Activities of Uganda SRL

Moses Joloba

Training

Support to other countries - Training

Name	Country	Unit	Content	Date
Mr. Igembe	Tanzania	BMC Mwanza	Microscopy, culture and DST	1st -30th Sep 2010
Mr. Jonathan Greene	Sierra Leone	GLRA	Microscopy, culture and DST	1st Nov -17Dec 2010
Ms Simatwa Sophia	Kenya	AMPATH TB lab in Eldoret,	1st & 2nd line DST,Line Probe Assays, QA/QC program	31st -Jan2 to 19th Feb 2011
Mr. Magut Conelius	Kenya	AMPATH TB lab in Eldoret,	1st & 2nd line DST,Line Probe Assays, QA/QC program	31st -Jan2 to 19th Feb 2011
Ms Kamanzi Eliane	Rwanda	National Reference Laboratory	1st & 2nd line DST,Line Probe Assays, QA/QC program	1st -30th Mar 2011
Mr. Ngaboniza Claude	Rwanda	National Reference Laboratory	1st & 2nd line DST,Line Probe Assays, QA/QC program	1st -30th Mar 2011
Ms Mzyece Judith	Zambia	National Reference Laboratory	MIRU RLFP 2nd line DST Data management	12th Apr - 12th May 2011

Support to other countries - Training

Name	Country	Unit	Content	Date
Mr. Anthony Worri	South Sudan	Sudan NTRL	Microscopy, culture and DST	1st -30th Sep 2011
Mr. Habib	South Sudan	Sudan NTRL	Microscopy, culture and DST	1st Nov -17Dec 2011
1. Mr. Mweemba 2. Ms Sheeba Musonda	Zambia	Chest Disease laboratory	MODS, NRA General lab practice and Molecular tests	01st -12 Aguest 2011
1. Dr. Ahmed Gule 2. Mr. Mohamed Edowo 3. Abdikarim Mohamed	Somaliland	Physician for Social Responsibility-Finland TB project (Hargeisa)	Safety practices, MODS, NRA and other TB diagnostic technquies	11th Sept- 05th November 2011
1. Mr. Robertson Chibumbya 2. Mr.Olipa soko 3. Mr. Sunday Siwale 4. Mr. Alan Cholde 5. Ms. Chilambwe Mwile 6. Rugaju Alex	Zambia	• Tropical Disesease Research • FHI TB care • Chest Disease laboratory	GCLP, laboratory management Equipment evaluation, Molecular diagnostics	05th -16th March 2012

Provision of Proficiency DST Panels

- Zambia
  - CDL

Provision of QC strains

- Tanzania
- Zambia
- South Sudan
- Somalia

Sharing of SOPs

- Zambia
- South Sudan
- Tanzania
- Somalia
- Nigeria

Setting up of AFB Microscopy EQA system

- South Sudan

Setting up entire quality management system

- Zambia
  - UTH

Writing a TB lab network strategic plan

- Tanzania

Setting up a GeneXpert network

- ## Somali land
    - Training
    - Installation
    - Follow up support (calls, e-mails)

Setting up a specimen referral system

- Ethiopia

Assist in designing a P3 laboratory

- South Sudan
- Zambia
  - UTH

Provide further lab testing

Country	Tests performed
Kenya	DST (1st and 2nd line)
Tanzania	DST (1st and 2nd line), MIRU-VNTR
Rwanda	MTB speciation, MIRU - VNTR
Zambia	MIRU-VNTR and spoligotyping

Country visits

- Zambia

- South Sudan

- Tanzania

- Somalia
  - Perform network (culture, microscopy and molecular) assessments
  - Provide recommendations

Capacity for future support

What we can do

- Training
    - In Uganda
    - Home country

- Writing strategic plans

- Writing in country proposals

- Providing further testing
    - As countries build capacity

Diagnostic tests available for referral or training

- Microscopy
  - ZN
  - LED

- Culture
  - LJ
  - MGIT960
  - GeneXpert – Diagnostic
  - NRA
  - MODS

- DST (1st and 2nd line)
  - LJ
  - MGIT
  - LPA (1st and 2nd line)
  - GeneXpert – Rif

- ID
  - Capilia
  - PNB
  - LPA

- Epidemiology
  - RFLP
  - Spoligotyping
  - MIRU –VNTR
  - RD analysis

Sharing expertise

- Logistic management tools

- Laboratory information system
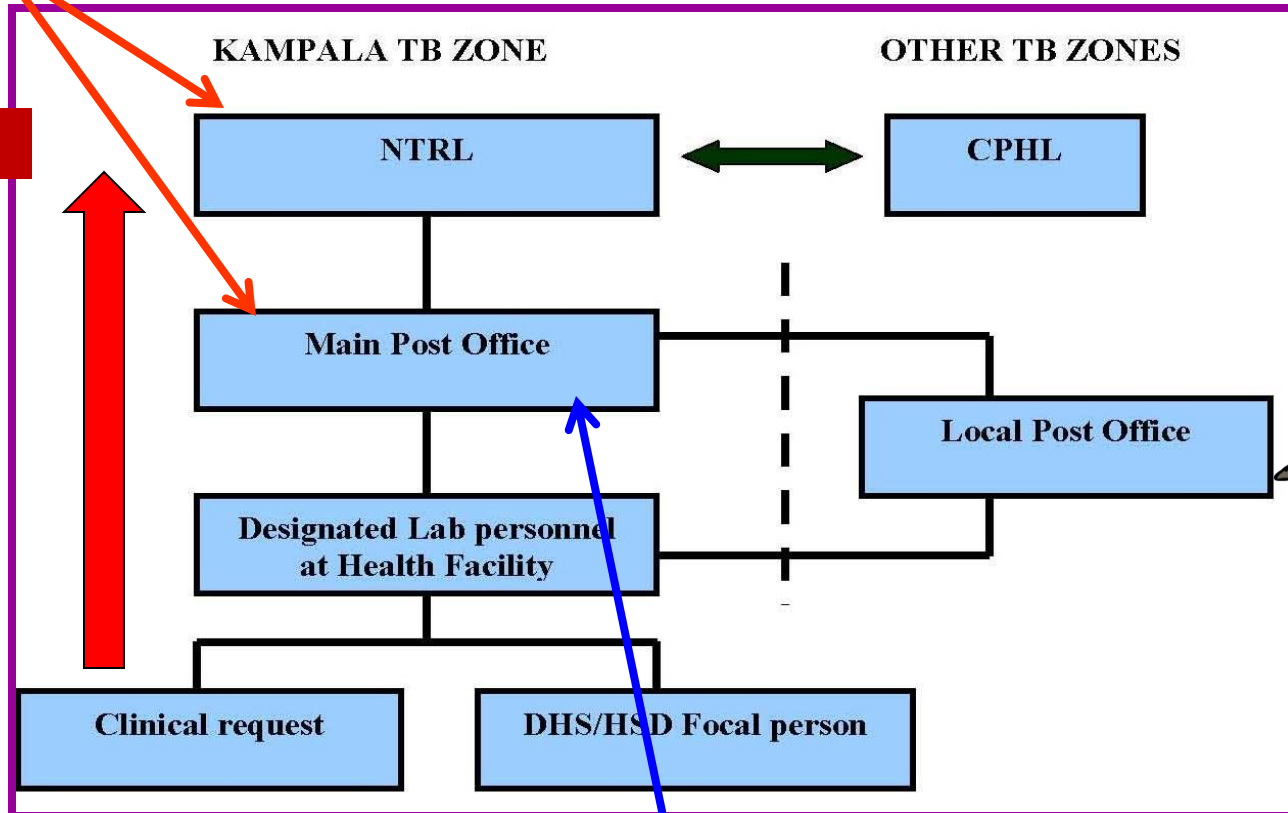
Quality management Systems

- Uganda NTRL has been 5 stars twice in a row

- Awaits ISO15189 accreditation
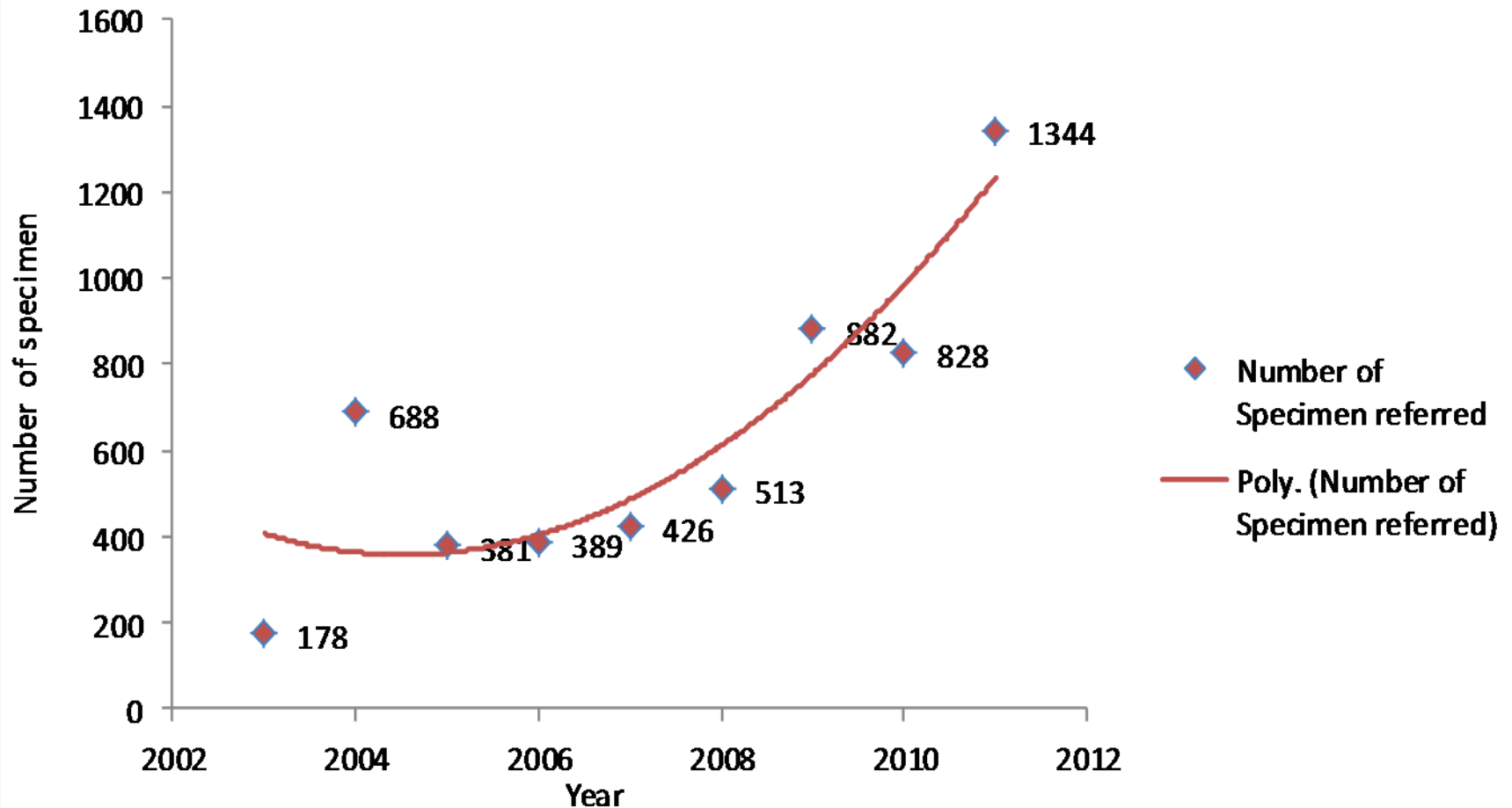
Setting up sample referral systems

Toll free line

Samples

LIS –
COMPUTER
SOLUTIONS

KAMPALA TB ZONE

OTHER TB ZONES

NTRL

CPHL

Main Post Office

Local Post Office

Designated Lab personnel at Health Facility

Clinical request

DHS/HSD Focal person

Partnering with Post Office, member of Stop TB

Results sent by SMS

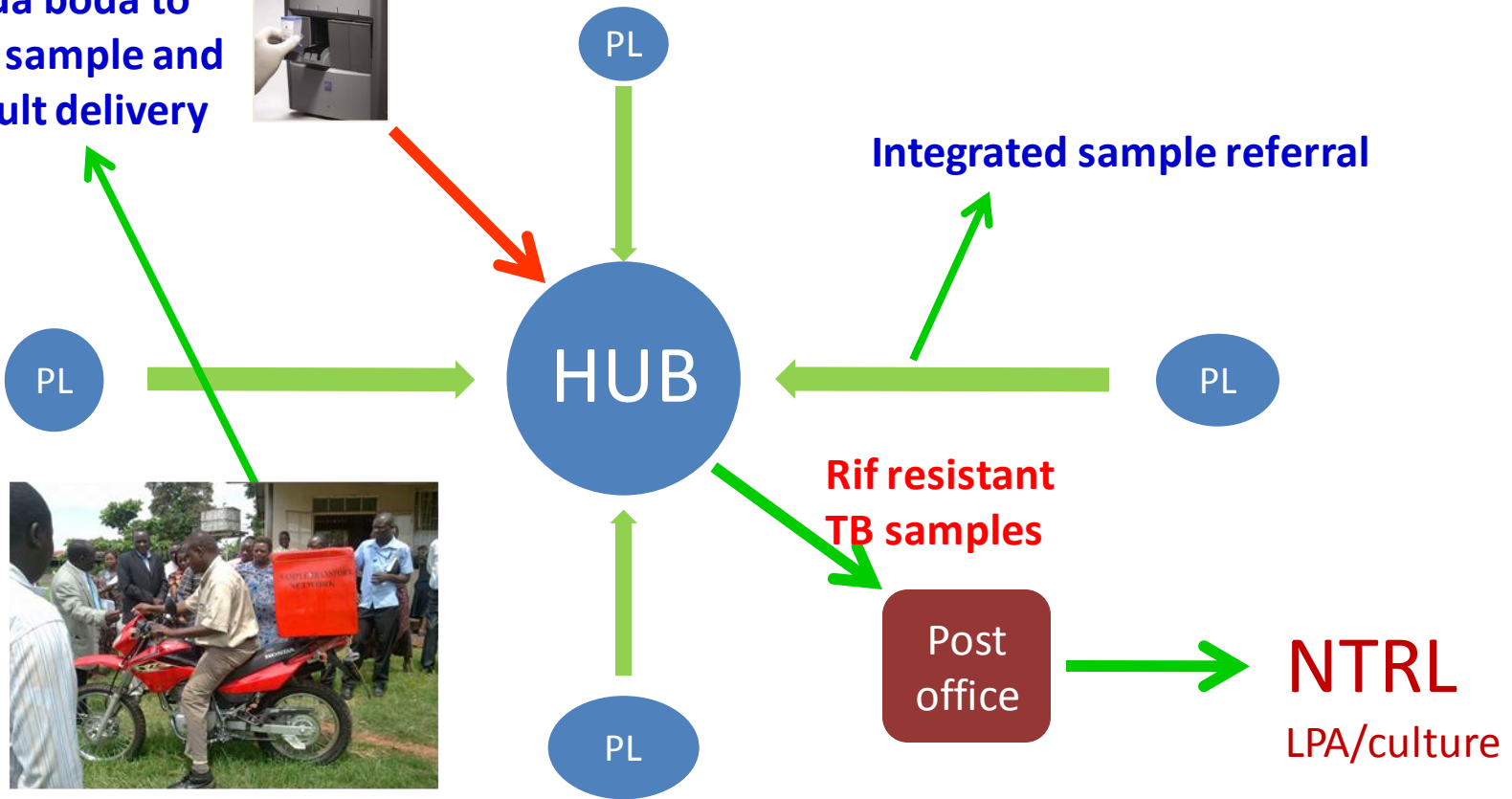# Number of Suspect MDR-TB Specimen referred

NO.OF DAYS BETWEEN COLLECTION AND RECEIPT OF SAMPLES
Jan-2011-Dec 2011

No. of days		No .of samples	Percent	Valid Percent	Cumulative Percent
Valid	0	4128	71.0	71.0	71.0
	1	846	14.6	14.6	85.6
	2	301	5.2	5.2	90.7
	3	201	3.5	3.5	94.2
	4	101	1.7	1.7	95.9
	5	45	.8	.8	96.7
	6	48	.8	.8	97.5
	7	48	.8	.8	98.4
	8	24	.4	.4	98.8
	9	15	.3	.3	99.0
	10 - 19	56	.8	.8	100.0
	Total	**5813**	**100.0**	**100.0**	

94.2% of samples came within the set TAT of 3 days

Collection HUBs to improve access to the peripheral centers

Boda boda to aid sample and result delivery

PL

Integrated sample referral

PL

HUB

PL

Rif resistant TB samples

PL

Post office

NTRL
LPA/culture

Setting up an AFB Blinded rechecking
(ZN and FM)

Comparison of National EQA Analysis 2006-2011

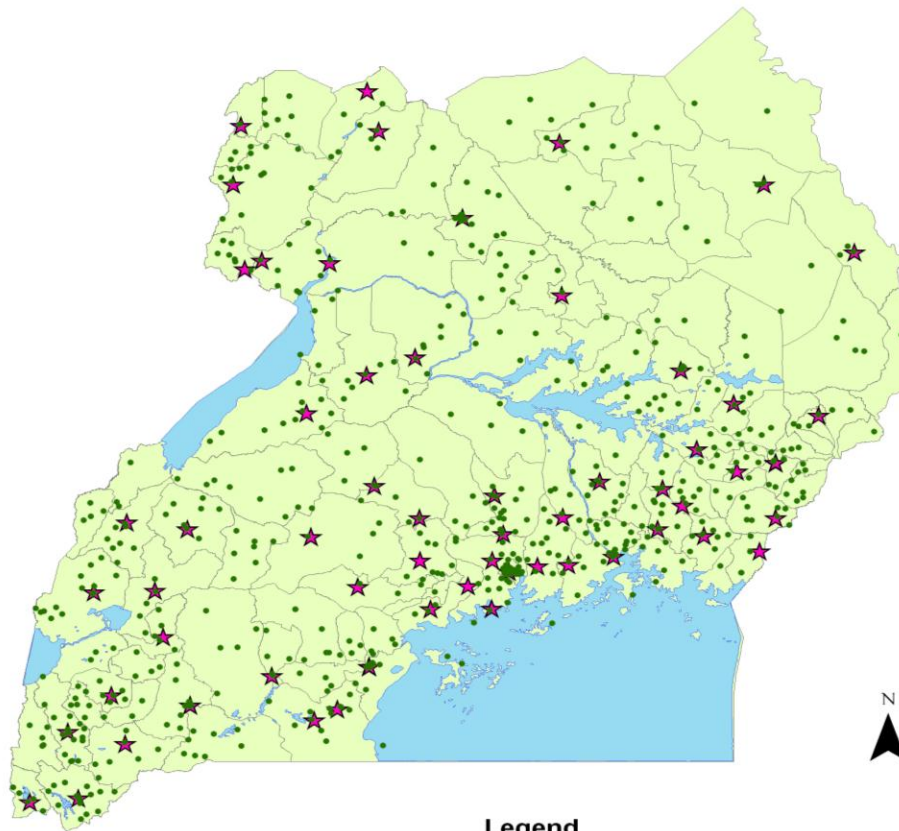|	2006		2007		2008		2009		2010		2011	
	No.	%	No.	%	No.	%	No.	%	No.	%	N0.	%
Number of operational laboratories	303		592		801		839		961		1091	
Number of those rechecked (%)	272	90%	388	66%	658	82%	810	97%	899	94%	987	90%
Number of positive slides rechecked	1295		1660		3583		4,253		4745		4589	
Number of negative slides rechecked	4802		6514		13418		16,654		20305		20570	
Overall percentage positives in the laboratories' routine	16%		16%		15%		15%		14%		13%	
Overall percentage high false positives	11%		12%		10%		8%		8%		7%	
Overall percentage false negatives	5%		3%		3%		3%		3%		2%	
Overal percentage true positives / all positives	89%		88%		90%		93%		92%		93%	
Overall detection proportional to the controllers	0.84		0.88		0.87		0.90		0.93		0.92	
Number (%) of laboratories with more than 1 HFP	33	12%	41	11%	76	12%	68	8%	74	8%	60	6%
Number (%) of laboratories with 100% true positives	0		68	54%	355	61%	206	57%	541	70%	612	74%
Number (%) of laboratories with 95-99% true positives	0				1	0%	2	1%	0	0%	0	0%
Number (%) of laboratories with 90-94% true positives	0		5	4%	24	4%	24	7%	35	5%	22	3%
Number (%) of laboratories with 85-89% true positives	0		8	6%	43	7%	57	16%	43	6%	48	6%
Number (%) of laboratories with <85% true positives	0		45	36%	156	27%	74	20%	151	20%	145	18%
Number of laboratories with insufficient data to calculate this parameter	272		262		79		447		129		160	
Number (%) of laboratories with more than 1 FN	60	22%	51	13%	75	11%	89	11%	116	13%	90	9%
Number (%) of laboratories as good as controllers at detecting positives (>=0.95)	0		60	51%	370	65%	462	57%	518	69%	611	75%
Number (%) of laboratories almost as good as controllers at detecting positives (0.85-0.94)	0		12	10%	50	9%	54	7%	50	7%	30	4%
Number (%) of laboratories moderately good at detecting positives (0.75-0.84)	0		11	9%	48	8%	35	4%	52	7%	42	5%
Number (%) of laboratories doing poorly at detecting positives (0.50-0.74)	0		18	15%	59	10%	71	9%	86	11%	93	11%
Number (%) of laboratories doing very poorly at detecting positives (<0.50)	0		16	14%	39	7%	185	23%	47	6%	36	4%
Number of laboratories with insufficient data to calculate this parameter	272		271		92		3		146		175	

Sharing expertise

- Setting up a culture network

- Developing a GeneXpert implementation plan

- Setting up biosafety standards

-

Setting up Biosafety standards

Setting up and utilization of a GIS

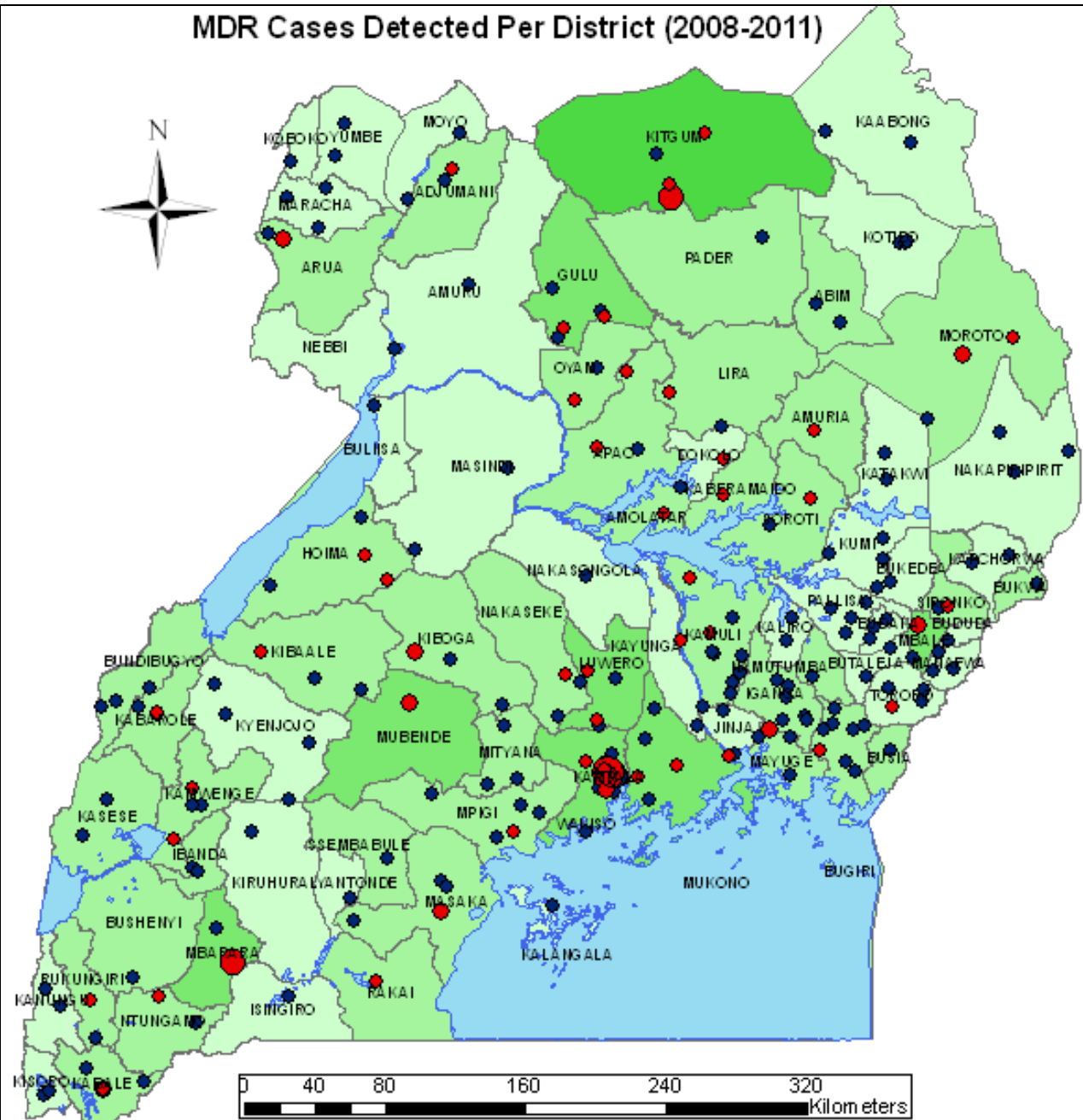
All Health Centers and Post Offices
mapped in Uganda, 2011

Legend

- Health Centers
- ★ Post Offices
- lakes
- Districts (2010)

90   45   0   90 Kilometers

GENEXPERT SITES (planned and existing)

- 100 in 2 yrs

- 200 in 5 yrs

Legend
- Proposed sites (red)
- On Waiting List (yellow)
- Existing Sites (black)
- lakes

0 25 50   100   150   200 Kilometers

MDR Cases Detected Per District (2008-2011)
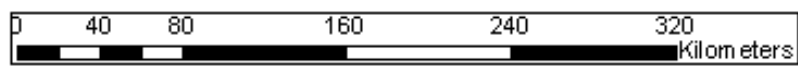
Country visits

- Perform in country assessments

- Provide on site guidance and sharing of experiences

- Provide in country advocacy

Thank you !!!