



From the Data Black Hole to the Big Bang: Monitoring Anti-malarial markets in the context of Malaria Elimination and Case Management Strategies in Cambodia

Lorina McAdam, PSK & the ACTwatch Group

20th September, 2016

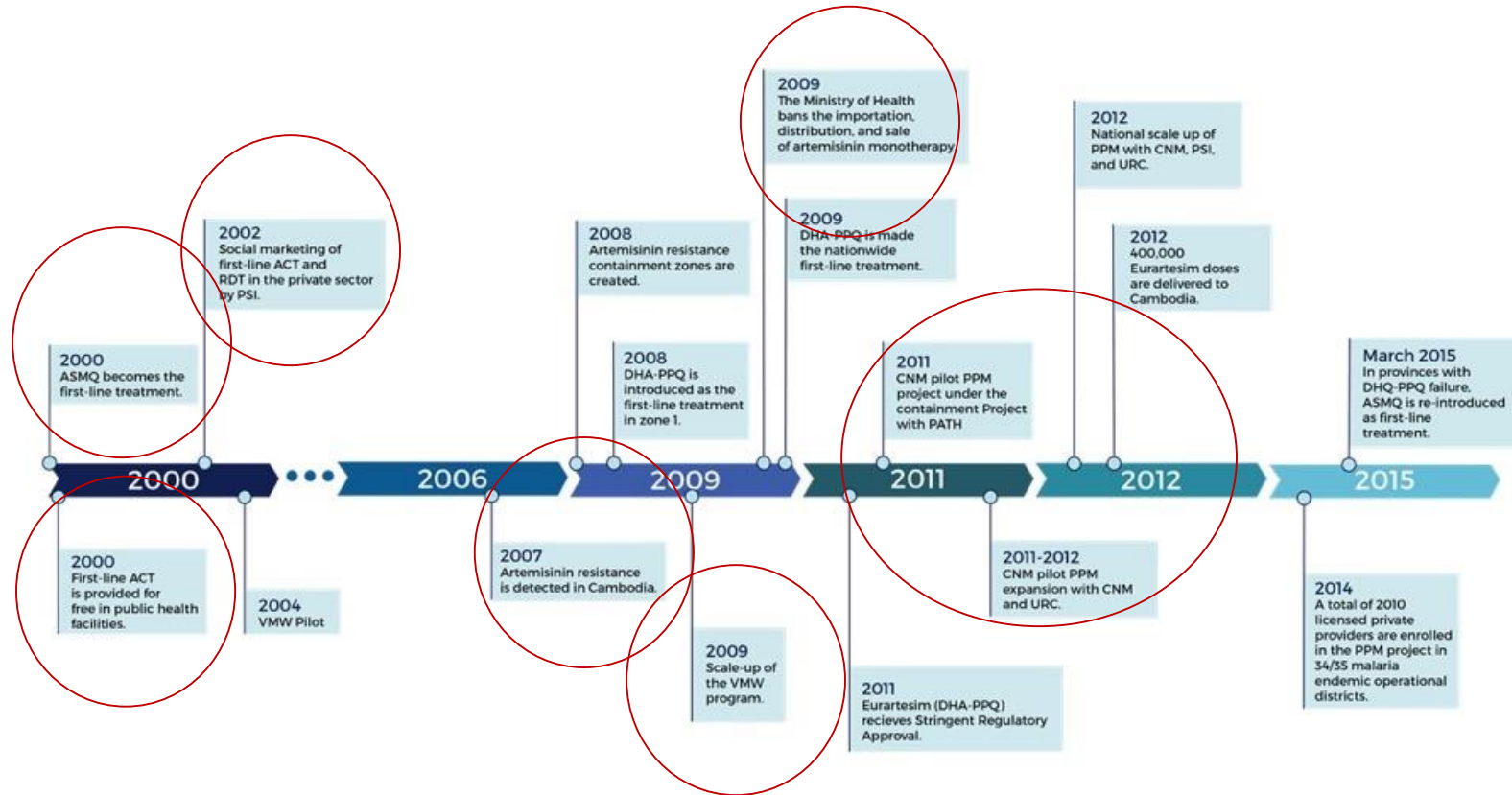
International Congress of Tropical Medicine and Malaria
Brisbane, Australia



A young boy with dark hair, wearing a brown jacket, is standing in a forest. He is pouring water from a small, light-colored bucket into a large, white, cylindrical container that has some dark marks on it. The ground is covered with dry, brown leaves. The background is a dense forest with many thin, vertical tree trunks. A semi-transparent orange banner is overlaid across the middle of the image, containing the word "Background" in white text.

Background

Timeline of events 2000-2015





ACTwatch is a research project implemented by PSI and Ministries of Health in 12 countries

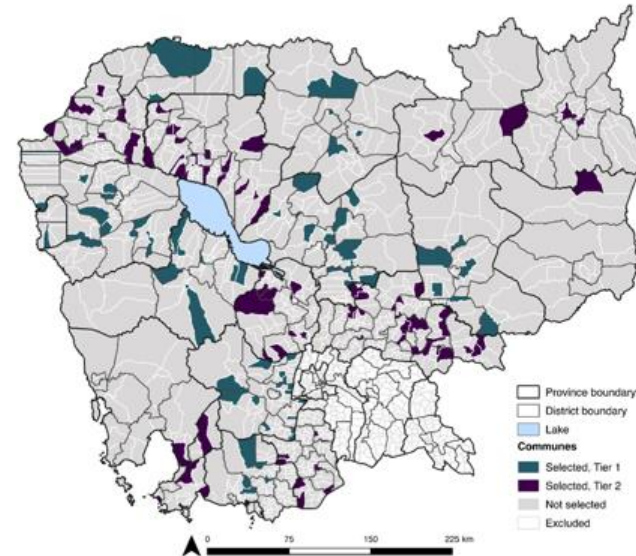
- ~50 **outlet surveys** conducted between 2008-2016
- Outlet surveys measure **availability, price, & market share** in the public & private sectors for malaria medicines & diagnostics

A photograph of three people walking away from the camera on a dirt road. The person on the left is wearing a yellow shirt and dark pants. The person in the middle is wearing a dark shirt and dark pants. The person on the right is wearing a light-colored jacket and shorts. The background is a hazy, open landscape with some distant structures. An orange semi-transparent band is overlaid across the middle of the image, containing the word "Methods" in white text.

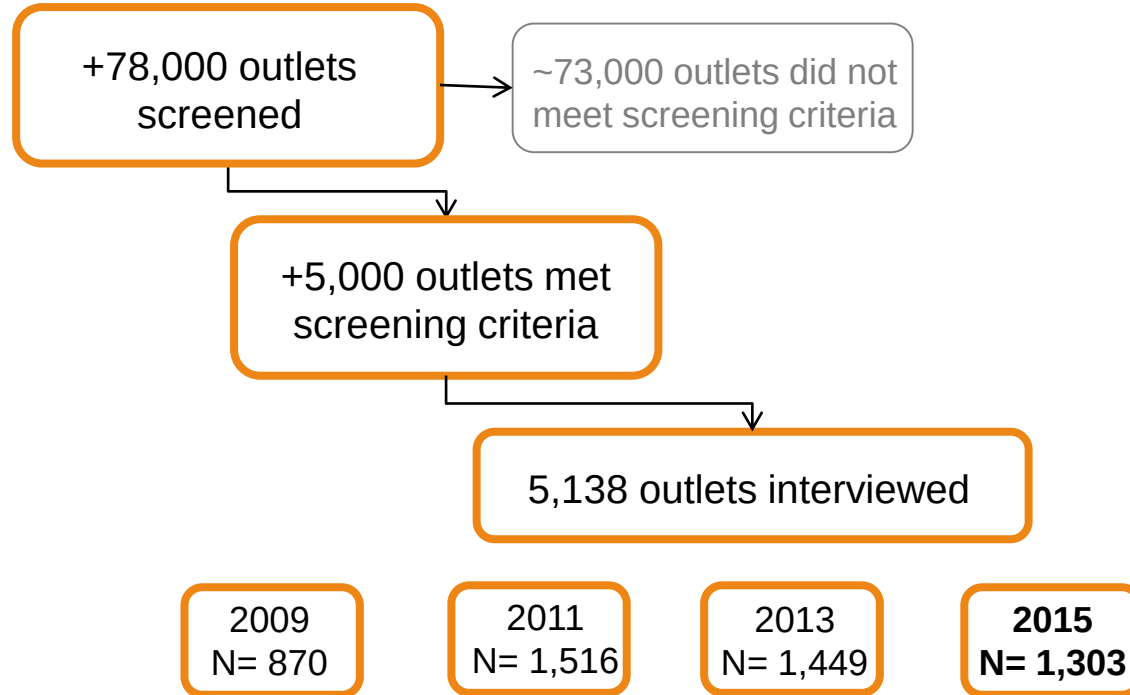
Methods

Methods

- 1) Selection of communes
- 2) Census of public and private sector outlets
- 3) Inclusion Criteria
 - Outlets with antimalarials or with malaria blood testing
 - Outlets that stocked an antimalarial in the past three months
- 4) Eligible outlets
 - Antimalarial and RDT audit
 - Provider questionnaire



Survey sample: 2009-2015

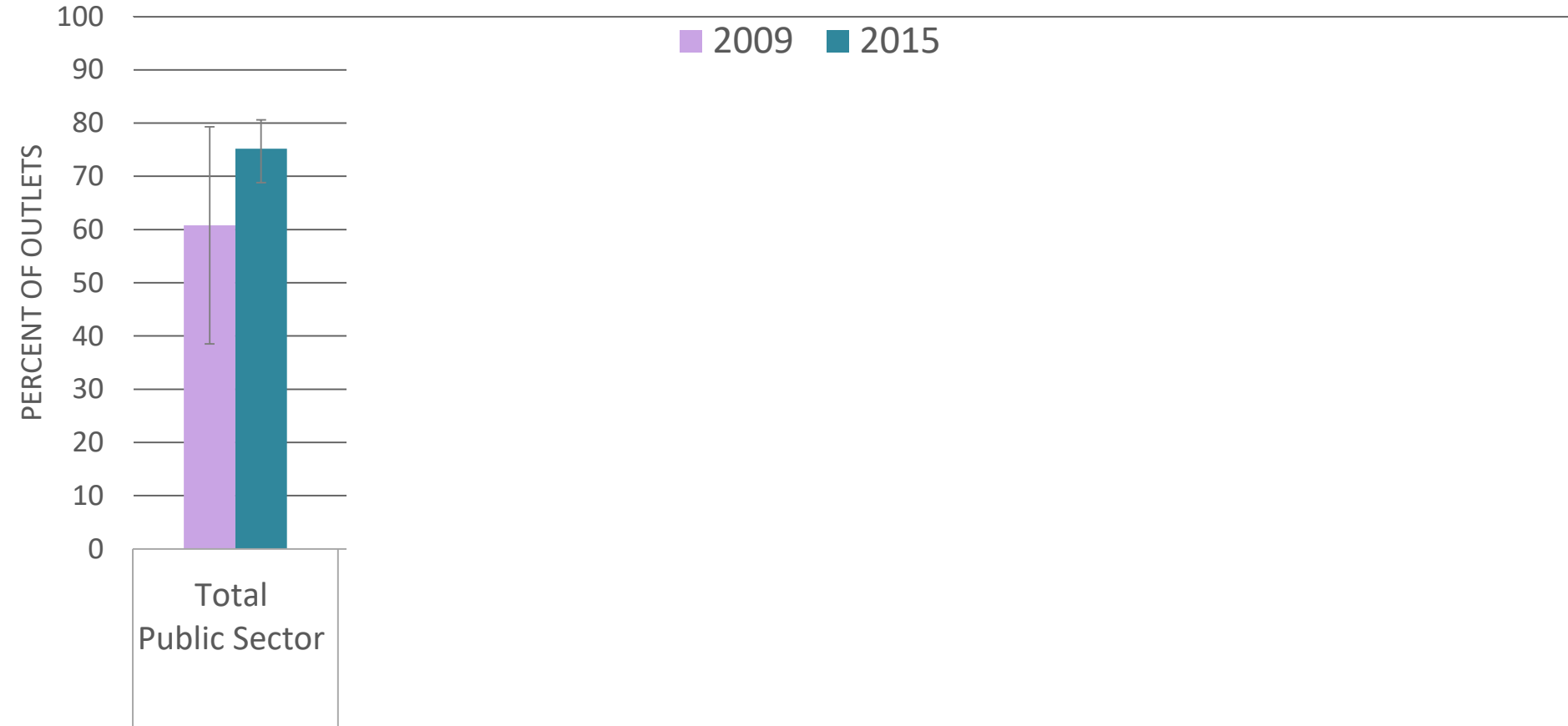




Results

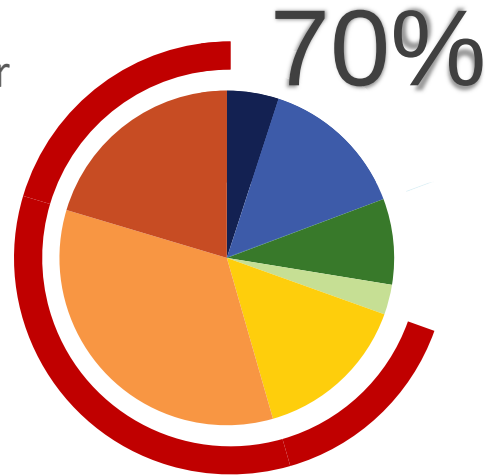
ប្រឹក្សាភិបាល
ក្រុមហ៊ុន
ស្រូវសាលា
ក្រសួងកសិកម្ម
រុក្ខាប្រមាញ់
និងនេសាទ

How has antimalarial **availability** changed over time?



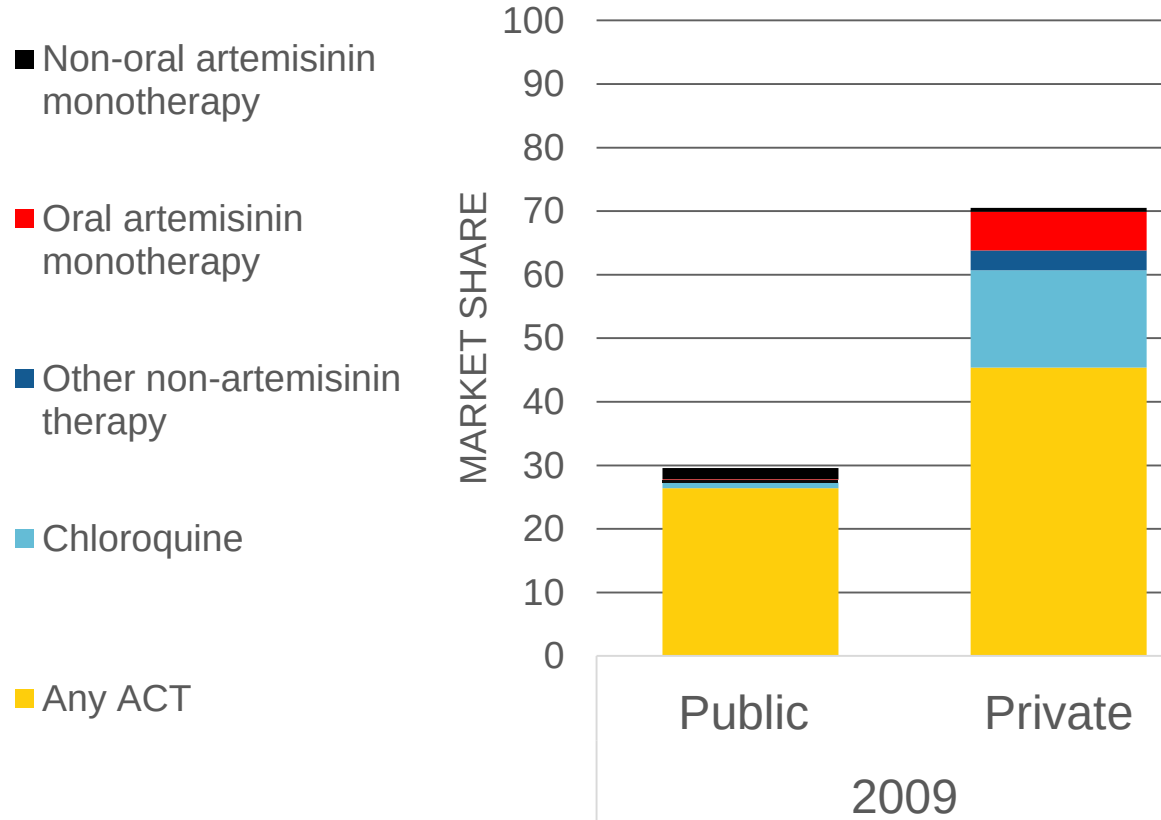
How has antimalarial market composition changed over time?

- Public Health Facility
- Village Malaria Worker
- Health Facility
- Pharmacy
- Drug Store
- General Retailer
- Itinerant Drug Vendor

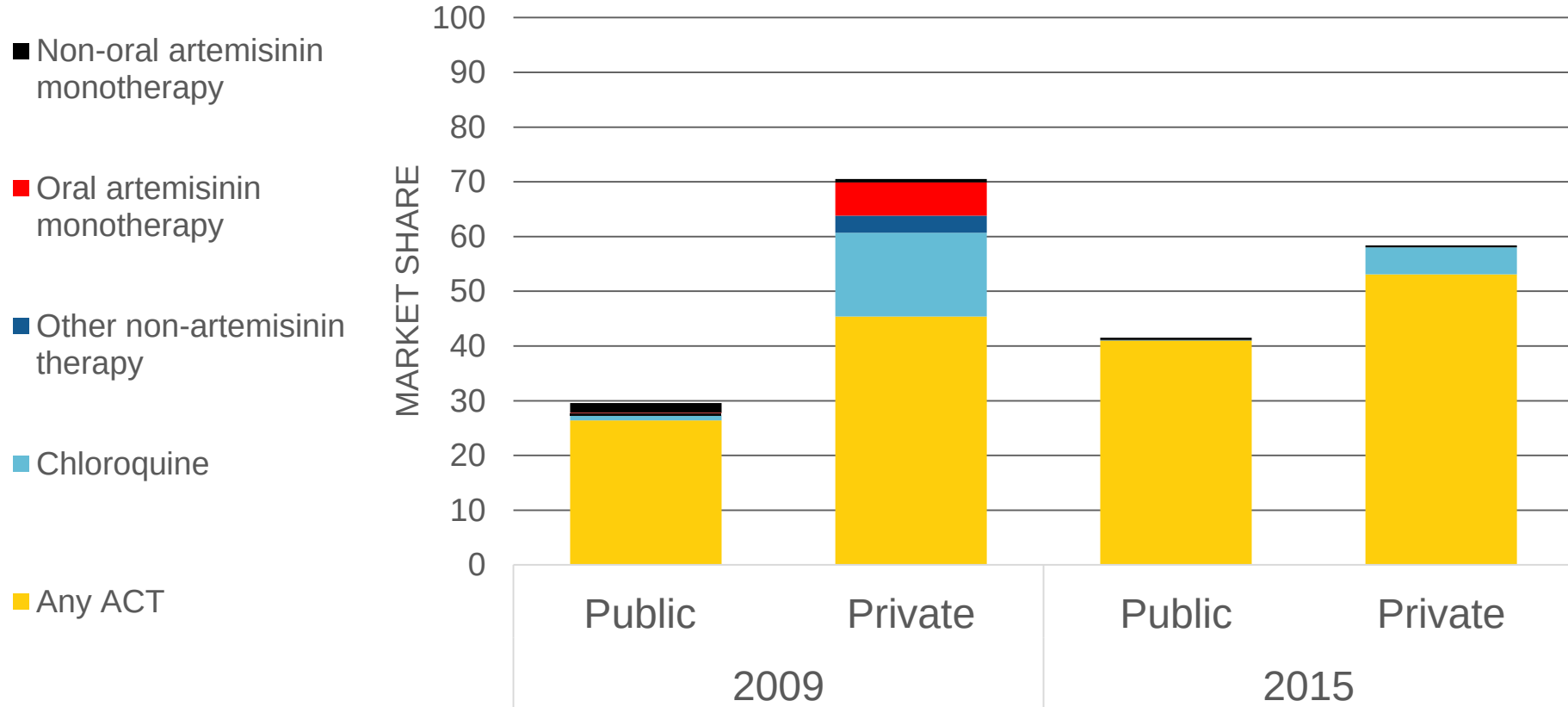


2009
N=652

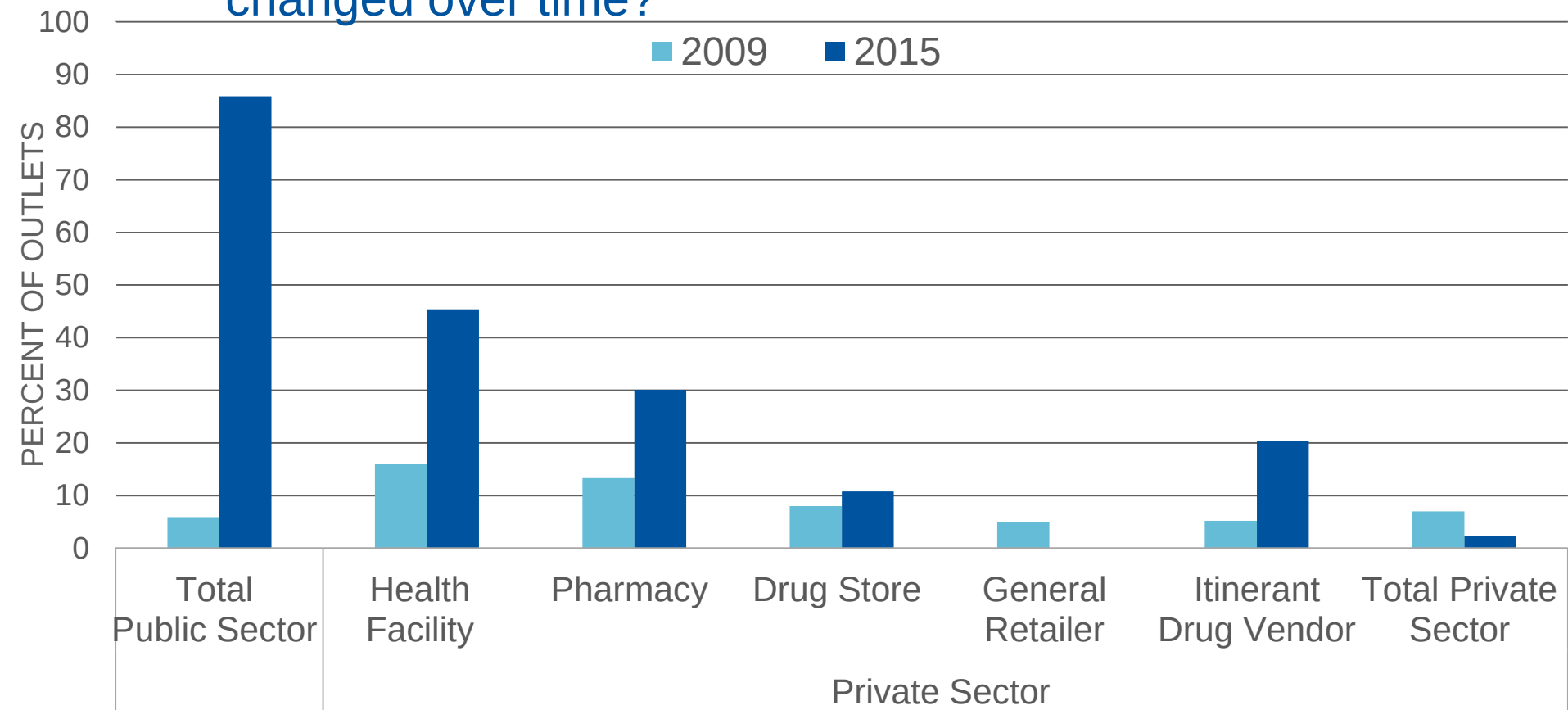
How has antimalarial **market share** changed over time?



How has antimalarial **market share** changed over time?



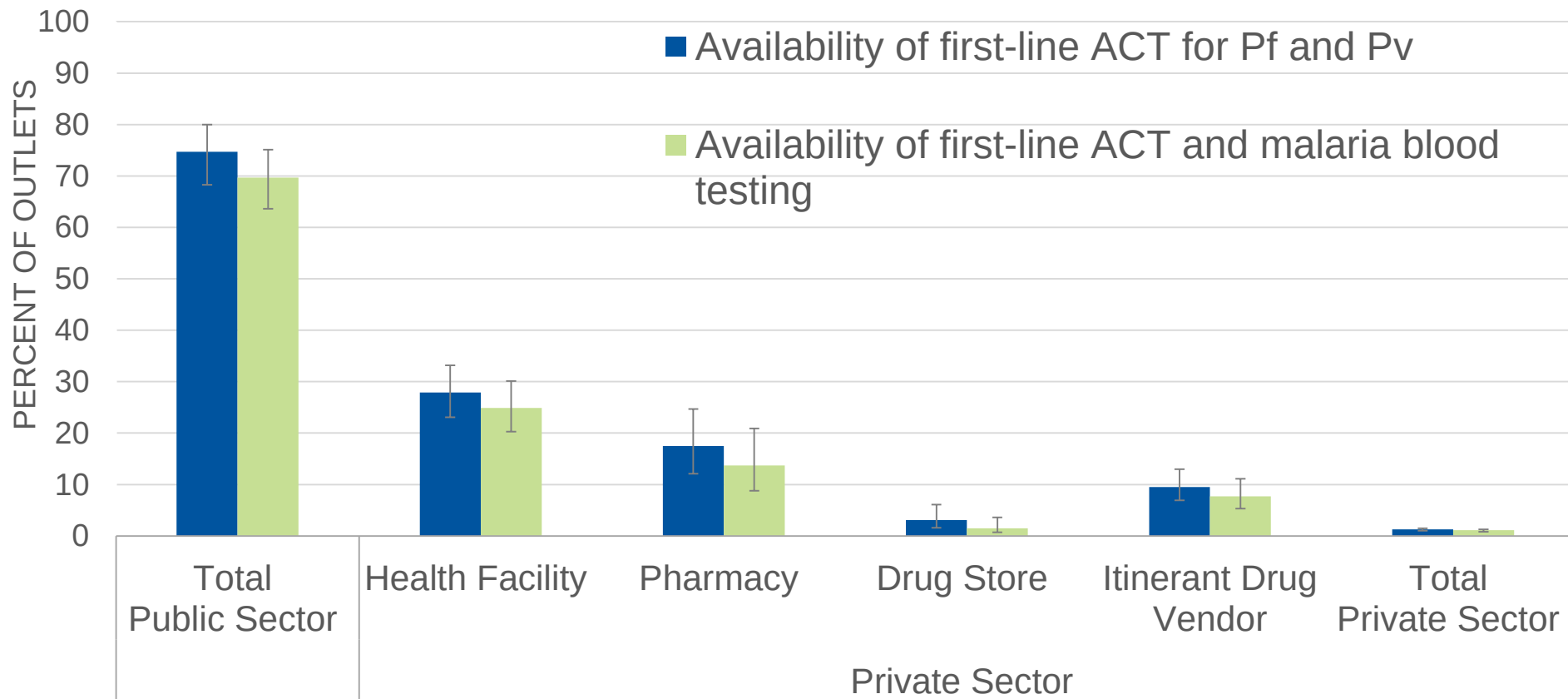
How has malaria diagnostic testing availability changed over time?



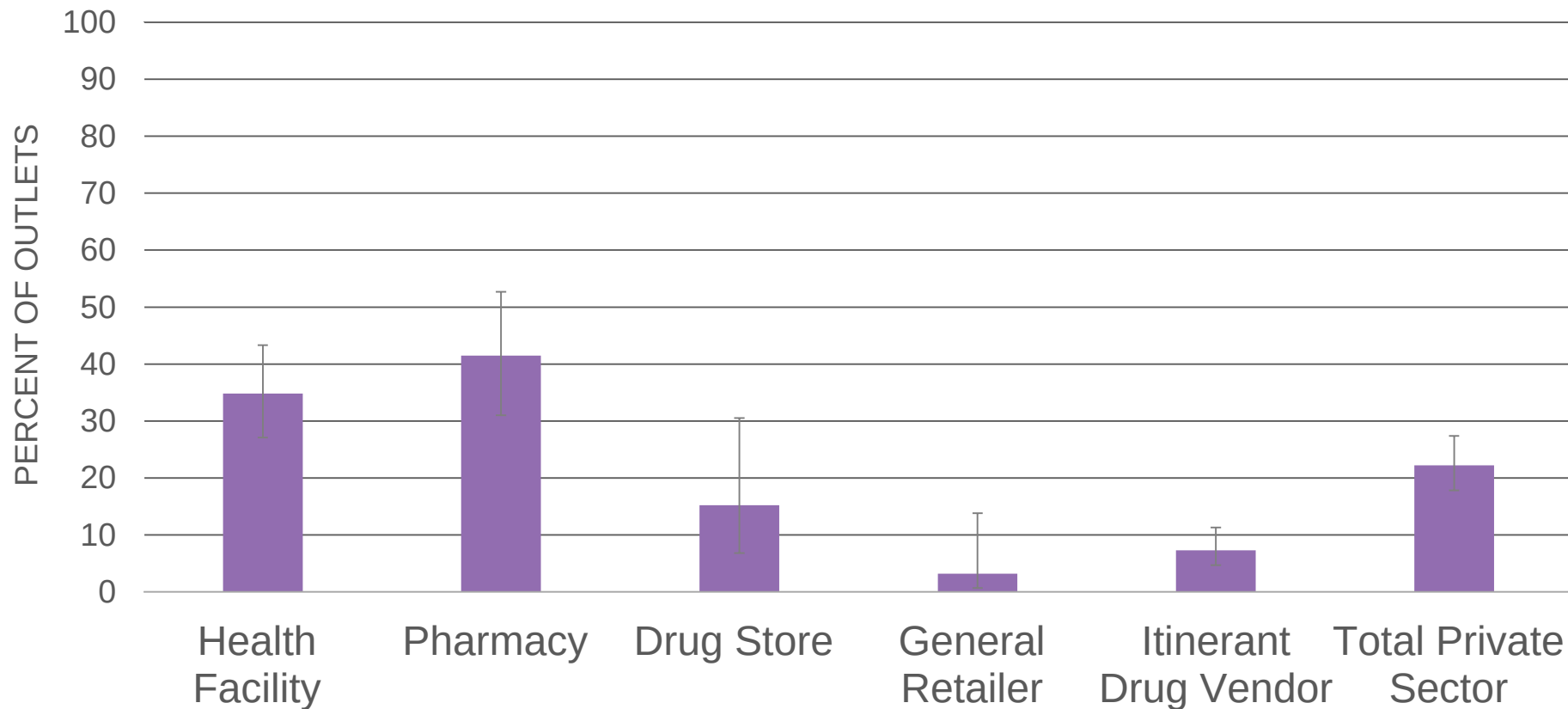
Eye on the private sector in 2015



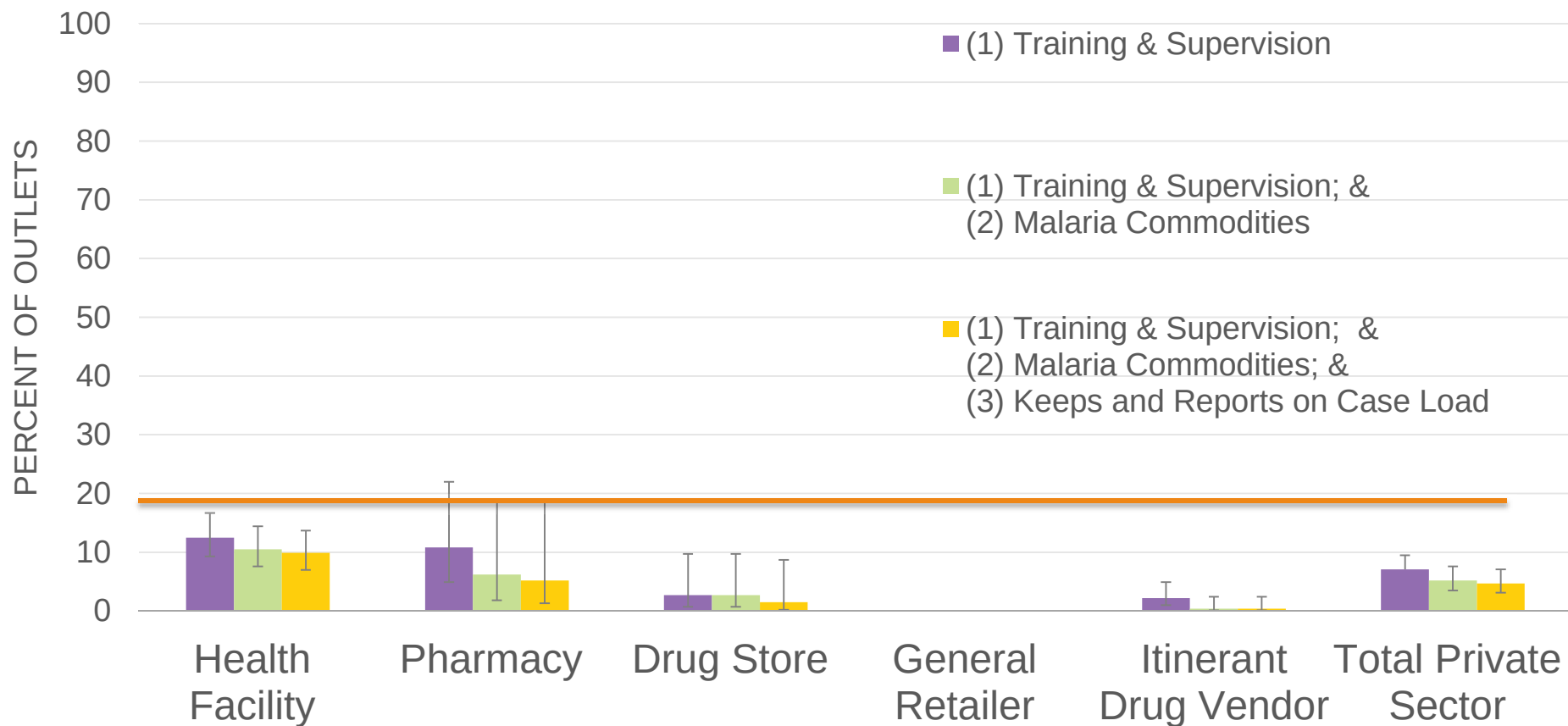
Public and Private Sector Readiness: 2015



Private sector: training on national guidelines

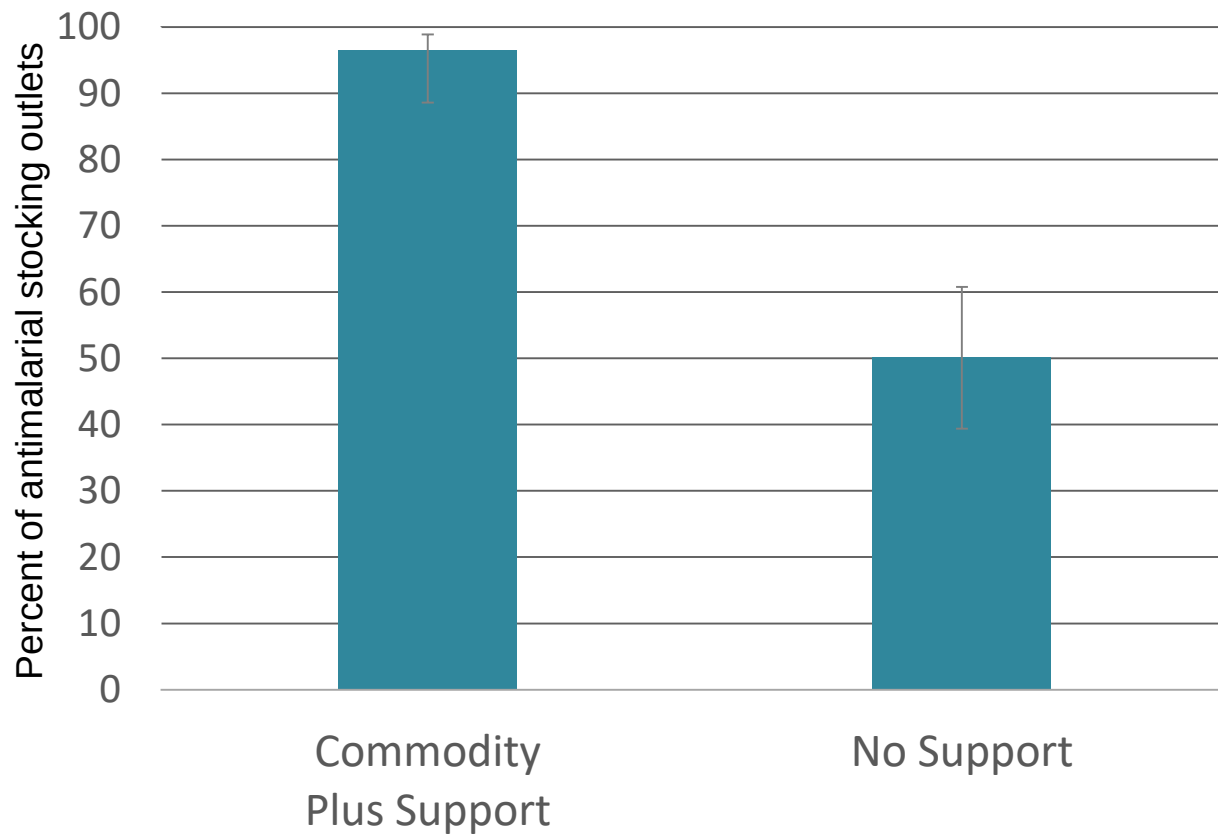


Private sector training, supervision, commodities & caseload reporting



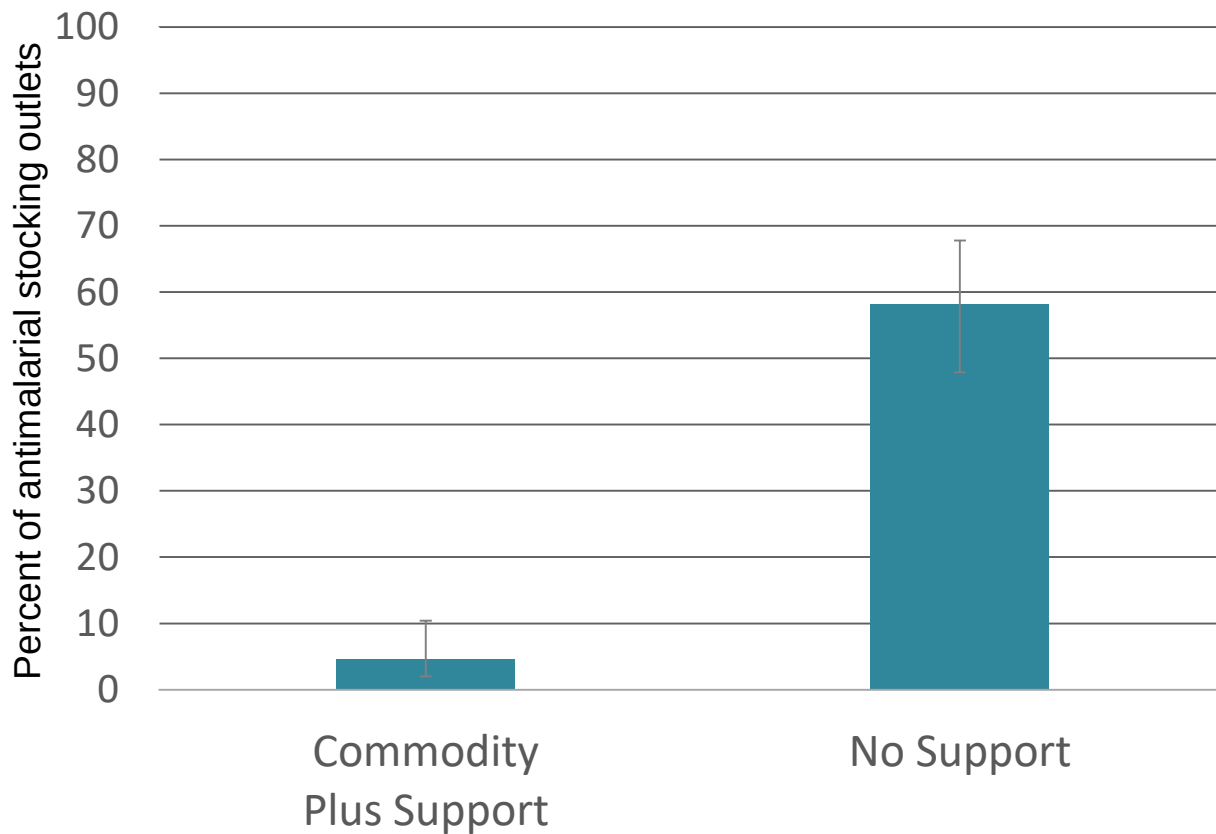
Availability of first-line ACT in the private sector, 2015

'Support' =
Malaria commodities
+/-or training, +/-or
supervision,
+/-or reporting malaria
case load data



Availability of treatment not on national guidelines in the private sector, 2015

'Support' =
Malaria commodities
+ /or training, = /or
supervision,
+ /or reporting malaria
case load data





How are we taking results forward?

GEMS | GMS Elimination of Malaria through Surveillance

Bill & Melinda
Gates Foundation

2016
2019

▪ Cambodia ▪ Myanmar
▪ Laos ▪ Vietnam



Increased coverage of
private sector engagement
for malaria **testing,**
treatment and **reporting**
according to national policies
in target areas of **Cambodia,**
Lao PDR, Myanmar and
Vietnam

1

MAPPING | Private health outlets & at-risk worksites

- 1 **Worksites: plantations, mines, dams**
GPS, size, health services, worker flows



- 2 **Private Health Outlets - PPM**
GPS, stock on hand, testing services, treatment provided, patient flow



2

SERVICES | Set up and Expansion

Worksites



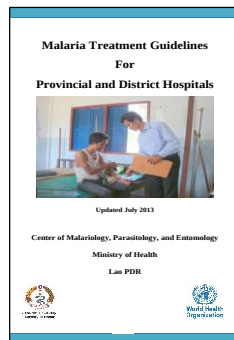
Private Health Outlets



- Testing (integrated health services)
- Treatment/referral
- Reporting
- Education
- Research

3

QUALITY ASSURANCE | Training, support & supervision



4

SUPPLY | Quality-assured RDTs and ACTs



5

CASE SURVEILLANCE | Routine reporting systems



Consolidate



Simplify



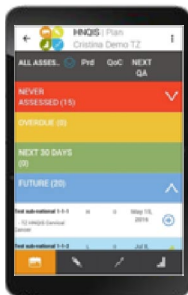
**Move to
electronic**



**+ Molecular
Surveillance**

6

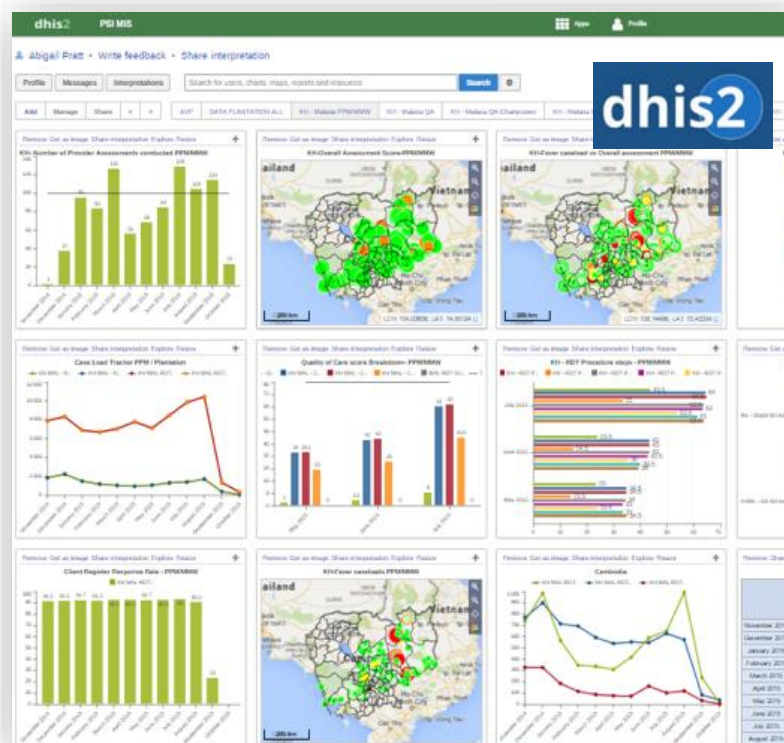
DATA ANALYSIS | Dashboards for decision-making



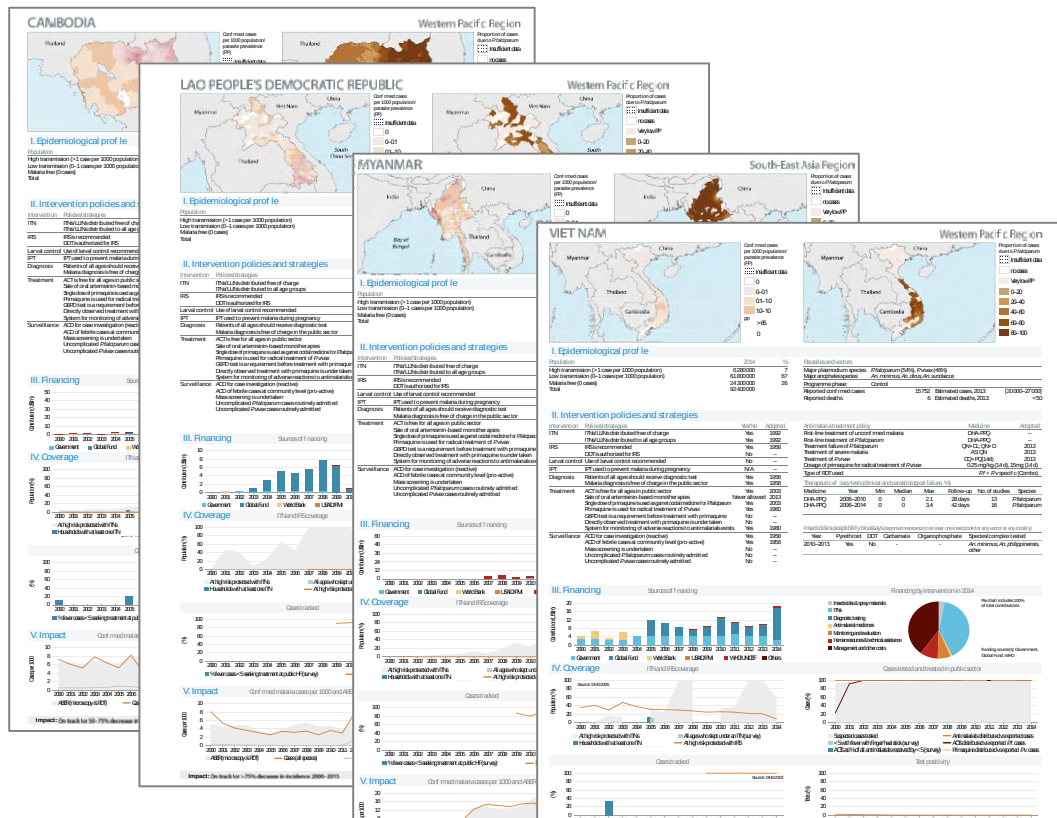
Quality Assurance App



Malaria Case Surveillance App



EVIDENCE | Reporting and documentation





Thank you

Lorina McAdam

lmcadam@psi.org

info@actwatch.info

www.actwatch.info



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