

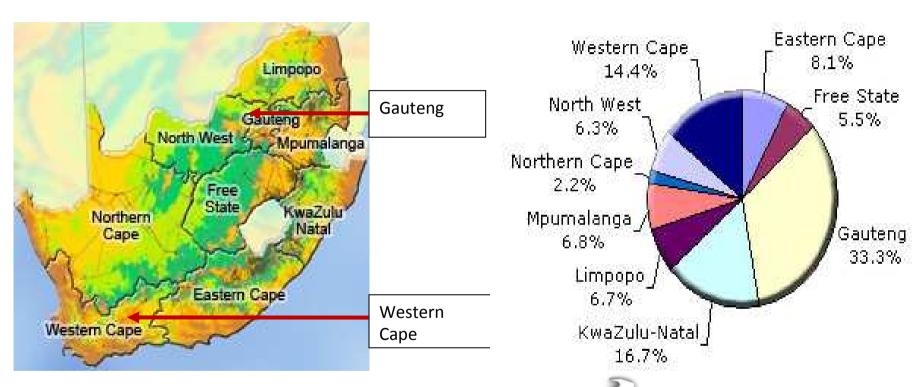
ICT in **SA**

Tashmia Ismail & Helena Barnard Belo Horizonte workshop May 2011





ICT arrangement









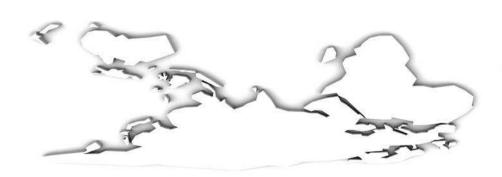
Cases

Gauteng

- firm1
- firm2
- firm3

Western Cape

- firm4 100employees
 - 840 cell phone networks in 220 countries and territories.
- firm5 100 employees
 - 24 million users in over 120 countries





-TAI-	
Regime 1: Gauteng/Johannesburg	Regime 2: Western Cape
Sticky knowledge	Non- Sticky knowledge-
	easy transfer
Local clients	Clients can be located
Localisation of products for local	anywhere in the world
and Sub Saharan markets	Virtual services
Clusters of larger firms with smaller	Smaller firms
niche specialised supplier firms	
Urban centres/business hubs-	Lack of attachment to local
located near concentration of large	structures- can be located
firms	anywhere
	Western Cape because of
	the lifestyle

SEVENTH FRAMEWORK PROGRAMME

Regime 1: Gauteng/Johannesburg	Regime 2: Western Cape
Largely B2B -General purpose	Largely B2C
technology, enablers/support for	
other services e.g. banking	
-Servicing multinationals which are	
internationalising in Africa by	
providing localisation of the service,	
local infrastructural support and	
local ICT skills and know-how.	
Global networks internal to MNC	Global networks
subsidiary communication channels	outside of MNC
(closed loop)	network

SEVENTH FRAMEWORK PROGRAMME



Firm1: Interview

Five interviews

- Managing Director for Sub Saharan Africa (SSA),
- Regional head of communications (SSA),
- Head of the 'Innovations and Partnering' unit (SSA),
- Head of strategy and marketing for Sub Saharan Africa
- Strategic Business Adviser to the VP





Firm1: Background

- Major clients: firm6's, equipment and related services to mobile and fixed network operators
- 1,000 networks in over 175 countries
- 40 percent of all global mobile calls made through firm1 systems



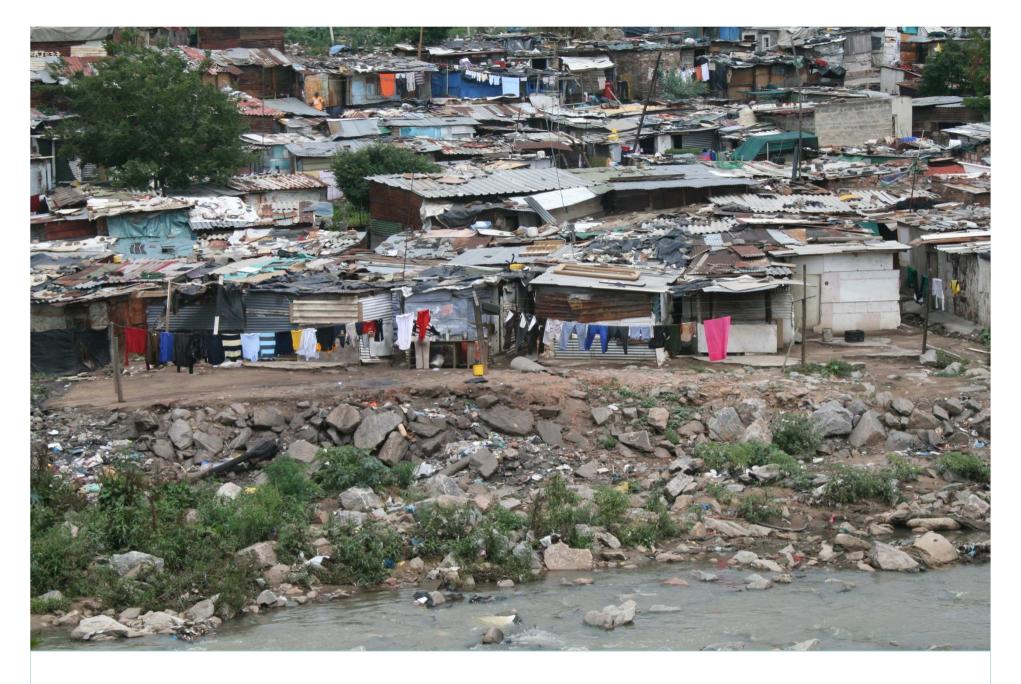




firm1: New strategy

- Directed by 50 billion new connections
- firm6's no longer the major client
- Horizontal client spreadmunicipalities, govt departments and the 4 billion underserviced
- Greater subsidiary power needed
- Increasing locally sourced management





Developing markets



Non R&D knowledge

- Headquarters in developed locations
- Lack of understanding on local needs
- Navigating around institutional and infrastructural voids
- Do not understand how to apply and make R&D knowledge relevant to local context especially the 4 billion low income market.





Developing markets

- Markets are fragmented
- Easier to access to 10 large corporations than 100 000 smaller businesses
- Difficult to get products to market
- Low skills, low literacy, low disposable income, security issues.
- Handle with a series of partnerships to get product to market and establish local needs and meet them





R&D labs

- Sweden, China, Germany...but not in Africa
 - Shortage skills
 - Smaller markets
- R&D, science based
- Capital intensive
- Created technologies exported and adapted

Knowledge creation

Innovation and partnering units

- Kenya, Ghana and SA
- Innovation, user based
- Lower capital requirements
- Developed with local partners, local HR
- Translate the 'game changing' R&D catalogues to local needs





Challenges for firm1

- Communication to and from HQ and R&D labs is slow and less flexible
- Losing out to smaller providers
- Shift in power to subsidiaries but difficulty with HR sourcing







Innovation and partnering units

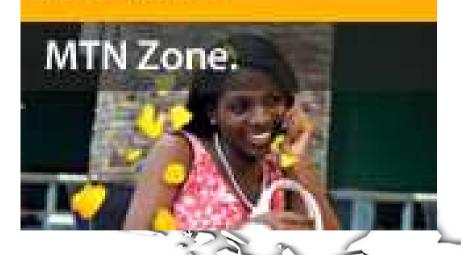
- Small teams- in Jhb only 6 people
- Create project teams with client and smaller local suppliers
- Lower expat fees
- About 10 innovations per year
 - MTN Zone
 - Shared call- one phone multiple numbers





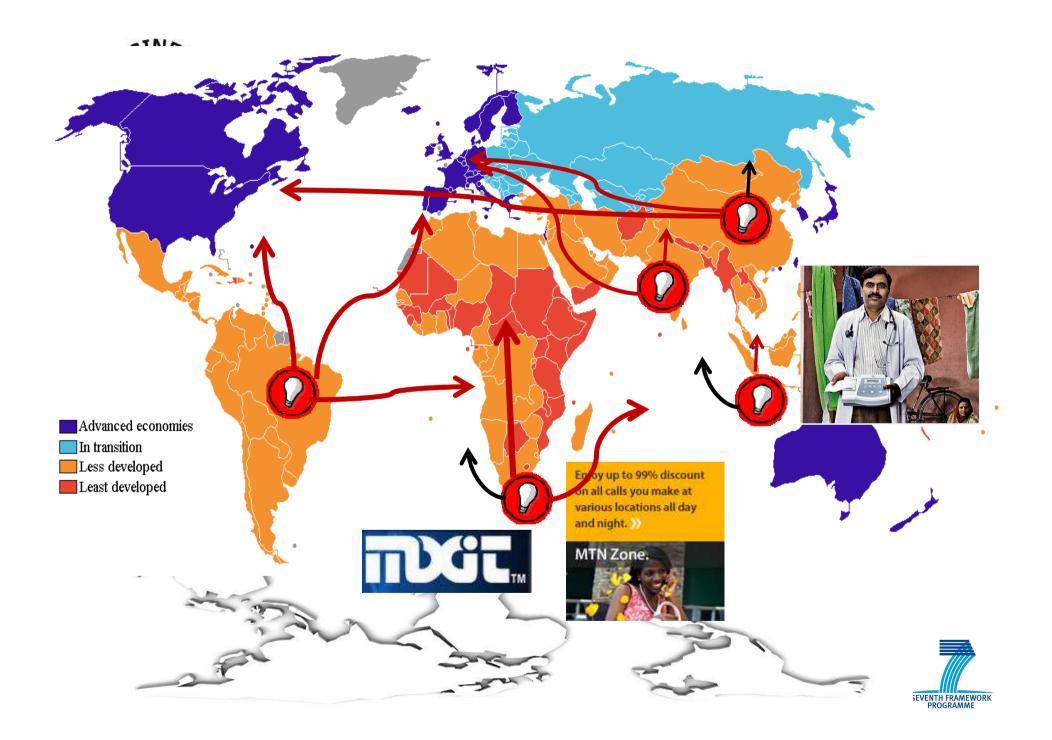
Local innovation

Enjoy up to 99% discount on all calls you make at various locations all day and night.))



- Client need to reduce load on mobile towers
- firm1/ small firm collaboration
- Following embargo period, rolled out globally by firm1







Frugal engineering

- Bottom up development
- Maximise value, minimise non-essential cost
- Start with a clean slate rather than strip down
- Provide for essential functions
- But at a price they are willing to pay











firm2 Unlimited Potential 'the next billion'

- •Business and philanthropic approach: to make technology more relevant, accessible, and affordable
- Create global innovation platforms then
 - >collaboration among businesses, local governments, educational institutions, and community organizations.
- •With partners transform education, foster local innovation, enable jobs.
- •Partnering with universities, businesses, local software developers, and investors, incubate innovative ideas and then help individuals and communities translate those ideas into business success









"I always say the mother of innovation is not creativeness or ingenuity it is empathy and compassion, it's sticking to what your customer really needs and understanding that."











- Millennium development villages
- Living R&D labs
- No profit pressure
- Learn how people use products &





