Africa is mobile...so what?

Dr Adele Botha

CSIR Meraka Institute Next Generation Architecture and Mobile Research





Over

6 Billion MOBILE SUBSCRIPTIONS W O R L D W I D E

75%

of the world now has ACCESS to a MOBILE PHONE



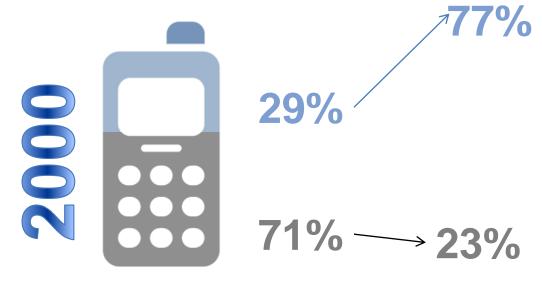


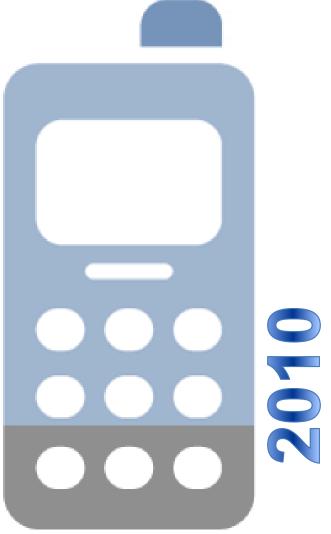
THE DEVELOPING WORLD IS NOW MORE MOBILE THAN THE DEVELOPED WORLD

MOST PHONES ARE OWNED BY PEOPLE LIVING IN LOW-INCOME REGIONS

GROWTH OF GLOBAL MOBILE SUBSCRIPTIONS

Developing countries





Developed countries



archetype: sbusiso

- 25 year old, South African hair dresser
- barely finished high school and has never used a computer
- discovered mobile internet while exploring his phone, followed URLs on ads and given by radio presenters
- has an email address, Facebook, and MXit profile, initiated through his phone

"...I am now addicted to the Internet and I use it every time when I am bored"







Country		Mobile subs.	Percentage of subs
Nigeria	NGA	89,343,017	14%
Egypt	EGY	80,616,921	13%
South Africa	ZAF	59,474,500	10%
Algeria	ALG	36,741,368	6%
Morocco	MAR	36,522,899	6%
Kenya	KEN	26,135,115	4%
Sudan ¹	SDN	24,628,765	4%
Tanzania	TZA	23,334,395	4%
Ghana	GHA	20,049,412	3%
Côte d'Ivoire	CIV	17 991 035	3%



		•	
South Africa	ZAF	59,474,500	10%

Libya	LDT	11,130,300	2/0
Angola	AGO	10,797,078	2%
Cameroon	CMR	10,658,991	2%
Mali	MLI	10,000,229	2%
Senegal	SEN	9,686,372	2%
Zimbabwe	ZWE	8,281,749	1%
Benin	BEN	7,996,577	1%
Mozambique	MOZ	7,750,845	1%
Burkina Faso	BFA	6,740,148	1%
Zambia	ZMB	6,544,630	1%
Madagascar	MDG	6,147,499	1%
Others		56,190,285	9%
Total		619,800,290	100%



- PACOLE REWARKS REPORT 63-1011 CON
 - active accounts
- Panatration of 125%

- 10 milion phones sold per year
- 2013 smartiphones will account for half

Connecting Barriers, to entry







CallBack

Out of airtime and want to say hi?



MTN CallBack is a free service from any MTN cellphone.

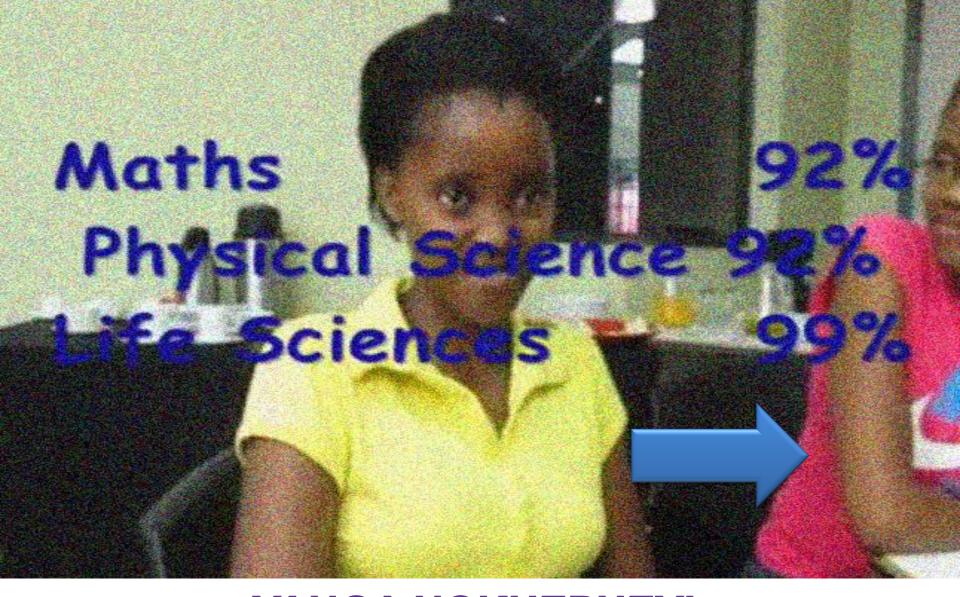
By dialling *121*(cellphone number)# from your phone,



you automatically send a request to that number asking them to call you back

An SMS containing your cellphone number will be sent to the regipient.

Dial *121# to personalise your CallBack SMS with your name

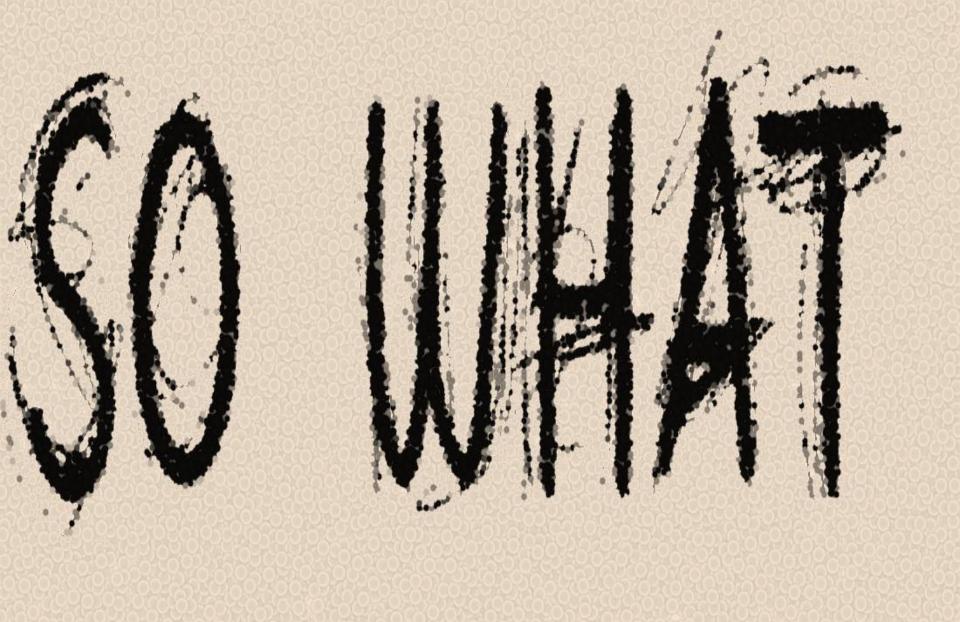


YANGA NOKHEPHEYI FROM OLIEVENHOUTSBOSCH CENTURION



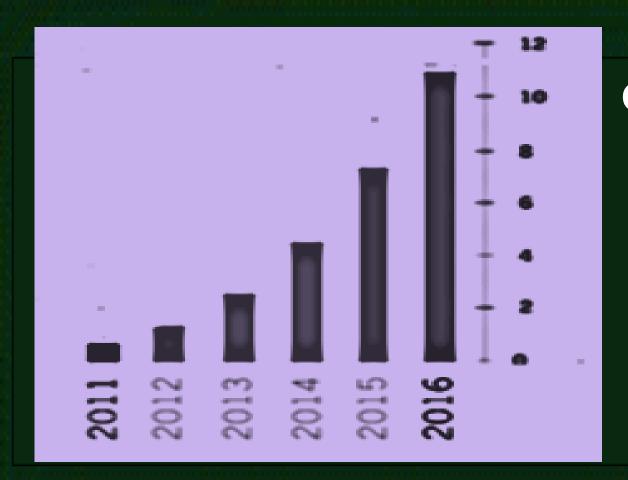
FIRST YEAR STUDENTS WORKED ON A PC





Metive

THEMOBILE REVOLUTION IS RIGHT AT THE START OF ITS GROWTH CURVE



Global Forecast

Total
Terabytes
per month

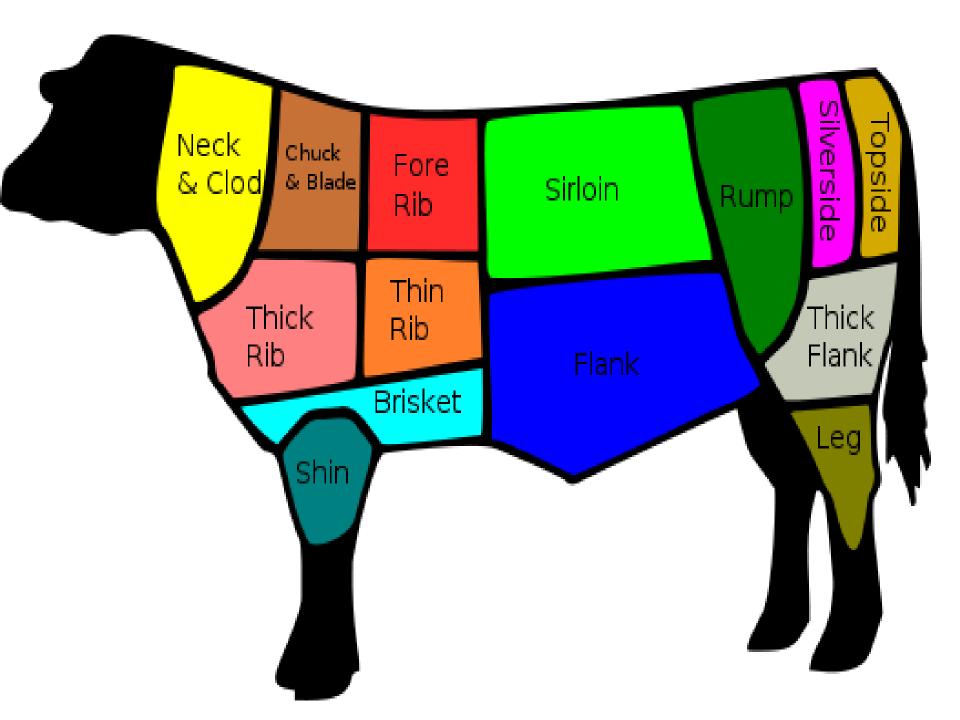












*120*2747*21#

IF WE HAYE TIME...

WHAT CAN YOU DO WITH A PHONE?

BASIC PHONE



Make/receive a phone call Send/receive an SMS Use a USSD menu (e.g. for airtime)

FEATURE PHONE



Send/receive MMS
Take a photo
Listen to music
Listen to the radio
Download ringtones
Run MXit
Access the internet (web-browsing)

SMART PHONE



Download/run applications (via AppStore)
Use wifi access
Use sensors (e.g. GPS, accelerometer)
Full multimedia capability (incl. editing)



MLCF



As the conversations change from whether Mobile Learning is a strategic option to how Mobile Learning can be operationalised, the question of facilitator competence is raised time and again.

This mobile learning curriculum is a first attempt to systematically and comprehensively explore where and how mobiles should appear within educational provision. The various headings (themes) and sub-headings (modules) embody a taxonomy, a way of representing and organising themes and content. The endeavour assumed that learning with mobiles is only part of a wider interaction between technology, in this case mobile technology, and society.

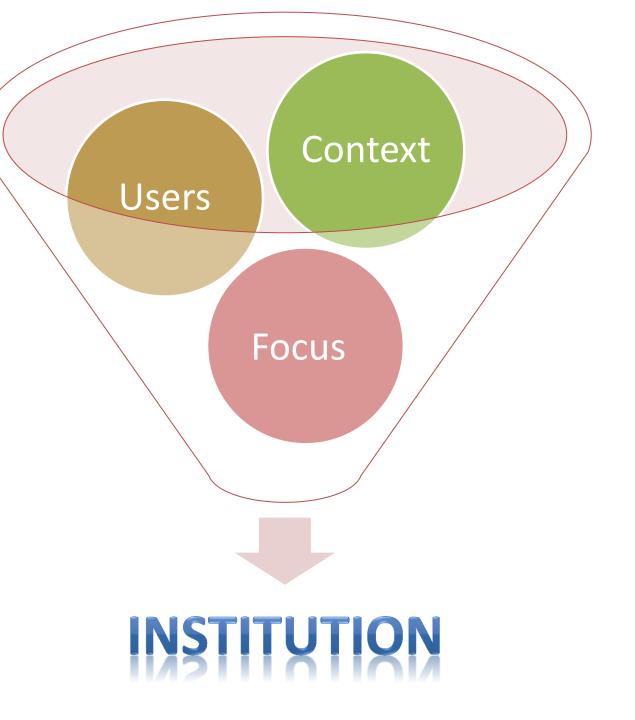
TO DO: Develop skills to enable mobile learning practice

TO KNOW: Acquisition of domain knowledge TO UNDERSTAND:
Comprehend the role
and impact of the
domain knowledge in
relation to the
application context

Mobile Curriculum Framework

Themes	The Impact of Mobiles on People, Communities and Societies	2. The Impact of Mobiles on the Economy	Mobiles on	4. The Nature of the Technology, Systems and Devices	5 Becoming Mobile
Modules	1.1 Mobile Life: Digital Identity, Online Communities 1.2 Mobile Learning: Knowing, Learning, Finding Out	2.1 The Nature of Goods and Services 2.2 The Nature of Work and Jobs	Leaming 3.2 Formal	4.1 Nature of the Technology, Systems and Devices	5.1 Governance, policy and vision 5.2 Planning and pedagogy
			3.3 Informal Learning		5.3 Practicalities, organisation, management and administration

Institutions need to adapt, adopt and implement the curriculum within their local context to suit the needs of their specific target audience



INSTANCE: Cofimvaba





www.csir.co.za © CSIR 2010 Slide 40

Thank you! abotha@csir.co.za

