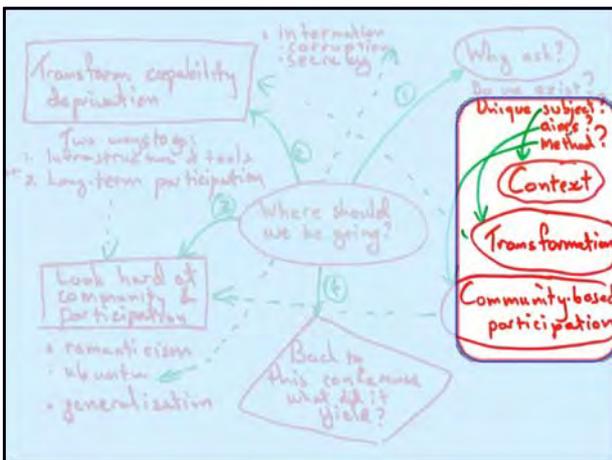


### There is no such thing as ICT4D?

- No unique problems to solve
- No unique methods

**ICT4D** 7/12/13



### Unique Subject Area?

- Largely determined by a novel context found in the areas we study.
- Firstly the structure of relations that hold in social settings (from Bourdieu's "habitus")
- Second the accidents of circumstances occasioned by varying exposures to waves of colonization and globalization
  - For example, low-literacy coupled to mobile phone access

**ICT4D** 7/12/13

### Unique Aims?

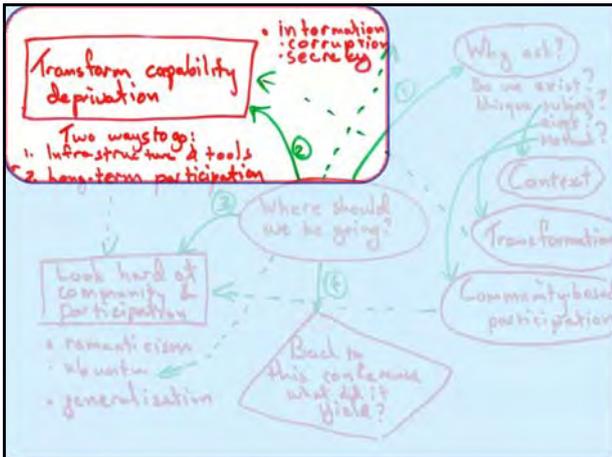
- Unashamedly transformation.
- We are not ethnographers.
- Our epistemology is pragmatism: our understanding is exactly equivalent to effective action

**ICT4D** 7/12/13

### Unique Method?

- From the context we have found that standard computer science methods need adaptation
- Agile software engineering → action research
- Participatory design → community-based + intermediaries

**ICT4D** 7/12/13



### Poverty $\equiv$ Capability Deprivation

- Amartya Sen: Development as Freedom
- Aim of ICT for development is to contribute to increasing the **freedom, agency and capability** of people.
- The contribution of ICT4D: Access to information



Quo Vadamus **ICT4D** 7/12/13



**Am a tribal leader**  
They loot, rape, burn and kill in my defence  
I steal their taxes, grab land, but the idiots will still vote for me.

Land grabbing, Political assassinations, Tribal clashes, Wagalla massacre, Goldenberg, Cowboy contractors, Drug dealings, Anglo Leashing, Triton, Pyramid schemes, Grand regency, Artur brothers, Post-election violence, Kazikwayuana, Syokimau, Maize scandal, Famine, IDP resettlement, Tax evasion

Quo Vadamus **ICT4D** 7/12/13

### Andries Tatane (1978–2011)

Police acquitted in March 2013

**AGAINST POLICE BRUTALITY 22 April**

TESTIMONIAL MEMORIAL SERVICE  
Way of Life Church and Multipurpose Centre  
SUNDAY 22 APRIL 12:00 pm  
no. 1 Joe Modise Street - Mandela Park - Khayelitsha  
34.946135, 18.483305

**For Andries Tatane (Adam Haupt)**  
Paper rights with blood splatters over them.  
The new Rorschach test.  
What do you see?  
I see black empowerment.  
I see Strange Fruit  
falling  
from the tree of Ubuntu.  
I see blue is the new black.  
What did I do to be so black and blue?  
I see Tumi  
singing  
"My black president does me wrong"  
I see them  
singing  
the song of days long gone  
now our freedom's gone for a song.  
- colony

7/12/13

### Corruption

- Secrets kept from us
- No freedom from surveillance for us
- Panopticon in the name of security



Quo Vadamus 7/12/13

### Two ways to do it

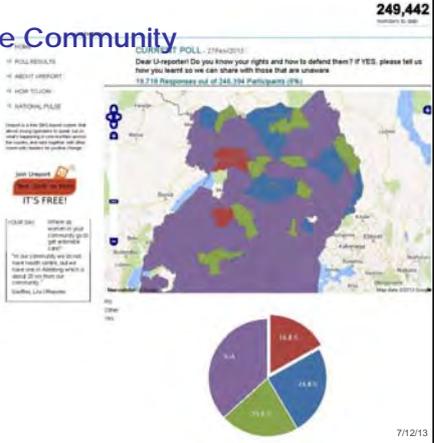
- Infrastructure and Tools — many papers in the conference
- Long term co-design — fewer papers in this conference



Quo Vadamus

### Extending the Community

- Crowdvoicing
- Crowdsourcing



Quo Vadamus

### Himba tribe challenge

- [www.c4dcafe.com](http://www.c4dcafe.com)
- For the first time in history we have a request from a small village in Kaokoland in Africa. We want you to model two important assets for the Himba tribe one being a Mopane tree and the other an 'Otjihanda'.
- Brief details about the Mopane tree: ...
- Brief details about Otjihanda:
  - Otjihanda is used to perfume clothes. Myrrh and other aromatic herbs are lit with glowing coals under the Otjihanda and the clothes are placed on top of it.




Quo Vadamus

### ACM Dev Challenge

- Can we set up a portal for people to crowdsource parts of ICT4D solutions?
  - Need to address issues of gathering requirements
  - Vetting legitimacy of projects
  - Feedback to donors of software or modelling artefacts
  - Variation on Foss4Dev (and not "scratching own itch")

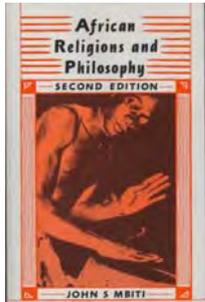


Quo Vadamus



### Humanity and Community: Kenya

- Canon John Mbiti (Kenya):
  - "In traditional life, the individual does not and cannot exist alone except corporately. He owes his existence to other people, including those of past generations and his contemporaries. He is simply part of the whole."
  - "I am, because we are; and since we are, therefore I am."




Quo Vadamus

### Humanity and Community: South Africa

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- “My humanity is caught up, is inextricably bound up in yours.”  
Archbishop Desmond Tutu
- In Zulu one can say “umuntu ngumuntu ngabantu”
  - Sotho: “Motho ke motho ka batho (babang)”
  - “a person is a person through other persons”
  - “a person is a person because of other persons”
  - “I am what I am because of what we all are”

Quo Vadamus  7/12/13

### Shadow Side to Ubuntu?

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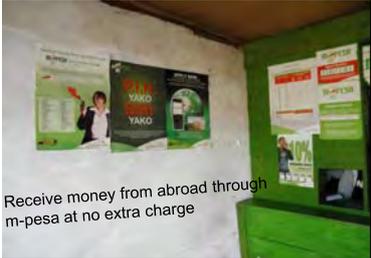
- Core values of privacy may be threatened by the widespread use of ICT
  - a naïve community based set of values might not question this.
- Totalitarian control of the individual?
  - Tallest poppy syndrome
  - Fear of stigmatization
- Narrow circle ≡ nepotism?
  - Officials obliged to provide for their extended circle of responsibility as if they are close family
  - Appointments according to relationships and not capacity to deliver

Quo Vadamus  7/12/13

### Romanticism

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- Romanticised notions of “other”: African orientalism
- Mazrui: “strange combination of cultural condescension, paternalistic possessiveness and ulterior selectivity”



Receive money from abroad through m-pesa at no extra charge

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### Can we accept?

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- The community might be very ambivalent to change since it upsets cherished notions and values and they might even be used to “comfortable dysfunction”.
- Who decides?



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### Co-Design

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### Design for whom and by whom?

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- If we move to co-design, then:
  - ¿ Can we envision a flexibility in ourselves to *redesign ourselves* as much as we design artefacts outside?
  - ¿ Are our methods and beliefs as much up for grabs as the *cherished values* of the community that we are trying to transform with our technology?
  - ¿ Is it not probable, once we accept the community as co-designers that we might not even have **the last word in design**?

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### Features of the conference: papers & posters

- 30 papers + posters
- Major emphasis on rural areas (11), not on urban poor (5)
- Number target illiterate (or semi-literate) users (6).
- Four address information issues, mostly gathering information but one also addresses Free Speech.
- **What struck you?**

**ICT4D** 7/12/13

Title	Infra	User	Long	Rural	Urban	Comment
Measuring Broadband Performance in So...	x					
The Increased Bandwidth Fallacy: Perform...	x	x	x			
First Impressions on the State of Cellular I...	x		x			
Kwaabana: File Sharing for Rural Network...	x	x	x			
Interactive Web Caching for Slow or Interr...	x		x			
An Experiment in Reducing Cellular Base...	x	x	x			
Jury: An Automation Framework for Proto...	x	x	x			
Lowering the Barrier: How the What-You-...	x	x	x			
A Mobile Market for Agricultural Trade in U...	x	x	x	x		
Blacknoise: Lightweight Low-fi Steganogr...	x					Information
Social and Spatial Ethnic Segregation: A...	x				x	Usr Anlys
Behavior Analysis of Low-literate Users of...	x	x	x		x	
Improving Usability and Correctness of a...	x				x	
Ecologies of Use and Design: Individual a...	x				x	x
FlashPatch: Spreading Software Updates...	x			x		

Title	Infra	User	Long	Rural	Urban	Comment
Leveraging Raspberry Pi for Interactive E...	x				x	
Introducing Sapelli: A Mobile Data Collec...						x
A Social Network-based Architecture for...	x					x
KrishiEkta: Integrated Knowledge and Int...	x			x		Information
Visually Impaired Navigation Assistant fo...						
Efficient Frequent Pattern Knowledge for...					x	
Customizing and Improving Medical Wor...						Information
Unmasking Trust Issues in Rural Field W...	x			x		
Information Protection In Video Relay Se...	x					
ODK Tables: Case Studies in Deployme...						Information
How Should Users Convey Their Locatio...	x					x
Design Implication for a Customized Sm...	x					
Experiences in Designing a Mobile GIS M...	x			x		
ROSALNet: Rural Opportunistic Spectru...	x			x		
Tuning a Mid-range Rural WiFi-based M...	x			x		

