

local talent, global network

(technology for development failures, successes, and labs)

Aarhus, 10-10-11

My Argument:

In order to solve global problems we have to think and develop solutions hyper-locally.

To foster local problem solving that scales, we need global machinery.

- I. Global Machinery
- II. Hyper-local development
- III. A network of innovation labs

Part I: Our Global Machinery

unicef  has

- 15k+ staff (88 % in 'the field')
- ~135 country offices
- 8 regional offices
- HQ in New York.



child survival and
development



hiv/aids



water &
sanitation



education



protection

also....

vaccines for 60% of
the world's children



largest purchaser
of pencils



emergencies



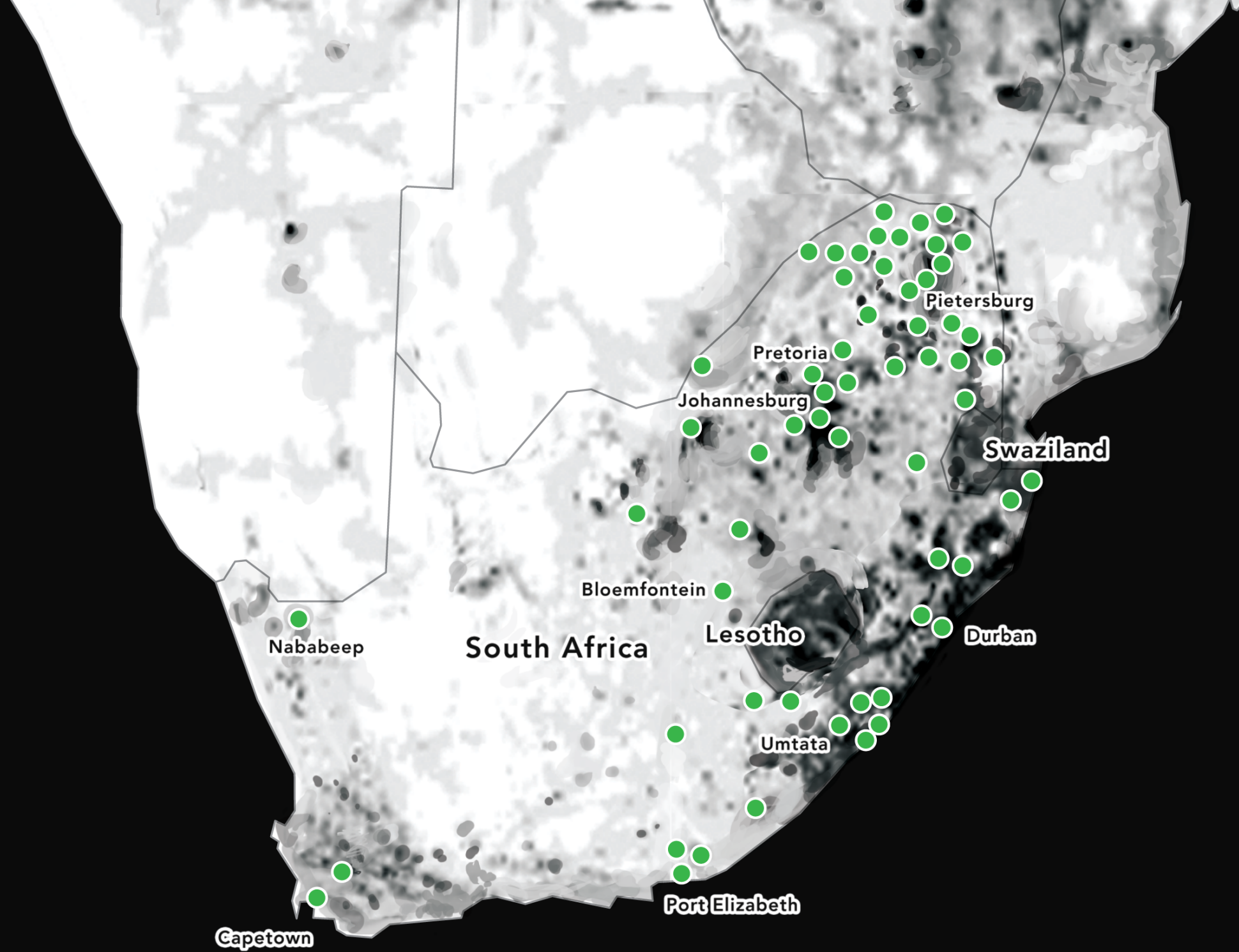
Part II:
our team:
technology for
development

failing fast



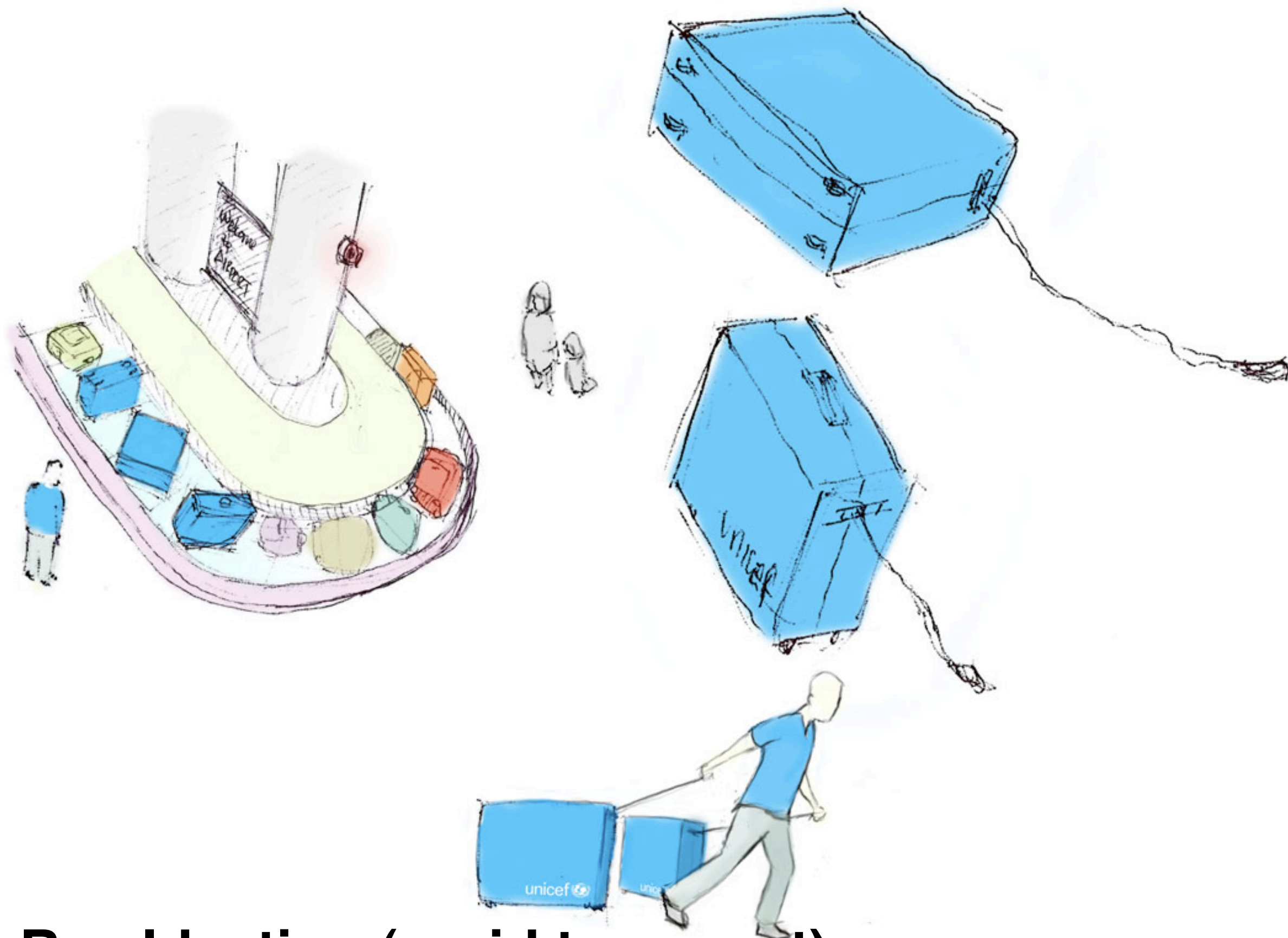


Digital Doorway



Digital Doorway locations

http://www.digitaldoorway.org.za/index_main.php?do=site



Bee Ideation (rapid transport)



Bee Ideation (school in a box)



Bee Co-creation (geek meet)



Co-creation – ITP class

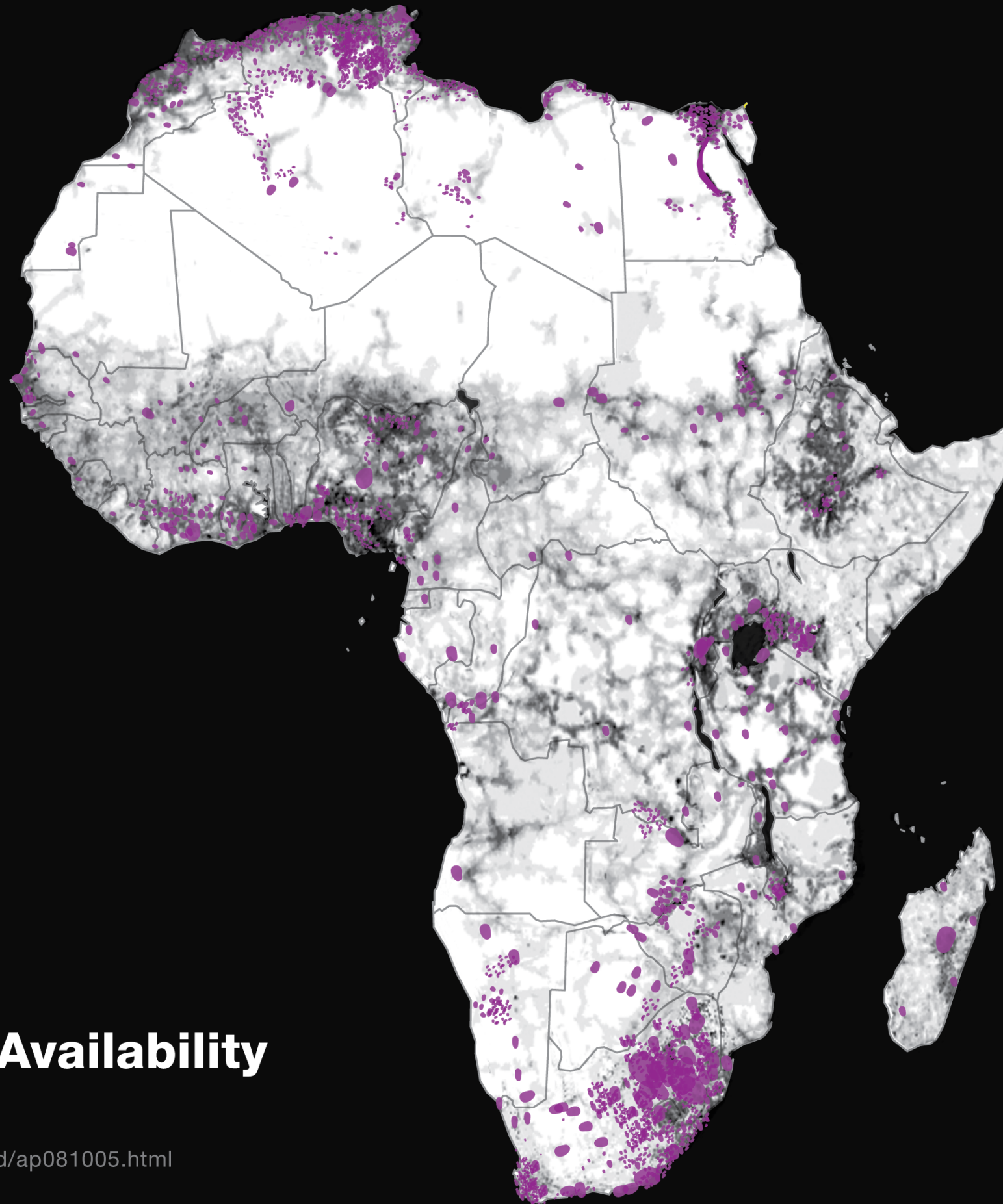


Bee Prototype 2 (SA)





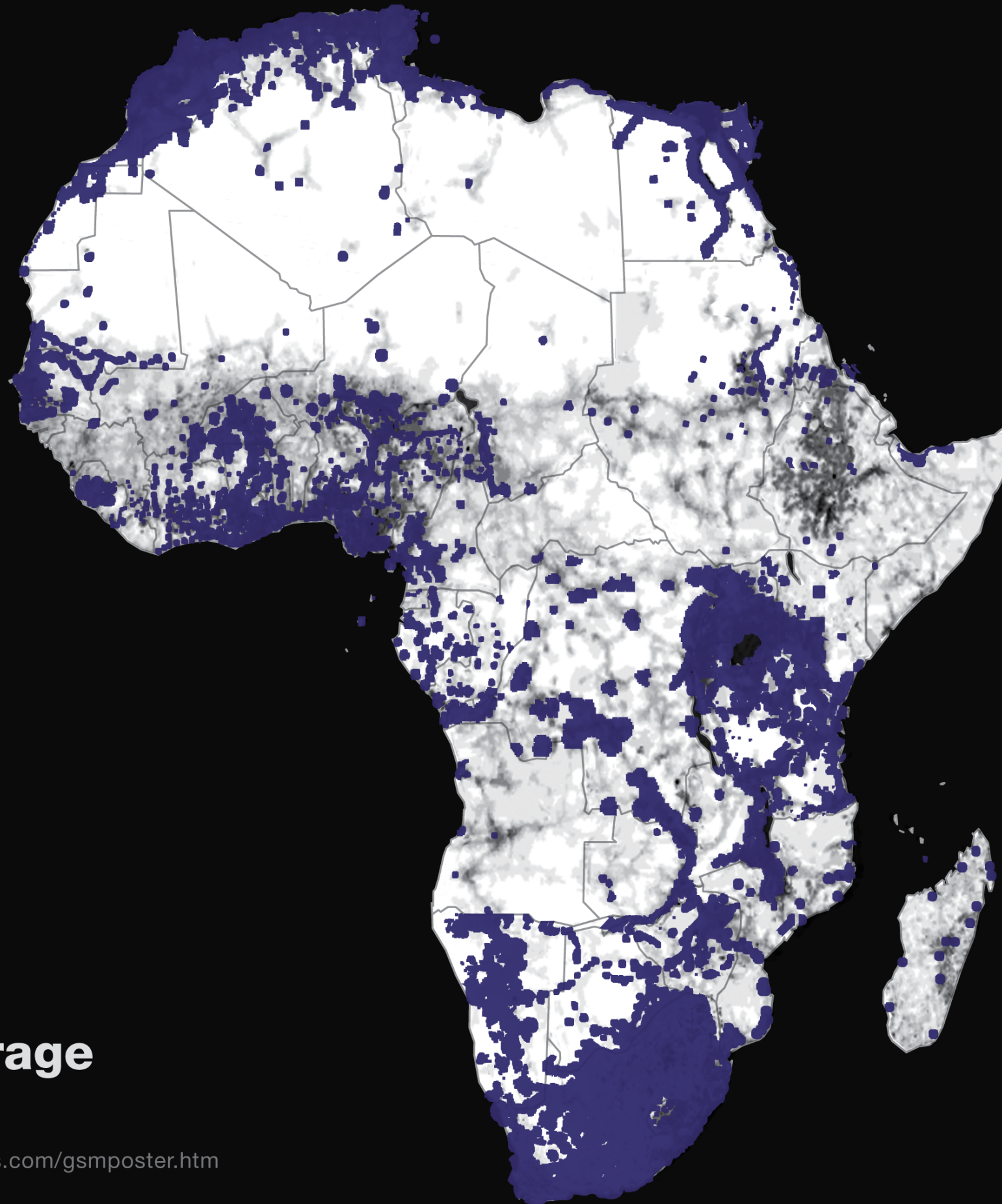
winning slowly



Electricity Availability

● Strong Availability

<http://apod.nasa.gov/apod/ap081005.html>



GSM Coverage

● Strong Coverage

<http://www.coveragemaps.com/gsmposter.htm>

Consider

The adoption of mobile phones has occurred at perhaps the fastest rate and to the deepest level of any consumer-level technology in history

African Cell Phone Ownership Growth

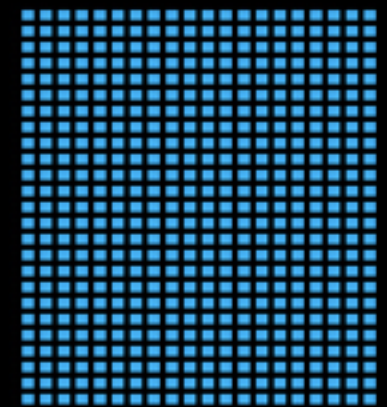
1998

2 million phones

..

2010

500 million phones



district hospital:
serves 200,000+





health center:
serves 10,000

community health workers



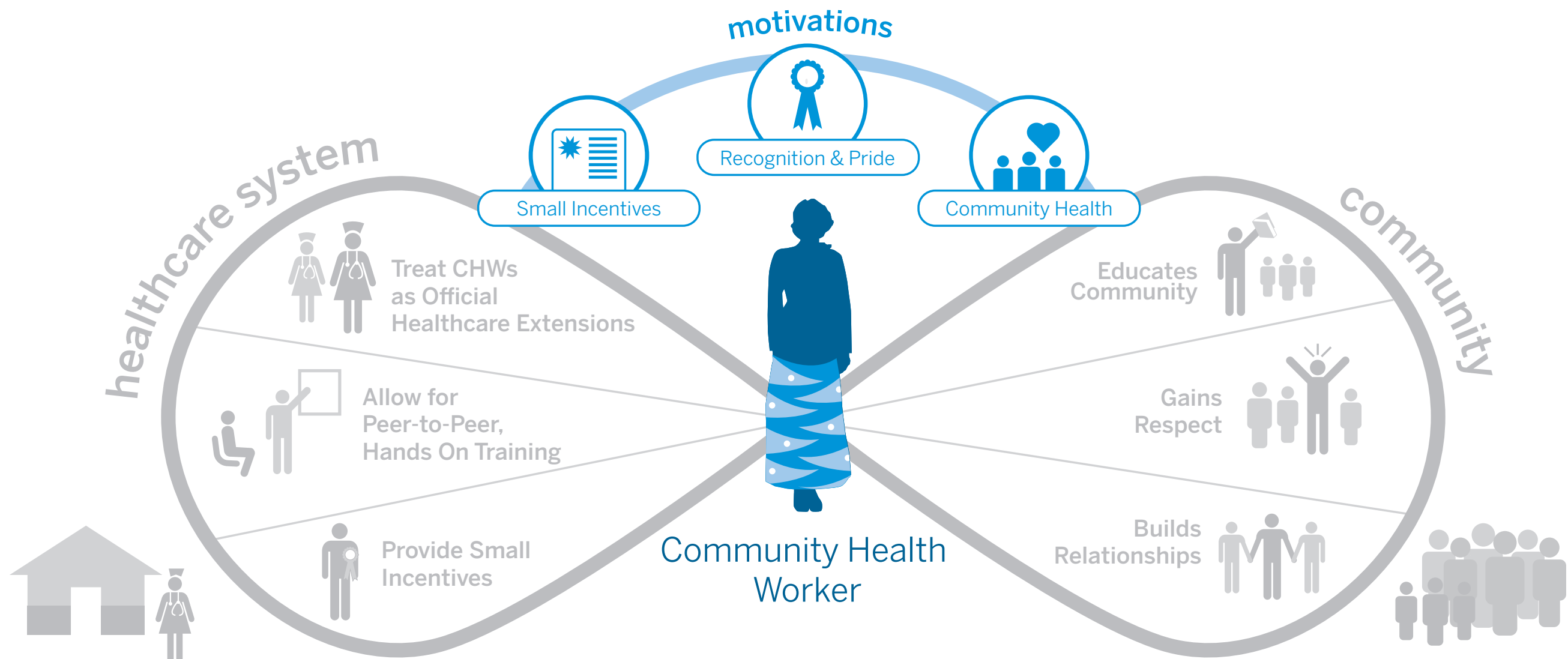
their office





their tool

The Community Health Worker





RapidSMS Nutrition Surveillance

Send all SMS to 09279085 or 04060752

HOW TO REGISTER A NEW CHILD

new GMC# child# sex age contact#
EXAMPLE new 1234 70 M 21 09555123

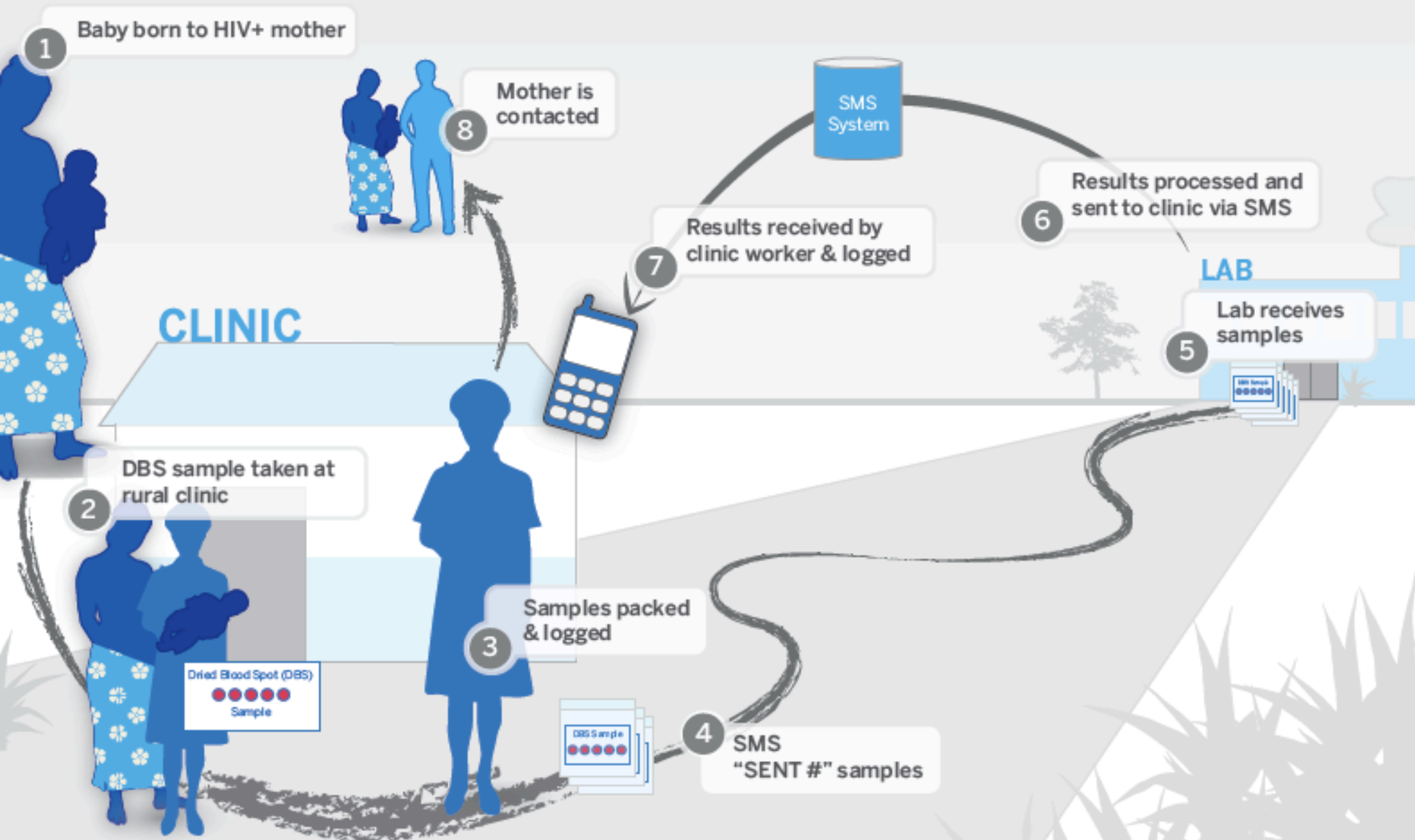
GMC
number

child
number

M for male
F for female



Results160 Process

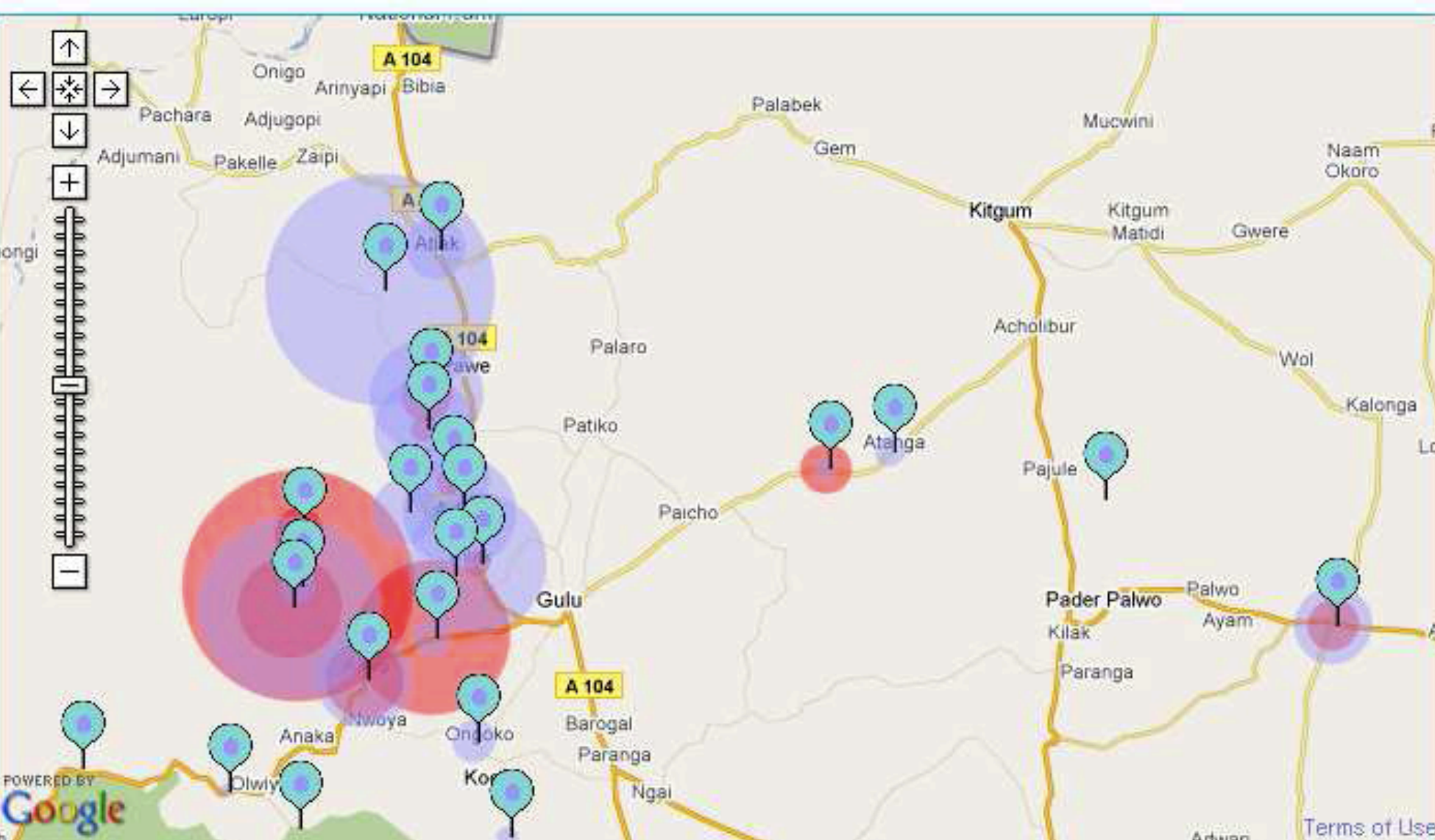


In April 2009 an HIV results for an infant at Nameembo Rural Health Clinic took **66 days** to get to the infant, from collection to delivery.

In February 2011 the same type of infant HIV result at Nameembo Rural Health Clinic took only **16 days** to get to the infant, from collection to delivery.

Mapping

Displays Map of Locations in the system.



Part III:

Hyper-local development

1. user-centered design



2. openness



3. build on experience



4. sustainability



5. scalability











In order to solve global problems we have to develop hyper-local technical expertise

In many of the places where UNICEF works no one wants to invest in building those skills

we need more developers and hackers
in the world's most troubled places

Lab Network

There are research and development innovation Labs in Uganda, Kosovo and Zimbabwe, with plans in the near future for another nine countries to join the network.

These hubs for innovation and collaboration will be able to connect to other innovation networks and incubators and share their processes and outputs.

Kosovo

Uganda

Zimbabwe

Madagascar

This type of south-south collaboration creates space & opportunity for sustainable social innovation

MIT Media Lab

Kosovo

IIT Lab
in India

Praekelt Lab
in Nigeria

Limbe Lab
in Cameroon

iHub
in Kenya
Uganda

Instedd Lab
in Cambodia

Un Techo para mi País
(UTPMP)
in Latin America

Zimbabwe

Madagascar



kosovo



uganda



- Diverse teams work better.
- People with vested interest in solving problems solve them better.
- Previously unseen realtime information flows come from people using technology for things that interest them



Amal (*'hope'*) School for the Deaf,
Khartoum, September 2011

announcing:
3 different prototypes of

“programabilities”

to be found, 2012, in the
kosovo

sudan

zimbabwe

UNICEF Innovation labs

follow their progress at programabilities.org



- <http://unicefstories.wordpress.com>
- <http://deeunicef.tumblr.com>
- <http://www.rapidftr.org> (get involved)
- <http://www.rapidsms.org> (get involved)

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