

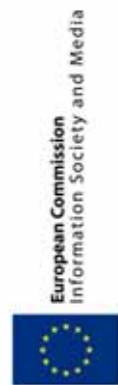
# South Africa and Africa: Cooperation Opportunities

## Call 4: Indicative Opportunities

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## Challenge 1: Pervasive and Trusted Network and Service Infrastructures

*ICT 2009.1.1 The Network of the Future*

- Strong Application focus [Broad range of opportunities]
- Some “infrastructural” activities e.g. ad-hoc wireless networks, handover networks
- Key players:
- Telecommunication Operators (Telkom COE), [Pilots: Vodacom, MTN, NeoTel, especially in 2010]
- Meraka Institute, including SAP/MI UTD
- Universities: UP, UCT, UWC, UFS, UNW, +

## **Challenge 2: Cognitive systems, interaction, robotics**

### *ICT 2009.2.1 Cognitive Systems and Robotics*

- Application and technology focus
- CSIR Modelling and Digital Science
- CSIR Autonomous Intelligent Agent Unit
- Mining as application focus

### *ICT 2009.2.2. Language-Based Interaction*

- Application and technology focus
- National Human Language Technology Network (Meraka Institute) including all active universities
- Industry: Intelleca

## **Challenge 3: Components, systems, engineering**

*ICT 2009.3.2 Design of Semiconductor Components and Electronic-based Miniaturised Systems*

*ICT 2009.3.4 Embedded Systems Design*

*ICT 2009.3.6 Computing Systems*

■ Key players:

- **CSIR (National Laser Centre, Materials and Manufacturing, Nanosciences unit, Meraka Institute)**
- **AMTS network, UNW**
- **Parsec, Redline, Tellumat**

*ICT 2009.3.8 Organic Photonics and other Disruptive Photonics Technologies*

■ National Photonics Strategy

■ Key players:

- CSIR (National Laser Centre, Materials and Manufacturing, Nanosciences unit)
- UP, UNW, UKZN, Wits, UCT, US, +

## **Challenge 5: Towards sustainable and personalised healthcare**

*ICT 2009.5.1 Personal Health Systems*

*ICT 2009.5.2 ICT for Patient Safety*

*ICT 2009.5.4: International Cooperation on Virtual Physiological Human*

- Application and technology focus
- CSIR Modelling and Digital Science
- Meraka Institute
- Medical Research Council (CoE at various universities, esp. health electronics, visualisation)
- Industry: Lodox

## **Challenge 6: ICT for mobility, environmental sustainability and energy efficiency**

ICT 2009.6.1 ICT for Safety and Energy Efficiency in Mobility

ICT 2009.6.3 ICT for Energy Efficiency

ICT 2009.6.4 ICT for Environmental Services & Climate Change  
Adaptation

- Strong Application focus [Broad range of opportunities]
- Some “infrastructural” activities e.g. ad-hoc wireless networks in support of.....
- Key players:
  - Telecommunication Operators (Telkom COE), [Pilots: Vodacom, MTN, NeoTel, especially in 2010]
  - Meraka Institute
  - Universities: UP, UCT, UWC, UFS, UNW, UKZN, Wits, UJ, US, +
  - High end computing (CHPC)

## **Challenge 7: ICT for independent living, inclusion and participatory governance**

*ICT 2009.7.1 ICT and Ageing*

*ICT 2009.7.2 Accessible and Assistive ICT*

*ICT 2009.7.3 ICT for Governance and Policy Modelling*

- Application and technology focus
- National Accessibility Network
- CSIR Modelling and Digital Science
- Meraka Institute (including CHPC)
- Medical Research Council (CoE at various universities, esp. health electronics, visualisation)