



# Innovation to Impact (I2I) in Vector Control

I2I Convening | March 22-23

# March 23 agenda

Agenda item	Timing
Breakfast	8:00–8:30
► <b>Procurement:</b> Progress summary, discussion on 2016 objectives and Q&A	8:30–9:20
<b>GLP:</b> Progress summary (including update from DQTF), discussion on 2016 objectives and Q&A	9:20–10:15
Break	10:15–10:30
Presentation on issues facing NRAs in Sub-Saharan Africa	10:30–10:50
<b>Working session:</b> (a) PQ QA discussion & (b) GLP: Discussion of outstanding questions <sup>1</sup>	10:50–12:00
Lunch	12:00–13:00
<b>Summary of March 23 discussions and decisions made</b>	13:00–13:30
<b>Closing statement</b> <ul style="list-style-type: none"> <li>▪ Review of convening progress</li> <li>▪ Overall alignment on 2016 objectives and definition of success</li> </ul>	13:30–15:00
<b>Working session 4:</b> (a) Convening of industry working group & (b) I2I collaboration model	15:00–16:30

# Procurement: Plenary

Session	Detail	Presenter
<p><b>Plenary</b> (March 23, 8:30-9:20, ~50 min)</p>	<p><b>Presentation on the workstream progress and 2016 objectives</b> (next steps and high-level goals) (~10 min)</p> <p><b>Summarize normative guidance &amp; value-based procurement working session discussions &amp; next steps from working sessions</b> (~20 min)</p> <p><b>Q&amp;A</b> (~20 min)</p>	<p><b>Christen</b></p> <p><b>Christen</b></p> <p><b>Christen &amp; all workstream members</b></p>

# Workstream includes representatives from procuring orgs & key partners

Other buyers of LLINs TBD and select national program and regulatory heads may also be invited to join



**Susie Nazzaro**



**S. Turner, J. Woziniak**



**Aziz Jafarov, Jan Kolaczinski**



**Ali Cameron**



**Christen Fornadel, Megan Fotheringham, John Gimnig, Elissa Jensen, Alexis Leonard, Julie Wallace**



**Abraham Mnzava, Raman Velayudhan, Rajpal Yadav**

**Procurement workstream meeting  
monthly to tackle collaborative issues**

# Procurement workstream has two main objectives

## 1 Enable procurers to further accelerate procurement of innovative tools...

### Collective input provided to WHO on needed **normative guidance** to support the roll out of new tools

- Including interim recommendation of new tools & consultation provided on WHO plan

### Collective input provided to WHO PQ to support their development of a product review process that can generate an **interim endorsement of a new product**

- Via an Expert Review Panel (ERP)
- To allow procurement aimed at generation of field data to inform development of normative guidance

### Solution facilitated to **resistance testing paper shortage**

- To enable data generation needed for normative guidance

## 2 ...and to enhance value-based procurement

### Existing **value based procurement traits** and changes to procurement criteria **communicated** to suppliers and feedback on additional measures received

### **LLIN durability specifications** incorporated into procurement decisions

- Pending results of intra-lab validation study (ongoing now) and WHO process for product evaluation on how to incorporate into accompanying clear, structured normative guidance

### **Additional product performance/quality traits (AI residuality, resistance management, durability, etc.)** examined for inclusion in procurement criteria

- Pending results of WHO process for product evaluation and accompanying clear, structured normative guidance; collective input provided to WHO on desired product evaluation traits

***Other commitments include providing support for field monitoring quality control of products & additional commitments in individual operational plans***

# Progress already made against key objectives, with aim to establish plan to accelerate procurement & enhance value-based procurement by EOY



Objectives	2016 objectives	Progress to date	Next steps
<b>1</b> Accelerate procurement	<b>Normative guidance</b>	<ul style="list-style-type: none"> <li>WHO shared briefing &amp; held Q&amp;A session</li> <li>Procurers consolidated list of questions &amp; ideal state</li> <li><i>Detailed working session recap to follow</i></li> </ul>	<ul style="list-style-type: none"> <li>Investigate possibility of implementing ideal state (WHO)</li> <li>Answer outstanding questions (PMI)</li> <li><i>Recap to follow</i></li> </ul>
	Interim product endorsement		
	Resistance testing paper shortage		
<b>2</b> Value-based procurement	Communication of value-based procurement		
	LLIN durability specifications		
	Additional product performance/quality traits		

# Progress already made against key objectives, with aim to establish plan to accelerate procurement & enhance value-based procurement by EOY



Objectives	2016 objectives	Progress to date	Next steps
<b>1</b> Accelerate procurement	Normative guidance		
	Interim product endorsement	Input provided on interim review of products	<ul style="list-style-type: none"> <li>▪ N/A: On hold until PQ plan fully defined, input requested</li> <li>▪ Gather collective input for WHO PQ once plan shared (PMI)</li> <li>▪ Gather input on data generation process to allow for normative guidance feedback (may use PBO nets as pilot case)</li> </ul>
	Resistance testing paper shortage		
<b>2</b> Value-based procurement	Communication of value-based procurement		
	LLIN durability specifications		
	Additional product performance/quality traits		

# Progress already made against key objectives, with aim to establish plan to accelerate procurement & enhance value-based procurement by EOY



Objectives	2016 objectives	Progress to date	Next steps	
<b>1</b> Accelerate procurement	Normative guidance			
	Interim product endorsement			
	Resistance testing paper shortage	<b>Resolution of testing paper issue facilitated</b>	<ul style="list-style-type: none"> <li>Discussed the problem causing the delay in the supply of resistance testing papers</li> </ul>	<ul style="list-style-type: none"> <li>Will be discussed at WHO meeting to revise susceptibility guidelines in April</li> <li>Need to look into alternative suppliers/manufacture supply of papers</li> </ul>
<b>2</b> Value-based procurement	Communication of value-based procurement			
	LLIN durability specifications			
	Additional product performance/ quality traits			



# Progress already made against key objectives, with aim to establish plan to accelerate procurement & enhance value-based procurement by EOY



Objectives		2016 objectives	Progress to date	Next steps
1 Accelerate procurement	Normative guidance			
	Interim product endorsement			
	Resistance testing paper shortage			
2 Value-based procurement	<b>Communication of value-based procurement</b>	<b>All stakeholders have robust understanding of existing procurement criteria</b>	<ul style="list-style-type: none"> <li>Procurers shared briefing &amp; held Q&amp;A session</li> <li>Industry consolidated recommendations</li> <li>Detailed working session recap to follow</li> </ul>	<ul style="list-style-type: none"> <li>Follow-up to answer outstanding questions (PMI, Global Fund, UNITAID)</li> </ul>
	LLIN durability specifications			
	Additional product performance/quality traits			

# Progress already made against key objectives, with aim to establish plan to accelerate procurement & enhance value-based procurement by EOY



Objectives	2016 objectives	Progress to date	Next steps
<b>1</b> Accelerate procurement	Normative guidance	<b>Durability integrated into procurement decisions</b> <ul style="list-style-type: none"> <li>▪ Pending results of inter-lab validation and clear, structured normative guidance</li> <li>▪ Inter-lab validation studies started and expect completion by end Q1 2016</li> <li>▪ In process of setting up two field studies (Benin and Malawi to correlate RD scores with field durability monitoring results)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Produce independent report drafted by textiles expert with no current ongoing LLIN studies (WHO)</li> <li>▪ Convene a consultation with disease experts, textiles experts, and other stakeholders by early Q2 2016 (WHO)</li> <li>▪ Decision on what tests to incorporate with inclusion, if relevant, by launch of PQ program, Jan 1 2017 (by PQ and WHOPES)</li> </ul>
	Interim product endorsement		
	Resistance testing paper shortage		
<b>2</b> Value-based procurement	Communication of value-based procurement		
	<b>LLIN durability specifications</b>		
	Additional product performance/ quality traits		

# Progress already made against key objectives, with aim to establish plan to accelerate procurement & enhance value-based procurement by EOY



Objectives	2016 objectives	Progress to date	Next steps
<p>1</p> <p>Accelerate procurement</p> <ul style="list-style-type: none"> <li>Normative guidance</li> <li>Interim product endorsement</li> <li>Resistance testing paper shortage</li> </ul>			
<p>2</p> <p>Value-based procurement</p> <ul style="list-style-type: none"> <li>Communication of value-based procurement</li> <li>LLIN durability specifications</li> <li>Additional product performance/quality traits</li> </ul>	<p><b>Partners define &amp; share priorities for additional desired product traits to be evaluated (e.g., AI residuality, resistance management)</b></p> <ul style="list-style-type: none"> <li>Provide input to WHO on additional desired testing/normative guidance requirements</li> </ul>	<ul style="list-style-type: none"> <li>Planning to address in Q3 2016</li> </ul>	<ul style="list-style-type: none"> <li>Define &amp; share priorities for additional desired product traits for evaluation (PMI, Global Fund, UNITAID, other stakeholders)</li> <li>Develop plan to enable inclusion of traits (All)</li> </ul>

## Recall: PMI & UNITAID questions on WHO normative guidance plan

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- 1** How exactly will the functions of VCAG, WHOPES, VCTEG, & MPAC work together in the new PQ system, so that data on products is fed across functions, resulting in one harmonized recommendation?
- 2** How can we ensure the data needed for normative guidance is available ASAP after products are evaluated?
- 3** Who is responsible for further data collection to support normative guidance?
- 4** What is the process to review interim normative guidance incorporating data from pilot field monitoring/further trials & provide a revised recommendation?
- 5** What is the process for looking at all new VC products in aggregate in order to provide appropriate guidance on rotations/ combinations to deploy?

Do you have any questions about the procurement workstream or to its members?

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# GLP: Plenary

Session	Detail	Presenter
<b>GLP plenary</b> <i>(55 minutes)</i>	① <b>Intro</b> (~5 min)	Mark
	② <b>GLP workstream</b> (~5 min) <ul style="list-style-type: none"><li>▪ High-level overview of purpose of GLP accreditation and next steps</li><li>▪ Share list of GLP sites</li></ul>	Dave/ Rajpal
	③ <b>Progress made by WHO</b> (~10 min) <ul style="list-style-type: none"><li>▪ Summary of progress</li><li>▪ Discussion of 2016 objectives</li></ul>	Rajpal
	④ <b>Progress made by IVCC</b> (~10 min) <ul style="list-style-type: none"><li>▪ Summary of progress</li><li>▪ Discussion of 2016 objectives</li></ul>	Dave
	⑤ <b>DQTF progress update</b> (~10 min)	John Lucas
	⑥ <b>Q&amp;A</b> (~15 min)	Dave/ Rajpal/ John Lucas

# Work to build network of GLP sites supports transition to WHO PQ

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## WHO NTD & IVCC work today...

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Development and revision of **testing guidelines, protocols, & SOPs...**

Creation of network of **GLP-accredited sites...**

**... supports establishment of WHO PQ system by '17**

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**...will support PQ evaluation of high-quality data**

- No expectation of short-term changes to evaluation guidelines
- WHO PQT / NTD / GMP will maintain testing guidelines in the long term
- Up-to date guidelines needed in interim

**...to enable WHO PQ dossier review of manufacturer generated data**

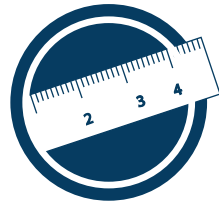
- WHO PQ requires GLP for dossier review

**WHO PQ supports ongoing work to improve data quality**



# Good Laboratory Practices (GLP) work to generate high-quality data part of developing quality control systems for testing vector control products

## GLP assures regulators that testing data have been generated along quality standards...



GLP is a quality system for planning, performing, monitoring, recording, and reporting **non-clinical health and environmental safety studies**



GLP assures regulatory authorities that **data submitted reflect study results**

- Data can therefore be relied upon when making efficacy assessments

## ...enabling policy changes



**WHO will review dossiers of data generated at GLP-accredited sites**



**Manufacturers can directly contract GLP-accredited sites**

- Data ownership decision between manufacturers and site
- May streamline data generation process
  - No need for both industry & WHO-run trials after full transition to PQ

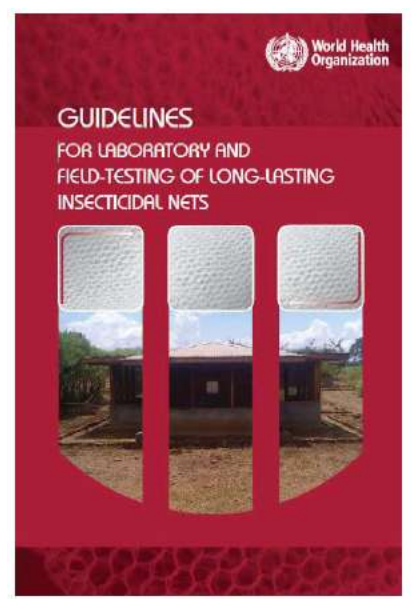
## GLP workstream has three main outputs to generate high-quality data

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- a** Accreditation of test sites to GLP to test 4 categories of products – LLINs, IRS, mosquito larvicides, space spraying
- b** Development of Standard Operating Procedures (SOPs)
- c** Revision of guidelines and SOPs where necessary

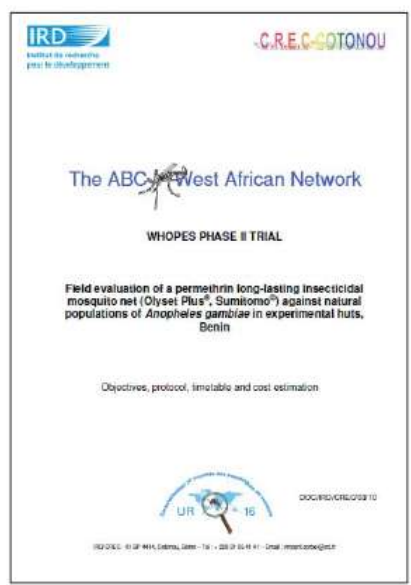
# Quick definitions of guidelines, protocols, & SOPs

## Testing guidelines



- For each type of product
- Provides guidance and describes steps for laboratory and field testing

## Protocols



- For each trial
- Outlines requirements, activities, resources, documentation, & schedules

## SOPs

- IVCC\_EH\_001\_V01\_Sprayer Calibration (1).docx
- IVCC\_EH\_001\_V01\_Sprayer Calibration.docx
- IVCC\_EH\_002\_V01\_Transportation of Mosquitoes.docx
- IVCC\_EH\_003\_V01\_Sugar Soaked Cotton Wool.docx
- IVCC\_EH\_004\_V01\_Cone bioassay.docx
- IVCC\_EH\_004\_V01\_APP\_Cone bioassay data sheet.docx
- IVCC\_EH\_004\_V01\_APP\_Cone bioassay data sheet\_GS comments.docx
- IVCC\_EH\_005\_V01\_Exp Hut Post Spray Clean.docx
- IVCC\_EH\_005\_V01\_Exp Hut Post Spray Clean\_GS comments.docx
- IVCC\_EH\_006\_V01\_Scoring Mosquito Mortality.docx
- IVCC\_EH\_006\_V01\_Scoring Mosquito Mortality\_GS comments.docx
- IVCC\_EH\_007\_01\_Spray Calculations Record Sheet.docx
- IVCC\_EH\_007\_01\_Spray Calculations Record Sheet\_GS changes.docx
- IVCC\_EH\_007\_V01\_Spray Calculations for IRS Applications.docx

**For discussion today**

# GLP workstream meeting regularly to tackle collaborative issues

## Current representatives



Dave Malone  
Alex Wright



Rajpal Yadav  
Abraham Mnzava  
Mark McDonald

**Data Quality Task Force**

John Lucas  
*Industry + overlap with academia*

**Institutions**  
(to be invited)

- Representatives from sites targeted for GLP accreditation
- GLP authorities

**Invited experts/consultants**

Graham Small

# Sites IVCC & WHO will work with for accreditation

		Current testing capabilities <sup>1</sup> :							
Region	Site	Products			Phases				
IVCC to lead	West Africa	Institut Pierre Richet (IPR), Institut National de Santé Publique, Cote d'Ivoire	LLIN	IRS		1	2	3	
		Institut de Recherche en Sciences de la Santé (IRSS) Centre Muraz, Bobo Dioulasso, B.F.	LLIN	IRS		1	2	3	
		CREC, Cotonou (in collaboration with LSHTM), Benin	LLIN	IRS		1	2	3	
		Centre Suisse de Recherches Scientifiques en Cote d'Ivoire, CSRS, Cote d'Ivoire	LLIN			1	2	3	
	East Africa	Kilimanjaro Christian Medical University College, Moshi, Tanzania	LLIN	IRS		1	2	3	
		Ifakara Health Institute, Bagamayo Research & Training Centre, Tanzania	LLIN				2	3	
WHO to lead	Americas	Brazil or Mosquito and Fly unit, Florida, USA (TBD)			SS	Larv	2	3	
		Centro Regional de Investigación en Salud Pública, Tapachula, Mexico (tentative)		IRS			2	3	
	Western Pacific	Vector Control Research Unit, Universiti Sains Malaysia, Penang, Malaysia			SS	Larv	2	3	
		Institute for Medical Research, Kuala Lumpur, Malaysia	LLIN	IRS			2	3	
		WHO CC - Centre for Disease Control, Beijing, China			SS	Larv	2	3	
	South East Asia	WHO CC - National Institute of Malaria Research (NIMR), Delhi, India	LLIN	IRS		Larv	1	2	3
		WHO CC - Vector Control Research Centre, Puducherry, India	LLIN	IRS			2	3	
	Eastern Mediterranean	School of Public Health, Tehran, Iran	LLIN	IRS		Larv	2	3	

 Already GLP accredited or close to accreditation

1. GLP-accredited sites should be able to expand to test other product categories, phases over time  
 Note: 14 sites in initial plan - Additional sites to be self-accredited using GLP SOP package



# Identification of test sites outside of Africa & administrative arrangements with test sites

- Test sites outside of Africa selected based on:**
- Product testing capability
  - Phase capabilities
  - Regional diversity
  - Existing level of capabilities

- Administrative arrangements with test sites**
- Manufacturers can directly contract GLP-accredited sites
    - Data ownership decision between manufacturers and site

**Current testing capabilities<sup>1</sup>:**

**Products                      Phases**

WHO to lead	Region	Site	Products		Phases				
			LLIN	IRS	SS	Larv	1	2	3
Americas		Brazil or Mosquito and Fly unit, Florida, USA (TBD)			SS	Larv		2	3
		Centro Regional de Investigación en Salud Pública, Tapachula, Mexico (tentative)		IRS				2	3
Western Pacific		Vector Control Research Unit, Universiti Sains Malaysia, Penang, Malaysia			SS	Larv		2	3
		Institute for Medical Research, Kuala Lumpur, Malaysia	LLIN	IRS				2	3
		WHO CC - Centre for Disease Control, Beijing, China			SS	Larv		2	3
South East Asia		WHO CC - National Institute of Malaria Research (NIMR), Delhi, India	LLIN	IRS		Larv	1	2	3
		WHO CC - Vector Control Research Centre, Puducherry, India	LLIN	IRS				2	3
Eastern Mediterranean		School of Public Health, Tehran, Iran	LLIN	IRS		Larv		2	3



# Progress and next steps: Facility audits

	Sites	Audit date
Americas	Brazil or Mosquito and Fly unit, Florida, USA (TBD)	2017
	Centro Regional de Investigación en Salud Pública, Tapachula, Mexico (tentative)	2017
Western Pacific	Vector Control Research Unit, Universiti Sains Malaysia, Penang, Malaysia	03/2016
	Institute for Medical Research, Kuala Lumpur, Malaysia	03/2016
	WHO CC - Centre for Disease Control, Beijing, China	06/2016
South East Asia	WHO CC - National Institute of Malaria Research (NIMR), Delhi, India	04/2016
	WHO CC - Vector Control Research Centre, Puducherry, India	04/2016
Eastern Mediterranean	School of Public Health, Tehran, Iran	05/2016

Progress	Completed	Scheduled	Not yet scheduled
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# Progress and next steps: Communication with accreditation authorities

	Sites	Accreditation bodies
Americas	Brazil or Mosquito and Fly unit, Florida, USA (TBD)	Not yet determined
	Centro Regional de Investigación en Salud Pública, Tapachula, Mexico (tentative)	Not yet determined
Western Pacific	Vector Control Research Unit, Universiti Sains Malaysia, Penang, Malaysia	Department of Standards Malaysia
	Institute for Medical Research, Kuala Lumpur, Malaysia	Department of Standards Malaysia
	WHO CC - Centre for Disease Control, Beijing, China	ICAMA (To be confirmed)
South East Asia	WHO CC - National Institute of Malaria Research (NIMR), Delhi, India	National GLP Compliance Monitoring Authority, New Delhi
	WHO CC - Vector Control Research Centre, Puducherry, India	National GLP Compliance Monitoring Authority, New Delhi
Eastern Mediterranean	School of Public Health, Tehran, Iran	Institute of Standards and Industrial Research of Iran ( <a href="http://www.isiri.com">www.isiri.com</a> )



# Planned content for GLP training/quality control systems workshop

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- 1** Introduction to GLP
- 2** Fundamental components of a quality management system based on the principles of GLP
- 3** Documentation required for a GLP compliant quality management system
- 4** SOPs
  - 'What is an SOP?'
  - 'How to write a good SOP'
- 5** Interactive sessions
  - Development of SOPs relating to test methods in WHOPEs guidelines – workshop delegates split into small groups, each drafting a number of SOPs
  - Critiquing of drafted SOPs – all workshop delegates
  - Practical, hands on sessions in which SOPs will be followed during the conduct of a laboratory test – workshop delegates split into small groups, each group setting up their own tests
  - Discussion of the results of the test and feedback on the – all workshop delegates
- 6** Workshop discussion and wrap-up session

**GLP training workshop to be held from  
May 30th – June 3rd, 2016 in Penang, Malaysia**

# IVCC: Progress.....

## Summary of Progress since June 2015

- **KCMUCo**
  - Developed Quality Manual and SOPs
  - Upgraded Facilities and Equipment
  - Submitted application to SANAS
  
- **GLP Manual**
  - Produced and Shared with GLP Work Stream





# KCMUCo Documentation.....

**SOPS part 1**

- 0001-01-1 Working Method Note for Environmental Test Unit
- 0002-01-2 Disposing of N95 face masks and cleaning logs\_AW
- 0003-01-3 Working Method Note for Mosquitoes
- 0004-01-1 Whole Net Receipt, Registration and Storage
- 0005-01-2 Calling Mosquitoes from Whole Net
- 0006-01-1 Chemical Receipt, Registration & Storage
- 0007-01-1 Chemical Usage - B
- 0008-01-1 CDC Bottle Receiving - B
- 0009-01-1 Clean Area of Fly Traps - B
- 0010-01-1 Clean Area of Fly Traps - B
- 0011-01-1 Phase 1 net washing - water bath method
- 0012-01-1 Use of Water Washing and Temperature Meter
- 0013-01-1 Mosquito holding cage - B
- 0014-01-1 Test Systems Requesting, Transferring, Receiving\_AW
- 0015-01-1 Cytotoxic Assay Using Treated Netting
- 0016-01-1 Bait Population
- 0017-01-1 Spraying Insecticides with Pesticide Toxin (T1, T2)\_AW
- 0018-01-1 Mosquito Population Phenotype Monitoring\_CJ\_AW
- 0019-01-1 Control Use of Personal Protective Equipment (PPE)\_AW
- 0020-01-1 Using the Dispenser - B
- 0021-01-1 Use of Handlens
- 0022-01-1 Use of ITF unit
- 0023-01-1 Use of ITF Holes, and incubator - B
- 0024-01-1 Cages Array of ITF Trayed Blocks
- 0025-01-1 Use and Calibration of Bait Hopper - B
- 0026-01-1

**SOPS part 2**

- 0027-01-1 Processing Mosquito Samples\_AW
- 0028-01-1 AZM Test - Heat - AW - B
- 0029-01-1 Species ID - B
- 0030-01-1 Phenomix Subsystem (temperature) ID\_AW - B
- 0031-01-1 Process for sample receipt to final report\_AW
- 0032-01-1 Using the centrifuge - B
- 0033-01-1 Using the Magnets - B
- 0034-01-1 Using the vortex mixer - B
- 0035-01-1 Request Inventory, Receiving, and disposal\_AW
- 0036-01-1 Molecular Laboratory Supplier List\_AW
- 0037-01-1 Using the dry bath - B
- 0038-01-1 Using Dry Block Heaters - B
- 0039-01-1 Using the balance - B
- 0040-01-1 Using the microcentrifuge - B
- 0041-01-1 Temperature regulation in molecular lab - B
- 0042-01-1 Results saving to server\_AW
- 0043-01-1 Log Book for Equipment Maintenance and Service\_AW
- 0044-01-1 Training Policy\_AW
- 0045-01-1 Insectary Systems\_AW - B
- 0046-01-1 Confidentiality\_AW
- 0047-01-1 Mosquito Rearing\_AW - B
- 0048-01-1 Shipping, Receiving and Insectary Protocol\_AW - B
- 0049-01-1 Request Orders\_AW
- 0050-01-1 Fly Reports\_AW
- 0051-01-1 Quarantine and Biosecurity\_AW
- 0052-01-1 Fluoridated Liquids\_AW
- 0053-01-1 Handling Insecticide Material\_AW
- 0054-01-1 Using the Dry Ice - AW
- 0055-01-1 Equipment Sanitization and Inactivation\_AW
- 0056-01-1 Using the Heating Block\_AW
- 0057-01-1 Using Mosquitoes - AW
- 0058-01-1 Bait Storage\_AW
- 0059-01-1 Quality Control Procedures\_AW
- 0060-01-1 Recordkeeping Event Management\_AW
- 0061-01-1 Staff and Management Meetings\_AW
- 0062-01-1 Inventory\_AW
- 0063-01-1 Procedure for cell culture/Insectary test Animals - B
- 0064-01-1 Insect Management System\_AW
- 0065-01-1 Insectary Personnel\_AW
- 0066-01-1 Using Mosquitoes as experimental hosts - B
- 0067-01-1 Using the pipette - B
- 0068-01-1 Equipment calibration - B
- 0069-01-1 Fly Management - B
- 0070-01-1 Working, Receiving and Insectary - AW
- 0071-01-1 Record of Insectary\_AW
- 0072-01-1 Bait Preparation\_AW - B
- 0073-01-1 Mosquito Rearing\_AW - B
- 0074-01-1 Health Check Account\_AW
- 0075-01-1 Mosquito Rearing\_AW - B
- 0076-01-1 Mosquito Rearing - AW
- 0077-01-1 Mosquito Rearing - AW
- 0078-01-1 Mosquito Rearing - AW
- 0079-01-1 Mosquito Rearing - AW
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- 0099-01-1 Mosquito Rearing - AW
- 0100-01-1 Mosquito Rearing - AW

**Forms part 1**

- 0001-01-1 IRS Block Calculation & spraying record sheet
- 0002-01-1 CCCB Assay record sheet 1.12.15\_MK
- 0003-01-1 Tunnel test record sheet 11.12.15\_MK
- 0004-01-1 Net Dipping Record Sheet 21.1.16\_MK
- 0005-01-1 WHO Susceptibility Assay Record Sheet 20.4.15\_MK
- 0006-01-1 Data Logger Usage Record Sheet
- 0007-01-1 Chemical Receipt Summary Record Sheet
- 0008-01-1 Test Material Data Sheet
- 0009-01-1 Whole Net Store Record Sheet
- 0010-01-1 Phase I Whole Net Record Sheet 21.7.15\_MK
- 0011-01-1 Phase II Whole Net Record Sheet 21.7.15\_MK
- 0012-01-1 Net Piece Store Record Sheet
- 0013-01-1 Individual Net Piece Record Sheet 21.7.15\_MK
- 0014-01-1 CPAC Washing Solution Calculation Record Sheet 14.4.15\_MK
- 0015-01-1 ITF Training Test - Answers
- 0016-01-1 CDC Bottle Biosay Record Sheet\_MK
- 0017-01-1 Test System Request, Transfer & Receipt - B
- 0018-01-1 Fertility record sheet 11.5.15\_MK
- 0019-01-1 Fertility record sheet 13.5.15\_MK
- 0020-01-1 Mosquito Biometrics Record Sheet 4.8.15 - B
- 0021-01-1 Net Washing Water Quality Record Sheet 1
- 0022-01-1 Block Preparation & Storage Record Sheet 1
- 0023-01-1 ITF staff and manager check list\_MK
- 0024-01-1 Holding Room Stock Keeping record sheet
- 0025-01-1 Qualitative Face Fit Test Record Sheet
- 0026-01-1 ITF Potter Tower Spraying Preparation
- 0027-01-1 Experimental hut daily collection record sheet 9.4.15\_MK
- 0028-01-1 Experimental hut weekly summary record sheet 10.4.15\_MK
- 0029-01-1 IRS Hut Calculation & spraying record sheet 4.11.15\_MK
- 0030-01-1 Mushi Environmental Conditions Record Sheet\_Susceptible
- 0031-01-1 Insectary GLP Training Test - Answers
- 0032-01-1 Insectary GLP Training Test
- 0033-01-1 Hut Trial Capsule Packing Record Sheet
- 0034-01-1 Experimental Hut LLIN Trial Preparation List
- 0035-01-1 Mushi Environmental Conditions Record Sheet\_Resistant\_AW
- 0036-01-1 Guinea Pig Health Chart
- 0037-01-1 Mushi Environmental Conditions Record Sheet\_Susceptible\_AW
- 0038-01-1 Guinea Pig Colony Record Sheet
- 0039-01-1 Guinea Pig Sedation Record Sheet
- 0040-01-1 sedation database poster - JB
- 0041-01-1 Insectary GLP Training Test
- 0042-01-1 Insectary GLP Training Test - Answers
- 0043-01-1 Mushi Environmental Conditions Record Sheet\_Resistant
- 0044-01-1 Insectary Staff Daily Checklist\_new\_AW
- 0045-01-1 Guinea Pig Weekly Tally Form - JB
- 0046-01-1 Animal House Staff Checklist\_AW
- 0047-01-1 Room Temperature Maintenance Log Animal House\_AW
- 0048-01-1 Animal House GLP Training Test\_AW
- 0049-01-1 Animal House GLP Training Answers\_AW

**Forms part 2**

- 0001-01-1 Chemical Usage Log
- 0002-01-1 Sample Transfer Form\_AW/B
- 0003-01-1 Inactivation, testing of mosquito samples\_AW/B
- 0004-01-1 Sample Test Request Form\_AW/B\_NEW
- 0005-01-1 Result Transfer Form\_AW/B
- 0006-01-1 Request Codes Color Coding\_AW
- 0007-01-1 Equipment Usage Log\_AW
- 0008-01-1 Molecular Lab Staff Checklist\_AW
- 0009-01-1 Chemical Inventory Log
- 0010-01-1 Equipment ID Log - Molecular Lab - B
- 0011-01-1 Receiving Calculation Sheet for Molecular Lab Supply\_AW
- 0012-01-1 Training Template for Molecular Laboratory\_AW
- 0013-01-1 PAMVERC Laboratory Suppliers\_AW
- 0014-01-1 Room Temperature Maintenance Log Laboratory\_AW
- 0015-01-1 Processing Laboratory Samples Template\_AW
- 0016-01-1 Equipment Log Book for Sanitisation and Maintenance\_AW
- 0017-01-1 Fridge/Freezer weekend Roster\_AW
- 0018-01-1 Gate Pass for Transfer of Materials
- 0019-01-1 Major Incident Report Form\_MK
- 0020-01-1 Visitor Access to Facilities\_FT
- 0021-01-1 Fire Extinguisher Daily Maintenance\_AW
- 0022-01-1 Eye Wash/Emergency Shower Daily Maintenance\_AW
- 0023-01-1 First Aid Kit Daily Maintenance\_AW
- 0024-01-1 Bench Cleaning Log Daily Maintenance\_AW
- 0025-01-1 Fridge/Freezer Daily Maintenance\_AW
- 0026-01-1 Equipment Usage Log\_AW
- 0027-01-1 Equipment ID Log - MK
- 0028-01-1 Staff Orientation Checklist\_FT\_AW
- 0029-01-1 Staff Training Log\_AW
- 0030-01-1 Staff Educational Meetings Log\_AW
- 0031-01-1 Staff Training Record Review Log\_AW
- 0032-01-1 Computer Log\_AW
- 0033-01-1 Sanitor Log\_FT
- 0034-01-1 Staff Signatures
- 0035-01-1 SOP Distribution
- 0036-01-1 Forms Distribution
- 0037-01-1 Health and Safety
- 0038-01-1 Confidentiality
- 0039-01-1 Bench Number
- 0040-01-1 Master Schedule
- 0041-01-1 Protocol Annex
- 0042-01-1 Minor Incident Report Form\_AW
- 0043-01-1 Meeting Minutes Template\_FT
- 0044-01-1 Personal Responsibilities List\_AW
- 0045-01-1 Equipment Calibration - B
- 0046-01-1 Master Schedule Review Sheet
- 0047-01-1 Protocol Preparatory Notes (pre-start date)
- 0048-01-1 Record of Procedures - B

### Guidelines

- 0001-01-G Molecular Lab Guidelines\_AW
- 0002-01-G Transfer Sample Numbers Guidelines\_JB
- 0001-01-G General PAMVERC Site Guidelines\_AW
- 0002-01-G PAMVERC Laboratory Safety Manual\_AW\_SA\_EX\_FS
- 0003-02-G SOP template
- 0004-07-G PAMVERC Abbreviations & Acronyms
- 0005-01-G Protocol Template 25.1.16\_MK
- 0006-01-G Protocol Summary Template
- 0007-01-G Protocol Folder Tabs 27.1.16\_MK
- 0008-01-G Self-Audit IVCC - GS
- 0001-01-G Mosquito Lab Guidelines\_FinalVersion
- 0002-01-G Animal House Guidelines\_AW\_Final
- 0003-01-G Daily Schedule\_Office Attendant
- 0004-01-G Daily Schedule\_Insectary Manager
- 0005-01-G Daily Schedule\_Animal House Attendant
- 0006-01-G Guinea Pig Health Chart
- 0007-01-G Guinea Pig Food Wall Chart\_JB
- 0001-01-G Harusini Insectary Guidelines\_AW\_RA\_JB
- 0002-01-G Guinea Pig Food Wall Chart\_JB
- 0003-01-G Animal House Guidelines\_AW\_Final
- 0001-01-G Mushi Insectary Guidelines\_FinalVersion
- 0002-01-G Animal House Guidelines\_AW\_Final
- 0003-01-G Daily Schedule\_Office Attendant
- 0004-01-G Daily Schedule\_Insectary Manager
- 0005-01-G Daily Schedule\_Animal House Attendant
- 0006-01-G Guinea Pig Health Chart
- 0007-01-G Guinea Pig Food Wall Chart\_JB

# KCMUCo Facility Upgrades



Emergency eye wash and shower



'Biometric' security doors



Guinea pig tagging



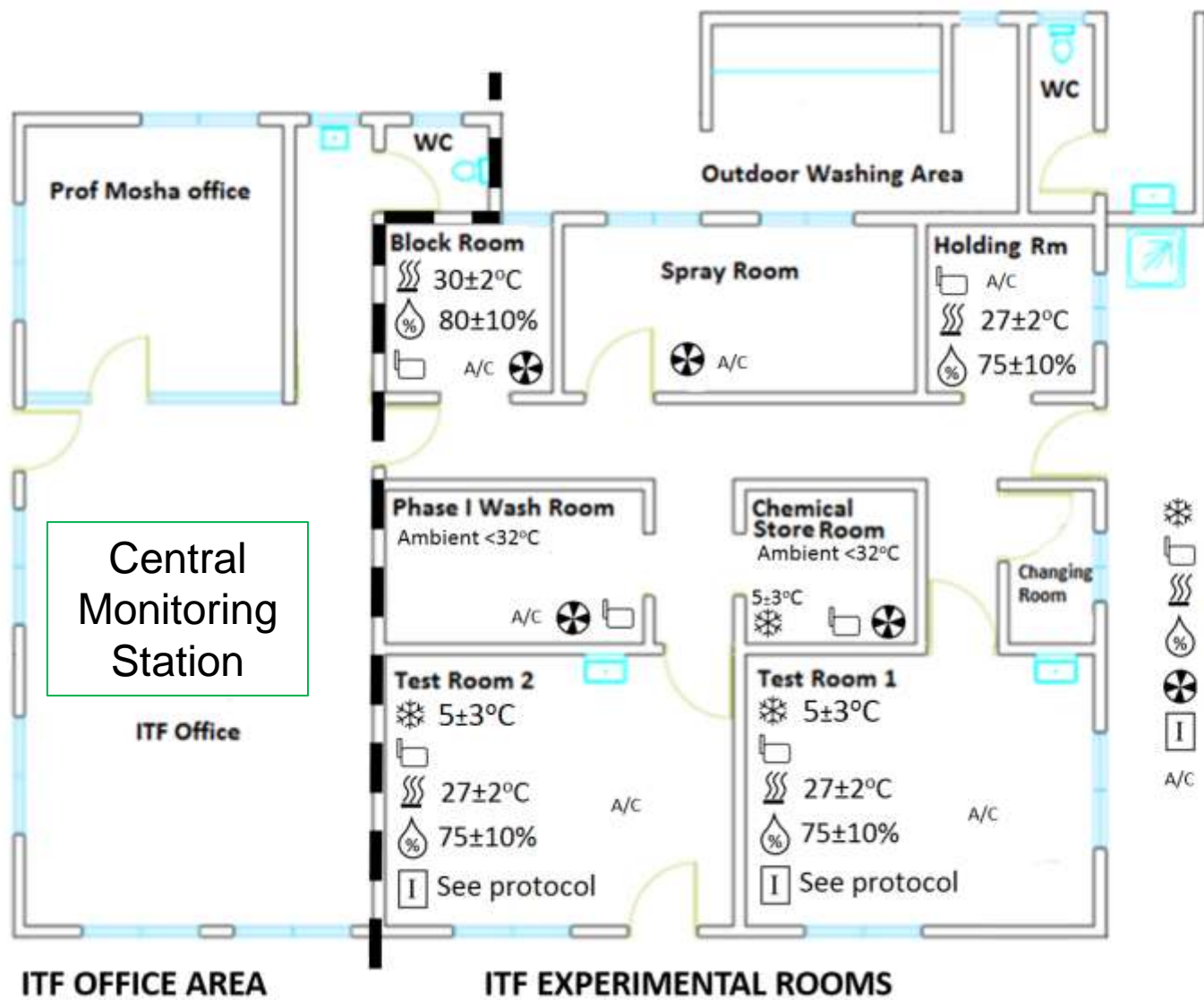
Equipment records



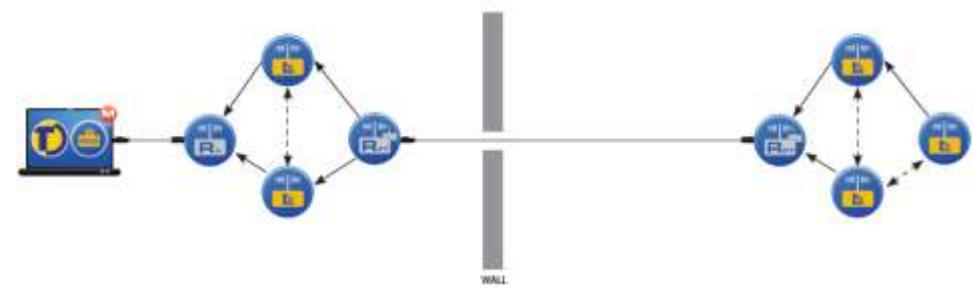
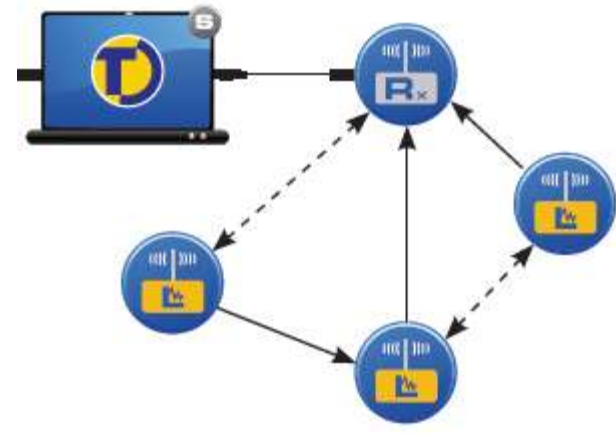
Yet more new buildings



# WIRELESS ENVIRONMENTAL MONITORING

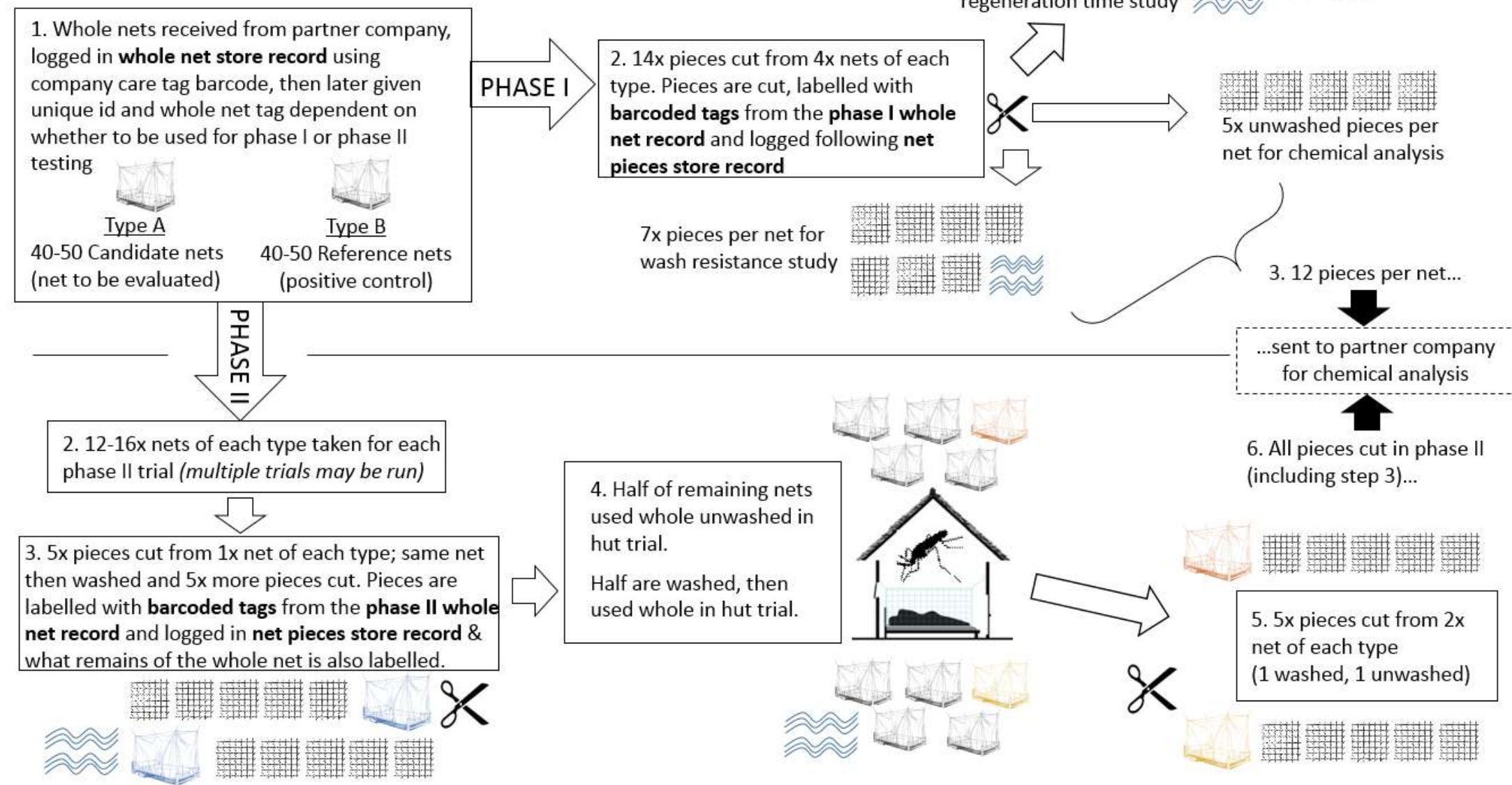


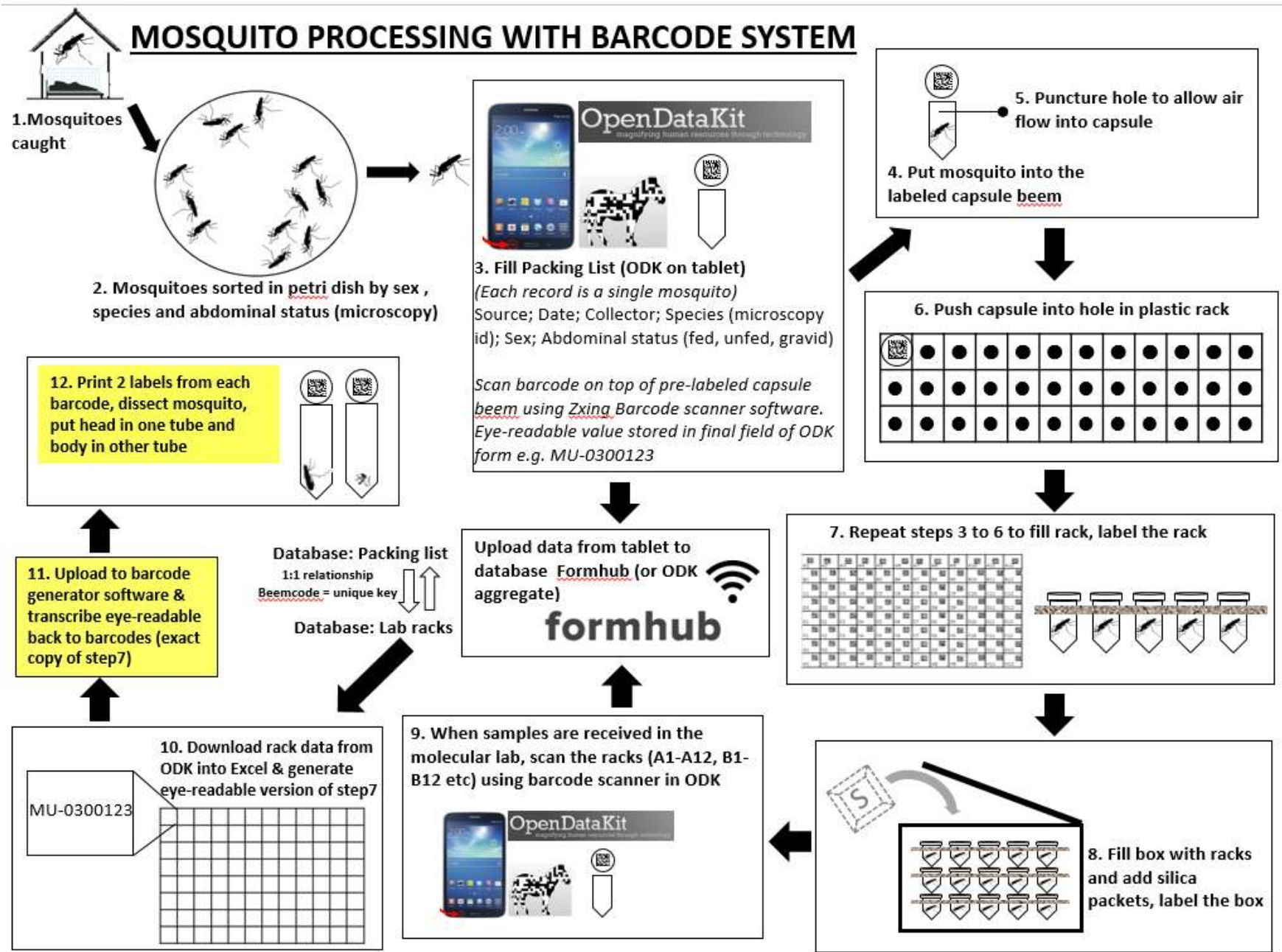
- Fridge + thermometer
- Radio data logger
- Heater + thermostat
- Humidifier + hygostat
- Extractor fan
- Incubator + data logger
- A/C Air conditioning



## NET PROCESSING WITH BARCODE SYSTEM

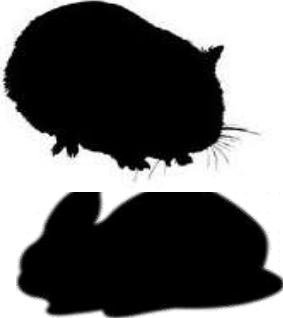
### 1. Overview of net system





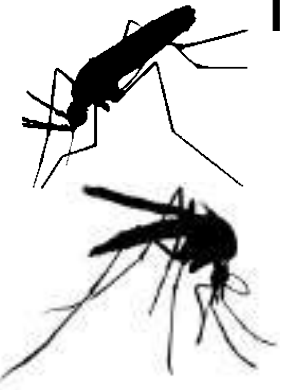


### ANIMAL HOUSE



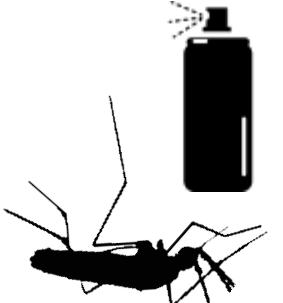
Forms ✓  
SOPs ✓  
Guidelines ✓  
Training ✓  
Assessment ✓

### INSECTARY



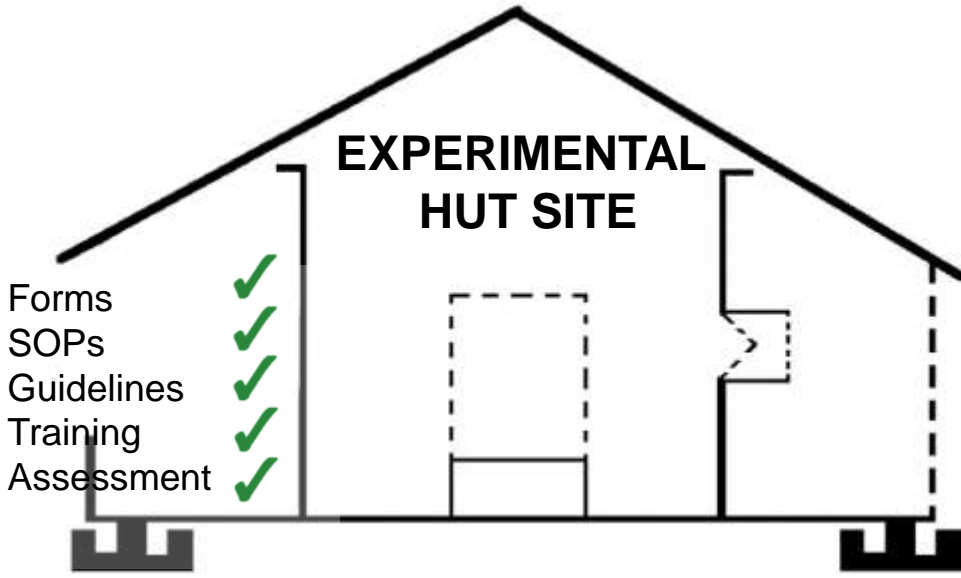
Forms ✓  
SOPs ✓  
Guidelines ✓  
Training ✓  
Assessment ✓

### INSECTICIDE TEST FACILITY



Forms ✓  
SOPs ✓  
Guidelines ✓  
Training ✓  
Assessment ✓

### EXPERIMENTAL HUT SITE



Forms ✓  
SOPs ✓  
Guidelines ✓  
Training ✓  
Assessment ✓





# Progress and next steps: Facility audits

Sites		Audit date
Tanzania	Killimanjaro Christian Medical University College (KCMUCo), Moshi	09/2015
	Ifakara Health Institute (IHI), Bagamoyo	XX/2016
Cote d'Ivoire	Centre Suisse de Recherche Scientifique (CSRS), Abidjan	02/2016
	Institute Pierre Richet (IPR) , Bouake	02/2016
Burkina Faso	Institut de Recherche en Science de la Santé (IRSS), Bobo-Dioulasso	XX/2016
Benin	Centre de Recherche Entomologique de Cotonou (CREC), Cotonou	XX/2016

Progress	Completed	Scheduled	Not yet scheduled
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# IVCC: Generic Timeline for Accreditation

	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>Phase I - Laying down the scene</b>												
Baseline audit / Gap Analysis	█											
Initial Training	█	█										
Development of SOPs and QM Systems		█	█									
Self Audit				█								
<b>Phase II - Systems and process setup</b>												
On-Site Audit					█							
Development of Quality Manual						█	█					
On site audit								█				
<b>Phase III - Accreditation</b>												
Application for Accreditation Submission									█			
On site auditor training									█			
Accreditation										█	█	█

# Accreditation – Current Status of Trial Sites

Institution:		KCMUCo	CREC	IRSS	CSRS	IHI	IPR
<b>Standard Operating Procedures (SOPs)</b>	SOPs for studies						
	SOPs for standard test methods						
	SOPs for equipment usage, calibration & maintenance						
	SOPs for insect rearing						
	SOPs for chemicals (receipt, storage, usage, waste disposal)						
	SOPs for computer systems						
	SOPs for archiving						
	SOPs for staff (training records, designated persons etc)						
<b>Documentation &amp; Systems</b>	Chemical acknowledgment of receipts						
	Chemical usage records						
	Material Safety Data Sheets						
	Equipment maintenance & calibration records						
	Daily temperature records (insectaries, testing facility and chemicals store)						
	Insect culturing records						
	Computer software validation records						
	Secure computer systems (password protection, access permissions, antivirus software protection)						
	Security of electronic data (backup and secondary back up of electronic files)						
<b>Study Specific Records</b>	Study code book and study master schedule						
	Study paperwork kept in a study folder						
	Signed and dated study protocols						
	Study amendment and deviation forms						
	Record of study procedures						
	Signed raw data sheets						
	Checked and signed calculation sheets						
	Signed calibration and treatment application records						
<b>Archiving of Studies &amp; Study-related Documentation</b>	Signed and dated final study reports						
	Secure archive accessible only to archivists						
	Nominated archivist and deputy archivist						
	Indexes for archived studies and study-related documentation (hard copies and electronic copies)						
	Archive retrieval forms						
	Electronic archive accessible only to archivists						
Electronic study folders placed into CD/DVD							

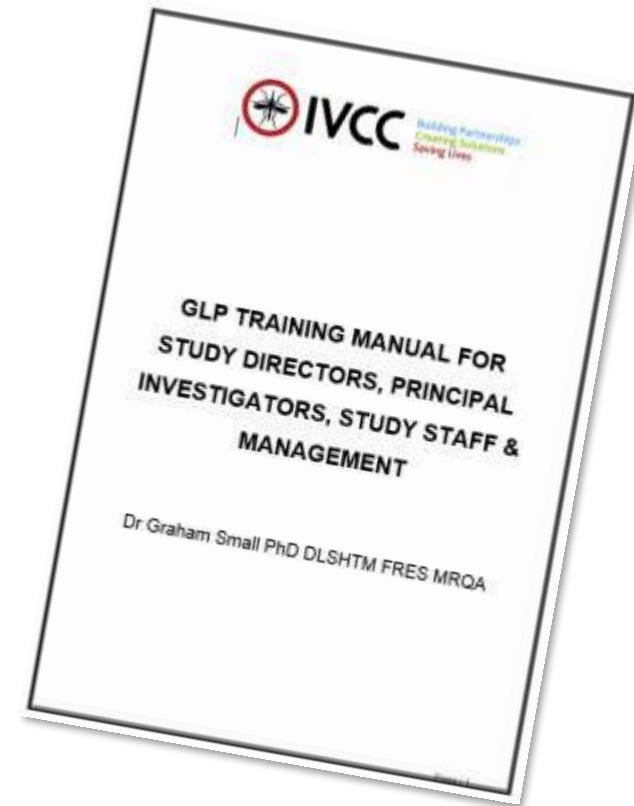
= developed and implemented  
 = currently being developed  
 = not yet developed

## IVCC: Progress.....

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### Objectives for 2016

- KCMUCo
  - Finalise Quality Manual and SOPs
  - Confirm GLP Accreditation
  - Conduct 1<sup>st</sup> GLP Study - Phase II IRS
- CREC/CSRS/IHI/IPR/IRSS
  - Complete Audits
  - Provide Pathway to accreditation for each site
  - Support each site towards accreditation
- GLP Manual
  - Finalise



## Data Quality Task Force update

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### Original Focus of DQTF:

- Improving data quality through implementation of GLP
- Improvement of existing and development of new test and / or application methods
- Experimental design and statistical analysis

### Scope:

- Broad covering any VC intervention and vector borne disease
- Initial focus: IRS

## Data Quality Task Force update

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Core Group: An Informal group, pooling resources, working to prevent duplication of effort

- WHOPEs/GMP - Rajpal Yadav
- VCT John Lucas
- IVCC Dave Malone
- CDC John Gimnig
- BMGF Dan Strickman
- VCWG : Steve Lindsay as focal point for academia:
- Experts as needed

## Data Quality Task Force update

---

### Key benefits of improved quality:

- Generating data that are reliable, repeatable and auditable
- Ability to compare products and trials more reliably.
- Better /more efficient use of limited resources (staff, experimental sites, finances, time etc)
- Expedite products through WHOPES
- Improved time to market, faster PH impact
- Quicker contribution of new a.i.s in malaria elimination

## Data Quality Task Force update

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### Key Activities

- Inventory of existing SOPs
- Identifying required SOPs
- Drafting new SOPs
- Development of Track sprayer
- Evaluation of Track sprayer – initial studies



## Data Quality Task Force update

---

### Examples of SOPs identified for development

- Building of East and West African style experimental huts;
- Refurbishment of experimental huts;
- Cleaning of the experimental huts post spraying;
- Spray calculations for IRS applications;
- Use of sprayers (including sprayer calibration and calculation of actual application rates post spraying);
- Determination of the quality of IRS applications;
- Cone bioassays in experimental huts;
- Preparation of sugar-soaked cotton wool for maintaining adult mosquitoes during transportation;
- Collection and evaluation of wild, free-flying mosquitoes in experimental huts;
- Scoring mosquito mortality;
- Safe disposal of insecticide waste.
- Transportation of mosquitoes used in cone bioassays;

# Variation in dose rate in experimental huts: Mud walls (3 sites) IRS with Control Flow Valve



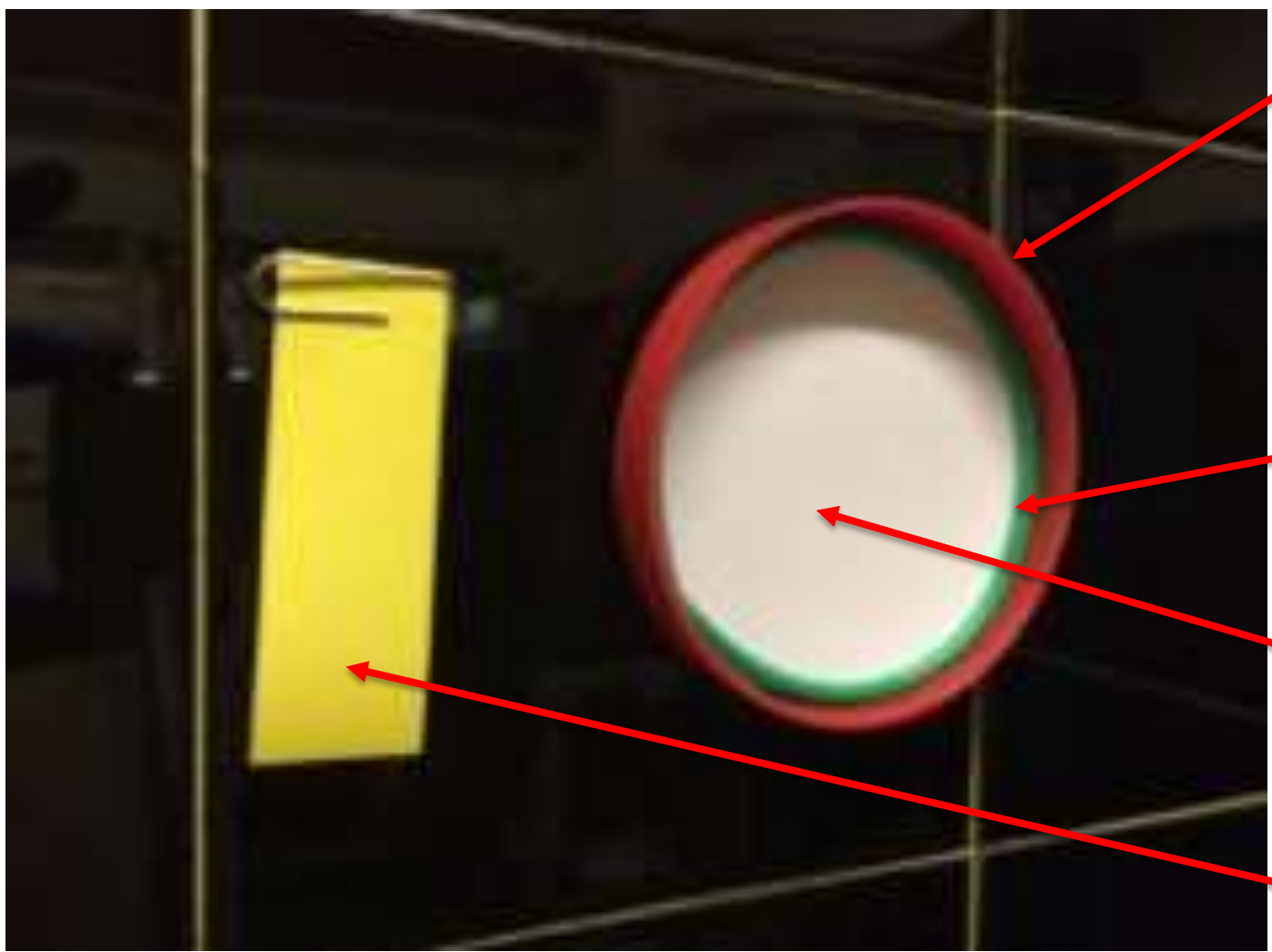
# Development and testing of the Micron® Track Sprayer



# Test Chamber at Micron



# Experimental Set Up



Plastic lid acts to prevent liquid running onto filter paper. Held on wall with Velcro pad

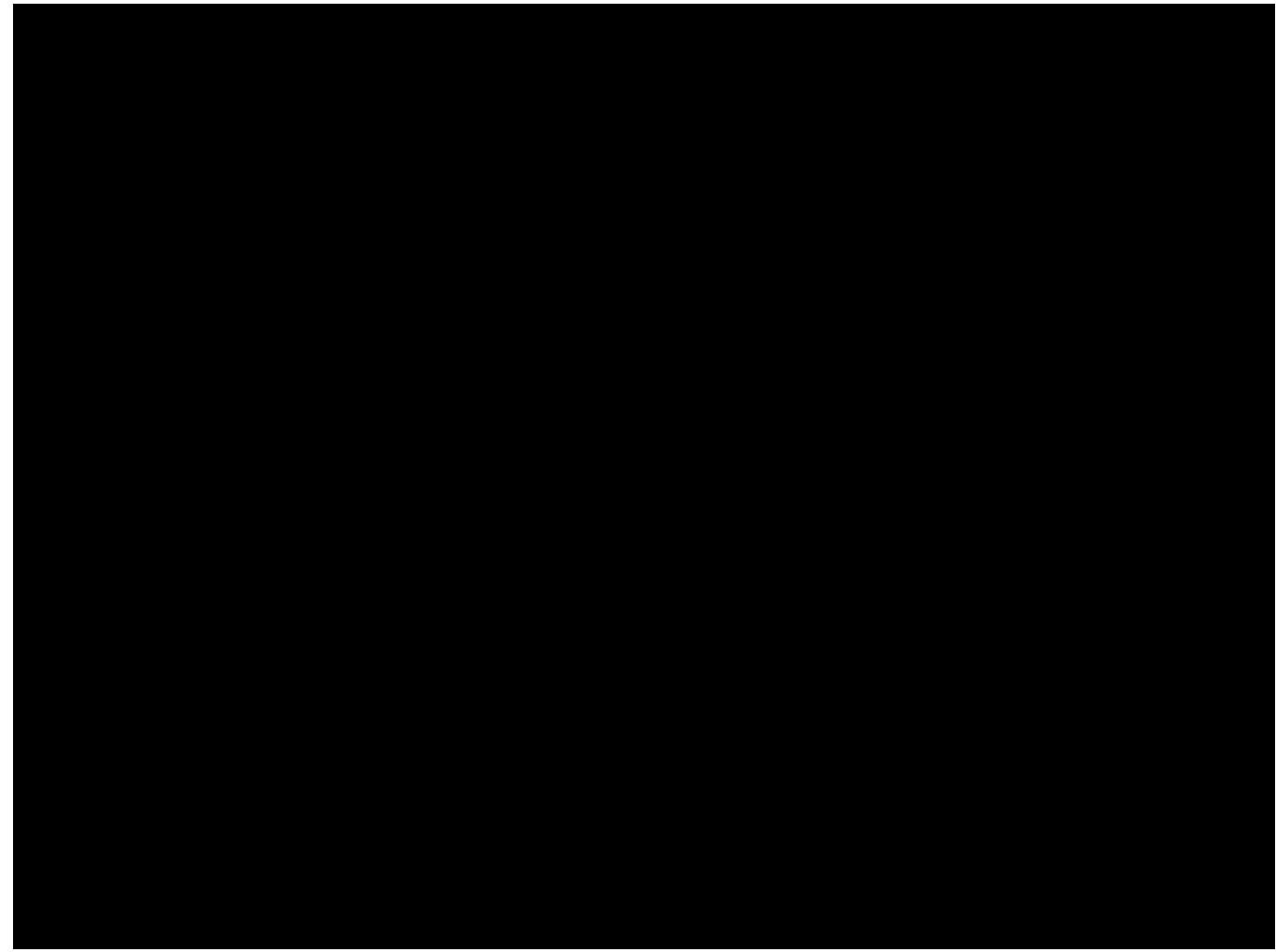
Plastic ring holds paper in place

Filter paper

Water Sensitive paper

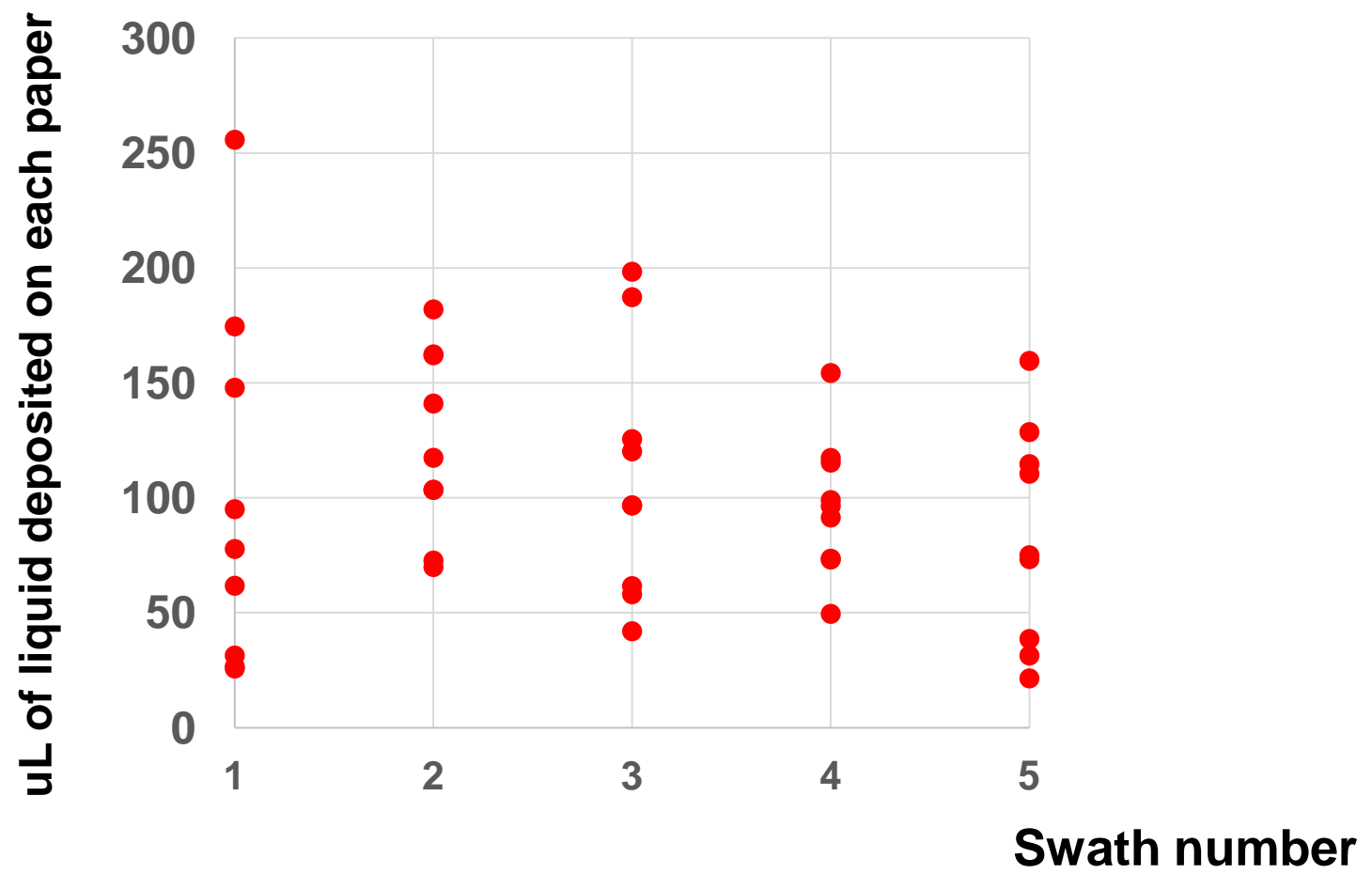
# Track Sprayer in use

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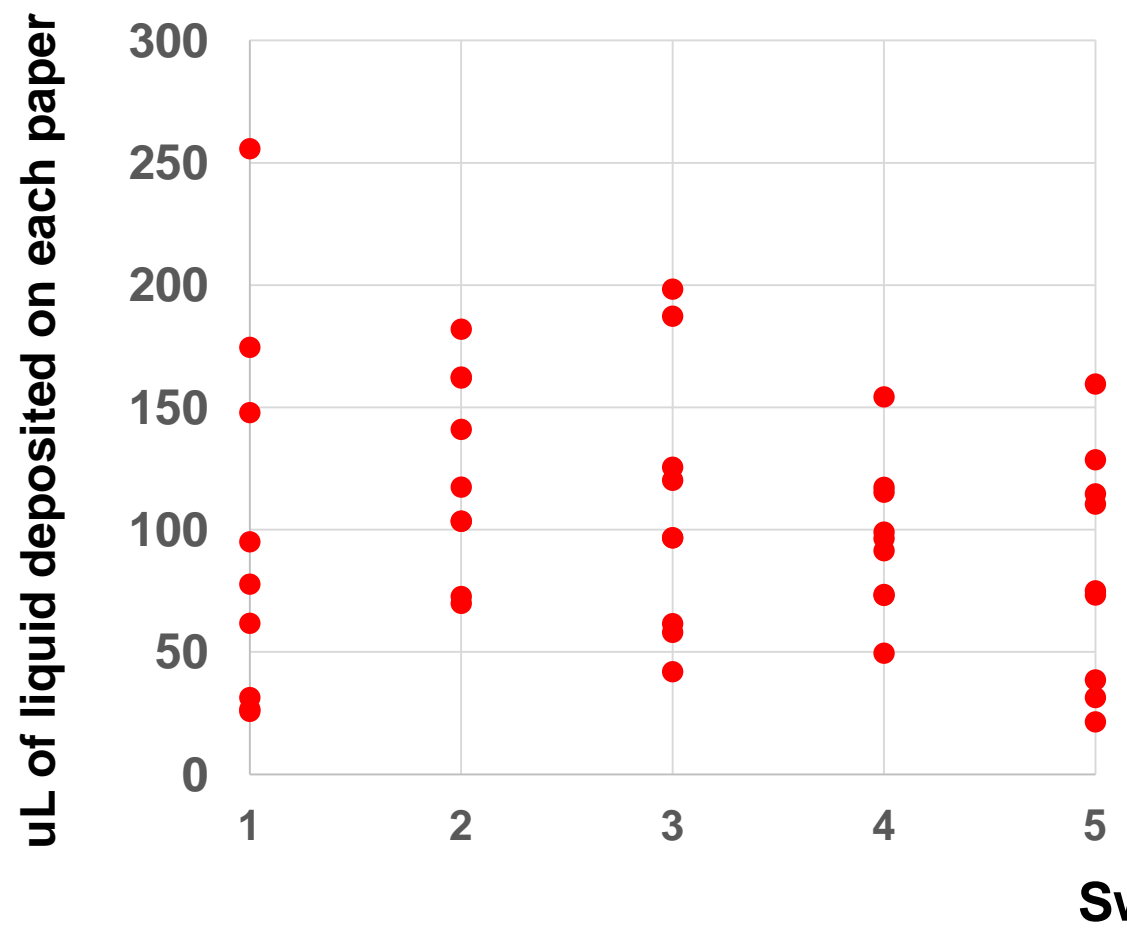
# Performance of track sprayer and manual IRS at 0.45 m/s

Manual IRS - corrected to 0.45 m/s (3 reps)

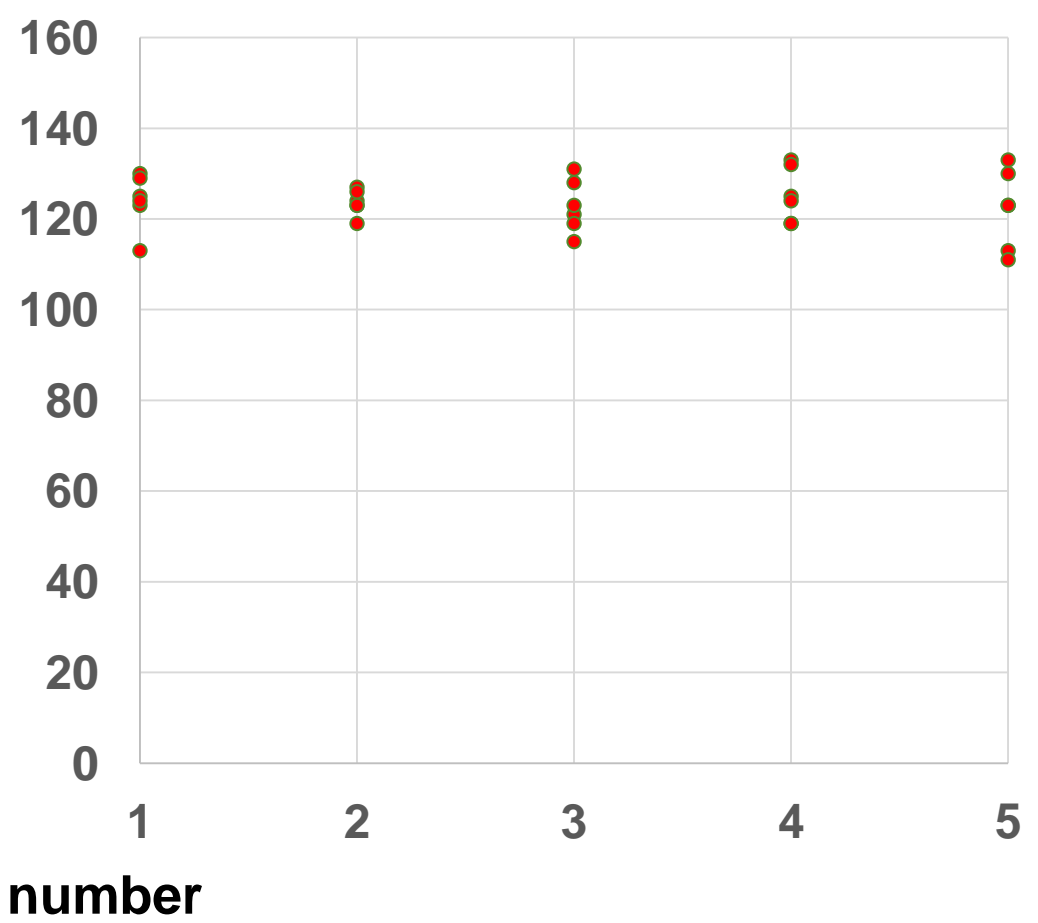


# Performance of track sprayer and manual IRS at 0.45 m/s

### Manual IRS - corrected to 0.45 m/s (3 reps)



### Track Sprayer – 0.45 m/s (2 reps)







# Data Quality Task Force

Experimental huts:  
Design considerations

# Cracks in experimental hut cement floor



- May allow ants to enter
- Ants can remove dead or KD mosquitoes.
- Fill cracks with flexible sealant/plaster
- New builds to include insect-proof membrane (e.g. Termimesh®) in the hut base.

# West African Hut wall dimensions



- 70 cm wide spray swaths (chalk lines) results in spraying into a corner
- Affects evenness of dosing
- Ceiling of hut is angled

## Data Quality Task Force update

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### Next steps

- Clarification of role of DQTF in i2i
- Drafting SOPs for LLINs
- Inventory of SOPs for other GL tests (larvicides, Space sprays)
- Funding development of statistical guidelines and tools for IRS, LNs (Proposal - TBD)
- Detailed evaluation of Track sprayer
- Inventory of Experimental huts, design improvements

# Do you have any questions for the GLP workstream or issues to raise?

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# March 23 agenda

Agenda item	Timing
Breakfast	8:00–8:30
<b>Procurement:</b> Progress summary, discussion on 2016 objectives and Q&A	8:30–9:20
<b>GLP:</b> Progress summary (including update from DQTF), discussion on 2016 objectives and Q&A	9:20–10:15
▶ <b>Break</b>	10:15–10:30
Presentation on issues facing NRAs in Sub-Saharan Africa	10:30–10:50
<b>Working session:</b> (a) PQ QA discussion & (b) GLP: Discussion of outstanding questions <sup>1</sup>	10:50–12:00
Lunch	12:00–13:00
<b>Summary of March 23 discussions and decisions made</b>	13:00–13:30
<b>Closing statement</b> <ul style="list-style-type: none"> <li>▪ Review of convening progress</li> <li>▪ Overall alignment on 2016 objectives and definition of success</li> </ul>	13:30–15:00
<b>Working session 4:</b> (a) Convening of industry working group & (b) I2I collaboration model	15:00–16:30

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# Inter-state Pesticides Committee for Central Africa (CPAC)

## Presentation Agenda

1. **Common Regulation & CPAC implementation process**
2. **Current situation and constraints**
3. **Conclusion: Proposed solutions**



# The problem: Uncontrolled marketing and circulation of pesticides in the Central African area

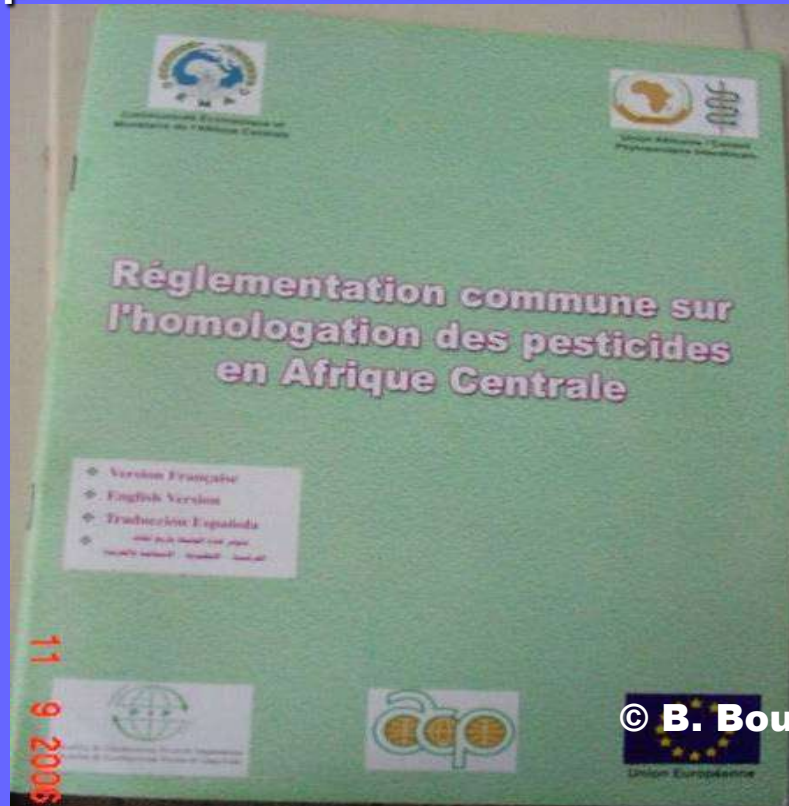
**Context:** Out of the 6 CEMAC member countries (Chad, Cameroon, Central African Republic, Equatorial Guinea, Gabon, & Republic of the Congo), only Cameroon & Chad had a pesticides management system more or less regulated

Therefore, some pesticides become obsolete/ outdated and pollute the environment



# The solution: Creation of CPAC to harmonize regulation of pesticide management in the CEMAC region

CPAC is responsible for executing the common regulation binding the registration of pesticides in Central Africa



CPAC is represented in every member state by a branch, including 3 experts/ official representatives per country, who took an oath at the Communitarian Court of Justice

- Many trainings were conducted for country experts & the standing secretariat, with the support of partners

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# CPAC is represented in each country by a expert unit, linked by an interconnected IT network, responsible for:

- Coordination on the implementation of CPAC decisions at a national level;
- Coordination on the fight against pesticides counterfeiting and fraud;
- Acting as intermediaries between CPAC & the National Management Committee of Pesticides (CNGP);
- Collecting and analyzing the information, transferring the information to CPAC in order to offer updates on the status of pesticide management in Central Africa;
- Etc.



Congo



Chad



Equatorial  
Guinea



Gabon



CAR

# Creation of National Management Committee of Pesticides (CNGP)<sup>1</sup>: Example of Chad

CNPGs are state structures that were created according to agreed-upon, harmonized mandates from CPAC

They assume the sovereign, regulatory function of the states and are overseen by CPAC units

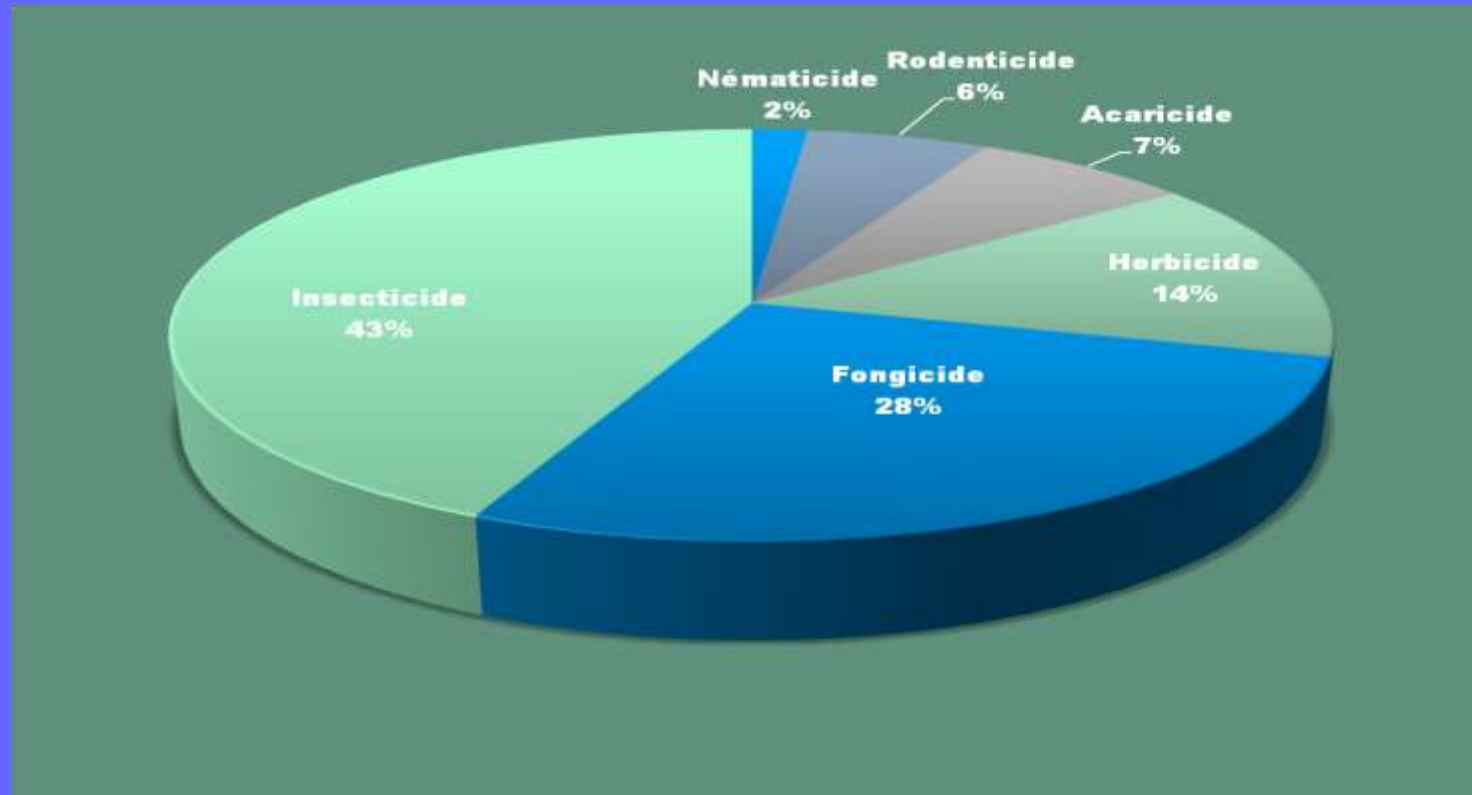


CNGPs have been created in Congo, CAR, Chad, & Equatorial Guinea

- The creation of CNGPs in the other countries is in progress

1. Comités Nationaux de Gestion de Pesticides

# Current status of the management of pesticides in the CEMAC zone, 2013

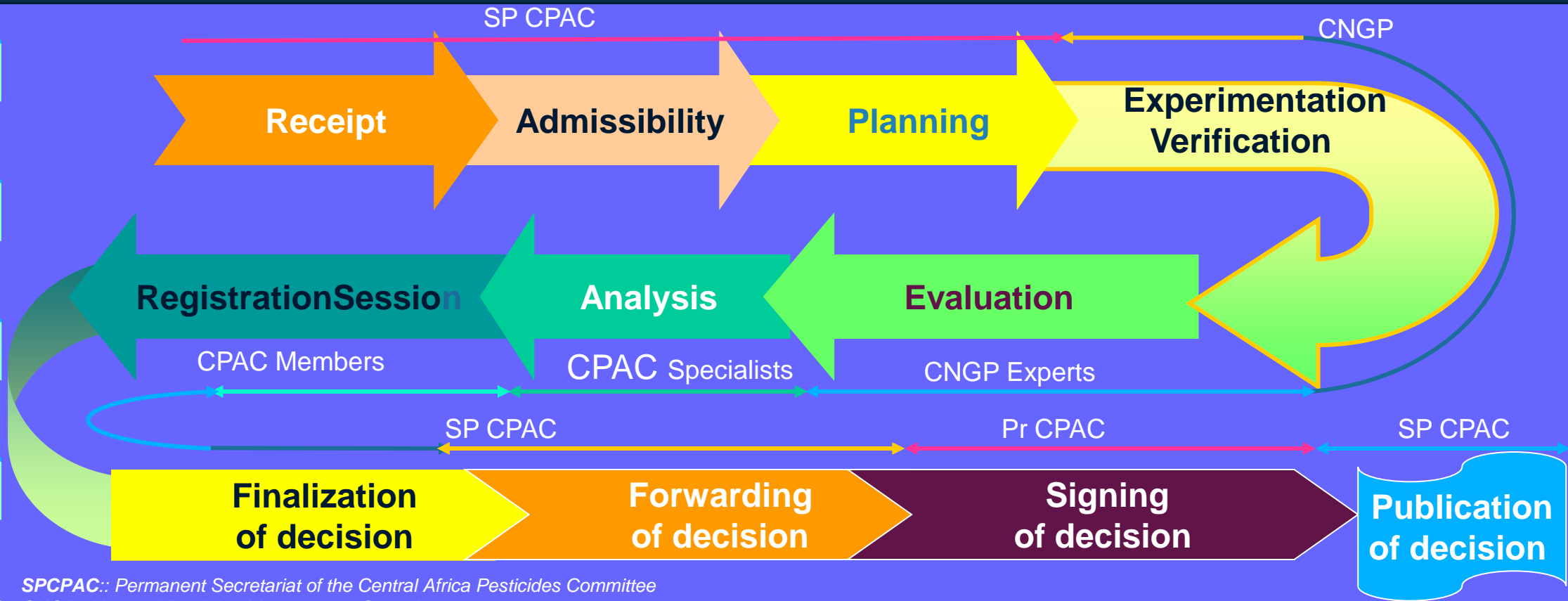


A little more than 600 formulations, comprising around 200 active substances, are in circulation in the CEMAC zone.





# Outline of Registration file processing circuit common to CPAC



*SPCPAC* : Permanent Secretariat of the Central Africa Pesticides Committee  
*CNGP* : National Pesticide Management Committees  
*PrCPAC* : President of Central Africa Pesticides Committee

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# Constraints/Shortcomings

1. CPAC was established for the entire Central African region ECCAS (Economic Community of Central African States), and includes 11 countries. But, due to lack of capacity, this initiative has concentrated on the six member states of CEMAC. While the 5 other CEEAC countries, who are not part of CEMAC, have the same problems & some countries, such as Sao Tome & Principe & the DRC, have expressed their interest in becoming CPAC members;
2. CPAC does not yet master the management of public health and hygiene pesticides, especially of those used in vector control;
3. The scientific functioning of CPAC is currently disturbed by political-administrative problems.

# Proposed Solutions

- 1. Integrate the other 5 central African countries into CPAC:**
  - ✓ Organize a reunion of experts from all 11 member countries of ECCAS;
  - ✓ Revive the CPAC units which were created in the CEMAC zone and establish these units in the other 5 member countries of ECCAS;
- 2. Train the experts of central Africa in the management of public health and hygiene pesticides, and especially of those used in vector control;**
- 3. Revive the scientific remit of CPAC, in addition to the political and administrative remits**





# Conclusion: Advantages of harmonizing Pesticide Management Policies

- Optimization and increase of security of the Pesticides Market
- At a subregional level, the Regional Pesticide Homologation Committees in Central Africa will decrease market access barriers (more detail on following slide)
- Counterfeiting and fraud will no longer benefit from the relaxed borders and spread rapidly
- Supervision and monitoring of vector control procedures:
  - Traceability of actions, with the possibility of rectifying them
  - State infrastructure and expertise complementarity
- Etc.



# Conclusion: Reducing market access barriers for the CEEAC region

- 1. The pooling of expertise & infrastructure, as well as the harmonization of procedures regarding pesticide management, will stabilize the ECCAS market, of about 145 million potential consumers, attracting investors through:**
  - The adoption of a single regulatory framework, common for all 11 countries
  - The reorganization of the 11 national registration commissions into a single common registration body, to serve all 145 million consumers. Investors will only apply to a single common registration committee to meet the 145 million consumers
- 2. Counterfeiting and fraud will be prevented in a more effective manner once the post-registration control and monitoring operations are harmonized and managed by a strong sub-regional network. Thus, good quality pesticides will have easier access to the market, without the threat of the unfair competition created by counterfeiting and fraud**

# Conclusion

- Once the market is secured and optimized, counterfeiting and fraud under control, vector control and management policies harmonized, the sensitization, information and training system functional, the effectiveness of action will be guaranteed.
- If this vector control regulation system is operational, it will be able to mobilize and channel the efforts of all partners into a unique direction in order to avoid the dispersion of these efforts.

# March 23 agenda

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# Third working session: 10:50–12:00pm

Recommendation only: Participants free to go to session of choice



## PQ QA discussion

### Presenter



M. McDonald  
D. Mubangizi

### Rapporteur

TBD

### Participants

**Academia & other global health partners:** K. Bahl, A. Court, L. Hall, H. Koenker, J. Phumaphi, M. Renshaw

**Bill and Melinda Gates Foundation:** S. George, H. Kettler, M. Lumpkin, S. Nazzaro, V. Williams, J. Zhou

**Industry:** T. Bonertz, R. Bosselmann, A. Butenhoff, A. Bywater, A. Hirooka, B. Jany, B. Johnen, T. H. Larsen, K. Mori, H. Pates, Jamet, F. Schmitt, E. Weinmueller

**Procurers:** A. Cameron, M.T. Jallow, E. Jensen, J. Kolaczinski, A. Leonard, S. Turner, J. Wallace, J. Woziniak

**IVCC:** N. Hamon, T. McLean, S. Rees, L. Rossi

**NMCPs:** N. Frempong, E. Orefuwa

**NRAs:** B. Bouato, L. C. Kafita

**WHO:** D. Engels, A. Mnzava, M. McDonald, M. Ward

## GLP: Discussion of outstanding questions<sup>1</sup>

### Lead



R. Yadav



D. Malone

### Rapporteur

TBD

### Participants

**Academia & other global health partners:** A. Costero-Saint Denis, S. James, S. Jennings, K. Malmud-Roam, C. Mbogo, M. Rao, D. Summa

**Bill and Melinda Gates Foundation:** P. Berry, D. Strickman, S. Miller, M. Reddy

**Industry:** R. Arrington, R. Flinn, J. Invest, J. Lucas, R. McAllister, M. Meier, C. Ogihara

**Procurers:** J. Cutler, C. Fornadel, M. Fotheringham, A. Jafarov

**IVCC:** M. Mondy

**NRAs:** C. Kanema

**WHO:** V. Akula, E. Temu

Dupont Ballroom (*general session room*)

Georgetown room

1. Plan for SOP revision & publication, selection of accreditation pathways, communication plan for test sites, role of DQTF, etc.

# Key takeaways from the Equivalency Consultation

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## **Current equivalency process tests specifications, TC/TK, and hazard; not efficacy or AI release profile through product life**

- Broad recognition that equivalency process is valuable for market, but should be reevaluated to ensure products are efficacious, in addition to safe, throughout intended duration of use

## **General consensus that equivalency process does not ensure that equivalent products have the same efficacy in the field as originators**

- Procurers show preference to originator products due to efficacy concerns and compensation for development cost
  - PMI conducts phase II testing before procurement, GF weights originator products in procurement decisions
- CropLife shared data showing an equivalent product did not perform equivalently to the originator net in efficacy tests
- Some countries (China & Nigeria (which retests all products)) retest equivalents locally; China requires one year of efficacy data

## **Broad alignment on the need for additional quality measures for both equivalent and originator products; in-line with PQT evaluation**

- Enthusiasm exists for new system and additional quality tests by WHO from all stakeholders
- New system will include manufacturing inspections, field tests, post-marketing evaluations (including variations), and post-marketing monitoring and surveillance

## **Consensus suggestions generated during meeting; to be considered by WHO during creation of PQT vector control evaluation system in 2016**



# Suggestions from equivalency consultation attendees include developing robust quality assurance and control processes



## **Inclusion of additional efficacy data requirements for equivalency**

- **For LLIN:** phase 1 required for interim recommendation, phase 2 for full recommendation
  - Explore durability criteria when nets are distributed in field for full recommendation of LLINs
  - Use of pass fail criteria only after tests are validated
- **For IRS:** phase 2 for full recommendation (skip phase 1)
- **Space spray, larvicides:** phase 2 for full recommendation

## **Development of robust QA/QC process including overall manufacturing process submitted for evaluation of originator and equivalent products**

- Postmarketing evaluation (including post marketing variations)
- Post launch monitoring and surveillance
- Field testing

## **Identification of research needs for validation, development, and addition of laboratory tests for specifications to evaluate long term durability and long term stability for slow or controlled release products for both originator and equivalent products**

**Suggestions to be considered by WHO during transition to PQT assessment;  
Additional comments made by Agrocare since consultation**

# Suggestions for quality standards broadly in line with current PQT system for medicines, diagnostics, and vaccines



## Description

### Assessment of bioequivalence studies

**Assessments of bioequivalence studies to ensure Good Clinical Practice (GCP)**

- Occurs for each study on a risk adjusted basis

### Pre-listing manufacturing site inspections

**Manufacturing site inspections to ensure Good Manufacturing Practice (GMP)**

- Occurs during dossier assessment before PQ listing
- Based on Site Master File<sup>2</sup> (SMF) submitted with dossier

### Post-listing manufacturing site inspections

**Manufacturing site inspections to ensure Good Manufacturing Practice (GMP)**

- Occurs after PQ listing, based on risk assessment protocols
- Includes assessment of post listing variations in manufacturing site or process

### Post-listing quality assurance

**Field sampling and testing of finished products in WHO Prequalified GLP certified laboratories**

**Maintenance of database for adverse quality events from stakeholders (incl. users, procurers, manufacturers)**

**Vector control quality assessment will be modeled after other PQT systems; detailed information and protocols available online<sup>1</sup>**

1. <http://apps.who.int/prequal/> 2. [http://apps.who.int/prequal/info\\_general/documents/TRS961/TRS961\\_Annex14.pdf](http://apps.who.int/prequal/info_general/documents/TRS961/TRS961_Annex14.pdf)



# Suggestions for quality standards broadly in line with current PQT system for medicines, diagnostics, and vaccines



**Frequency**

## Assessment of bioequivalence studies

Inspection of site, methods, and data for each bioequivalence study

- Generally occurs once for each study at the discretion of PQT

## Pre-listing manufacturing site inspections

Inspection of each manufacturing site before PQ listing

## Post-listing manufacturing site inspections

Regular inspections of manufacturing sites on a ~3 year basis

- More frequently based on adverse quality events, notices of concern, or recent product variation
- Less frequently if recently inspected by qualified stringent regulatory authority

## Post-listing quality assurance

Scheduled and random inspections of finished products in WHO Prequalified GLP certified laboratories

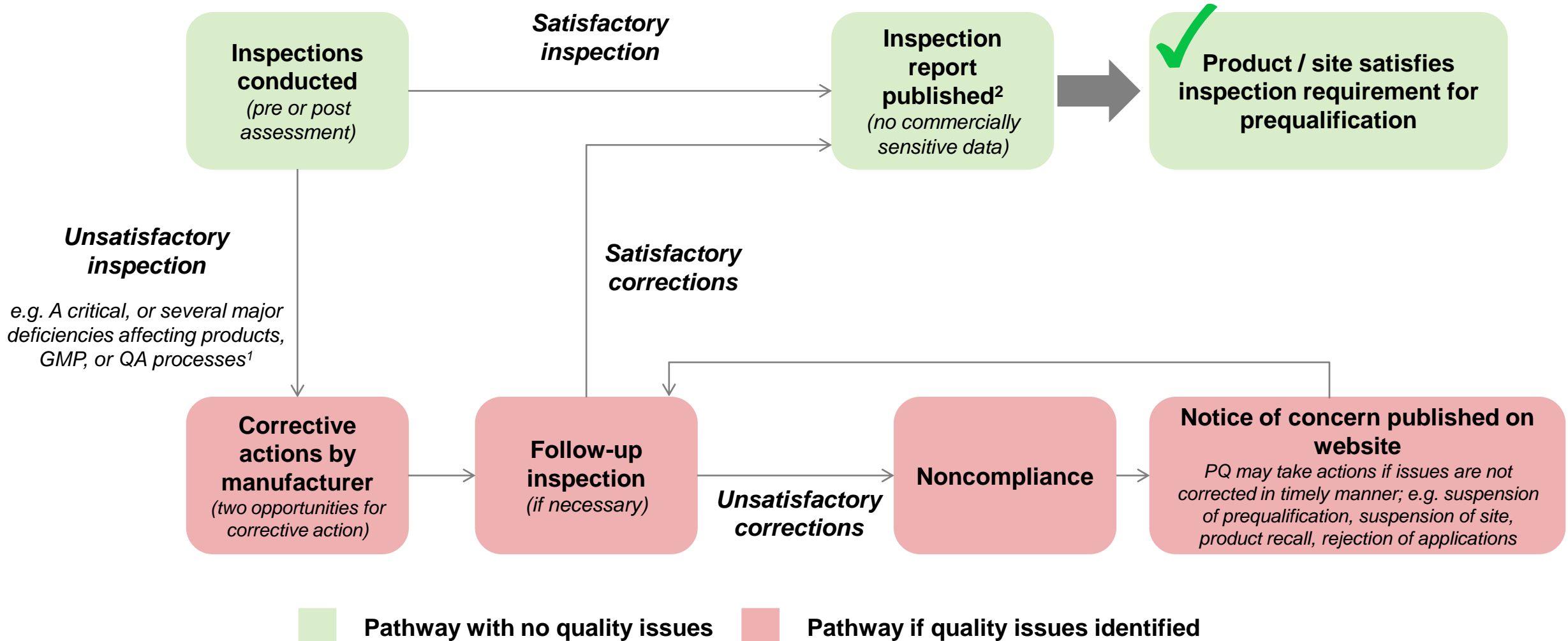
Adverse quality events collected in database

**Vector control quality assessment will be modeled after other PQT systems; detailed information and protocols available online<sup>1</sup>**

1. <http://apps.who.int/prequal/> 2. [http://apps.who.int/prequal/info\\_general/documents/TRS961/TRS961\\_Annex14.pdf](http://apps.who.int/prequal/info_general/documents/TRS961/TRS961_Annex14.pdf)

# Inspections process for prequalified medicines

Manufacturers given opportunity to correct non-critical inspection deficiencies before action is taken by PQT<sup>1</sup>



Source: [http://apps.who.int/prequal/assessment\\_inspect/info\\_inspection.htm](http://apps.who.int/prequal/assessment_inspect/info_inspection.htm) 1. Critical deficiencies or misrepresentations will result in immediate action  
2. [http://apps.who.int/prequal/WHOPIR/pq\\_whopir.htm](http://apps.who.int/prequal/WHOPIR/pq_whopir.htm)

# WHO PQT Medicines: Target inspection timelines

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- ✓ **First inspection:** 6 months from dossier acceptance for assessment or from site confirms it is ready.
- ✓ **Surveillance/Routine monitoring inspection:**
  - ✓ **Due date:** risk-based, 1 – 3 years from date of previous inspection
  - ✓ **Actual date:** ± 3 months from due date.
- ✓ **Notification:**
  - ✓ Announced: 1 – 2 months before inspection.
  - ✓ Unannounced/shot announced: 0 – 7 days before inspection
- ✓ **Onsite days:** 3 – 5 days.
- ✓ **Report:** 30 days from last date of inspection.
- ✓ **CAPAs:** 30 days from receipt of report (max 2 rounds, comprehensive, on CDs and not hard copies)
- ✓ **Closing of inspection:** 6 months from inspection.
- ✓ **Follow-up inspection:** 6 months from inspection

# Do you have any questions?

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# GLP working session: Objectives and agenda

## Objectives:

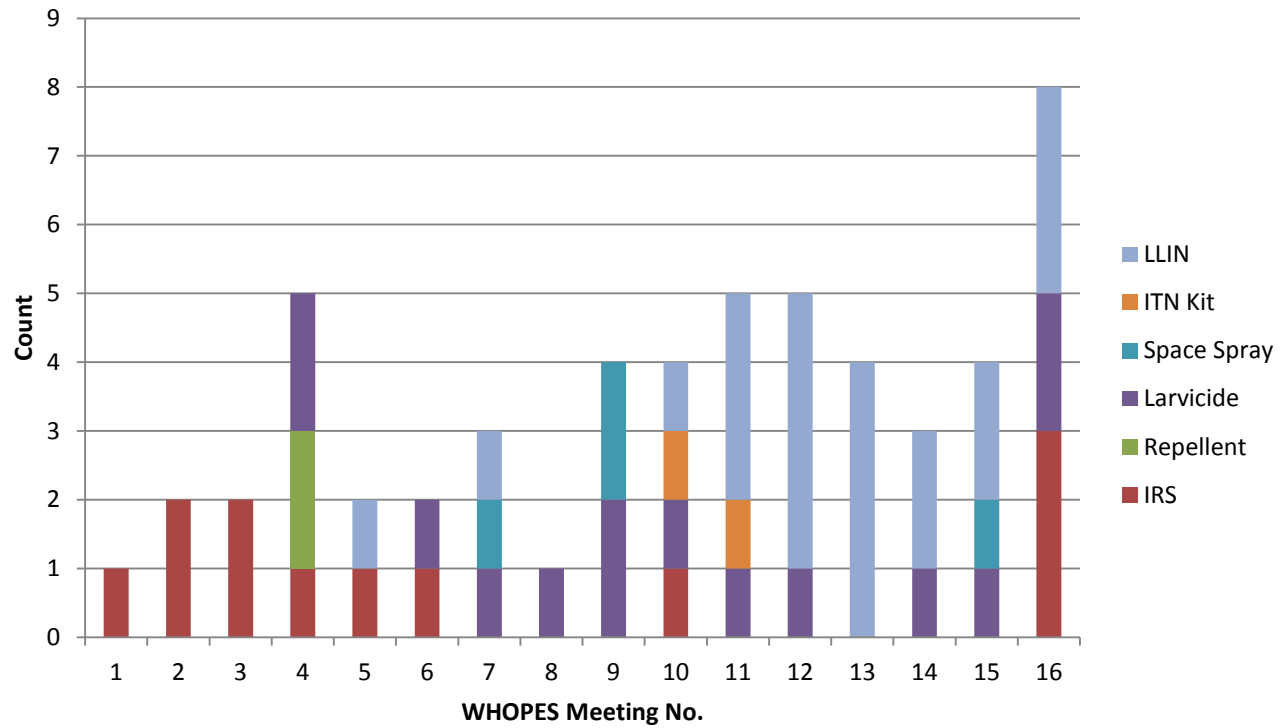
- Align on capacity needs**
- Align on path forward to add additional GLP capacity**
- Identify path forward on SOPs**
- Identify other specific next steps to potentially add to GLP workstream plan**

	<b>Detailed agenda</b>	<b>Time</b>	<b>Presenter</b>
<b>1</b>	<ul style="list-style-type: none"> <li>▪ Capacity mapping: Needs now and to 2025               <ul style="list-style-type: none"> <li>– Testing capability</li> <li>– Seasonality</li> <li>– Resistance insect colonies &amp; R status of wild, test species, etc. (VCAG Guidelines)</li> </ul> </li> </ul>	~20 min	<b>Rajpal/Dave</b> (tentative)
<b>2</b>	<ul style="list-style-type: none"> <li>▪ Process for adding CROs (Eurofins etc) &amp; accepting companies doing their own GLP</li> <li>▪ Adding other institutions that want to become accredited, e.g. Muheza (do we need, budget?)</li> </ul>	~20 min	<b>Dave</b> (tentative)
<b>3</b>	<ul style="list-style-type: none"> <li>▪ SOPs: Timelines – detailed discussion by continent, site etc               <ul style="list-style-type: none"> <li>– How to manage, coordinate, share</li> <li>– SOPs and ownership/confidentiality</li> <li>– Where to hold SOP templates for general use, who should host</li> <li>– Develop list of SOPs needed for LNs IRS, SS, Larvicide</li> </ul> </li> </ul>	~30 min	<b>Dave</b> (tentative)
		<b>Total: 70 min</b>	

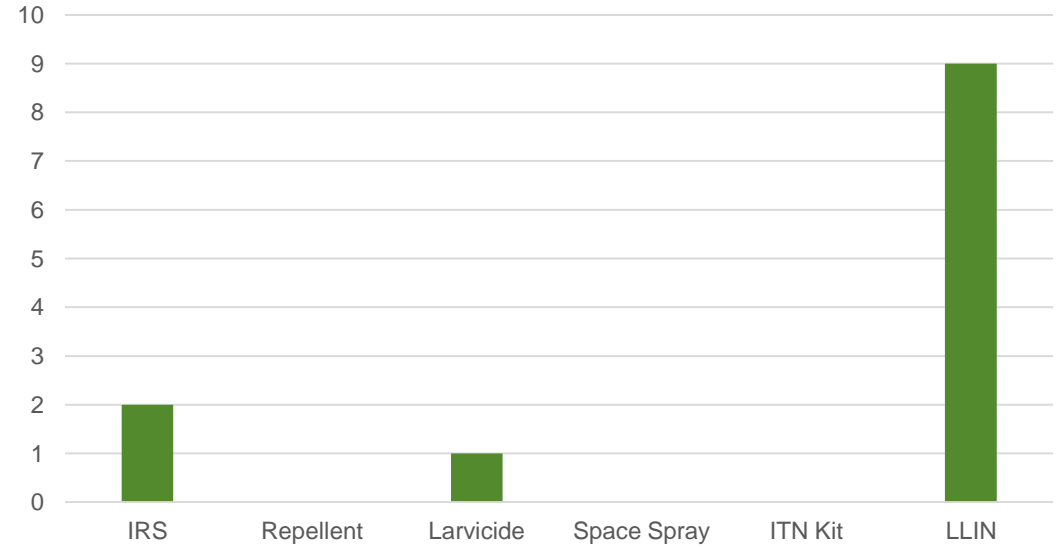
## Are we planning sufficient capacity ?



### WHOPES Meetings Product Evaluations



### Pesticide Products Currently Under Evaluation



# Alignment with VCAG

**THIRD MEETING  
OF THE  
VECTOR CONTROL ADVISORY GROUP**

VCAG

ANNEX 3. GUIDELINES FOR TESTING NEW LONG-LASTING INSECTICIDAL NET PRODUCTS TO SUBSTANTIATE EFFICACY CLAIMS IN AREAS OF HIGH INSECTICIDE RESISTANCE

**Are we considering requirement for evaluating against resistant mosquitoes?**

## 1. STAGE I – LABORATORY TESTING

### 1.3. What resistance strains should be tested?

- i. Standard strains that represent the broad spectrum of major insecticide resistance mechanisms currently known to exist in mosquito vector populations should act as the reference test strains for next-generation LLNs. A list of the standard strains of insecticide-resistant mosquitoes which may be procured for testing is given at the end of this document.

## 2. STAGE 2 – EXPERIMENTAL HUT STUDIES

### 2.2. Site criteria

Experimental hut studies need to be conducted in areas where the mosquito population has high levels (RR > 10-fold) of well-characterized pyrethroid resistance. For data to be accepted, the resistance profile and species composition of the site must be determined immediately prior to, or at the same time as, the trial.

## Additional GLP facilities.....

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1. **Contract Research Organisations with capacity to conduct GLP vector control trials (Eurofins/I2L Research/Syntech etc.) ?**
2. **Companies doing their own GLP studies ?**
3. **Other institutions that want to become accredited e.g. NIMR, Muheza Tanzania ?**
4. **Reviewing, updating supporting current sites beyond accreditation ?**



# Standard Operating Procedures (SOPs)

- Listing of SOPs required for the conduct of vector control product evaluations
  - LLINs
  - IRS
  - Space Spray
  - Larvicide
  - Repellent
- How do we manage, coordinate and share SOPs?
- Issues of ownership and confidentiality?
- Hosting of SOPs for general use?



**Do we need further workshops to resolve?**

# March 23 agenda

Agenda item	Timing
Breakfast	8:00–8:30
<b>Procurement:</b> Progress summary, discussion on 2016 objectives and Q&A	8:30–9:20
<b>GLP:</b> Progress summary (including update from DQTF), discussion on 2016 objectives and Q&A	9:20–10:15
Break	10:15–10:30
Presentation on issues facing NRAs in Sub-Saharan Africa	10:30–10:50
<b>Working session:</b> (a) PQ QA discussion & (b) GLP: Discussion of outstanding questions <sup>1</sup>	10:50–12:00
▶ <b>Lunch</b>	12:00–13:00
<b>Summary of March 23 discussions and decisions made</b>	13:00–13:30
<b>Closing statement</b> <ul style="list-style-type: none"> <li>▪ Review of convening progress</li> <li>▪ Overall alignment on 2016 objectives and definition of success</li> </ul>	13:30–15:00
<b>Working session 4:</b> (a) Convening of industry working group & (b) I2I collaboration model	15:00–16:30

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# Working session summary: PQ QA discussion

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## Key takeaways

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**PQ quality assurance system for vector control to be based off of principles from PQ medicines QA and international standards (e.g., ISOs)**

- 4 part quality assurance system in PQ today:  
Assessment of studies, pre-listing site inspections, post listing site inspections, and ongoing post listing quality assurance

**QA system for vector control will be phased in pragmatically after 1/1/17, and customized to circumstances of vector control**

## Next steps

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**QA system will be developed by PQT in 2016 with input from vector control experts and other stakeholders**

- Specifics will be announced well in advance of 1/1/17

# Working session summary: GLP – Discussion of outstanding questions

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## Key takeaways

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### **Sites selected for GLP accreditation should be able to test new product types & resistant strains**

- Now most products reviewed are LLINs & IRS, but in the future, many products (Wolbachia, etc.) may not be pesticides
- VCAG guidelines exist for testing resistance, but outstanding questions remain, especially for evaluating resistant strains

### **Robust communication needed so that more sites can become accredited (through their own financing)**

- Although more sites will want support for accreditation, funding is limited & need to see business need
- Opportunity to approach QC & agriculture GLP accredited sites in Africa about entomological capabilities, including government sites
- NMCPs and NRAs need to be engaged to ensure understanding the data generated by GLP is as robust and acceptable as WHOPEP CC data

### **Consensus in working group that research organizations (Eurofins, Syntech, etc.) and companies should be able to use their own GLP sites for dossiers**

## Next steps

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**Conduct a capacity analysis to ensure that I2I supported GLP sites are building capacity for new products (e.g., transgenic mosquitos, resistant strains)**

**Prioritize development and publication of SOPs for testing resistant mosquitoes**

**Communicate policy changes about GLP and involve scientists from African sites in future discussions**

- Sites that are motivated to (a) become accredited or (b) expand entomological test capacity should be engaged
- Financial support through I2I is limited, but training of local GLP experts can coordinate and train additional sites
- Share GLP manuals and SOPs broadly

**IR-4 is hosting non-confidential SOP library in short term, WHO may host in the longer term**

**Data Quality Task Force to sit within GLP workstream, to focus on longer-term, quality issues**

# March 23 agenda

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# Significant progress made between London & Washington convenings

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## Key topics discussed in London

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### Manufacturer generated data & data ownership

### Equivalency consultation

### Country-level engagement

## Progress presented in Washington

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- Significant progress made in GLP site accreditation & mapping of timelines
- WHO accepting manufacturer generated data (generated at non-GLP sites)
- Reached consensus on suggestions for criteria for equivalency
  - Participation from equivalent and innovator manufacturers, procurers, NRAs, country programs, WHO etc.
- Significant increase in country involvement
- Path forward to continue to increase country- and regional-representative engagement

# For discussion: Action items to address coming out of Washington convening

Working session	Topic	Action item	Who	When
<b>March 22</b> <b>13:30–15:00</b>	Primer on WHO Pre-Qualification	Develop pathways with requirements and timelines	PQT	
	Value-based procurement	Define opportunities to catalyze normative guidance	Procurement workstream	
<b>March 22</b> <b>15:30–17:00</b>	Normative guidance	Share existing classes of new tools (paradigms)	NTD	
	Discussion of country-level engagement	Develop strategy and timeline for country & regional engagement	I2I LT	
<b>March 23</b> <b>10:50–12:00</b>	PQ QA discussion	Create QA standards for VC-products	PQT	
	GLP: Discussion of outstanding questions	Finalize GLP manual	IVCC	

**Other key action items?**



# Key success factors going forward to maintain momentum

---

1

## **Continue to develop creative, effective, lasting solutions**

- Design the right solutions – not the easy solutions

2

## **Build on current momentum to develop ambitious timelines and deliver quick-wins**

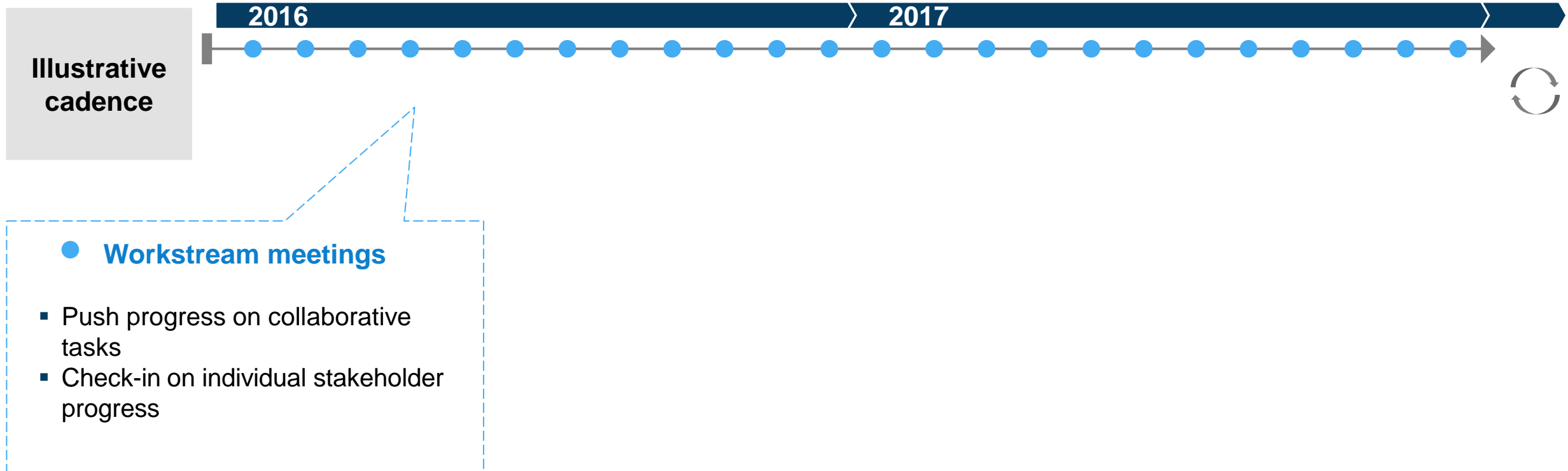
- "Don't let the perfect be the enemy of good"

3

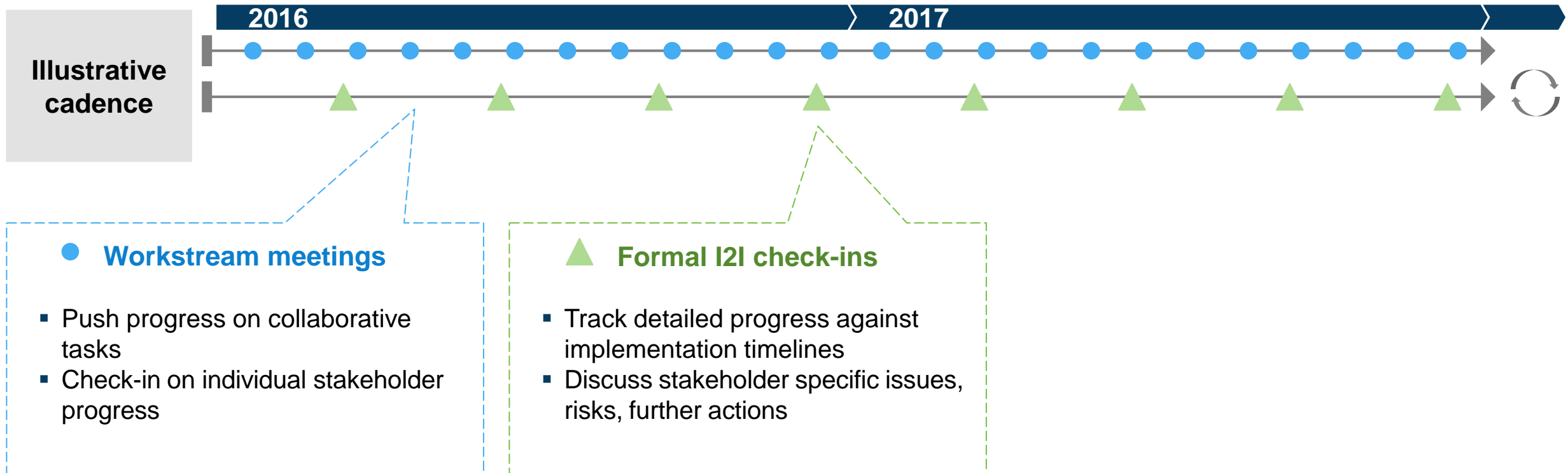
## **Maintain open communication and close collaboration between all stakeholders**

- Sustainable collaboration facilitating honest elevation of issues and rigorous tracking of results
- Channel feedback to I2I Leadership Team to enable iteration and improvement

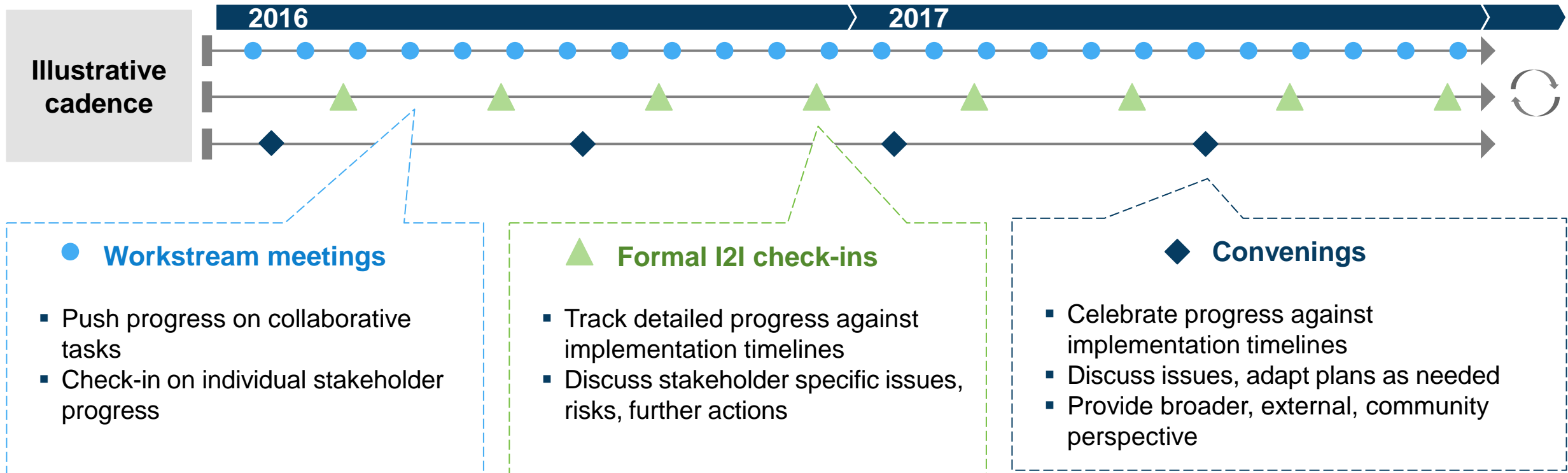
# Robust implementation oversight structure should ensure ongoing collaboration and progress



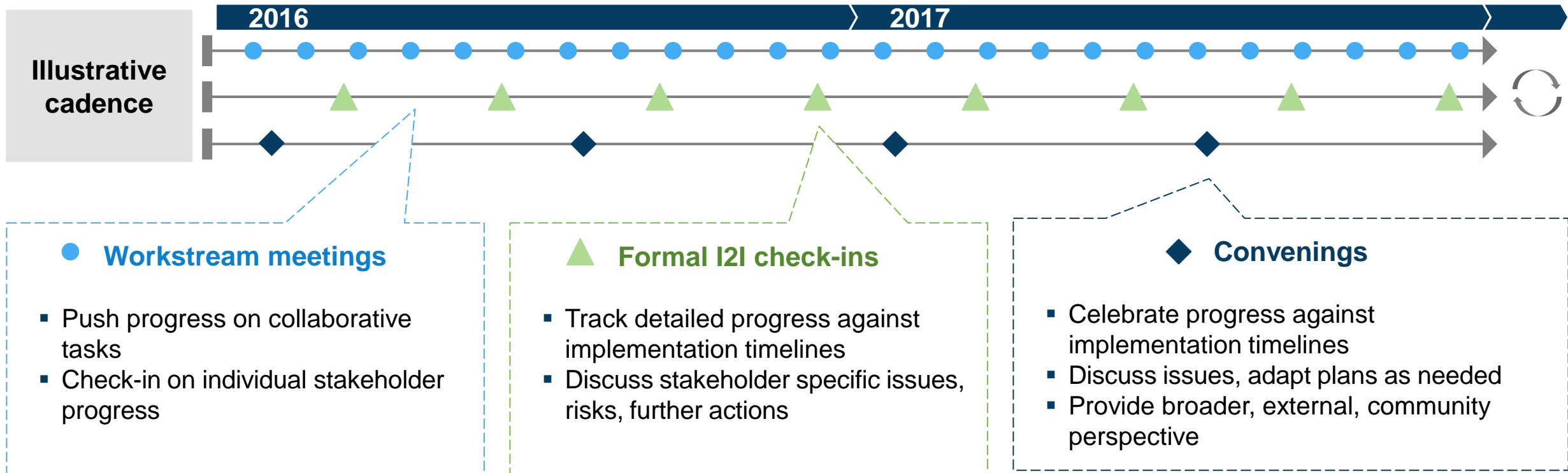
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# Robust implementation oversight structure should ensure ongoing collaboration and progress



**Do not let regularity of meetings prevent raising issues as they occur  
& I2I LT will check-in with key stakeholders on an ad-hoc basis**

Robust implementation oversight structure should ensure ongoing collaboration and progress

---



## I2I's door is always open

**Angus Spiers**

angus.spiers@innovation2impact.org

+1-202-615-4499

**Do not let regularity of meetings prevent raising issues as they occur  
& I2I LT will check-in with key stakeholders on an ad-hoc basis**

Do you have any final questions or thoughts to share?

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Thank you for your engagement over the past two days!



**With your continuing hard work and collaboration, we can contribute to reducing the burden of malaria and NTDs**

# March 23 agenda

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<b>▶ Working session 4:</b> (a) Convening of industry working group & (b) I2I collaboration model	15:00–16:30

# Final, post-convening working session: 15:00-15:45pm

## Convening of industry members

Lead	Participants
<p><b>BILL &amp; MELINDA GATES foundation</b></p> <p>D. Strickman</p>	<p><b>Industry:</b> R. Arrington, F. Baud, T. Bonertz, R. Bosselmann, A. Butenhoff, A. Bywater, R. Flinn, A. Hirooka, J. Invest, B. Jany, B. Johnen, T. H. Larsen, J. Lucas, R. McAllister, M. Meier, K. Mori, C. Ogihara, H. Pates Jamet, F. Schmitt, E. Weinmueller</p> <p><b>Bill and Melinda Gates Foundation:</b> J. Zhou</p>

## I2I collaboration model with workstream leads,

Lead	Participants
A. Spiers	<p><b>Academia &amp; other global health partners:</b> C. Mbogo, J. Phumaphi, M. Renshaw</p> <p><b>Bill and Melinda Gates Foundation:</b> S. George, H. Kettler, V. Williams</p> <p><b>IVCC:</b> D. Malone, M. Mondy, L. Rossi, N. Hamon</p> <p><b>NRAs:</b> B. Bouato, L. C. Kafita, C. Kanema</p> <p><b>NMCPs:</b> N. Frempong, E. Jensen, J. Kolaczinski, E. Orefuwa, J. Wallace</p> <p><b>Procurers:</b> C. Fornadel, C. Game</p> <p><b>WHO:</b> D. Engels, A. Mnzava, R. Velayudhan, R. Yadav</p>

**Kalorama Room**

**Georgetown room**

# Industry working session: Objectives and agenda

## Objectives:

**Discuss working session topics and consolidate industry perspectives**

**Align on next steps for workstream**

## Detailed agenda

## Time

## Presenter

- |   |  |         |                      |
|---|--|---------|----------------------|
| ① | Guided discussion on industry perspectives on working session topics | ~45 min | <b>Dan Strickman</b> |
| ② | Summary of areas of alignment, open questions, & next steps          | ~20 min | <b>Angus Spiers</b>  |

# Detailed agenda

## Guided discussion

**This is your opportunity to share your thoughts with other members, liaisons and I2I leadership. We'd like to go around the room to give everyone an opportunity to share their thoughts on three topics:**

- 1** What is your overall view of the progress and risks associated with I2I?
- 2** What is your sense of opportunities and challenges in specific industry requirements for each workstream?
- 3** What do you think are the critical next steps for the industry workstream?

**We will not be able to get to a solution for open questions in this time—our goal is to create a list of topics for further discussion ahead**

## Summary

**We will collate the feedback and next steps to share with I2I leadership in the final 20 minutes of this session**

**Liaisons should emerge from the summary with priority topics to share with their respective workstreams**

- Focus should be on open issues/questions as well as potential solutions

# Working session summary: Convening of industry working group

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## Key takeaways

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### Industry workstream requests clarification on 5 key topics covered at I2I convening:

- Where are time savings expected in the new pathway?
- How will manufacturer-generated data be accepted before 2017?
- How will normative guidance change from the current system?
- Will manufacturing site inspections be required for products currently on market, or just future products?
- In what cases can VCAG provide policy setting (e.g., can Zika response be used as a template for future policy setting)?

## Next steps

---

### The industry workstream has committed to three proposals in the coming months

- High level suggested data requirements for PQT dossiers for range of vector control categories
- Recommendations on normative guidance
- Proposed updates to IRS guidelines

**Workstream to engage with industry members not present at convening to ensure broad industry perspectives represented in deliverables (including additional manufacturers of non-innovator products)**

# Next steps for industry workstream

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## **Align on scheduling of next workstream meeting**

- Aiming for a call in May
- Agenda will include Terms of Reference document and liaison updates

## **Liaisons summarize feedback from this session and follow up with respective workstreams**

- Consolidated industry perspectives should be shared with other workstreams prior to next industry call
- We will provide support in the next couple weeks to align with workstream leads on engagement strategy

## **Align on Terms of Reference**

- Initial draft of the Industry workstream Terms of Reference will be sent in next week
- If you have feedback, send notes to Kristen (earle.kristen@bcg.com) by April 20th for discussion at next workstream call



# Collaboration model working session: Objectives and agenda

## Objectives:

Discuss plan for I2I collaboration model

Receive feedback on possible model improvements

Detailed agenda	Time	Presenter
① ▪ Guided discussion on I2I collaboration model	~40 min	<b>Angus Spiers</b>
② ▪ Summary of areas of alignment, open questions, & next steps	~5 min	<b>Angus Spiers</b>
Total: 45 min		

# Key success factors going forward to maintain momentum

---

1

## **Continue to develop creative, effective, lasting solutions**

- Design the right solutions – not the easy solutions

2

## **Build on current momentum to develop ambitious timelines and deliver quick-wins**

- "Don't let the perfect be the enemy of good"

3

## **Maintain open communication and close collaboration between all stakeholders**

- Sustainable collaboration facilitating honest elevation of issues and rigorous tracking of results
- Channel feedback to I2I Leadership Team to enable iteration and improvement

# I2I workstreams will be supported by the I2I collaboration model



Vision area  
Time-limited workstreams

## I2I Advisory Board (AB)



Sets strategic direction

Provide thought partnership to solve critical challenges

## I2I Leadership Team (LT)



Helps workstreams deliver on the overall goal and workstream specific objectives

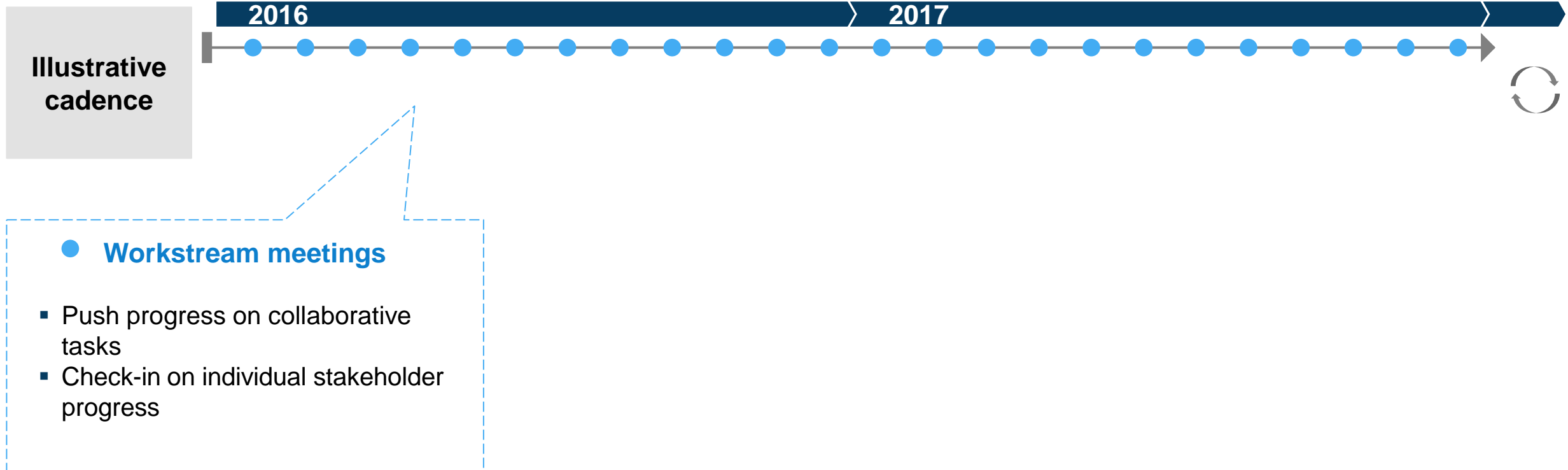
Coordinates across workstreams and partners with workstreams to solve challenges

## Workstreams

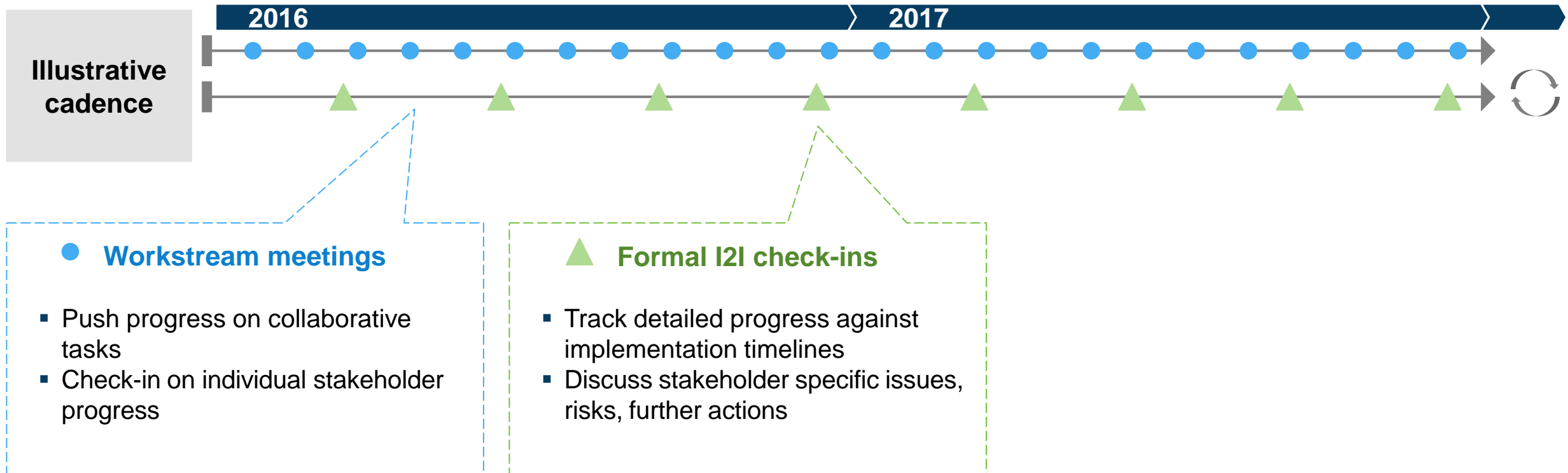


Lead implementation of I2I vision

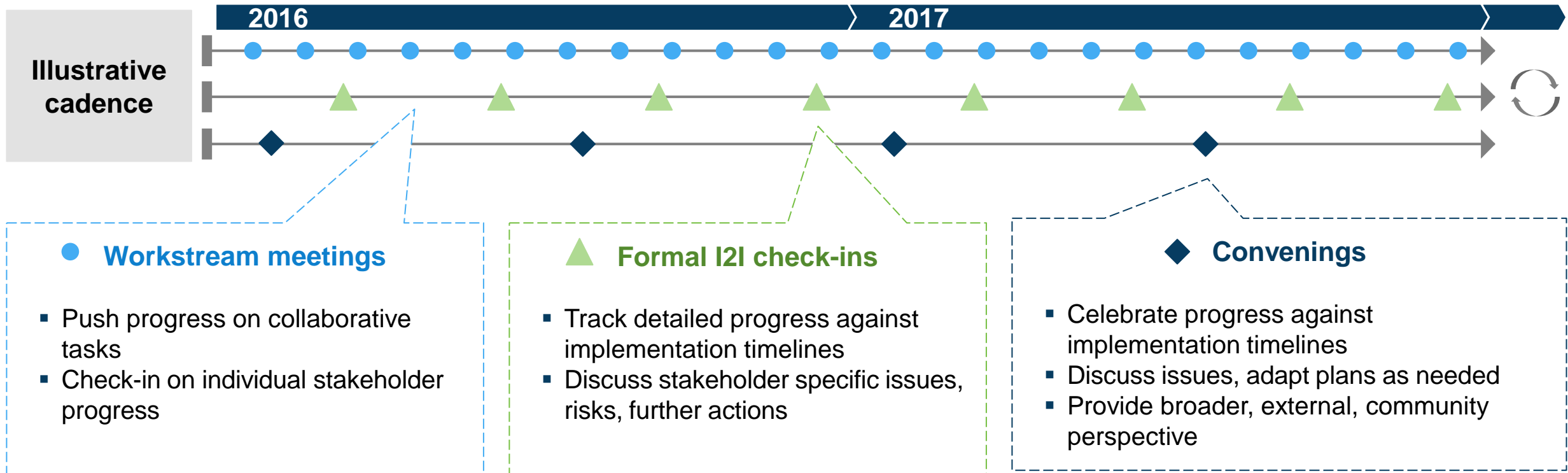
# Robust implementation oversight structure should ensure ongoing collaboration and progress



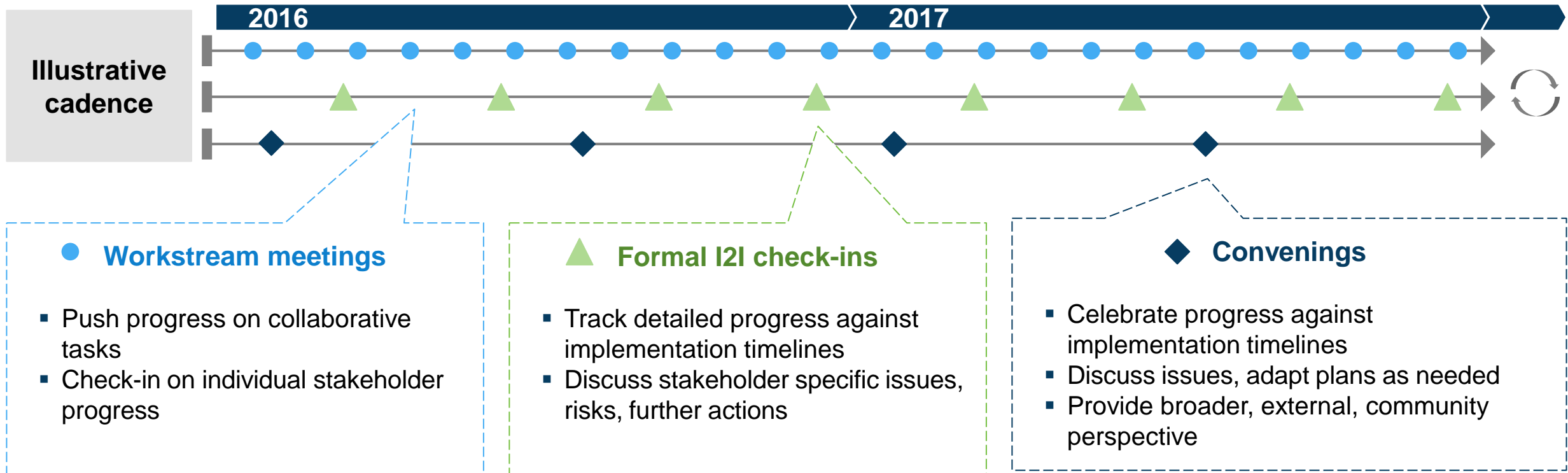
# Robust implementation oversight structure should ensure ongoing collaboration and progress



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# Robust implementation oversight structure should ensure ongoing collaboration and progress



**Do not let meetings prevent raising issues as they occur;  
I2I LT always has its "doors open"**



# Does the collaboration model meet your needs to deliver on I2I's vision?

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## Key questions

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Are there any **other success factors** to maintain momentum that we should consider?

Would you recommend **more or less frequent touchpoints**?

Is the planned **mix of touchpoints** (calls, meetings, convenings) **effective**?

Is there any **other support** that would help you achieve your workstream's objectives?

Any other **suggestions to improve I2I's collaboration model**?

