

SMS for Life

Outcomes of a Pilot in Tanzania

Presentation to R10 Mock TRP
By RBM Secretariat
28 June – 1 July 2010
Dakar, Senegal

A public-private initiative

Funding: Swiss Development Cooperation and Partners

Steering Committee of the Pilot:

RBM Executive Director (Chair)

NMCP Tanzania

Swiss TPH

PSI

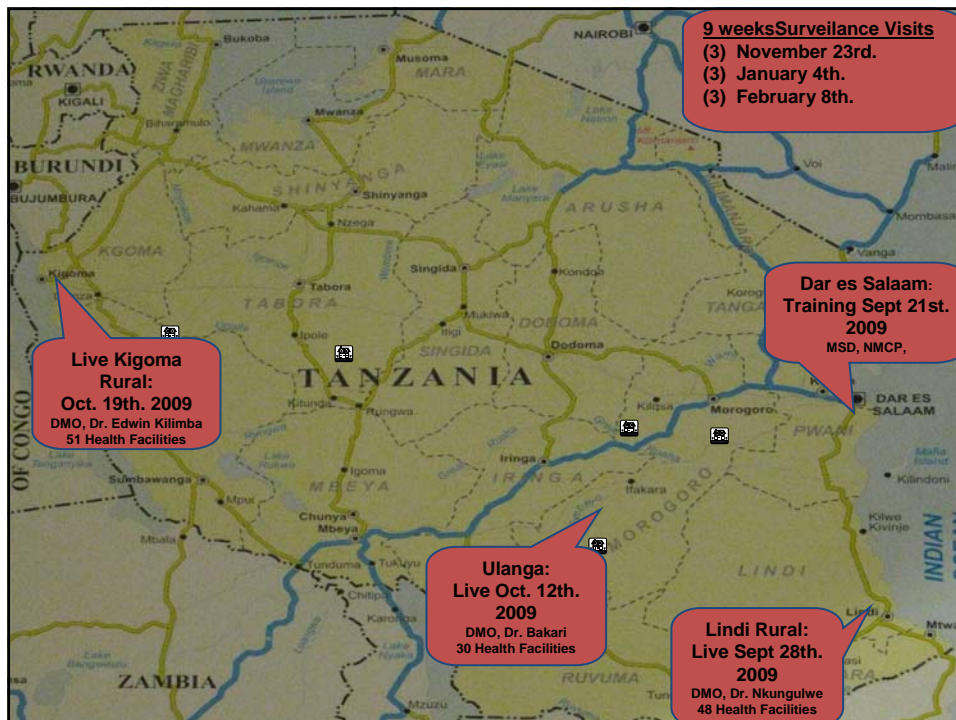
Novartis

IBM

Vodaphone

Background

- Increasing resources globally
- Increasing resources mobilized by countries
- 160m ACTs procured in 2009, mostly in Africa
- **Reports on central stockpiling and peripheral stockouts**
- **Requests for enhanced in-country capacity of ACT quantification**



“SMS for Life”

Improving medicine access through innovation

A Roll Back Malaria Partnership Initiative

1 Pokea SMS unaoitisha habari za Akiba ya madawa



2 Hesabu Akiba ya Madawa



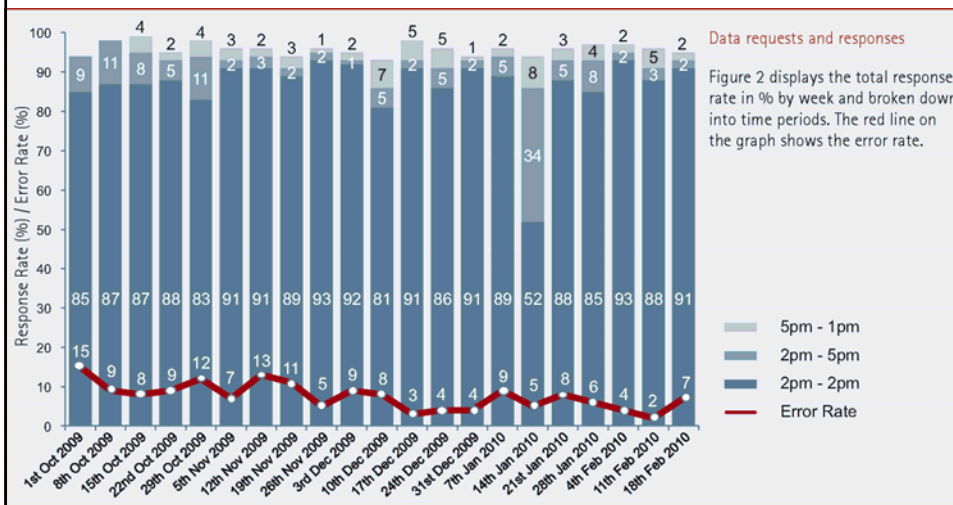
3 Andika matokeo na tuma SMS kwenya nambari: 15009



4 Pokea muda wa maongezi wa bure



Average response rate of 95%
 Data accuracy rate of 94% (physical count)
 Data accessed on a daily basis (system log)




SMS for Life - Reporting: Stock level summary - Microsoft Internet Explorer provided by Novartis

Address: https://smsforlife.matssoft.co.uk/pilot/admin/stats_stock_summary?districtid=12

Stock levels

This report shows the level of stock available for each of the drug types, across each district.

- Red figures represent a stock outage the time stock has been zero.
- represents no stock report provided.
- Click on a Health Facility for detailed analysis.



Search

Choose:

Lindi Rural District

	Coartem Blue	Coartem Green	Coartem Yellow	Coartem Red	Quinine
D3S101 KITOMANGA	21	3	9	12	116
D3S102 NYANGAMARA	7	5	6	21	170
D3S103 PANGABOI	9	8	10	10	111
D3S104 RUTAMBA	17	2	9	10	147
D3S139 CHIKONJI	11	5	27	10	120
D3S140 CHIJITA	6	4	5	5	120
D3S141 DIMBA	16	5	9	7	41
D3S142 HINGAVALE	20	14	11	4	150
D3S143 KUMVENI	10	7	11	8	162
D3S144 KILANGALA	15	5	8	9	440

Done "SMS for Life" | Geneva, May 7th, 2010

Start | SMS for Life Imple... | 5 Microsoft Office... | SMS for Life - Repo... | smslongFormFinal... | smsextract1.doc [C... | Lotus Not

SMS for Life (pilot) - Microsoft Internet Explorer provided by Novartis

Address: <http://pilot.smsforlife.org/?token=4f62aeNo7F3q3ta>

MatsSoft user | Help | Sign out

Supplies

Y B R G O YBRG All

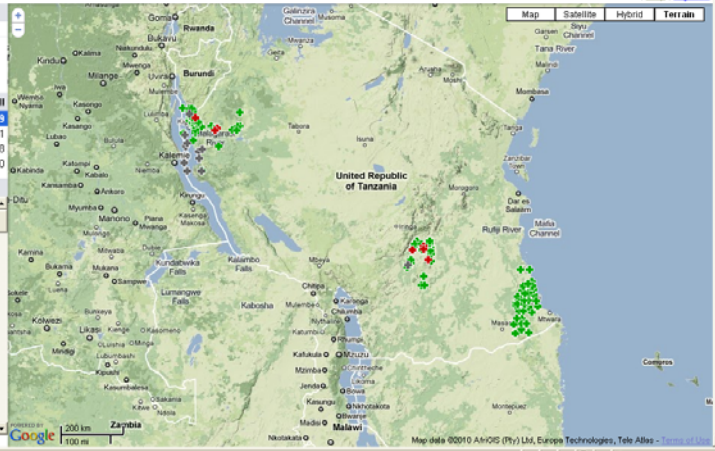
- At least one dose of quinine injectables
- Out of stock in quinine injectables
- Data missing for quinine injectables

Districts

	Y	B	R	G	O	All
All districts	121	7	11	139		
Kigoma Rural	48	3	10	61		
Lindi Rural	48	0	0	48		
Ulanga	25	4	1	30		

Facilities

	Y	B	R	G	O
Basanza	0	10	8	0	49
Digabiro	0	9	0	4	16
Bitale RHC	29	20	0	47	480
Bubungu	19	0	0	24	140
Chagu	1	3	1	1	151
Chakulu	0	0	0	0	0
Chankabatimba	0	10	0	0	26
Chankele	0	8	0	27	140
Chikonji	10	2	3	4	80
Chirombola	29	5	8	5	5
Chiuta	8	6	2	0	60
Dimba	6	14	5	5	40
Ebuyu	18	4	4	0	140
Hereembe	no reports received				
Hingawale	3	4	4	2	124
Idundu	11	1	0	0	37



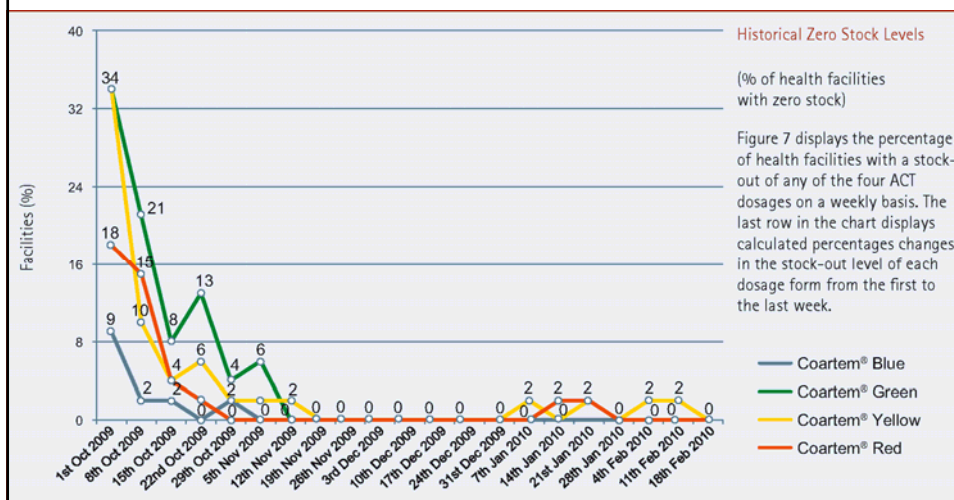
Done

Start | Logout Screen | 4 Microsoft Office... | smsextract1.doc [C... | RBM release on SMS... | Lotus Notes provide... | SMS for Life (pilot) | 10:58 PM

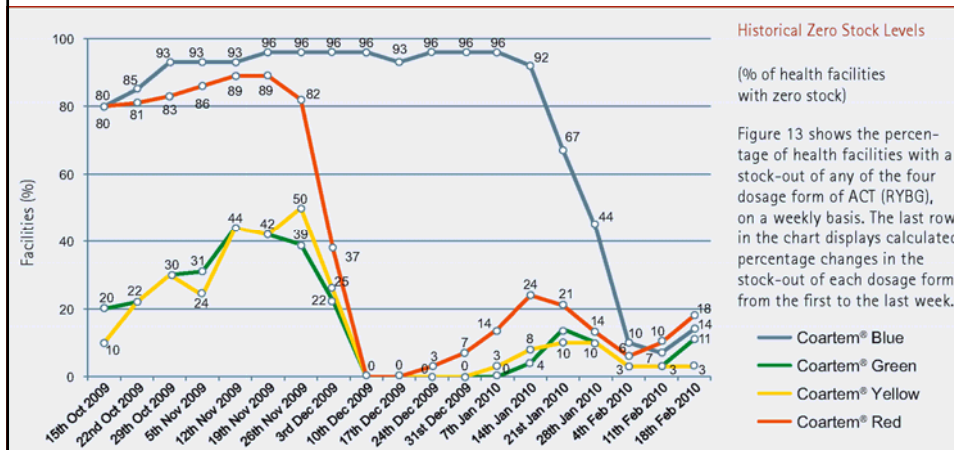
Actionable stock level visibility

- Every Monday morning District Medical Officer and District Pharmacist meet and
 - 1) redistribute between facilities
 - 2) supplement from district store
 - 3) additional order to zonal store
 - 4) finally within 3 months could rely upon the regular quarterly supply frequency:
CMS > zone > district > facilities

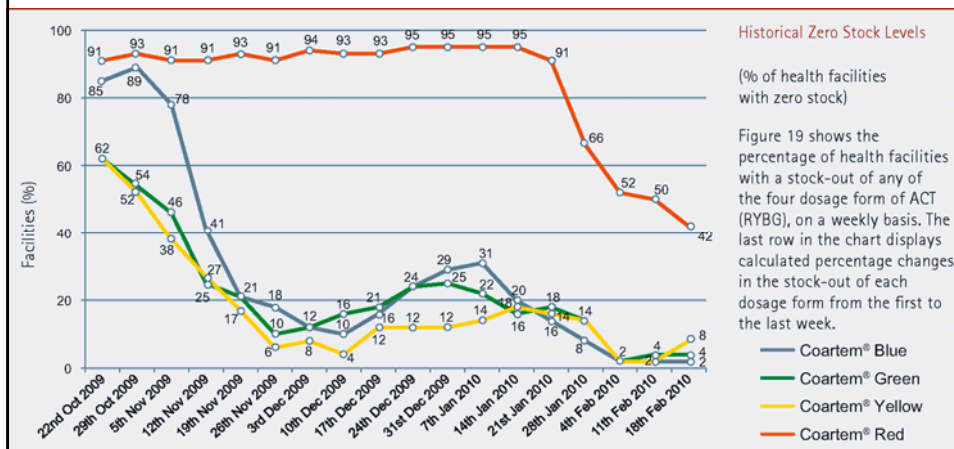
Lindi Rural – % of the 48 facilities with a stock-out by ACT dosage form. (57% stock-out to 0% stock-out)



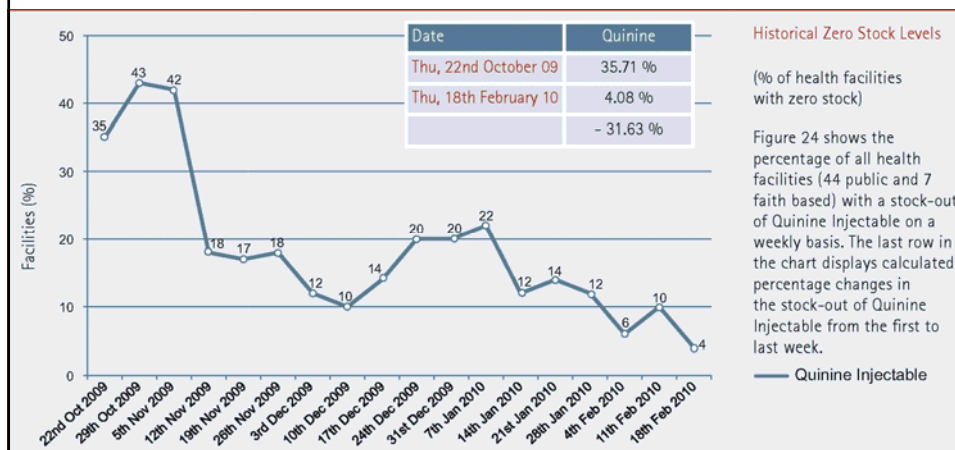
Ulanga – % of the 30 facilities with a stock-out by ACT dosage form (87% stock-out to 30% stock-out)



Kigoma Rural – % of the 51 facilities with a stock-out by ACT dosage form (93% stock-out to 47%)



All Districts – % of the 129 Facilities with a stock-out of Quinine Injectable (36% stock-out to 4% stock-out)



Results – all 5 Medicines

Between the start and the end of the Pilot:

Out of 129 facilities

- had all 5 medicines in stock:
from 29 upto 96 facilities
- had a stock-out of at least 1 drug:
from 77% down to 26%
- A threefold improvement.

Results ACTs

- At the start of the Pilot 26% of facilities had no ACT of any dosage form in stock
- At the end only 1% had no ACT of any dosage in stock
- meaning that 99% of facilities had at least one dose form of ACT in stock.

Preparation and roll-out costs first year

Tanzania example: 131 Districts and 5000 Health Facilities,
approx. \$500,000

= \$100 per facility for the first year

Covers training and operational costs

- Per Diem allowances, food, transport.
- 1400 man days for 131 training session for health workers plus district staff plus travel time
- training materials, posters, training room rental etc.

- Partial year Operational costs during rollout
- Partial year Incentives during rollout year

Operational costs in following years

- **\$100 / facility / year without incentives**
- **\$130 / facility / year with incentives**
- Operational Costs
 - Includes free number rental
 - Includes Consolidator costs
 - Includes sms costs
 - Includes All backend technology and helpdesk support costs.
 - Includes all depreciation and equipment/software replacement costs.
- Smart Phone costs for District - \$750

SMS4L costs compared to ACT costs

Swiss TPH updated its District ACT Forecasting tool and estimates that

in settings with an endemicity similar to Tanzania the landed cost of need/demand for ACTs is about

- \$3,400 / 10,000 inhabitants with RDT use
- \$4,800 / 10,000 inhabitants without RDT use

And therefore estimates that a cost of \$100 – 130 for having the forecasting right and eliminating stockouts is largely justified

Recommendations from the Pilot

- Implement the **SMS for Life** solution in all districts of Tanzania.
- Encourage the use the **SMS for Life** solution to track other medicines of priority.
- Apply the **SMS for Life** solution to disease surveillance.
- Implement SMS for Life in other African or non- African countries that have a need to enhance forecasting and eliminate stock-outs at health facility level.



Thank You



for your time and attention