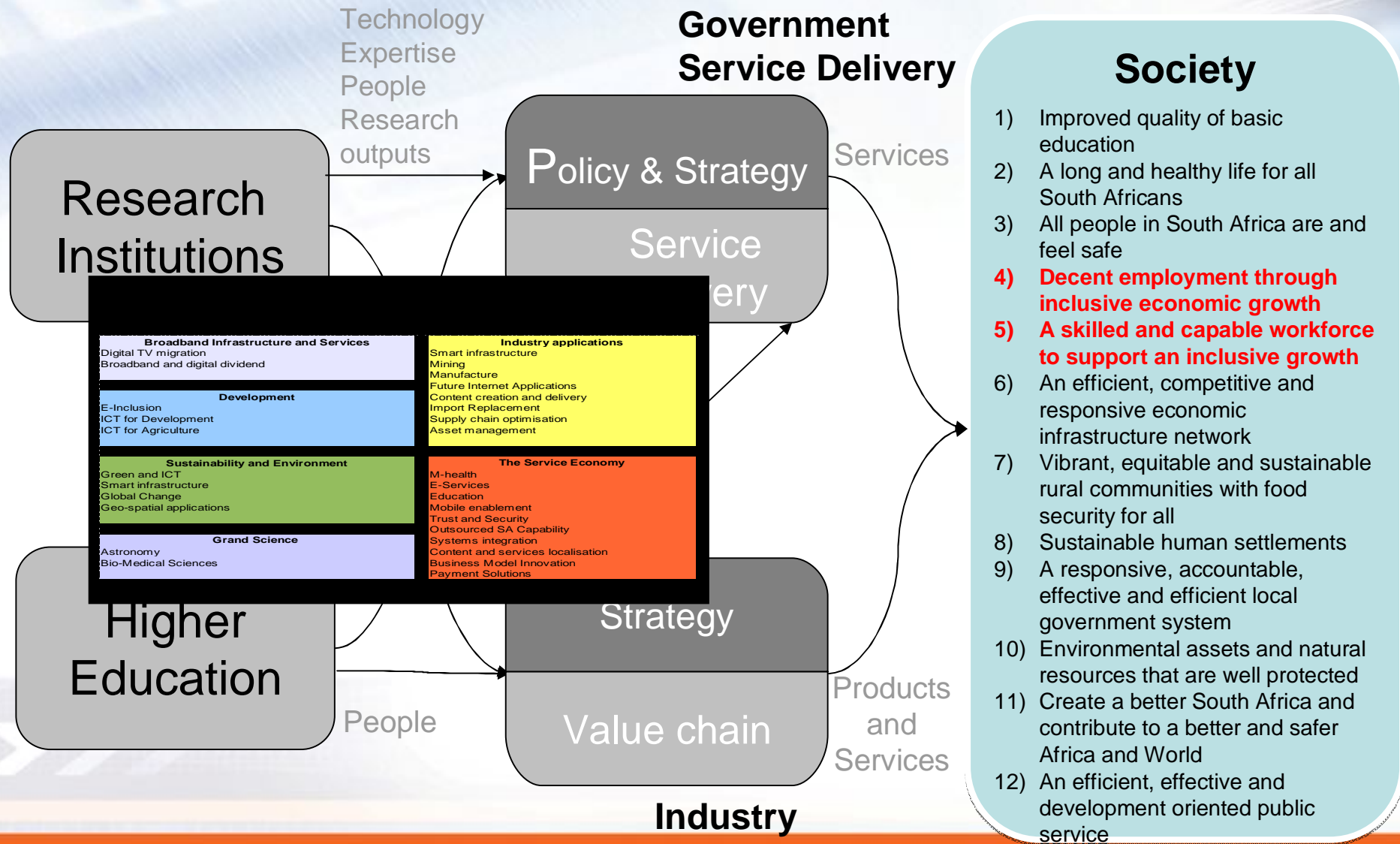
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Investment Portfolio of 6 Thematic Clusters



Government Intervention for R&D-Driven Impact



The Road Ahead

- ICT RDI Interventions & Programmes by cluster
 - Investment options
 - activities & measurable targets
 - Outcomes
 - Impact (socio-economic)
- Strategy to monitor and manage with transparency, accountability and for success



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Thank You

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