

Global Health Supply Chain Summit

Abstract 93

Marie Lamy Steven Harsono 18 November 2019



Malaria Access Map

Marie Lamy, APLMA Steven Harsono, IQVIA

Leveraging data on access to malaria commodities en route to elimination in the Greater Mekong Subregion (GMS)



APLMA steers the implementation of the Leaders' Malaria Elimination Roadmap to eliminate malaria in Asia Pacific by 2030

P Ô9	Background	 An affiliation of Asian and Pacific heads of government formed to accelerate progress and eliminate malaria in Asia Pacific by 2030
¢	Mission and Vision	 Drive implementation of the APLMA Leaders' Malaria Elimination Roadmap by benchmarking progress against priorities Coordinate regional action and brokering policy, technical and financing solutions to regional and national challenges Bolster effective country leadership to expedite elimination of malaria throughout the region by 2030
	Role	 Facilitate and convene high level engagement on the building blocks for malaria elimination APLMA Leaders' Malaria Elimination Roadmap prioritizes innovation, policy alignment and program coordination, regulatory collaboration, as well as financing and governance of the malaria response
ß	Tools	 Leaders' Dashboard: offers clear milestones for each of the Roadmap's six priority actions Technical Annex: offers a more complete picture of the malaria situation for each country based on World Malaria Report data





The Access Map will serve as an advocacy tool to highlight the importance of access as an important step in eliminating malaria

Challenges in Malaria Elimination

- The World Malaria Report 2018 reinforces that the **world is currently not on track** to reduce malaria deaths and disease by at least 40% by 2020
- Marginal improvement of coverage of key interventions to prevent and treat malaria (e.g. ITNs, antimalarials) since 2015
- 1 country (Sri Lanka) is malaria free in Asia-Pacific (AP), while 6 other AP countries are expected to eliminate malaria by 2020
- In the Greater Mekong Subregion (GMS);
 - Multiple artemisinin-based combination therapy failures
 - Outbreaks in hard to reach, border areas
 - Challenge with delivery of commodities to the last mile and mobile populations

Purpose of the Access Map

- 1 The Access Map promotes data collection, encourages data sharing and improves data quality
- To encourage projects and activities that will help generate data, which will enable the identification of coverage gaps down to the last mile

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The Access Map is an advocacy tool

 To elevate discussions on access to senior leadership, including and beyond healthcare officials, in order to obtain more commitment and resources to support better access to health services and commodities



The intended outcome of the Access Map is to improve the data available to measure coverage and monitor progress to malaria elimination





Project methodology involved a combination of core data analysis and qualitative stakeholder consultations

Collection of malaria	Analysis of data sets	³ Understanding of	4 Addressing data
related indices and		data limitations	gaps and
databases		and implications	uncertainties
 Identify all malaria related indices and databases based on: IQVIA internal public health expertise Secondary research 	 Download or extract related data set Understand data methodology Conduct secondary research on data collection methodology (often published) 	 Compare similar datasets (if available) to understand data limitations Develop data quality evaluation framework Evaluate all datasets for data quality and identify gaps and limitations 	 Publish data limitations as a part of the Access Map methodology for transparency Referencing the data gaps in the map, formulate a clear request for better data quality to country stakeholders Consider engaging with a malaria data expert for future iterations of the





Conceptualization of the Access Map identified 4 access determinants: Availability, Acceptability, Affordability and Accessibility



Availability

• Encourages the production of quality medicines at the level of pharmaceutical manufactures and facilitates the registration and distribution of these medicines to patients at the national level

Acceptability

 Supports the rational use of the appropriate quality commodities and promotes awareness of these within the community

Affordability

• Facilitates quality commodities and services that are affordable to patients

Accessibility

 Facilitates the availability of quality antimalarial commodities and services for all including hard-toreach and mobile migrant population



Access considerations

Commodities

• Are currently available commodities meeting population needs of even the most vulnerable?

Patient journey

- What geographies and demographics face the highest access issues?
- How far are patients to point of care?

Distribution channels

 How can information from each channel (e.g., public / private sectors, healthcare facilities, village malaria workers, etc.) be combined to provide a more comprehensive view?

Leadership

 How to elevate discussions on access as part of health systems strengthening, to senior officials





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Category		Parameter	Detailed description	Source	
	Vector	ITN / IRS coverage % of population at high risk potentially protected by ITN/IRS		WHO Country profile / APLMA Tech Annex	
		Suspected cases diagnosed	% suspected malaria cases tested with RDT or microscopy		
	DX	Stockouts of diagnostics	% of health facilities with no reported stock-outs lasting > 1 week of nationally recommended RDTs at any time during the past 3 months		
Product availability and		Stockouts of treatments	% of health facilities with no reported stock-outs lasting > 1 week of nationally recommended first line antimalarial drugs at any time during the past 3 months	Global Fund / RAI / UNOPS / National Malaria Program	
accessibility	reatment	Confirmed malaria cases received treatment	% of patients with confirmed malaria who received first-line antimalarial treatment according to national policy		
	Trea	New treatment product registration timeline	Score based on no. of days required to register new antimalarial treatment	APLMA, TGA (self reported)	
		Treatment guideline products registered % of treatment guideline products registered		Country drug authority, WHO, MMV, APMEN	
Quality monitoring		Formal mechanism for monitoring quality of malaria commodities	Formal mechanism in place to ensure quality of health commodities for the prevention, diagnosis and treatment of malaria and other priority diseases	APLMA Leaders' Dashboard	
Geographical accessibility		Population near point of care	Existence of published geo-location of health facilities	Primary interviews	
		Suspected cases treated in a timely manner	% of cases treated within 24 hours	APMEN	
General health system		Access to quality healthcare	Healthcare Access and Quality Index	Global Burden of Disease (Lancet)	
		Facilities with essential medicines	% of health facilities with 14 essential medicines available on the day of the visit	WHO	







Project methodology involved a combination of core data analysis and qualitative stakeholder consultations

Category			Country scores				
		Detailed description			🔂 ММ	🔵 тн	VN
	Vector	% of population at high risk potentially protected by ITN/IRS	100%	82%	100%	100%	84%
	CS	% suspected malaria cases tested with RDT or microscopy	100%	100%	100%	100%	100%
Product availability	Diagnostics	% of health facilities with no reported stock-outs lasting > 1 week of nationally recommended RDTs at any time during the past 3 months					
and accessibility	Treatment	% of health facilities with no reported stock-outs lasting > 1 week of nationally recommended first line antimalarial drugs at any time during the past 3 months					
		% of patients with confirmed malaria who received first-line antimalarial treatment according to national policy					
	Tre	No. of days required to register new antimalarial treatment	365	365	365	220	912
		% of treatment guideline products registered	100%	83%	100%	100%	88%
Quality monitoring		Formal mechanism in place to ensure quality of health commodities for the prevention, diagnosis and treatment of malaria and other priority diseases	Y		Y	Y	Y
Geographical accessibility		Existence of published geo-location of health facilities	Y	N	N	Y	N
		% of cases treated within 24 hours		N/A	46%	26%	N/A
General healt	h	Healthcare Access and Quality Index	41	37	43	68	58
system		% of health facilities with 14 essential medicines available on the day of the visit					





The data fit framework helped in the evaluation of data quality and corresponding limitations

Data fit evaluation criteria

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Availability of data across the 5 inscope countries



Presence of data validation



Consistency of data across years

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Comparability of methodology across countries



Sub-national level coverage



Description

- Favors data points that cover more countries in-scope
- Favors data points that have gone through data validation and proper audit process
- Favors data points that fluctuate less across recent years to reflect the trend in completeness of reporting
- Favors data points that are collected using the same method across in-scope countries to ensure comparability
- Favors data points that provide data at sub-national level due to their granularity
- Favors data points that are updated frequently to ensure relevance of data





Various stakeholders in the malaria ecosystem were consulted in the iterative development of the Access Map

Stakeholder Consultation

- Leading academics at institutions based or active in the region
- Individuals with senior roles in NGOs / charities covering the GMS, especially those responsible for managing programs or tracking program KPIs
- Individuals in government bodies with responsibilities in managing domestic antimalarial programs



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Going forward, we can leverage additional sources of data to further develop the Access Map and expand the current geographical reach

Current data sources

Data from current data sources tend to be manually curated. It is unstructured and sits in different platforms

Sample data sources:



Routine surveillance



Demographic surveillance



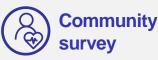
Review of documents



Lab / biomarkers data

Health facility

surveys



Future data sources

Data from the future will be digitally generated and automatically collected and uploaded into a platform agnostic database, allowing the user to access the data anywhere, anytime

Sample data sources:



Survey data (mobile)







Drone data



Electronic medical and health records

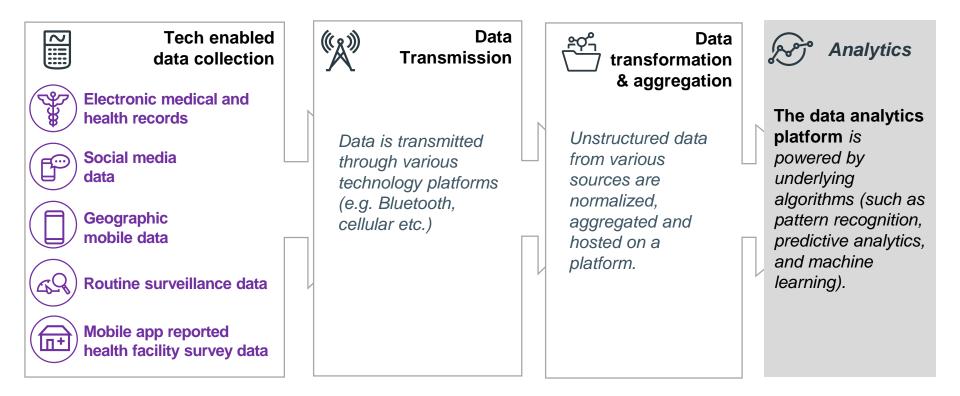


Business intelligence data





In the future, technology that enables connected health can facilitate seamless collection, integration and analysis of data



Examples of end user applications

- Reporting and scorecards for programmatic or health systems M&E
- > Asset management and mobilization for routine services delivery and ad hoc campaigns
- Inventory and stockout management to optimize end-to-end supply chain visibility
- Population health analysis





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