

Improving Newborn Survival In Southern Tanzania

Mid term feed back
INIST endline 2013



Improving Newborn Survival in Southern Tanzania

- Cluster Randomized Trial
 - 2007-2014
 - 222 health facilities
 - 134 randomized wards
 - Over 800 community volunteers



- Home visits to pregnant women & early newborns
- Advice on
 - Hygiene at delivery
 - Exclusive breastfeeding
 - Extra care for low birthweight babies



Locally-made doll used in counselling



Parent and baby counselling card



Six of the 800 volunteers

Ongoing since 2007



Identifying low birth weight babies

Upimaji wa nyayo za mtoto mchanga





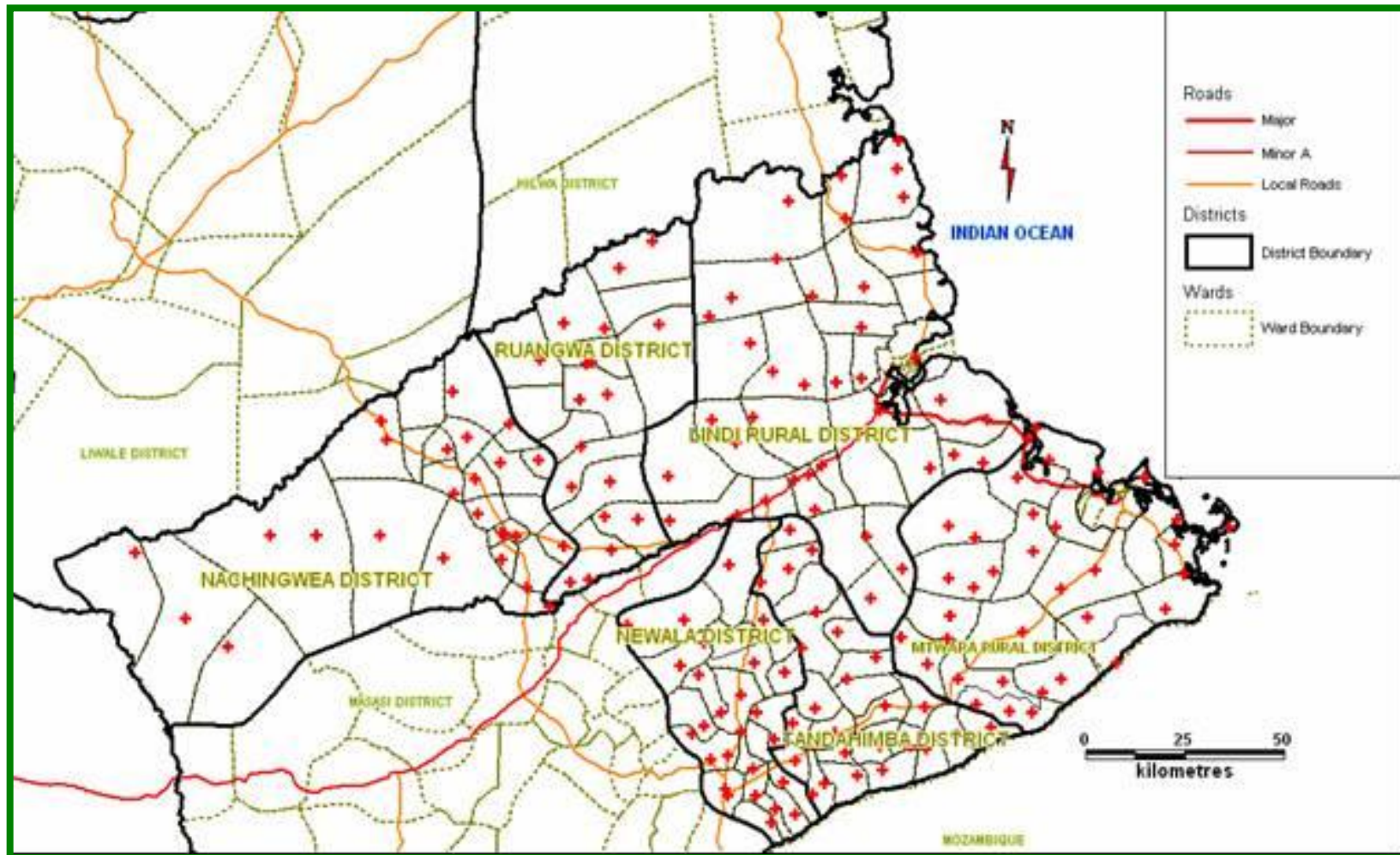
Counselling the family of a newborn baby

Ongoing since 2010



Mtonze Mtoto Mchanga

The study area: Mtwara Rural, Tandahimba, and Newala of Mtwara region and Lindi Rural, Ruangwa and Nachingwea of Lindi Region



The study aims and objectives

- **Primary aim**
- To estimate the effect of *Mtunze Mtoto Mchanga* on survival to 28 days of babies born between 1 July 2010 and 30 June 2013.
- **Secondary aims**
- To estimate the effect of *Mtunze Mtoto Mchanga* on prevalence of newborn care practices
- To estimate the coverage of *Mtunze Mtoto Mchanga* volunteer home visits in pregnancy and the early newborn period
- To estimate coverage of antenatal interventions , place of childbirth, and immediate newborn care indicators
- To estimate maternal mortality in the 4 years prior to the survey

Survival Impact Survey

June – September 2013

200,000 households

4 platoons

20 survey teams

20 supervisors

20 mappers

140 interviewers

2 buses + **16** 4WD

Preparation of the survey

- Updating list of sub-villages and number expected number of households in each
- Sensitization meeting with WEOs and councillors
- Recruitment of 60 new interviewers
- Recruitment of 166 experienced field staff



AFISA MTENDAJI KATA
KATA YA CHAWI
SLP 207
MTWARA
15/06/2013

MAAFICA WATENDAJI VUJI
NOTE - KATA YA CHAWI

YAH: KUWAPISKEA TIMU YA WATAALAMU KUTOKA
IFAKARA CENTRE KUSFUA TAR 15/6/2013

Husika na kuchwa cha-lupo juu
Timu ya wataalamu kutoka Ifakara Centre
watakupea kusanya maeneo yam. Wia ya
kusanya tathmini ya Mama na Mleto
Mchangi na jamii ndani ya Vitangoji
vyam. ambayo wao wanayona wamepau
nga.

Naomba kuboaz ushirikiano wakazi
wa Zeezi hito kwa Vitangoji watajipambika
zi.

Ahsante
[Signature]
S. MAWLA
AFISA MTENDAJI KATA
- CHAWI -
WEO CHAWI.

Gaining support from
local official

Training of facilitators

- 10 days on interviewing, mapping, facilitation and including 3 days of piloting



Role play on good and bad facilitation skills



3 weeks training
226 potential field staff



Small group practice with Personal Digital Assistants for data entry



Another skill to learn:
Tent packing



Last instructions for the first piloting

Elibariki Mkumbo
Survey Co-ordinator

15 jun13



Fatuma Manzi, co-PI with trainee mappers and supervisors



Training the supervisors

Data management and quality control



The Survey Team



Not forgetting the survey team drivers



Team building



Getting ready...



All finally we got on and into the cars....



Team leaving , fully packed with mattresses, tents, generators, supplies and equipment and 200 capacitated and motivated survey staff members

Each survey day...

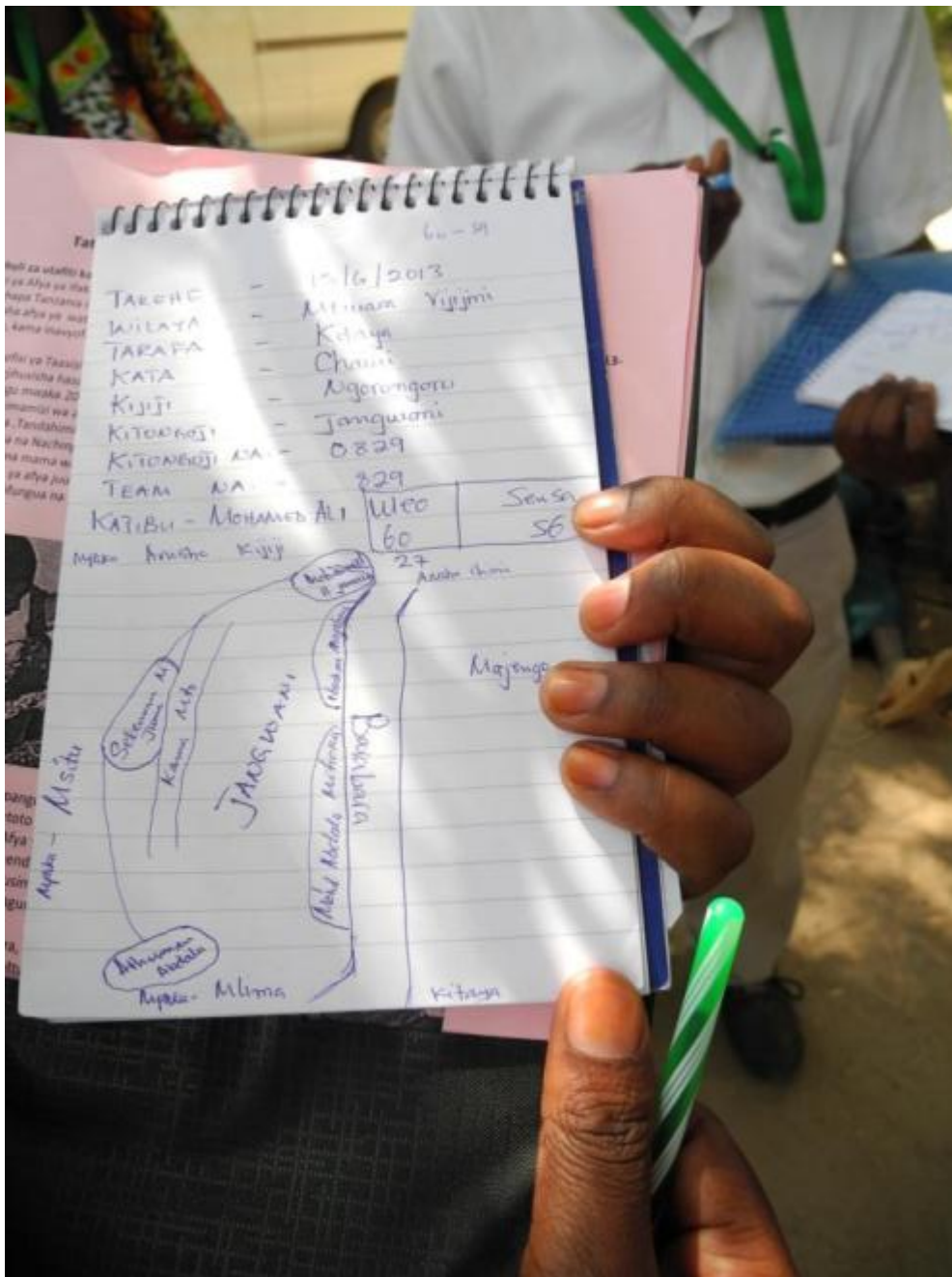
- Commanders plan the daily workload with help of a platoon management tool
- Mappers are mapping at least 1 sub-village
- Seven interviewers are each conducting 15 household interviews
- Supervisors do quality control, summarize, document and analyze the daily progress



Mapping

- Mappers introduce the survey to each household by handing out a letter of invitation to participate; take geographical information data (GIS); and make a complete list of all households to be interviewed





Segmentation of
 larger sub-villages
 for sampling



Nobody present.....

The household listing

- Supervisors divide the work and assign households to each interviewer based on this household list produced by the mapper

No.	Name	Address	Other
1	Abdullah MANSUR	...	
2	
3	
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- Interviewers interview each on average 15 households per day

Seeking consent



Interviewing



Interviewing

Katibaizi ya ajira ya mama na mtoto katika wilaya zote 2012/Evaluation on maternal and child health in six districts 2012

Demografia kaya katika kitongoji kwa mihajaji

Kimwami: MSWALA
Mwenzaji wa kitongoji: TUMA ALI MUYILA
Kiji: MUYIGA B.

Idadi ya watoto: 1366

Kuna Nambari	Jina la Mama wa kaya	Mama	Wajizi	Uchumi unachohujia	Idadi ya Watoto	Wazazi D-20			
						Idadi	Wajizi	Wazazi	Wazazi
001	SABIDI LUFI		MWYO	MWYO	2	0	0	0	
002	MWYOMA MUMBE		MWYO	MWYO	2	1	0	0	
003	ABIDI MUMBE		MWYO	MWYO	5	2	1	1	
004	SABIDI MWINI		MWYO	MWYO	7	3	2	2	
005	KIKILA MUMBE		MWYO	MWYO	7	1	1	1	
006	MUMBE MUMBE		MWYO	MWYO	2	3	3	3	
007	SABIDI MUMBE		MWYO	MWYO	0	0	0	0	
008	SABIDI MUMBE		MWYO	MWYO	0	0	0	0	
009	SABIDI MUMBE		MWYO	MWYO	0	0	0	0	
010	SABIDI MUMBE		MWYO	MWYO	0	0	0	0	
011	ADALLA MUMBE		MWYO	MWYO	5	0	0	0	
012	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
013	SABIDI MUMBE		MWYO	MWYO	4	1	1	1	
014	SABIDI MUMBE		MWYO	MWYO	2	1	0	0	
015	SABIDI MUMBE		MWYO	MWYO	2	1	0	0	
016	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
017	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
018	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
019	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
020	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
021	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
022	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
023	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
024	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
025	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
026	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
027	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
028	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
029	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
030	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
031	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
032	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
033	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
034	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
035	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
036	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
037	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
038	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
039	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
040	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
041	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
042	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
043	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
044	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
045	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
046	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
047	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
048	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
049	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
050	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
051	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
052	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
053	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
054	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
055	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
056	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
057	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
058	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
059	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
060	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
061	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
062	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
063	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
064	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
065	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
066	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
067	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
068	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
069	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
070	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
071	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
072	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
073	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
074	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
075	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
076	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
077	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
078	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
079	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
080	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
081	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
082	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
083	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
084	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
085	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
086	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
087	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
088	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
089	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
090	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
091	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
092	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
093	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
094	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
095	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
096	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
097	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
098	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
099	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	
100	SABIDI MUMBE		MWYO	MWYO	1	0	0	0	

Interviewers document their work. Supervisors synchronize the PDAs, then compare a hand-written work sheet with the laptop output and resolve any differences the same day

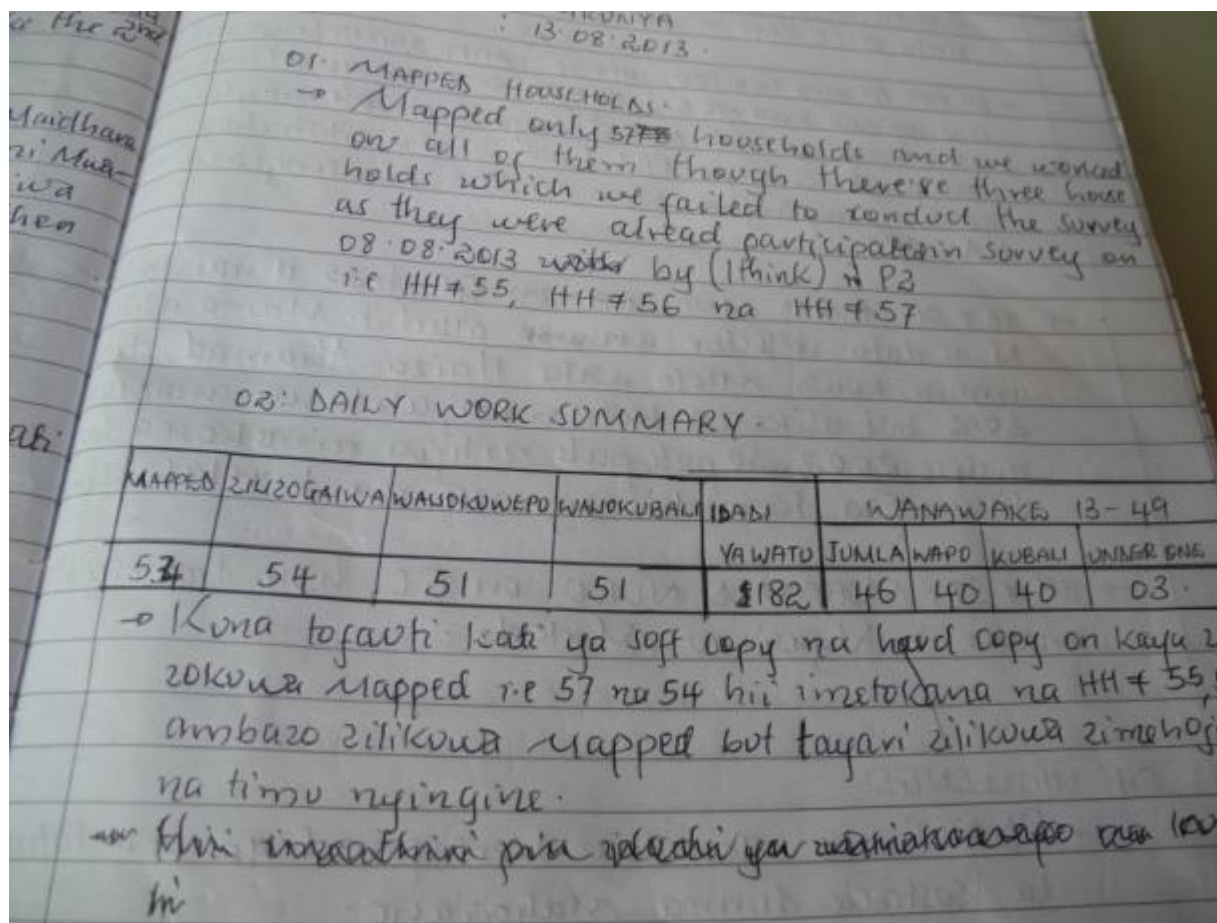
The supervisors work: quality control



- At least 4 accompanied interviews
- 4 re-interviews for randomly selected households
- GIS coordinates for 2 randomly selected households for mapping quality control
- Review of consent forms
- Compare interviewers daily worksheet with electronically available data



Accompanied interviews



Additional documentation including error reporting by interviewers

INSIST 2013 -Improving Newborn Survival In Southern Tanzania.

Platoon 1 *Kumavelu*

#Fitongoji Assigned: 535 Visited: 24868 [96%] Start date:

#Fitongoji Completed: 275 Absent: 1601 [6%] #Days passed:

Expected household: 25850 Refused: 402 [1%] Completeness:

Mapped household: Interviewed: 23512 [94%] est. End date:

of wards covered:

Assigned Wards: Teams Work Dates Assign Work Team Work Sheet Pogress so far... Export Data Time [Section N]

District: # of Vitongoji Assigned to YOU: 131 Other PLATOON: 131

Division	WARD NAME		Mtunza	#VILLAGES		#SUBVILLAGES		#Vitongoji Assigned		STATUS
	2007	2013		2007	2013	2007	2013	Your Platoon	Other Platoon	
Mchinga	Kilolambwani	Kilolambwani	N	7	7	20	20	10	10	Completed
Mchinga	Mbanja	Mbanja	N	3	3	13	13	8	5	Completed
Mchinga	Mchinga	Kilangala	Y	4	4	13	13	6	7	Completed
Mchinga	Mchinga	Mchinga	Y	2	2	7	7	4	3	Completed
Milola	Rutamba	Rutamba	Y	7	7	20	20	10	10	Completed
Mingoyo	Kiwalala	Kiwalala	N	7	7	20	20	10	10	Completed
Mipingo	Kitomanga	Kitomanga	Y	2	2	12	12	6	6	Completed
Mipingo	Mipingo	Mipingo	Y	5	5	21	21	10	11	Completed
Mtama	Mtama	Mtama	Y	4	4	7	7	3	4	Completed

Commanders plan the daily work with help of the platoon management tool



The monitoring tool shows absenteeism of the household heads and women of reproductive age for each interviewer and each team

Data saving

- Data is saved after each interview on the SD card in the PDA
- Each day all data from one team are synchronized and stored on the supervisor's laptop
- Each day the supervisors gives the data to the commander
- Each day the data are send by commanders in an encrypted format to drop-box
- Each week a DVD is prepared from each platoon, and data are transferred to the server in Mtwara and the DVDs are kept in a separate place

INSIST 2013 -Improving Newborn Survival In Southern Tanzania.

Platoon 1 Kumawelu

Kitongoji Assigned: 535 Visited: 24868 [96%] Start date:

Kitongoji Completed: 275 Absent: 1601 [6%] # Days passed:

Expected household: 25850 Refused: 402 [1%] Completeness:

Mapped household: Interviewed: 23512 [94%] est. End date:

of wards covered:

Assigned Wards Teams Work Dates Assign Work Team Work Sheet Progress so far... Export Data Time [Section N]

Available Dates

Date	Kitongoji #	Team #	# of households
<input type="radio"/> 29/08/2013	<input checked="" type="checkbox"/> 2077	5	97
<input checked="" type="radio"/> 28/08/2013	<input checked="" type="checkbox"/> 2102	1	119
<input type="radio"/> 27/08/2013	<input checked="" type="checkbox"/> 2103	2	60
<input type="radio"/> 26/08/2013	<input checked="" type="checkbox"/> 2105	4	115
<input type="radio"/> 25/08/2013	<input checked="" type="checkbox"/> 2114	2	1
<input type="radio"/> 24/08/2013	<input checked="" type="checkbox"/> 2253	3	119
<input type="radio"/> 23/08/2013			
<input type="radio"/> 22/08/2013			
<input type="radio"/> 21/08/2013			
<input type="radio"/> 20/08/2013			
<input type="radio"/> 19/08/2013			
<input type="radio"/> 17/08/2013			

 Export completed

Jaza idadi ya siku kwanza

Sending the encrypted data to drop-box



In the evening all electronic equipment needs to be charged



The survey accommodation....



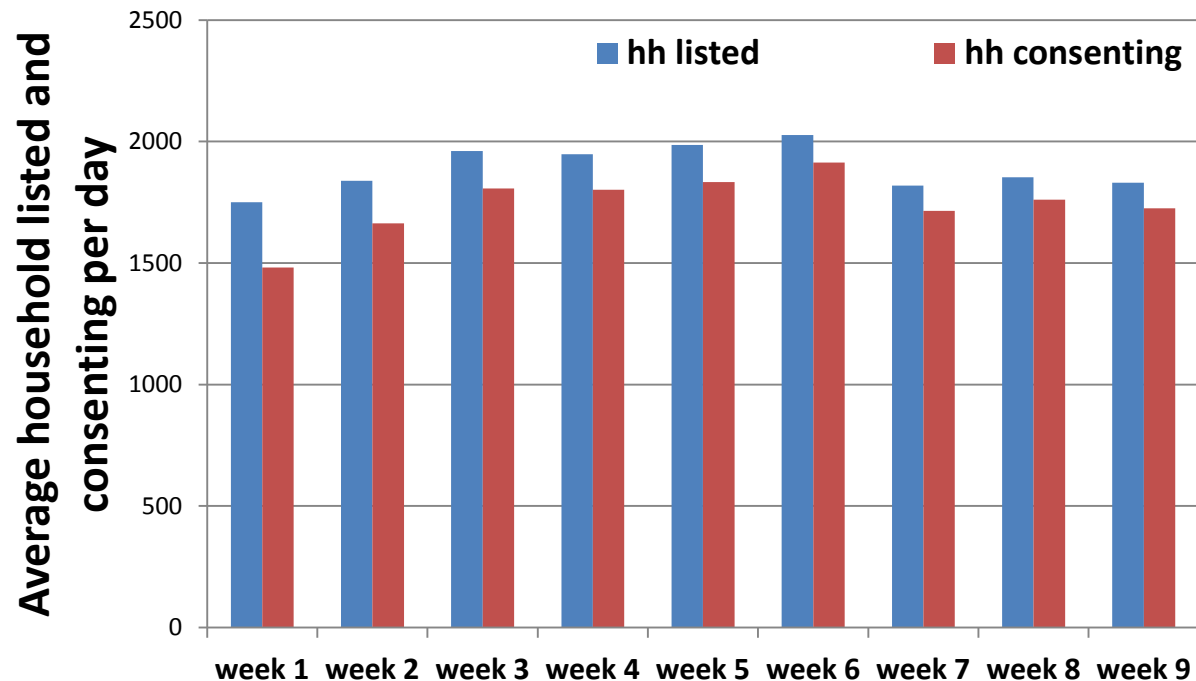
Sunday is time for football



....and washing clothes

Half time progress:

- We included 98,046 households records after 2 months and 90,388 households agreed to participate (92%)





Improving Survival Impact Survey Newborn Survival In Southern Tanzania

June – October 2013

