

comore 2 hilippines

Database and decision-support update Steering Committee meeting January 2019







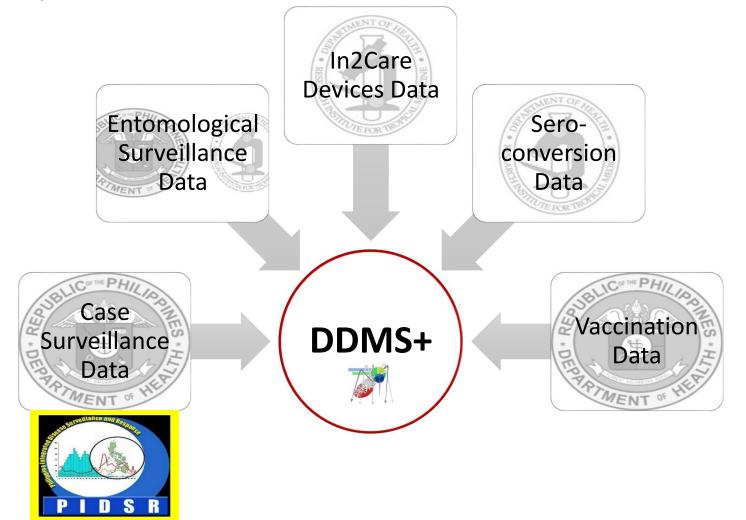
Activities

- Needs analysis
- Configuration of the system
 - Geography, forms and data entry process
- Geolocalisation of historical cases and cluster site selection
- Historical data import
 - Case surveillance, vaccination, entomological surveillance
- Training for RITM/DoH

Needs analysis

- Objective is to understand...
 - The technical requirements of their data systems
 - The determinants of data use (technical, institutional, behavioural factors)
- Focused on Lipa City Health Officials
- Info acquired through email/phone communication and face-to-face
 - Technical aspects of data collection and processing (what, who, when, how)
 - How is data used? (reports, meetings, decision-making)

Needs analysis – data sources



Entomological Surveillance

Data	Desusiling M/s -th	Canditian		
Date : Name of Barangay :	Prevailing weather Purok/Sitio	Condition		
Name of School/Public Building :				
Province/Region :				
1. Survey Results :				
A. Total No. of houses surveyed				
B. No. of houses (+) for Aedes la	rvae/pupae			
C. Total No. of containers inspect	ed			
D. No. of containers (+) for Aedes	s larvae/pupae			
E. No. of persons who slept in the he	ouse the night before the su	rvey		
F. No. of Aedes pupae identified				
2. Larval / Pupal Indices :				
G. House Index(HI) = (B/A x 100)			
H. Container Index(CI) = (D/C x				
I. Breteau Index(BI) = (D/A x 100				
J. Pupae per Person Index (PPI)				
3. Larvae / Pupae Identified :	Lange			
	Larvae No. %	No.	pae %	
K. Aedes aegypti	110. 70	NO.	70	
L. Aedes albopictus		+		
M. Other species				
TOTAL				
4. Analysis/Interpretation :	F		••	
Dengue sensitive/high risk : H	I > 5% and/or BI > 20 : I	PPI > 1%		
Dengue low risk : H				
_	,			
5. Findings/Observations				
6. Actions Taken				
7. Recommendations				

NATIONAL DEN			ONTRO	Dengue Form - 5				
		MOLOGICAL		PROGRAM				
	QUE	STIONAIRE						
House No.		Name of Coherel 16						
Municipality/City : Head of the Family :		Name of School, If /	Applicable : _					
Head of the Family : Age : Sex : Status : Occupation :		Purok/Sitio :						
Occupation : No. of person in the household w	to slept the pight	Barangay :						
I. Building Structure : (Please Ct Concrete	ieck)	Shanty		No. of rooms				
Concrete Semi -Concrete Light/wooden		Shanty Single storey 2 or more storeys		Screened Unscreened				
Light/wooden		2 or more storeys	_	Unscreened				
II. Types of water containers present.								
		ONTAINERS		NO. OF CONTAINERS (*)	RESULTS/			
A. INDOOR CONTAINERS	WITH	COVER	TOTAL	FOR LARVA/PUPA	NO. OF LARVAE	NO. OF PUPAE		
1 100	COVER	COVER				<u> </u>		
1. Jar								
2. Jug/pltcher						<u> </u>		
3. Drum								
4. Tin can						<u> </u>		
5. Flower vase						├─── ┤		
6. Bottle						<u> </u>		
7. Ant trap						<u> </u>		
8. Dish Drain Board						├ ──┤		
9. Others, specify						L		
9a.								
96.								
B. OUTDOOR CONTAINERS								
1. Jar								
2. Jug/pltcher								
3. Drum								
4. Tin can								
5. Flower vase								
6. Bottle								
7. Tire								
8. Ant trap								
9. Others, specify								
9a.								
9b.								
9c.								
9d.								
C. NATURAL CONTAINERS								
1. Plant axils								
2. Tree holes								
3. Ground/rock holes								
4. Coco shells								
5. Bamboo stumps								
6. Others, Specify								
6.a.								
6.b.								
6.c								
Total								
						I		
Surveyed by :								
Date :								

Needs analysis

- Process slower than anticipated!
- Next steps
 - National Stakeholders meeting 8 Feb 2019
 - Interviews with Lipa City Officials to better understand data use
 - Identify gaps that the DDMS+ could fill

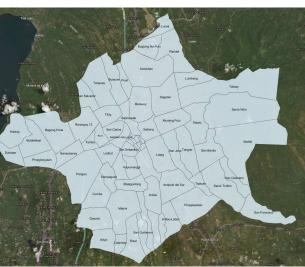
Configuration of the system

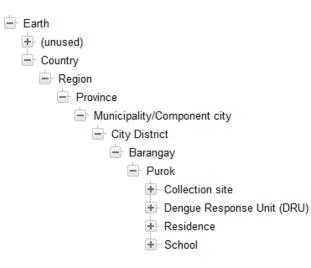
- Defining...
 - geography
 - forms required, data fields, data validation rules
 - data entry procedures

Geography



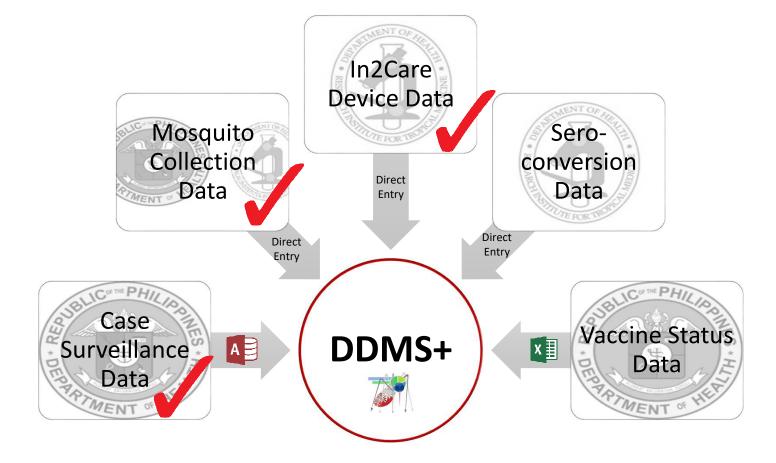






Lipa City

Forms/dataset creation



Forms/dataset creation

In2Care Mosquito Trap

* Trap ID			
* Event			
* Date of Event			
* Operator]		

Search: Create

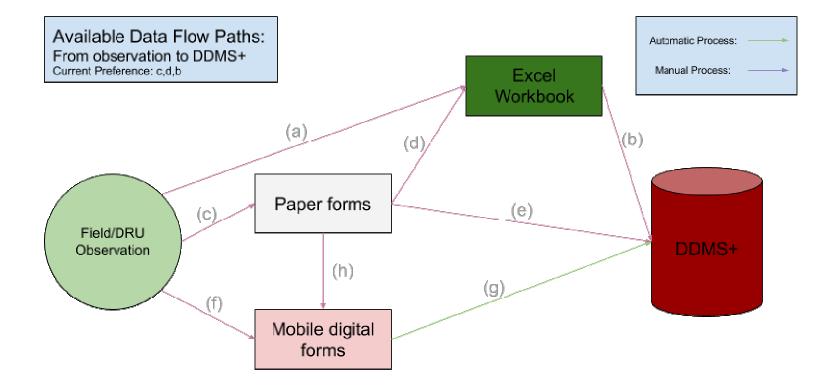
Trap ID Date of Event Operator 1-0 / 0 Export Excel template Export to Mobile Import Excel file

Forms/dataset creation

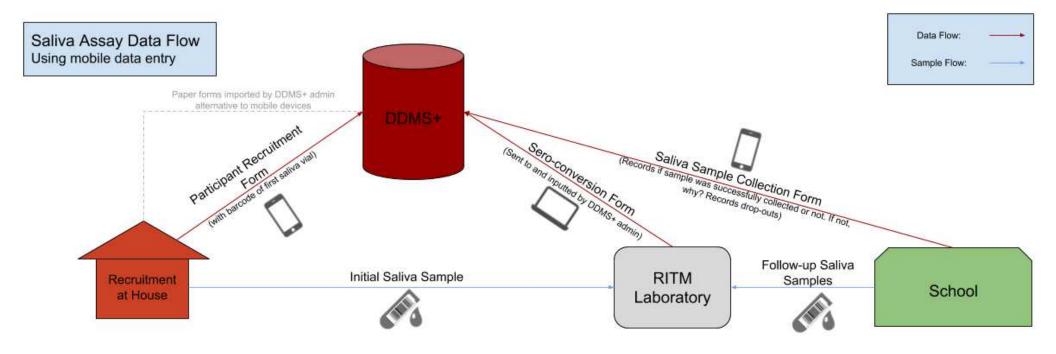
Enter immatures by container type

	Container type	# containers	# with water	# destroyed	# treated with larvicide	# with immatures	# with larvae	# with pupae	# larvae collected	# pupae collected
	Bucket (5- 20 liters) Cement									
	cistern (>200 liters) Cement									
	trough (20- 40 liters) Drum (200 liters)									
	Flower pot Large container									
ed	(5-20 liters) Large earthen jar			1		1	1			
	(40-60 liters) Small container		1	1]	1	1			1
	(<5 liters) Swimming pool									
	Tire Vase Water tank									
	(>200 liters) Save	L	1	1	JL	1	1	1		

Configuration – Data entry process



Configuration – Data entry process



- Barcode codes contain unique but random number. Barcodes may be generated using free software, requires more investigation. Barcodes can be printed on regular paper and attached to saliva container with clear tape.
- Before recruitment, barcodes randomly applied to tubes. A tube is presented to recruited participant, barcode is scanned using mobile device and recorded on participant recruitment form. This becomes
 participant's study ID.
- Further barcodes are made for participants' Study IDs only and applied to follow-up tubes. Tubes organised by school and by class. Tubes may also have participant name on a separate sticker to be removed after saliva sample is deposited.
- RITM's lab will need to be supplied with a barcode scanner. We need to confirm that they would be able to scan barcodes and integrate it into their workflow.

Geolocalisation

Digitisation

Physical Mapping

Barangay Captains provided with printed shapefiles of their Barangay. Will draw Puroks

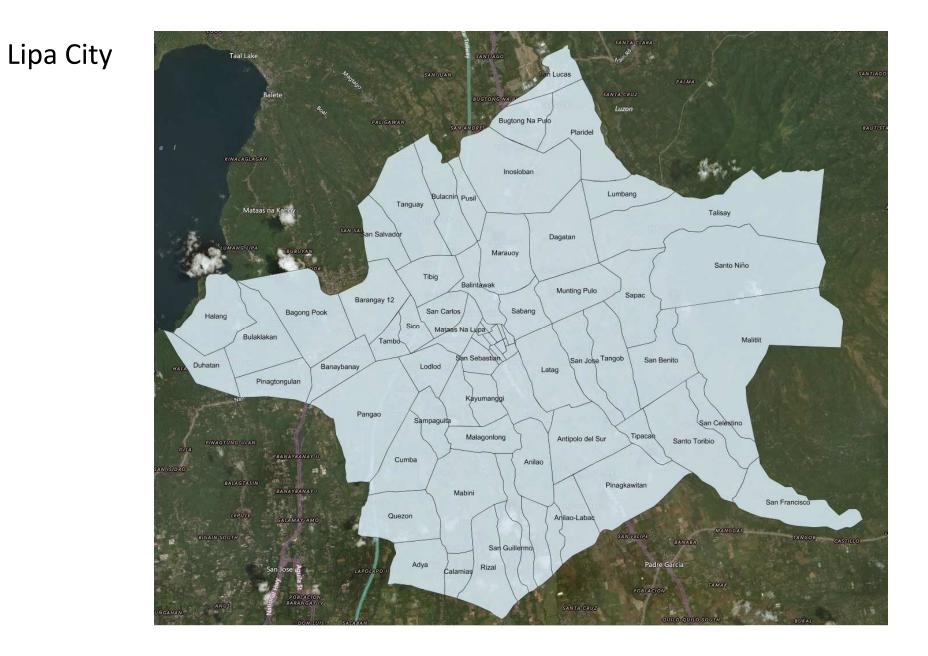
Voltaire, GIS expert will digitise drawings to shapefiles

Historical cases will be located to Purok level

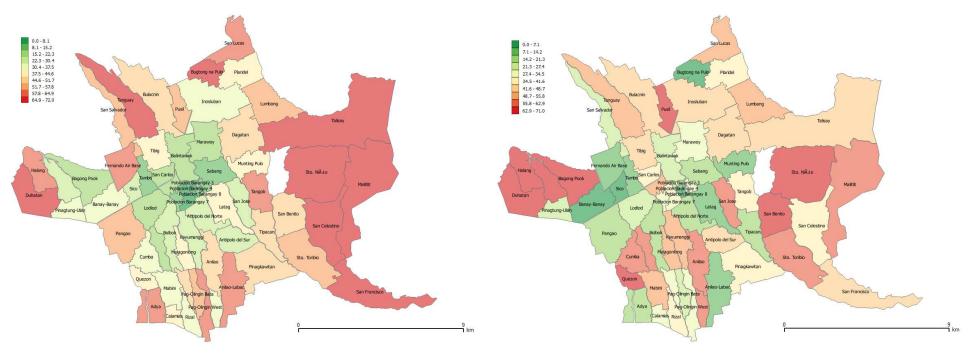
Clusters will be stratified according to historical dengue data

Geolocalisation – barangay selection criteria

- 1. Target population (children 6-16) density
- 2. Historical dengue incidence 2012-2017
- 3. Variation in dengue incidence 2012-2017



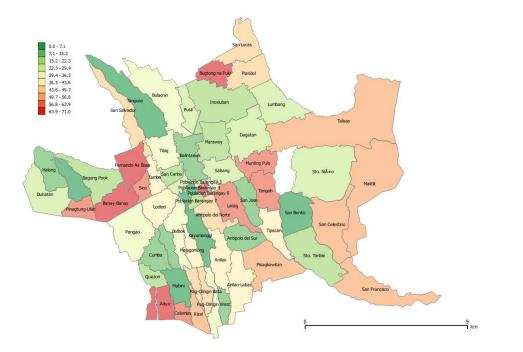
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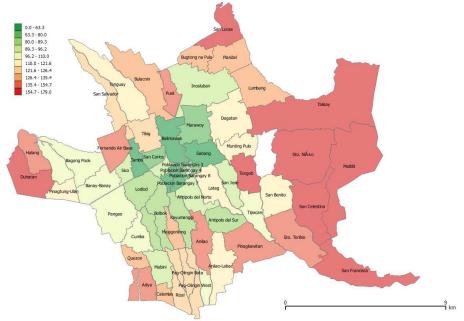


Target population density

Average annual incidence

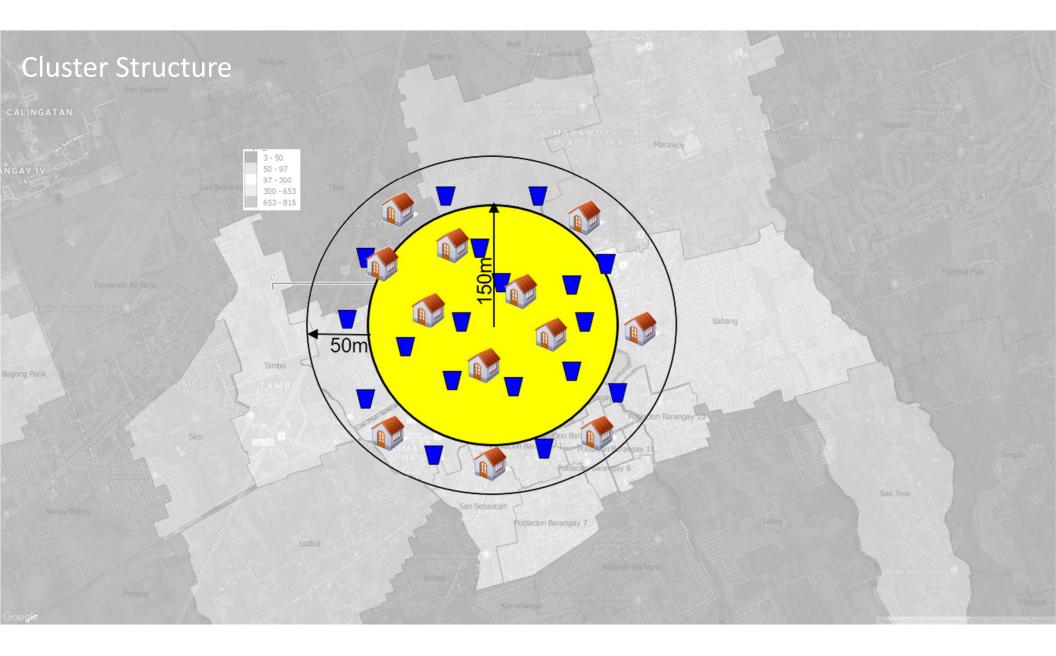
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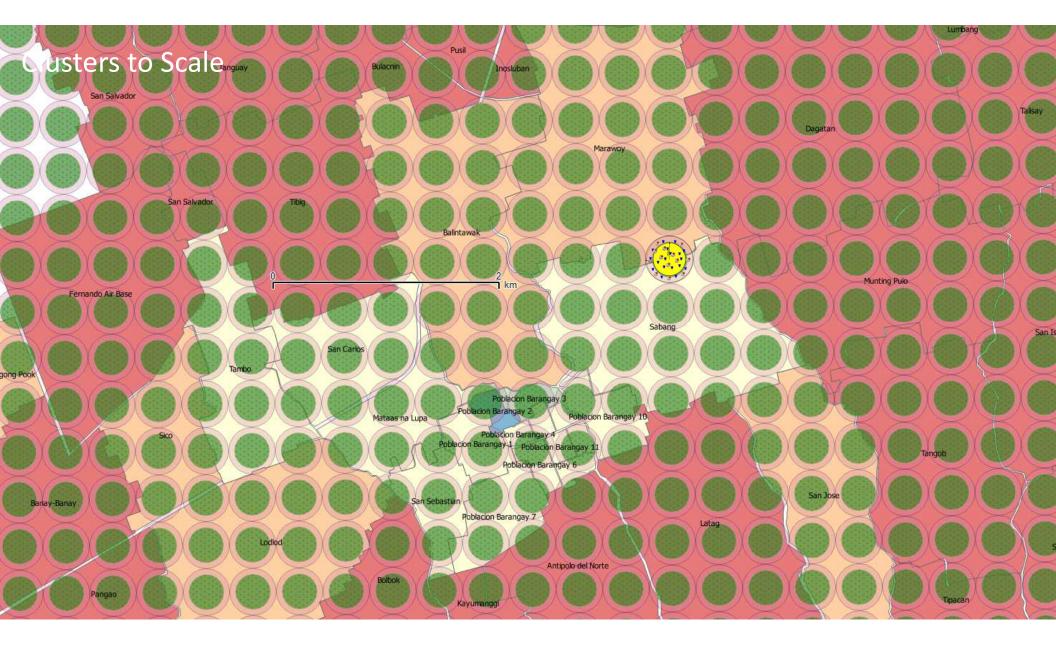




Sum of all rankings

Standard deviation of incidence





Next steps

- Complete needs analysis for Lipa City
 - Work with Lipa City to define gaps and expectations
- Historical data import
 - To be completed once purok boundaries mapped and cases assigned to puroks – before end February
- Training of RITM/DoH staff
 - To be completed before end of April

Thank you!

Schedule - 1st year of intervention

