

# SLMTA/SLIPTA Symposium 2014

November 28-29, 2014  
Cape Town, South Africa

A satellite meeting to the ASLM2014 Conference

## SLMTA Updates



**Katy Yao, Ph.D.**  
**SLMTA Global Program Director**  
US Centers for Disease Control and Prevention

# SLMTA/SLIPTA Symposium 2014

November 28-29, 2014  
Cape Town, South Africa

A satellite meeting to the ASLM2014 Conference

## Question 1

As of December 2013,  
how many *countries* have implemented SLMTA?

- A. 25
- B. 39
- ✓ C. 47
- D. 53

# SLMTA/SLIPTA Symposium 2014

November 28-29, 2014  
Cape Town, South Africa

A satellite meeting to the ASLM2014 Conference

## Question 2

As of December 2013,  
how many *laboratories* have implemented SLMTA?

- A. 501
- ✓ B. 617
- C. 704
- D. 952

# SLMTA/SLIPTA Symposium 2014

November 28-29, 2014  
Cape Town, South Africa

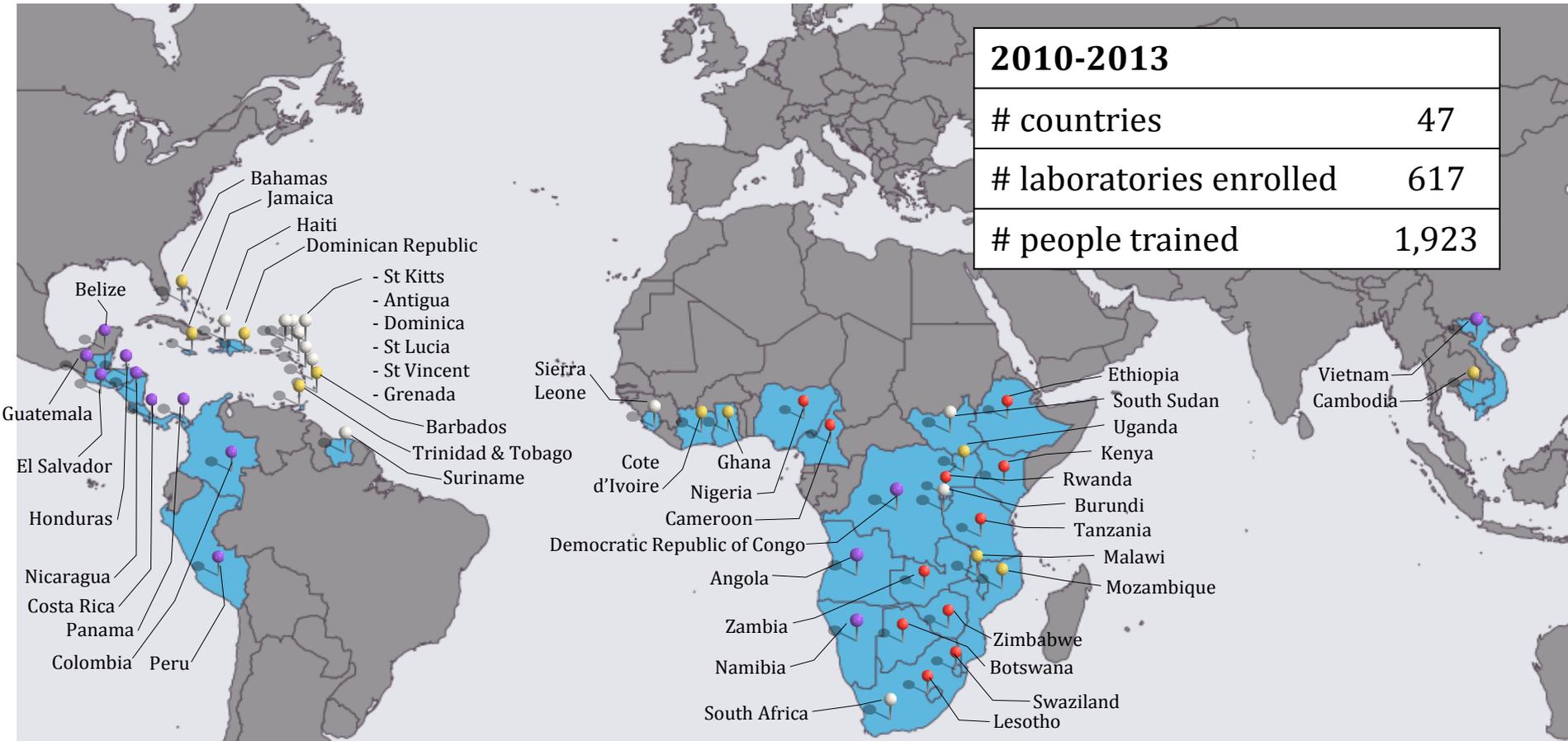
A satellite meeting to the ASLM2014 Conference

## Question 3

As of December 2013,  
how many *people* have been trained in SLMTA?

- A. 906
- B. 1,234
- C. 1,507
- ✓ D. 1,923

# Spread of the SLMTA Program



Year when SLMTA was initiated:  2010  2011  2012  2013

# SLMTA/SLIPTA Symposium 2014

November 28-29, 2014  
Cape Town, South Africa

A satellite meeting to the ASLM2014 Conference

## Question

What is the average of the *baseline* SLIPTA score (%) for all the SLMTA-enrolled laboratories (n=617)?

- A. 39%
- B. 49%
- C. 59%
- D. 69%

# SLMTA/SLIPTA Symposium 2014

November 28-29, 2014  
Cape Town, South Africa

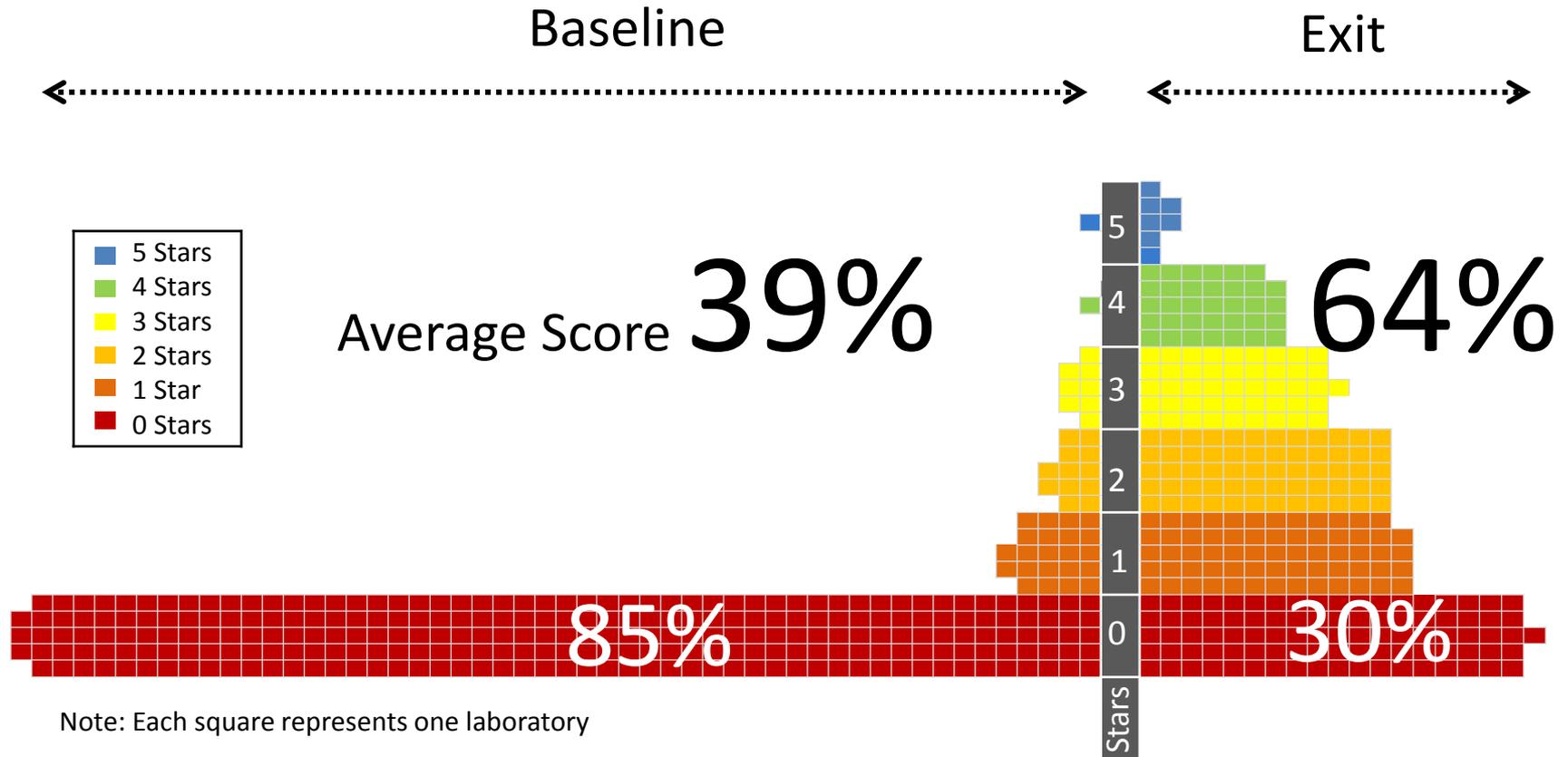
A satellite meeting to the ASLM2014 Conference

## Question 5

What is the average *improvement* from *baseline to exit audit score* for all the laboratories that have completed SLMTA (n=302)?

- A. 15 percentage points
- ✓ B. 25 percentage points
- C. 35 percentage points
- D. 45 percentage points

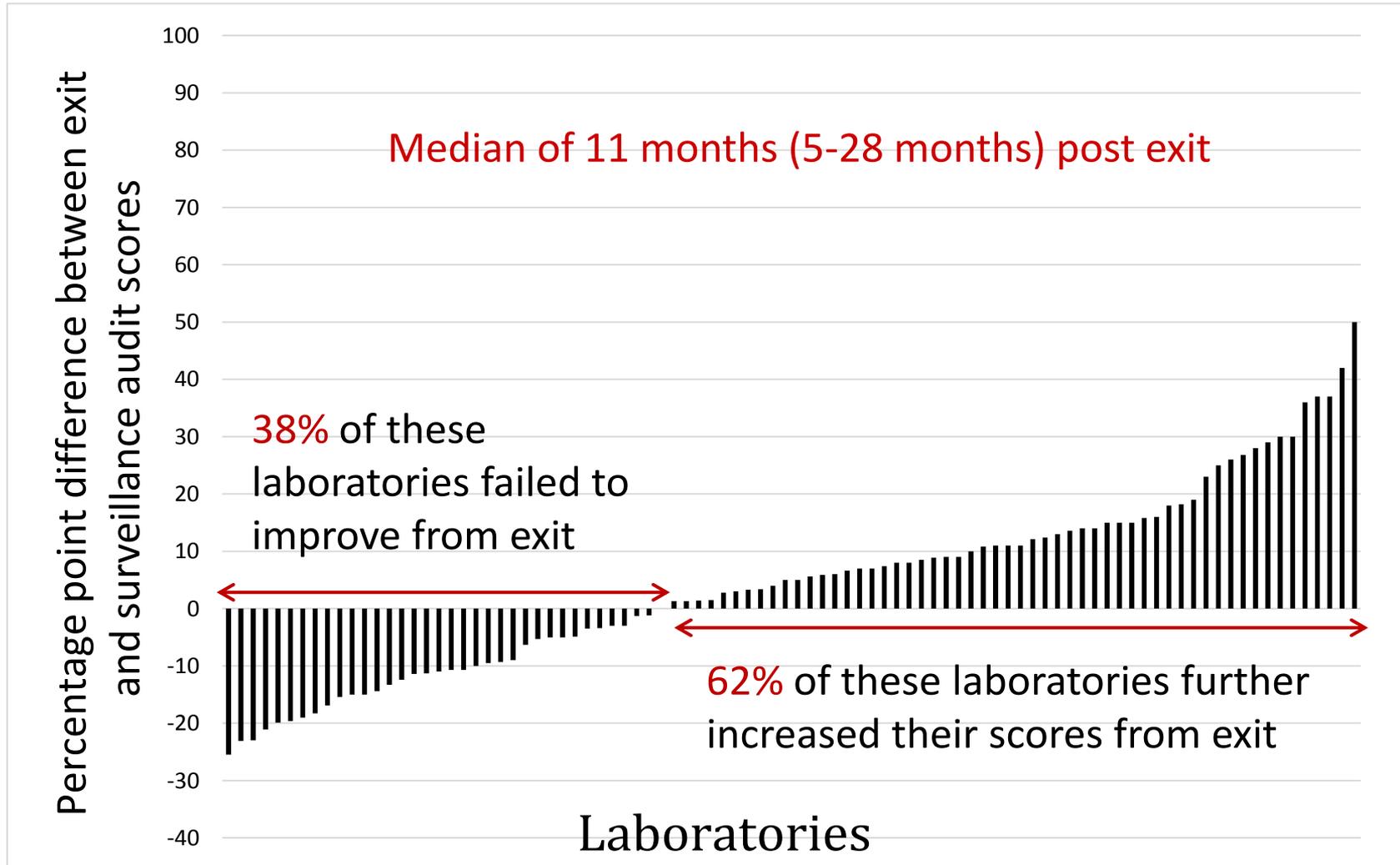
# Baseline vs. Exit Audit Results (n=302)



Note: Each square represents one laboratory

Average Implementation Time = **16** months

# Post-SLMTA Surveillance Audit (n=92)



# SLMTA/SLIPTA Symposium 2014

November 28-29, 2014  
Cape Town, South Africa

A satellite meeting to the ASLM2014 Conference

## Question 6

To date, how many SLMTA-enrolled laboratories have achieved international accreditation?

- A. 5
- B. 6
- C. 7
- D. 8

# From SLMTA to International Accreditation

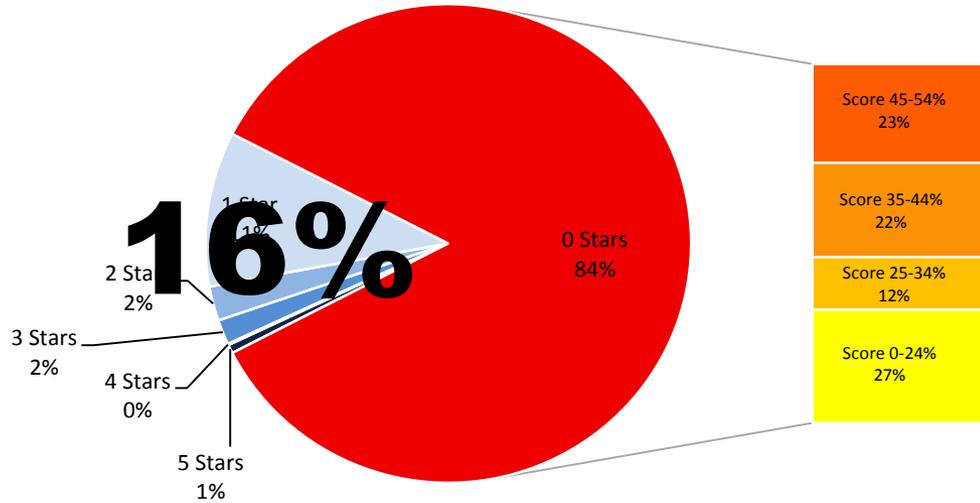
	Laboratory Name	Type of Laboratory	Time from SLMTA enrollment to accreditation	Baseline Score
✓	1. HIV National Reference Laboratory, Kenya	National	35 months	45%
	2. KEMRI/CDC TB Laboratory, Kenya	National	17 months	75%
	3. HIV National Reference Laboratory, Bahamas	National	28 months	38%
	4. Hai Duong Prevention Medicine Center, Vietnam	Regional/ Provincial	19 months	29%
✓	5. Cimas Harare Medical Laboratory, Zimbabwe	Private	54 months	34%
✓	6. Bungoma District Hospital Laboratory, Kenya	District	43 months	38%
✓	7. Nyangabgwe Referral Hospital Laboratory, Botswana	Regional/ Provincial	35 months	75%

**Median**

**35 months**

**38%**

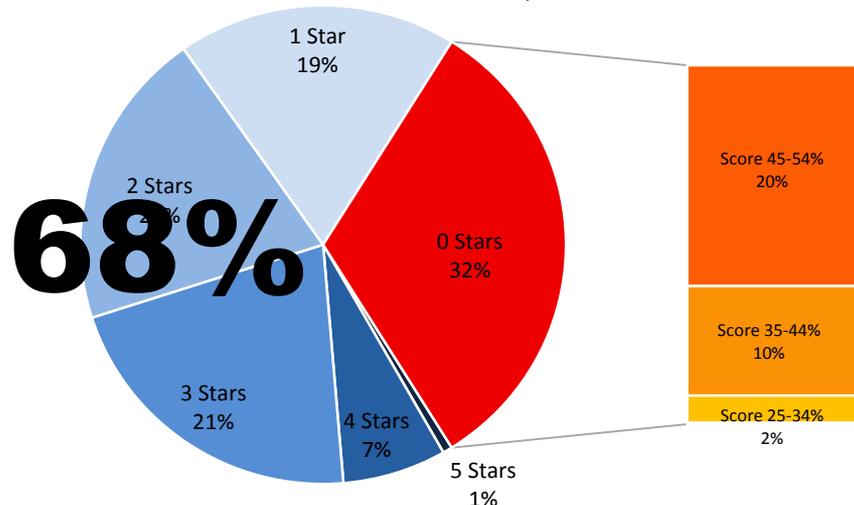
# Estimated proportion of 43.5 million laboratory tests performed by star level before and after SLMTA implementation (n=302)



## Before SLMTA

16% of tests done in laboratories with at least 1 star

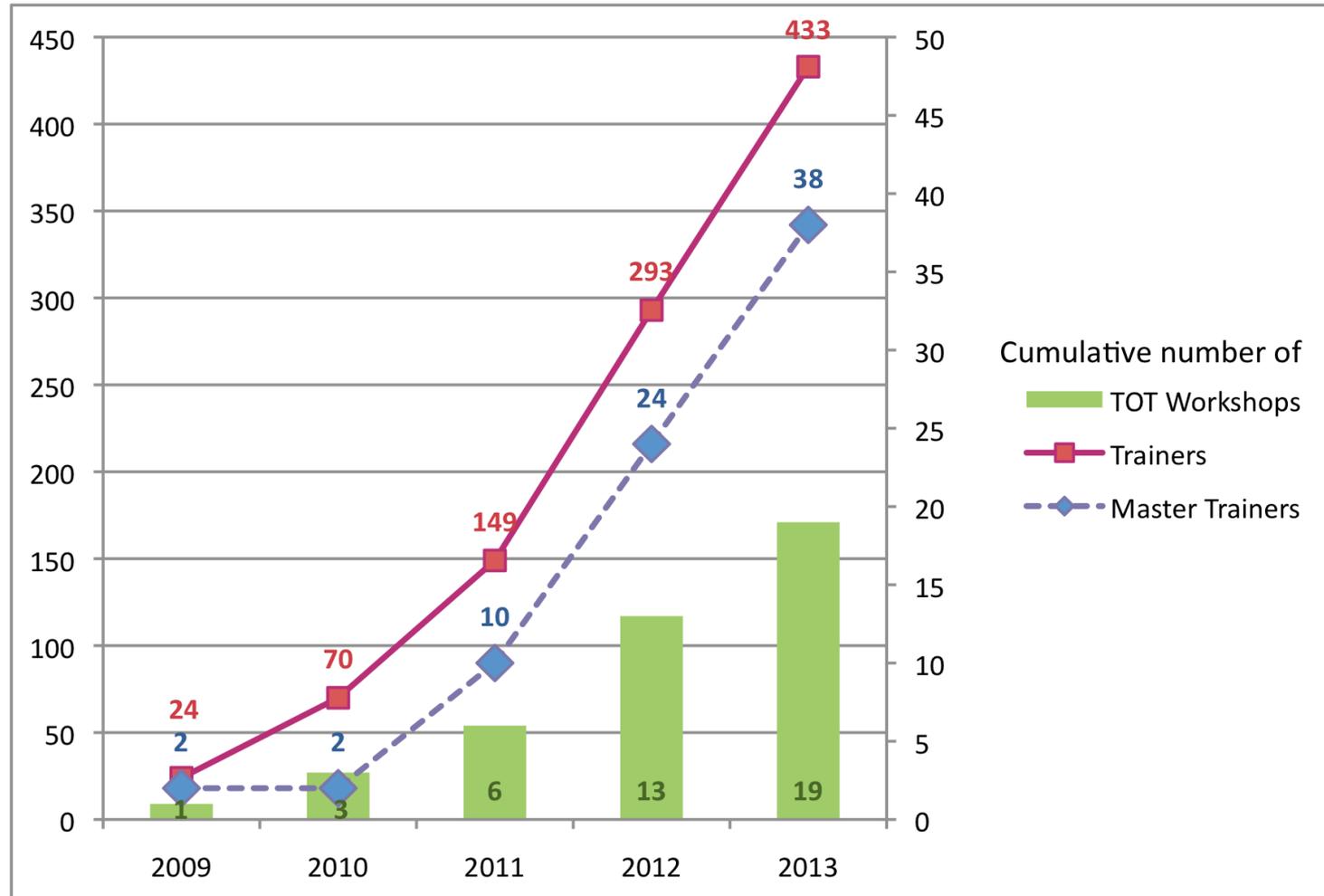
**23 million tests were done by labs  
0 stars before → 1 or ↑ stars**



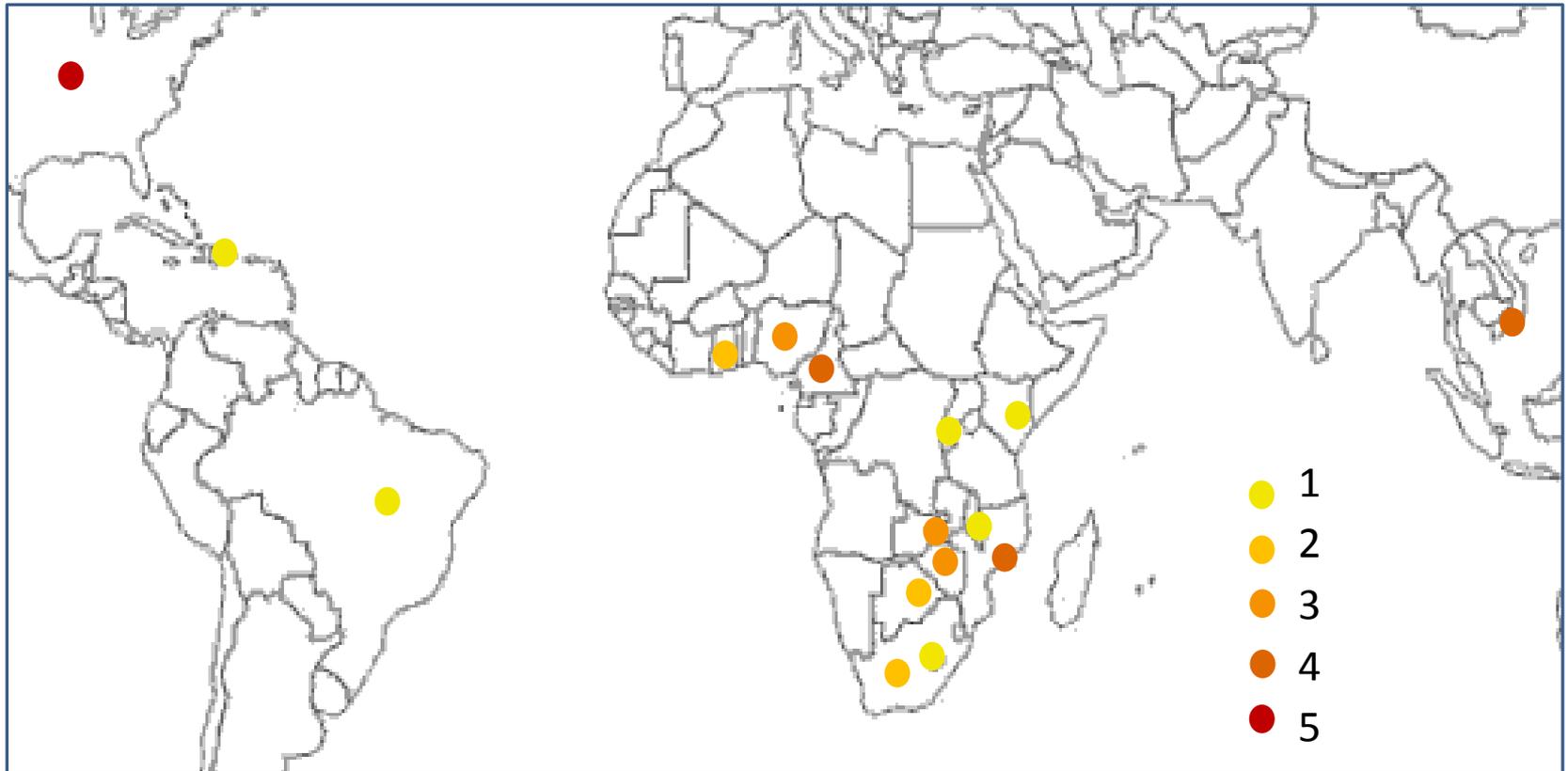
## After SLMTA

68% of tests done in laboratories with at least 1 star

# Cumulative Number of SLMTA Trainers, Master Trainers, and TOTs (2009-2013)

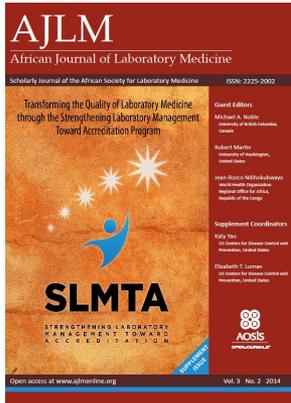


# Geographic Distribution of the 38 master trainers



**97%** of the TOT graduates and **87%** of the master trainers are based in developing countries across Africa, Southeast Asia, and Latin America

# AJLM's Special Supplement on SLMTA



Page 1 of 11

Original Research

## Evidence from 617 laboratories in 47 countries for SLMTA-driven improvement in quality management systems

### Authors:

Katy Yao<sup>1</sup>  
Elizabeth T. Luman<sup>1</sup>

**Background:** The Strengthening Laboratory Management Toward Accreditation (SLMTA) programme is a large-scale effort to improve the quality of laboratories in resource-limited countries.

Page 1 of 7

Lessons from the Field

## Training-of-trainers: A strategy to build country capacity for SLMTA expansion and sustainability

### Authors:

Talkmore Maruta<sup>1</sup>  
Katy Yao<sup>2</sup>

**Background:** The Strengthening Laboratory Management Toward Accreditation (SLMTA) programme uses a training-of-trainers (TOT) model to build capacity for programme scale-up. The TOT strategy is designed to maximise utilisation of its graduates whilst minimising

# AJLM's Special Supplement on SLMTA



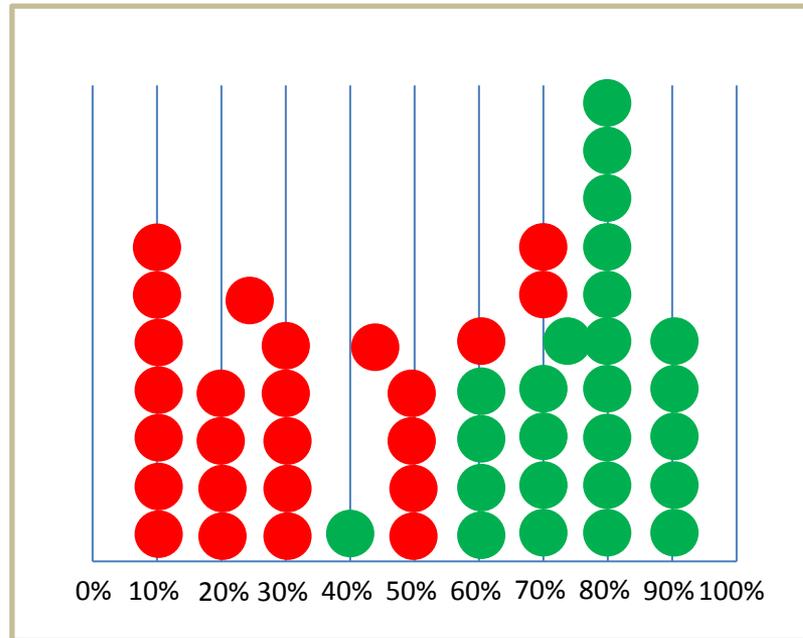
- 15 months of labor
- Authors from 12 countries
- 28 papers, including:
  - Global perspectives
  - Country and regional rollout
  - Implementation in a single lab
  - Mentorship
  - Special studies

# Quantitative Quality Control Workshop



Anna Murphy's personal mission to bridge the "*QC divide*" in the developing world

# Quantitative Quality Control Workshop



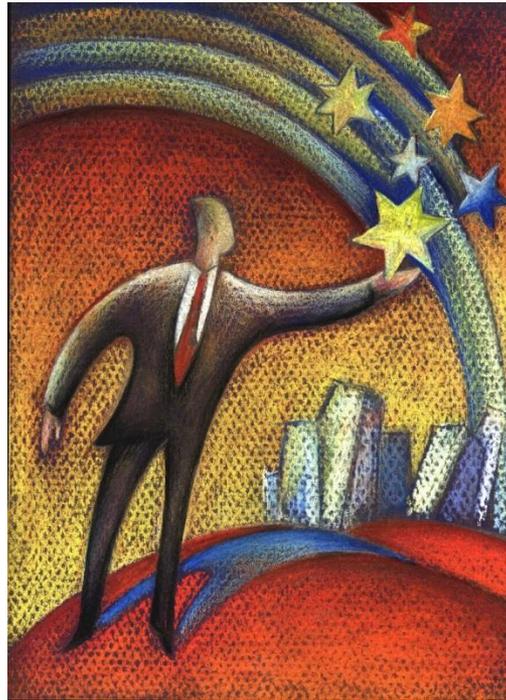
N=25

- – (Day 1) estimated level of QC knowledge prior to taking this course
- – (Day 7) estimated level of QC knowledge prior to taking this course

	Day 1 ●	Day 7 ●
Median	80%	30%

# SLMTA 2: Breakthrough Curriculum

## Race to the Top - 5 Stars



Two workshops in 2015

- April 13-24
- October 19-30

# Thinking Outside of the “PEPFAR Piggy Banks”



Panama Canal, Panama

## **Panama's Central Reference Laboratory**

- Implemented SLMTA in 2012 showing great results
- Convinced top management to support their pursuit of ISO15189 accreditation
- Wrote a proposal to the national system of public investment (by Ministry of Economy and Finance) requesting \$800,000 for the next 5 years
- Received \$190,000 USD for year 1

# SLMTA/SLIPTA Symposium 2014

November 28-29, 2014  
Cape Town, South Africa

A satellite meeting to the ASLM2014 Conference



Thank you

---