



Institute for  
Healthcare  
Improvement

# How do we achieve Quality, Coverage & Sustainability in Global Health Programming

*Pierre M Barker*

*Chief, Global Programs and Partnerships,  
Institute for Healthcare Improvement*

*Clinical Professor, University of North  
Carolina at Chapel Hill*



# Definition of Quality: Coverage *and* Quality *and* Sustainability

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A 2-part  
global  
aim.....

*“Attainment by  
all peoples of  
the highest  
possible level  
of health”*



# Definition of Quality: Coverage *and* Quality *and* Sustainability

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A 3-part  
global  
aim.....

*“(Sustainable)  
Attainment by  
all peoples of  
the highest  
possible level  
of health”*



# Implementation that is Effective, Scalable and Sustainable:

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1 Effective: An Implementation and Improvement Method

2 Scalable: A Phased Method for Scale up

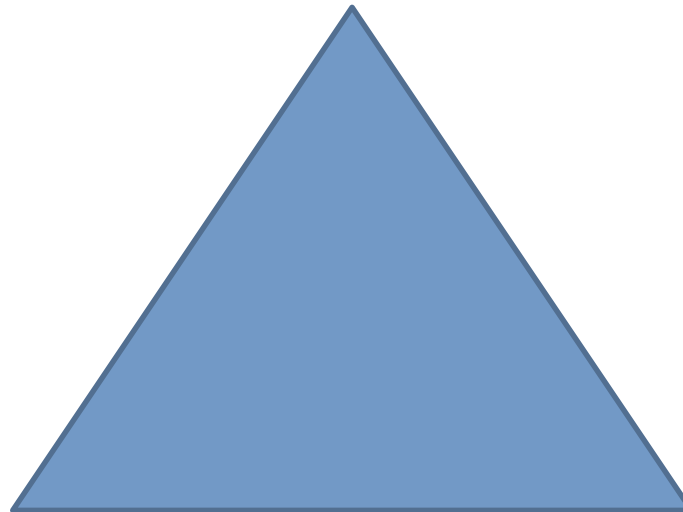
3 Sustainable: Building local and national capability and ownership



# 1. Effective: Implementation and Improvement Method

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**Will and Leadership:**  
Something that matters.  
Leadership that cares,  
acts, facilitates



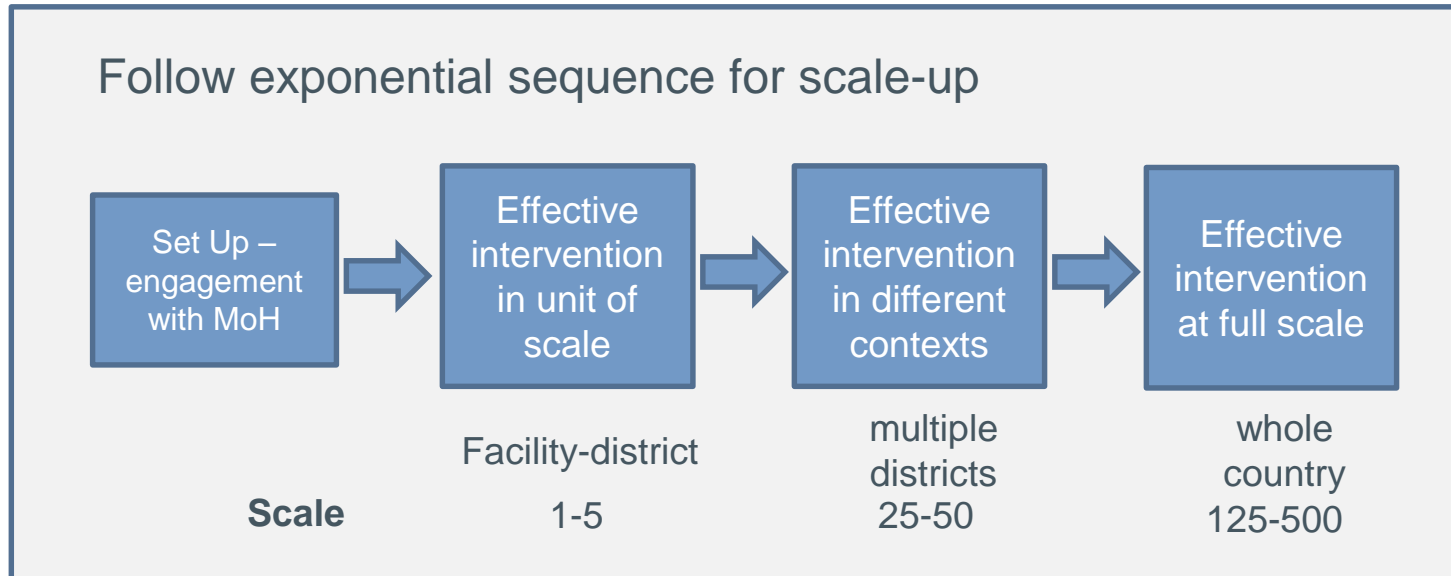
**Content Theory:**  
Multifaceted actions  
that drive evidence-  
based clinical  
interventions

**Implementation Plan:**  
Learning System (data  
feedback, testing of  
local ideas,  
collaboration, power  
sharing)

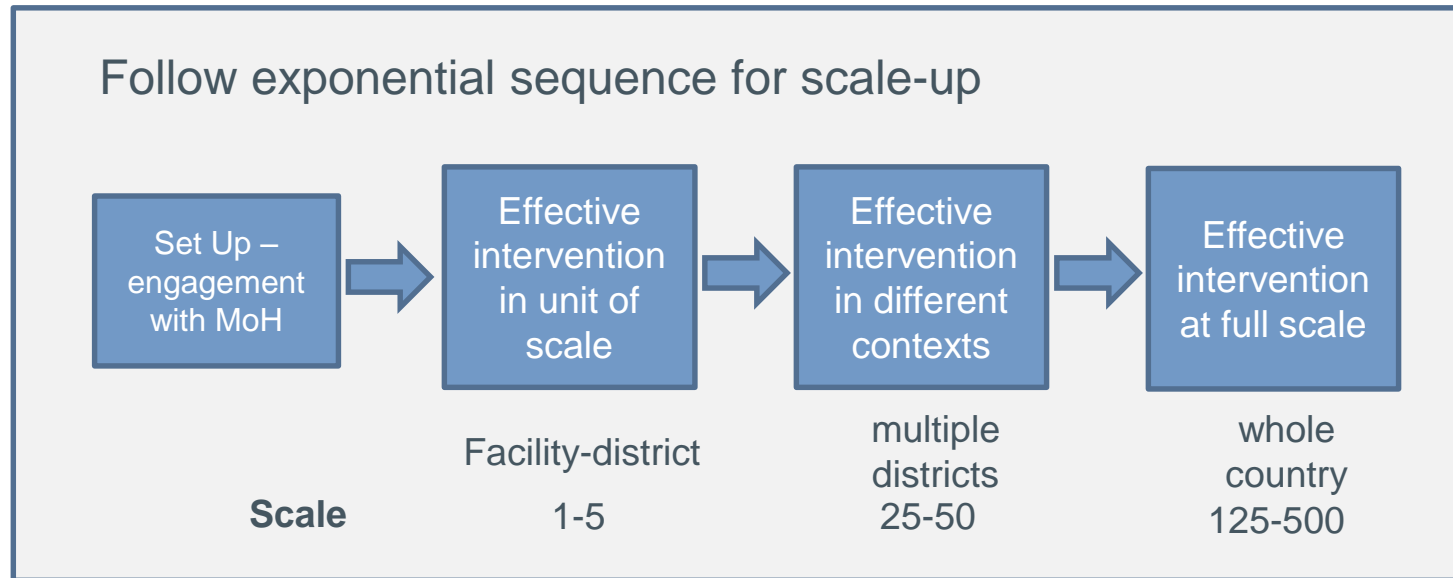


# 2. Phased Scale-up Design

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# 3. Design for Sustainability



Build infrastructure for scale-up

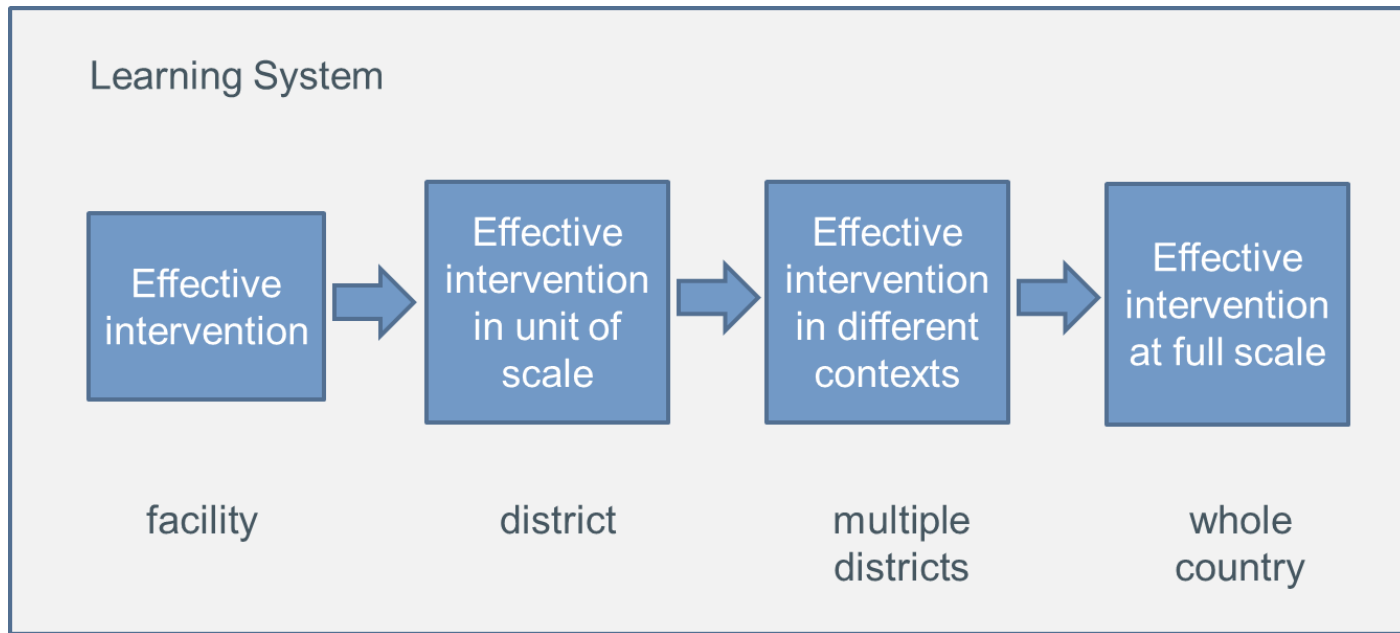
Build enabling environment for scale-up





# Role of government and non-Governmental supports (NGO, funders, private sector, etc) 8

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? Role of Government

? Role of Non-Government actors (NGOs, private sector, funders, etc)





# Effectiveness *and* Coverage *and* Sustainability

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4 case studies on C, Q &S:

- South Africa – Scale up of PMTCT
- Ghana – Scale up of quality MCH services
- Malawi – Demonstration of comprehensive Maternal Newborn services
- Ethiopia – Government led national scale-up of Maternal Newborn Services

Global initiative supported by WHO QoC MN standards and implementation guidance

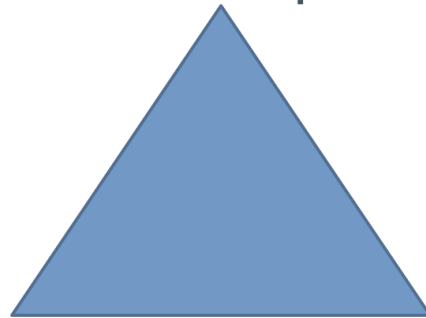


# South Africa: PMTCT program



**Will and  
Leadership:**

**Content  
Theory:**



**Implementation  
Plan:**

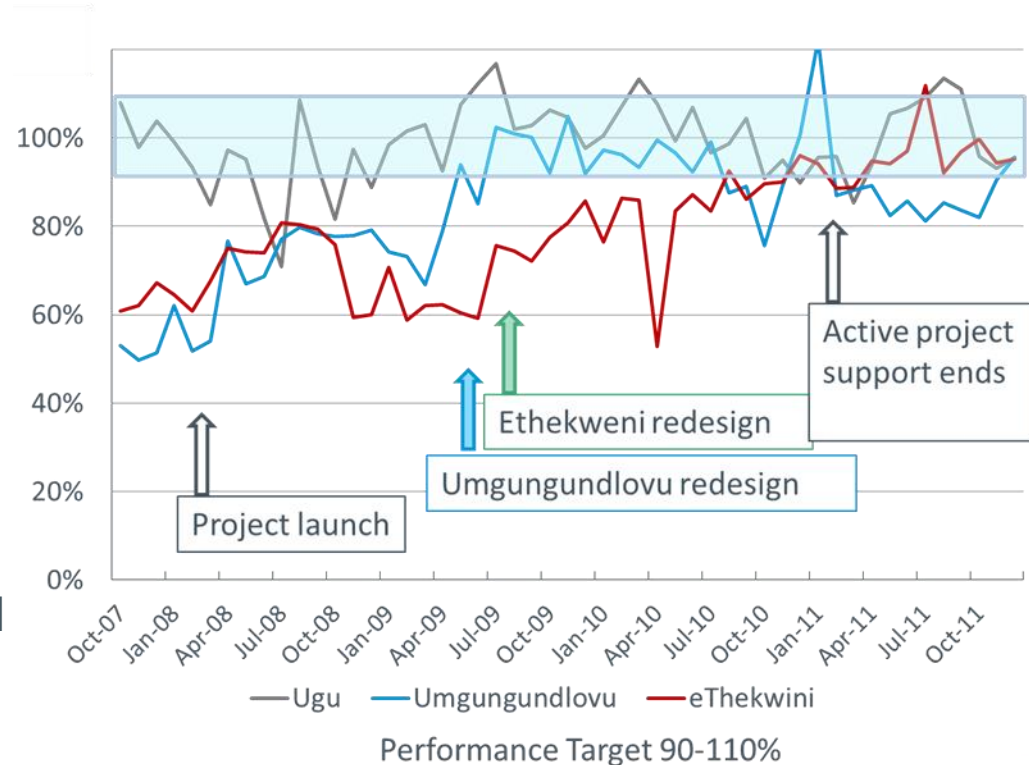


# South Africa: PMTCT program

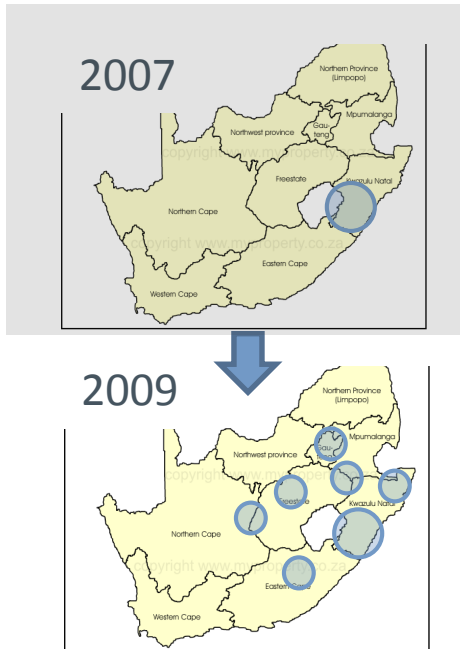


- NGO-led QI intervention
- Direct engagement of District Managers
- Got Attention of Regional and National Program managers
- Built credibility of method

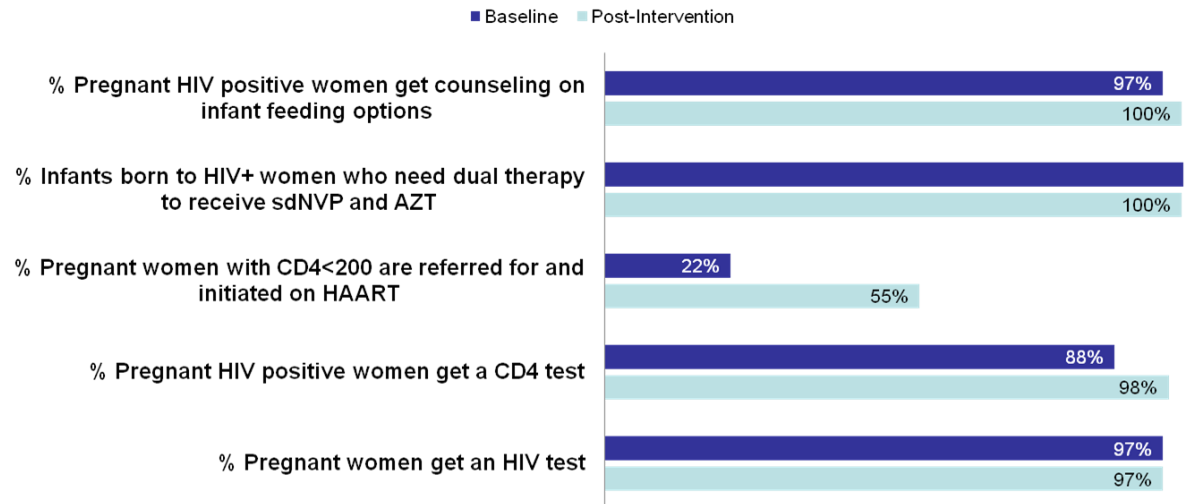
Step 1: Demonstration and learning in three Districts (existing administrative unit that could be scaled)



# South Africa: PMTCT program



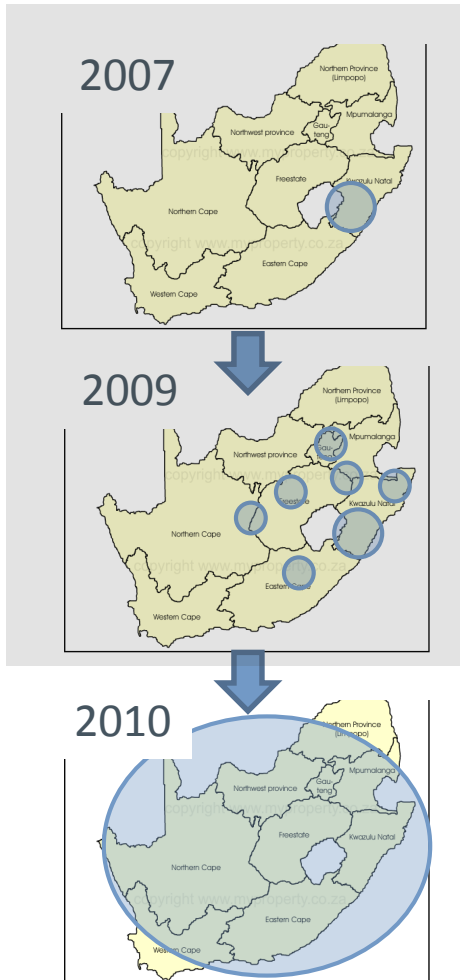
Test of Scale-up: “The Accelerated Plan” 5 provinces, 7 Districts, 161 facilities



- Government-led, IHI-designed, NGO supported QI intervention
- Incorporated learnings and tools from demonstration sites into national protocols and DHIS
- Built confidence of Regional and National Program managers and planners

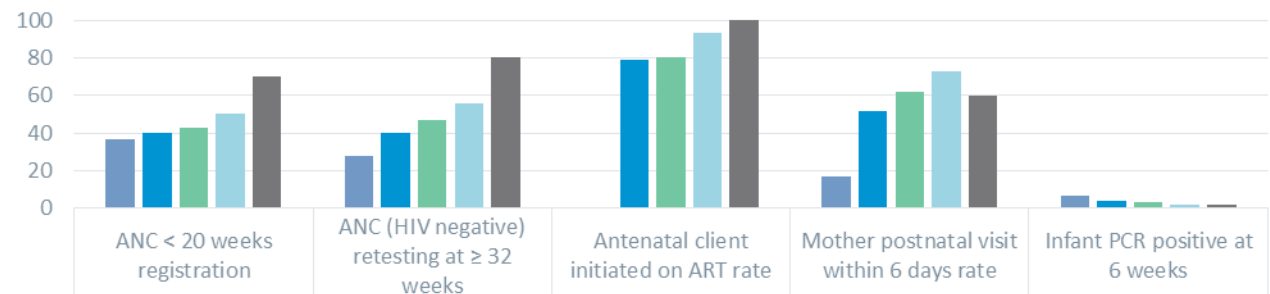


# South Africa: PMTCT program



Going to Full Scale: 12 provinces, 52 Districts, 4,200 health facilities

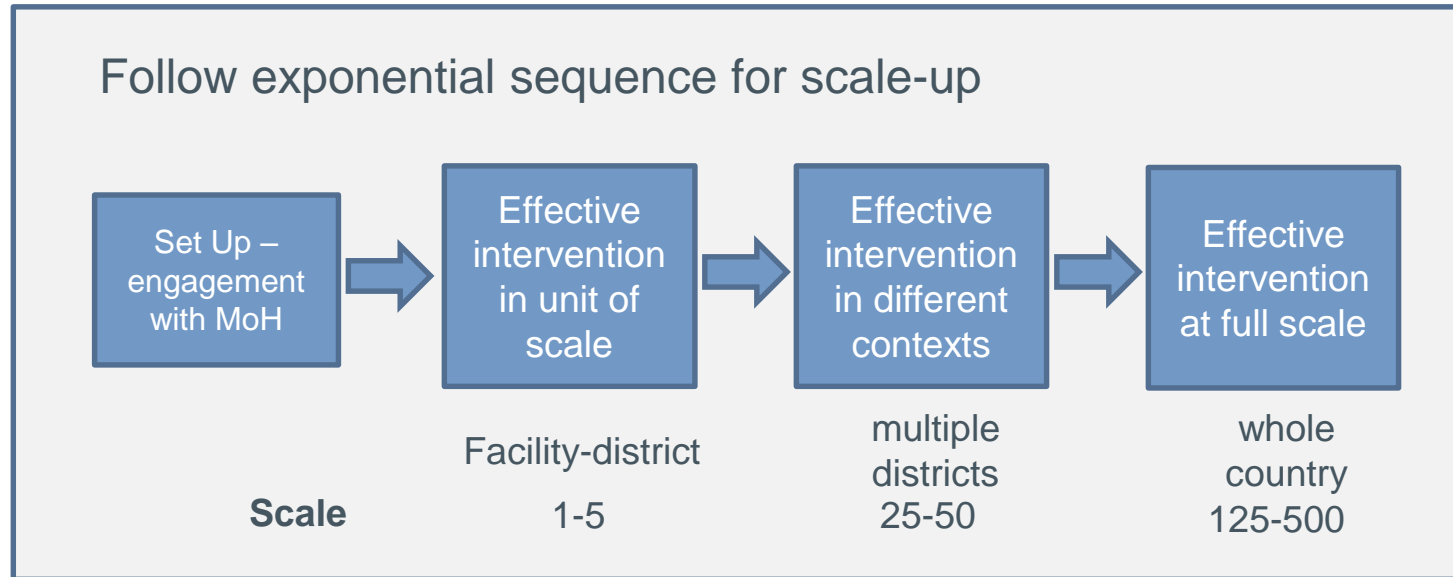
PMTCT Cascade National



- Government-led, govt-designed, NGO-supported scale up
- Learnings and tools from demonstration sites incorporated into standard work



# S Africa PMTCT: transfer of ownership



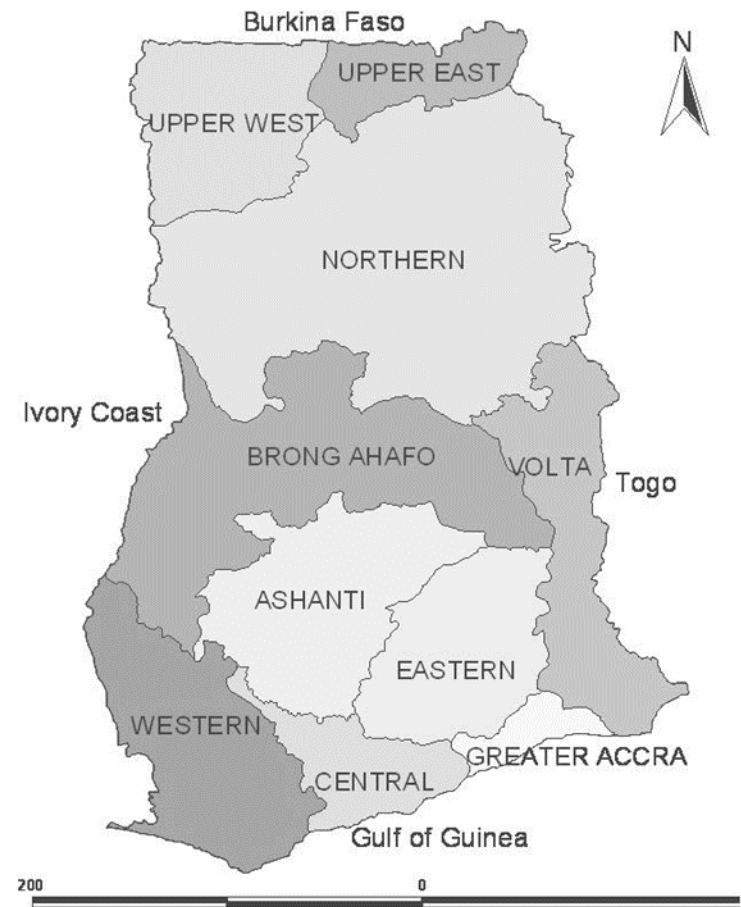
Government ownership/support of intervention

NGO ownership/support of intervention



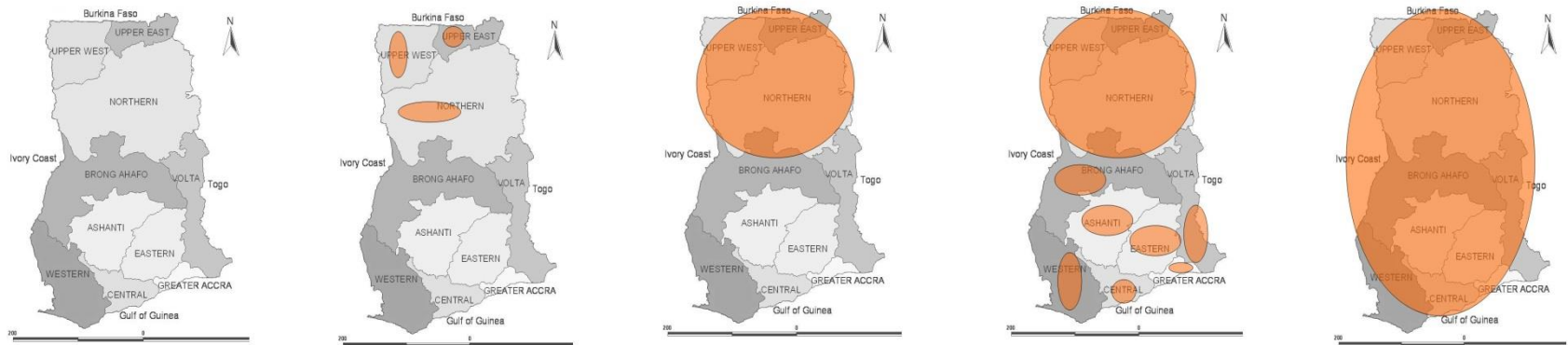
# Ghana: Improving Outcomes for Under-5s

- IHI invited to support national scale up of U5 facility-community quality intervention
- Working through large faith-based network (minimal govt involvement in design)
- Used District as unit of scale
- Designed with Deming principles with full scale in mind





# Ghana: Improving Outcomes for Under-5s



Phase 0:

Phase 1:

Phase 2:

Phase 3:

Phase 4:

Months -6 to 0

0–9

10 - 27

19-39

34 – 51

Preparation  
Building will  
Baseline data

Piloting  
Building will  
Demonstration

Scale up, and  
piloting scale  
up methods

Piloting new  
areas of work National Scale up

Sub-districts 35  
with QI teams

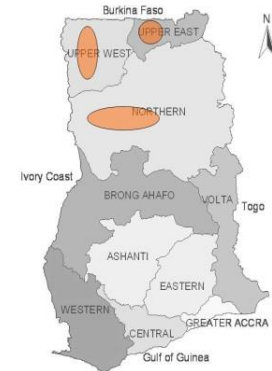
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260

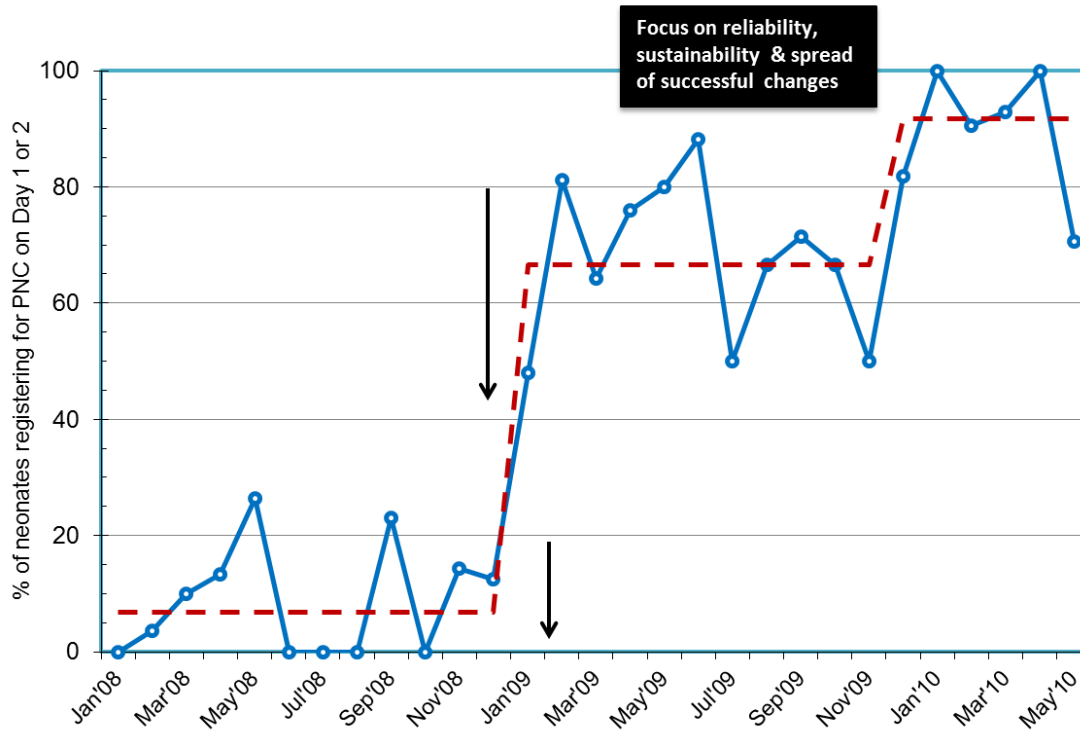
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# Ghana: Innovation Phase



**Postnatal Care Coverage on Day 1 or 2 of life -  
Samoa Sub district, Lambussie-Karne District, UWR**

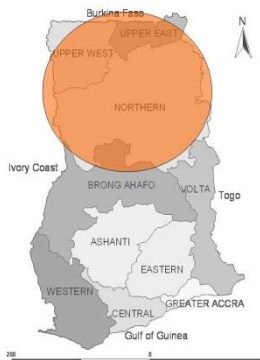
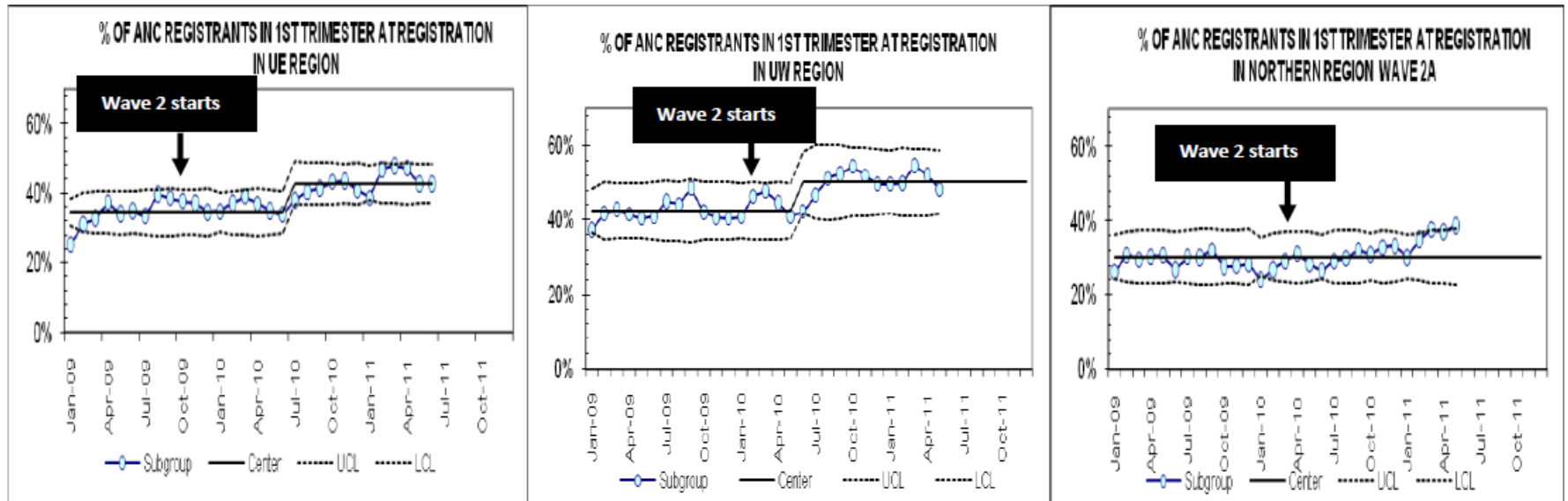


- Develop and test effectiveness of change ideas
- Build reliable data systems
- Build QI capability
- Building trust and confidence of managers and leaders in the method



# Ghana: Phase 2 – testing scalability

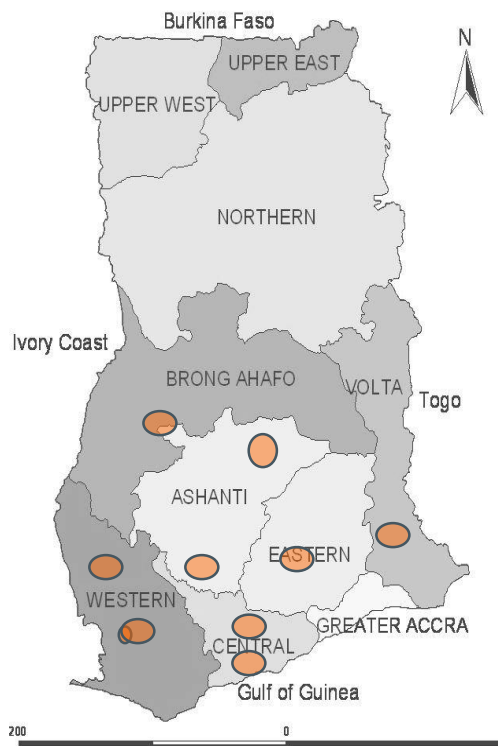
**Figure 4.** Wave 2 Improvement Collaborative Network – ANC Registration in First Trimester, Jan'09 to May'11



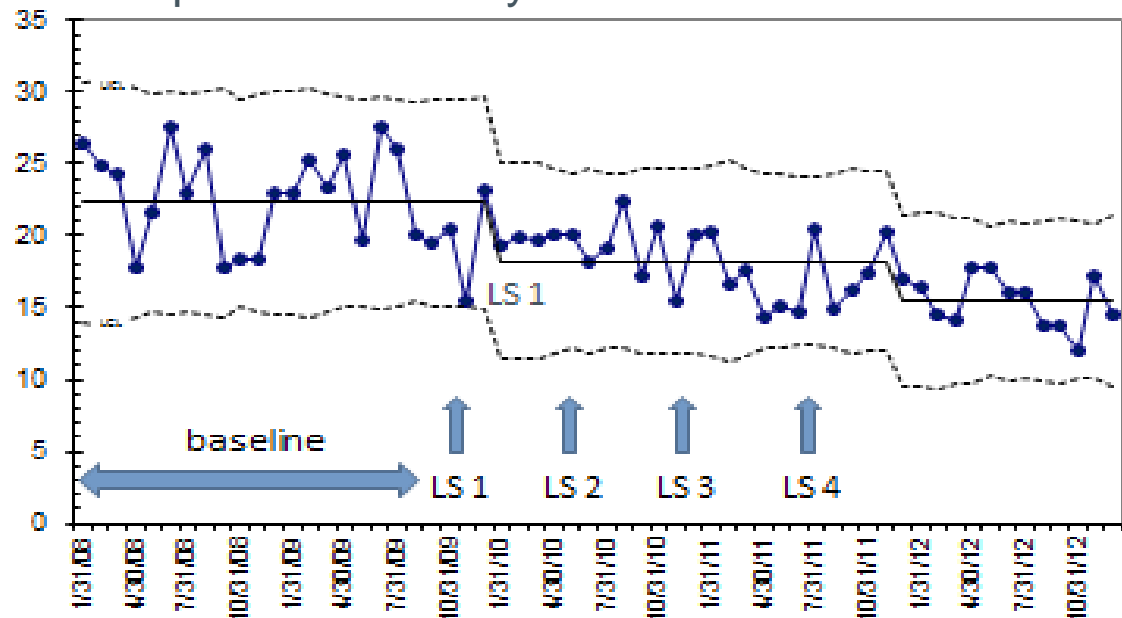
- Test scalability of changes (effectiveness during scale up)
- Build capability of NCHS and DoH district and regional managers and leaders
- Build reliable routine data systems
- Build trust and confidence of managers and leaders in the method
- Attract national attention



# Ghana: Improving Outcomes for Under-5s



Hospital case-fatality for all under-5 admissions

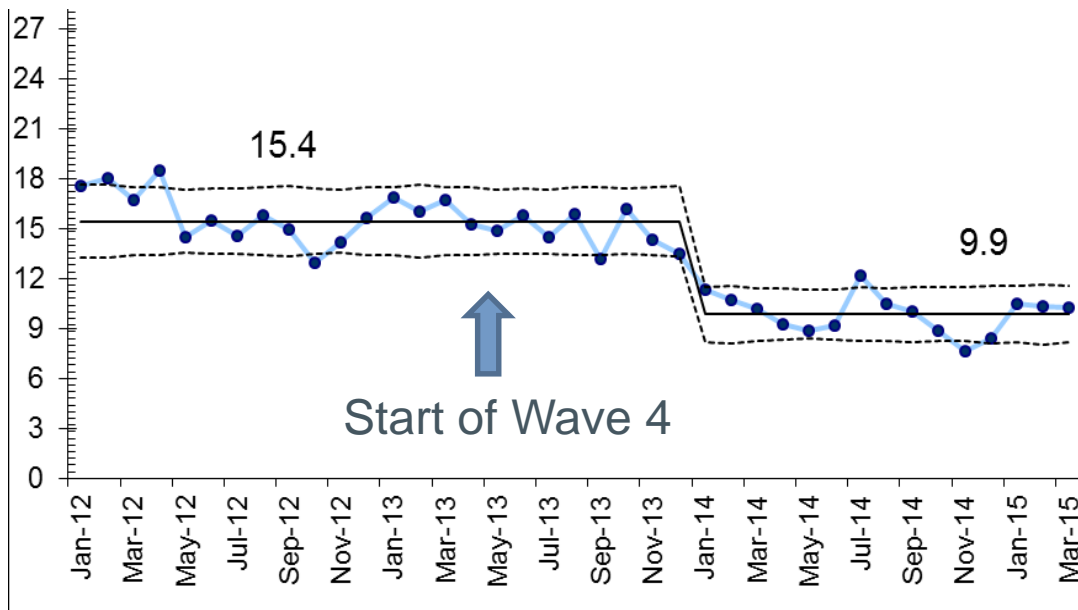


- Test hospital-based interventions (not districts)
- Work in faith-based hospitals only for a new innovation phase - Scaled to all NCHS hospitals before going to govt hospitals
- Preparation for full scale in the south
- Build will and belief in the method



# Ghana: Going to Full Scale

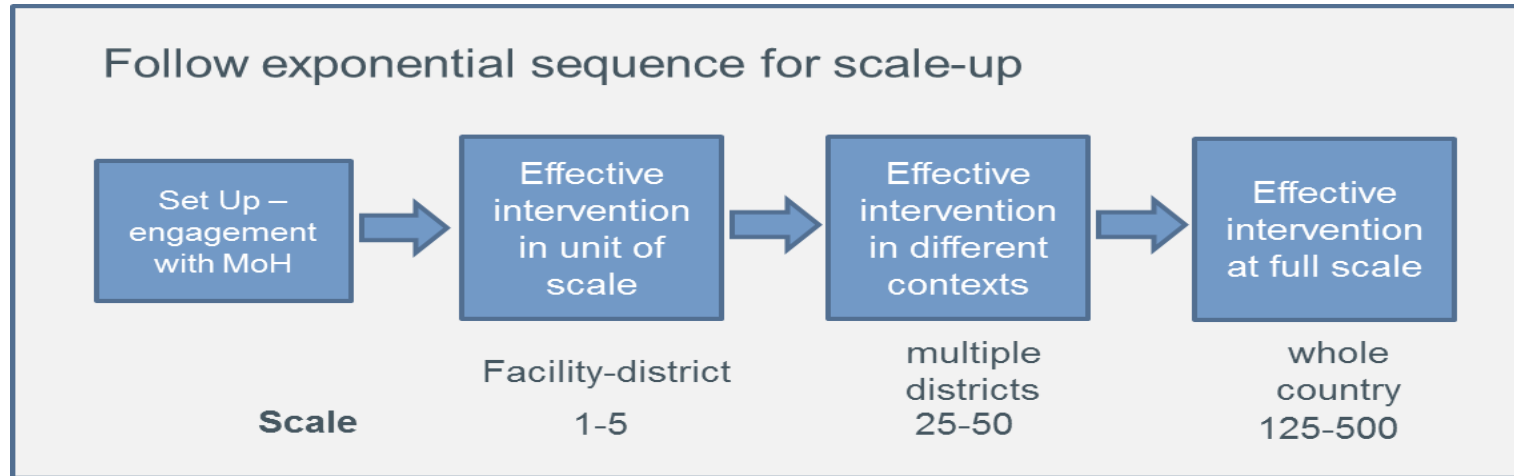
Under 5 case fatality (/1000 admissions) for  
175 hospitals in 7 southern regions



- Go to full scale (80% of all hospitals, 60% of district facilities)
- Major expansion of QI capability (>700 district quality mentors trained)
- Deep engagement with regional offices and district offices (all coaching and mentoring)
- Increasing interest from GHS and MoH
- Questions about sustainability



# Ghana: late transfer of ownership



Government ownership/support of intervention

Regional ownership/support of intervention

Faith-based & NGO ownership/support of intervention

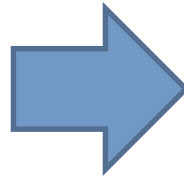


# Ghana Next Steps: Addressing Long term Sustainability of Quality

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Compelling result but....

- No coherent, coordinated quality strategy
- No leadership capability or understanding of quality programming
- Cadre of quality mentors at risk
- Gains in U5 mortality at risk
- Unfinished business – no change in newborn outcomes



- Develop of quality strategy – core national priorities, coordinates policy and structure,
- Build multi-level leadership capability in leading change, enabling quality
- Ongoing quality training (Ubora Institute vs GHS)
- Practical application of QS through MN intervention
- Engage partners to support a well-developed learning based plan





# Malawi

- Weak central and district health system
- Highly active, uncoordinated NGO community
- Little evidence of sustained improvement
- Little evidence of NGO acting to support explicit MoH-led plan

But....Malawi did achieve MDG 4

High rates of Maternal and newborn mortality



# Malawi: Demonstration that MN mortality can be reduced

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## Bwaila Hospital, Lilongwe

- >16,000 births/year
- MMR >180/100,000
- NMR >30/1000



# Malawi: Demonstration that MN mortality can be reduced

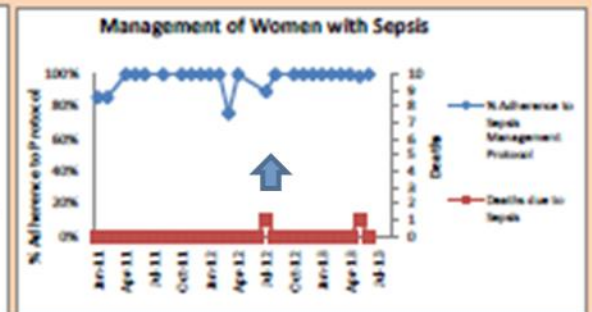
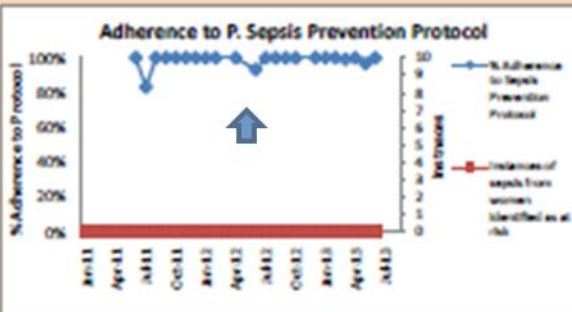
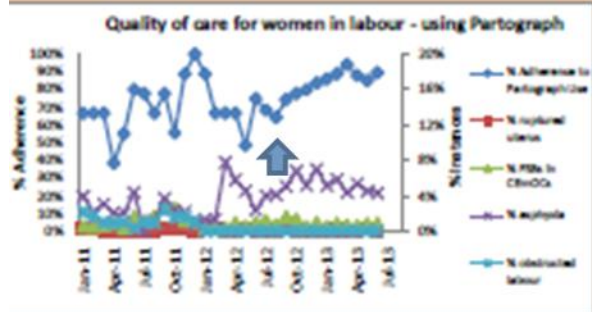
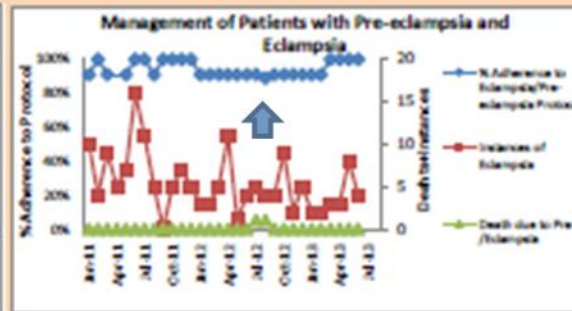
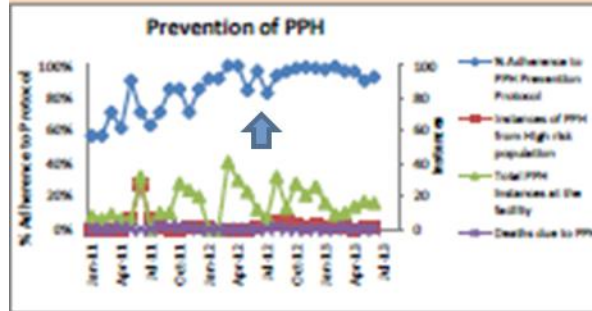
- Multi-partner Collaboration: (Bwaila DHO and staff), UNC, Rose Project, IHI, MaiKhanda
- Agreed to combine skills and resources
  - Clinical training
  - Leadership engagement
  - Secure supply chain
  - QI teams reorganized
  - Clinical staff capacity



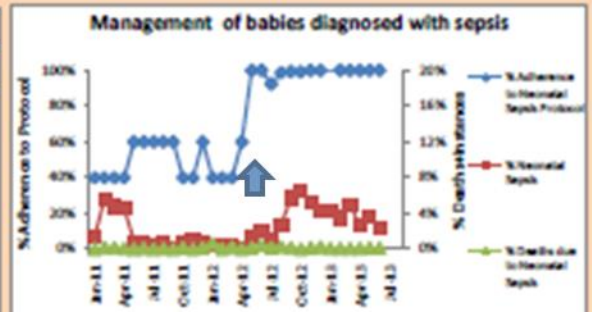
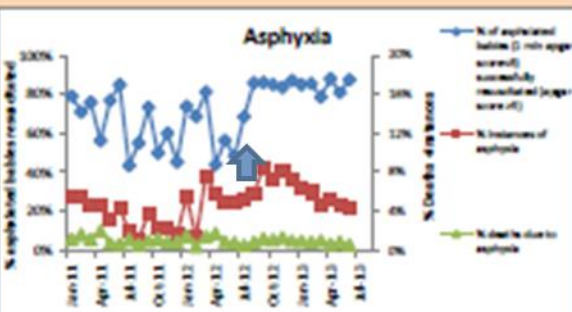
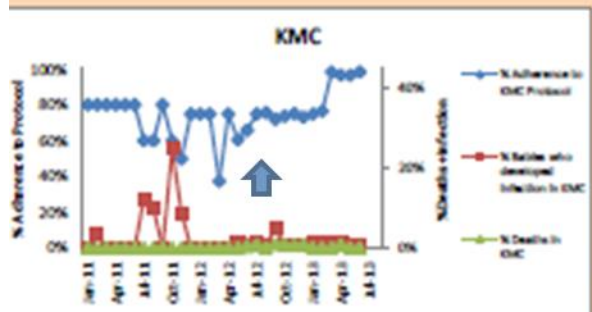
# Malawi

## PROCESS INDICATORS FOR MAIKHANDA INTERVENTIONS - Bwaila Hospital

### Process Indicators: CEmOC - Mother

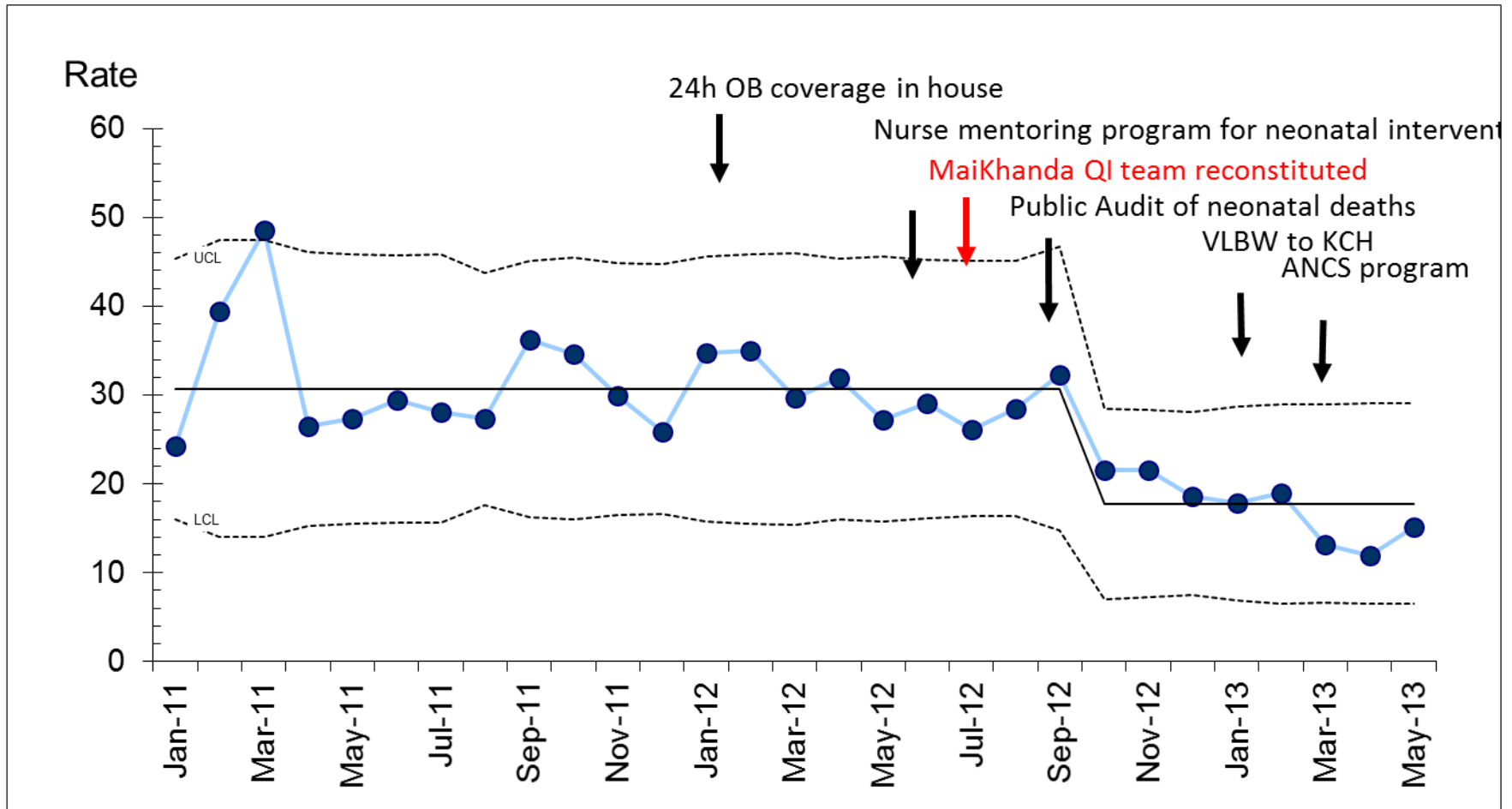


### Process Indicators: CEmOC - Neonate

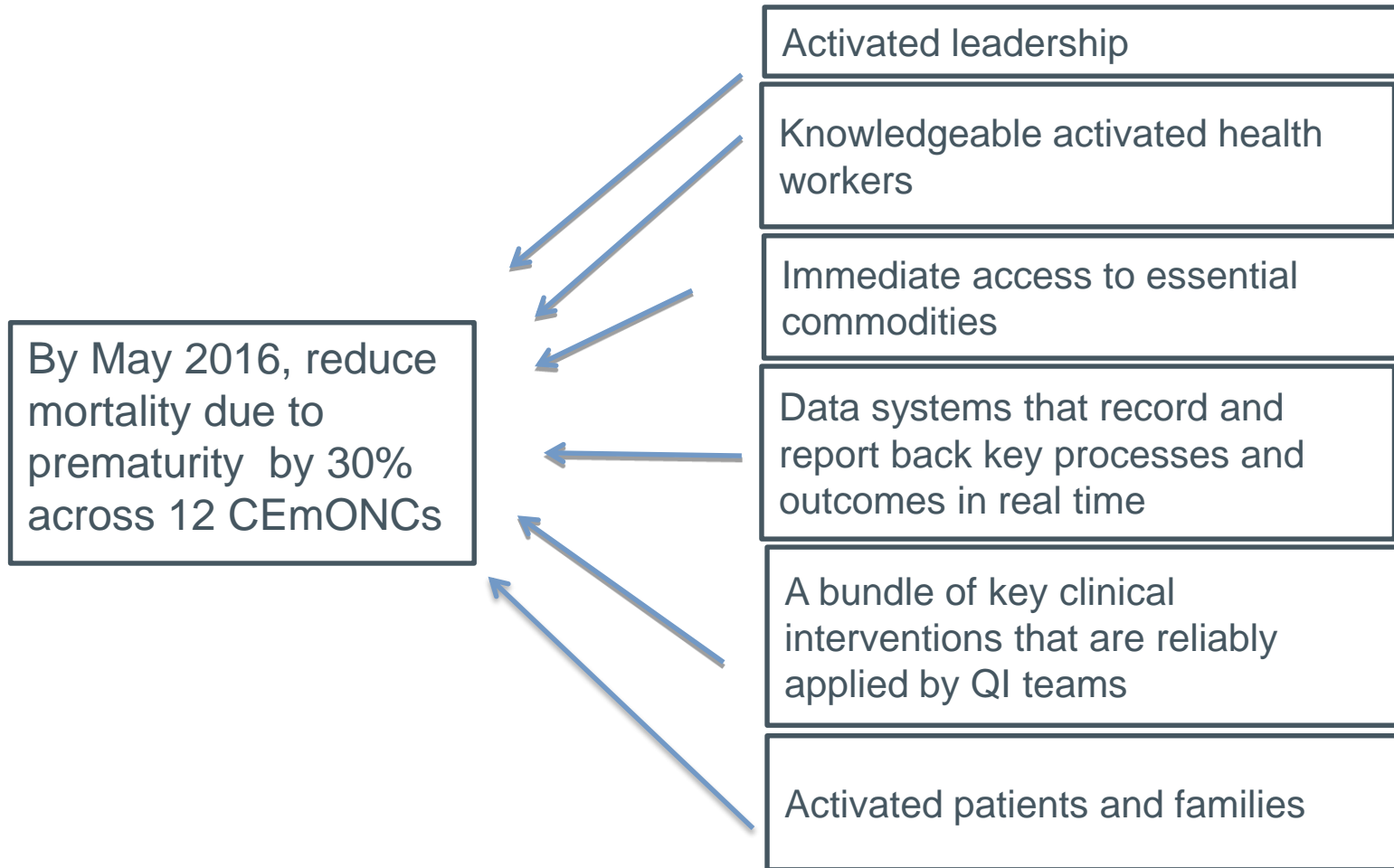




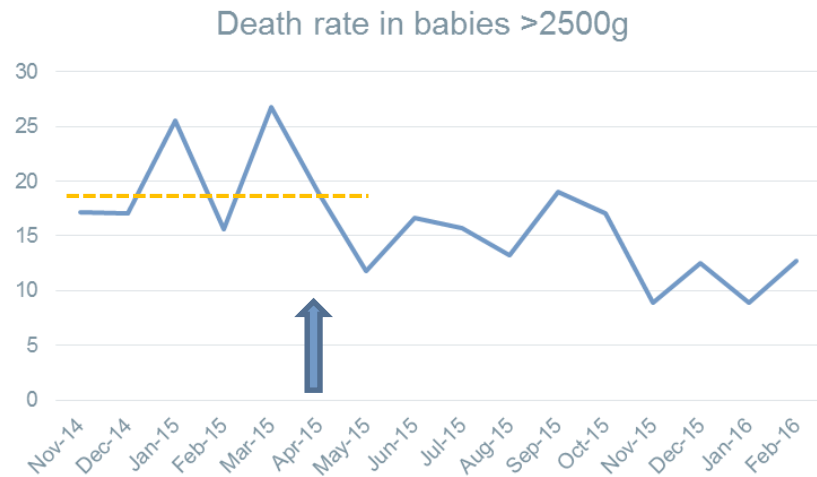
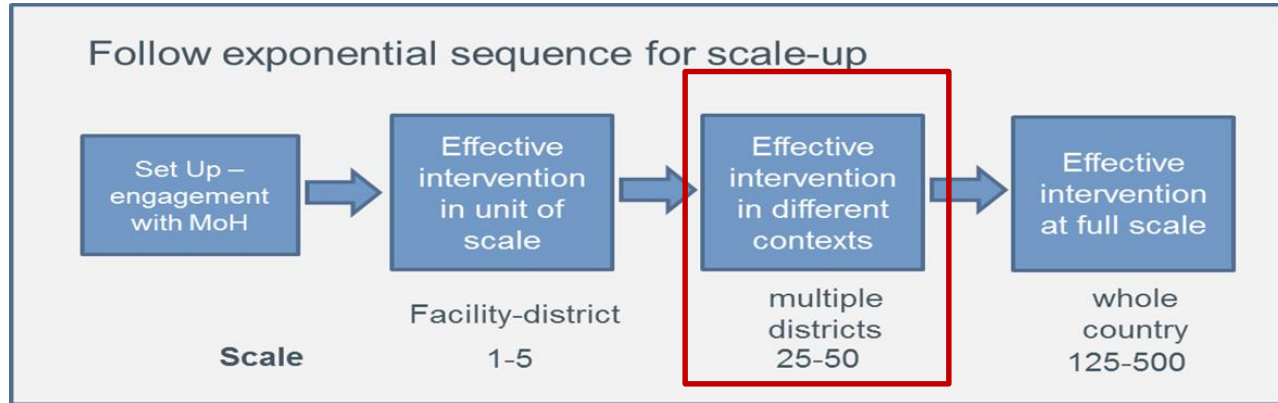
# Malawi



# Malawi: Content theory for effectiveness

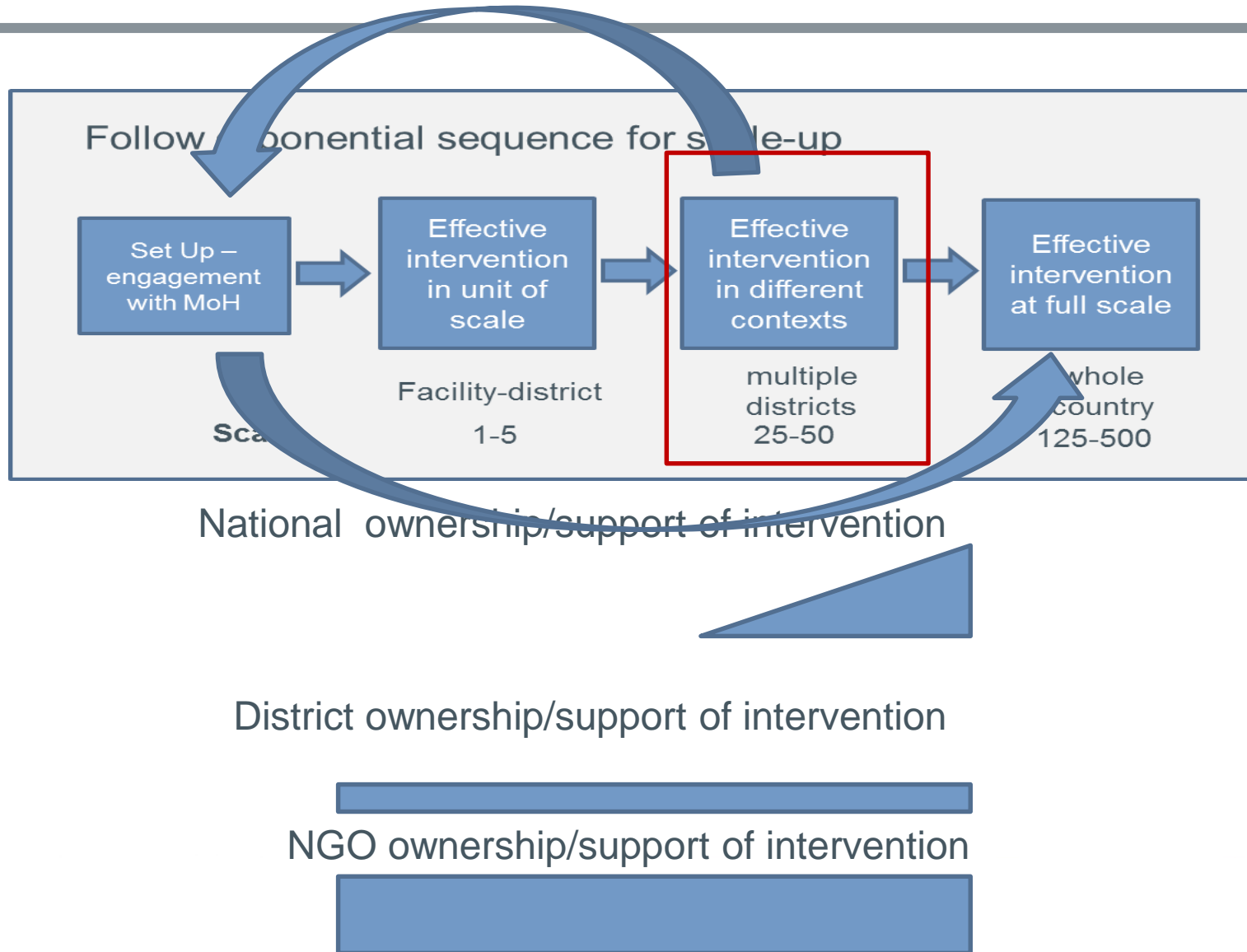


# Test of Scale: 13 hospital Collaborative, 65,000 deliveries/year

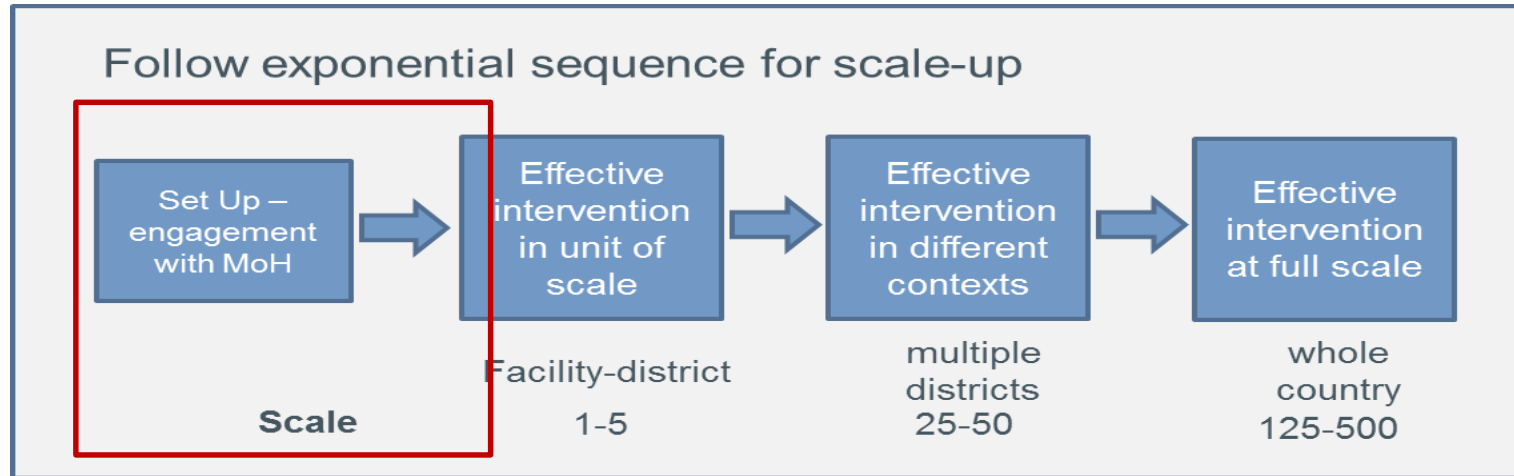




# Malawi: v late engagement



# Ethiopia



National ownership/support of intervention



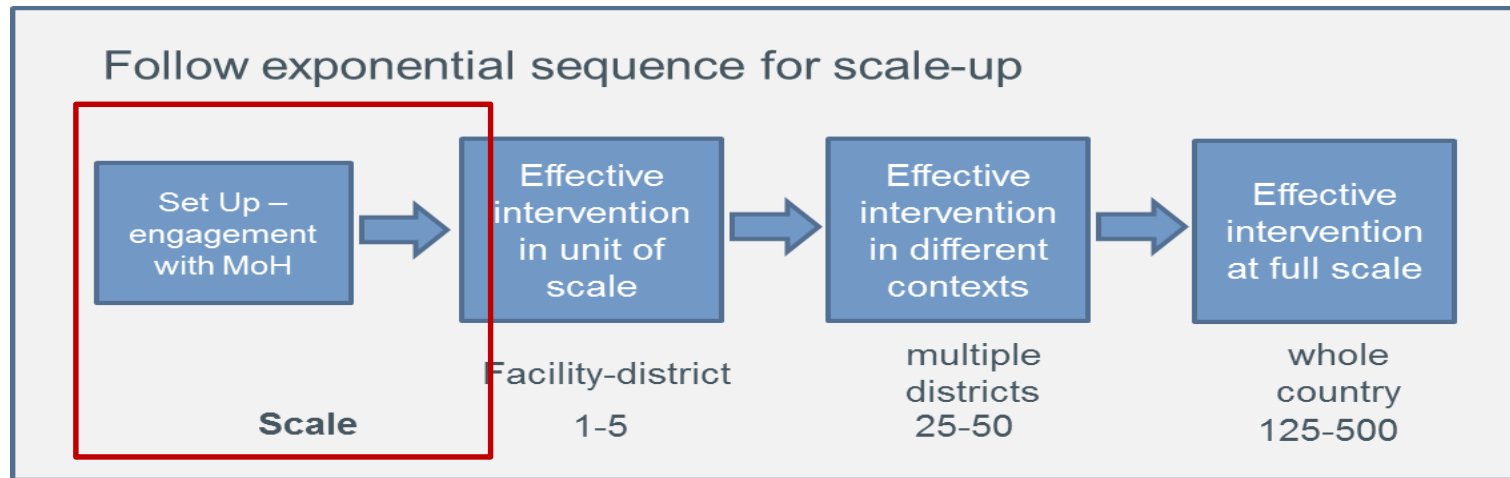
Regional ownership/support of intervention



NGO ownership/support of intervention



# Ethiopia



FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA  
የኢትዮጵያ ፌዴራላዊ ዲሞክራሲያዊ ጢያታ  
Federal Democratic Republic of Ethiopia  
Ministry of Health

## ETHIOPIAN NATIONAL HEALTH CARE QUALITY STRATEGY

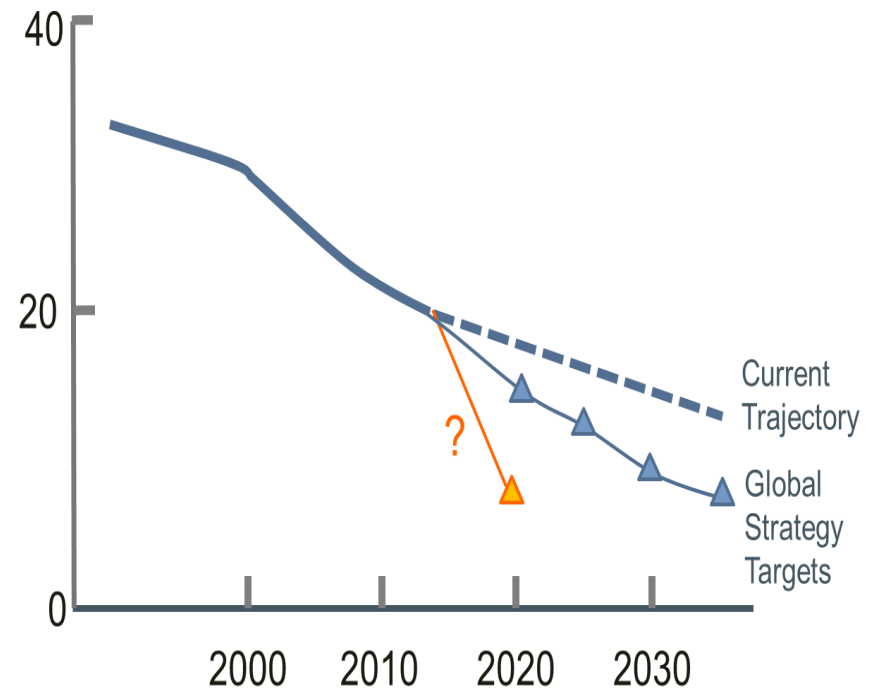
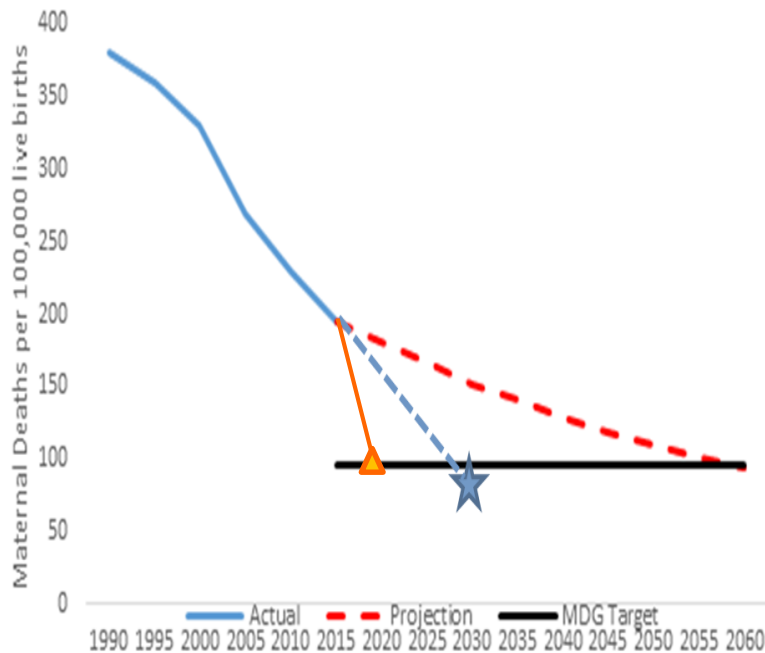
2016 – 2020

Transforming the Quality of Health Care in Ethiopia



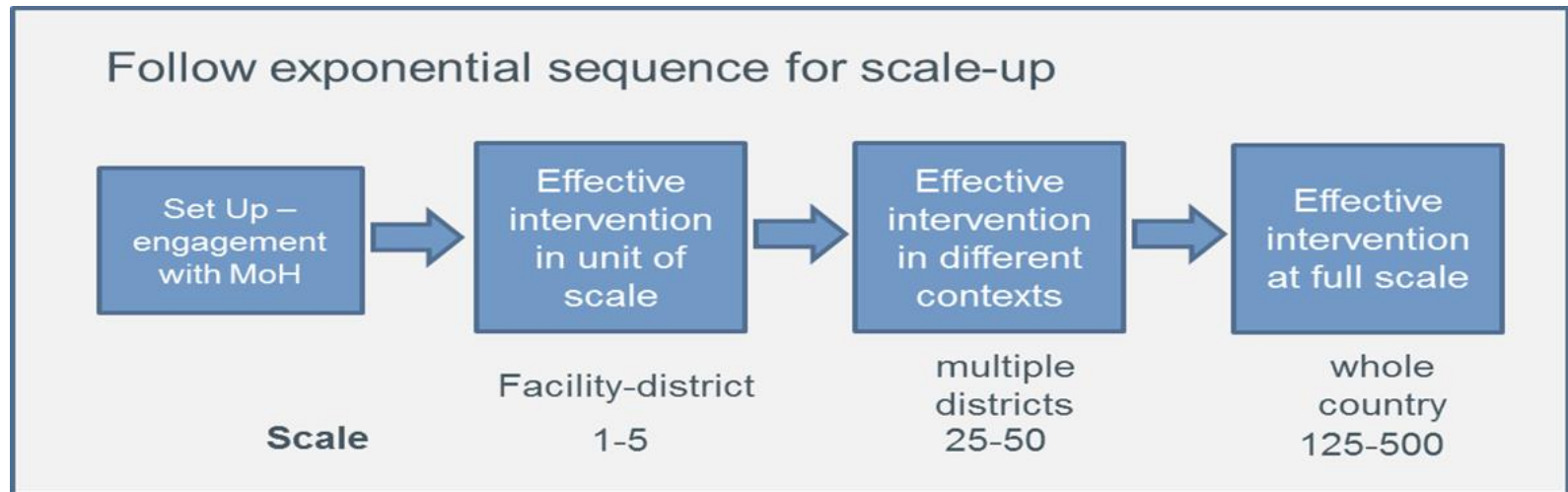
# Maternal and Newborn Mortality 1990 - 2035<sup>33</sup>

## – time for something more ambitious?



# Malawi:

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# WHO QoC Initiative: accelerating better<sup>35</sup> Maternal & Newborn Outcomes

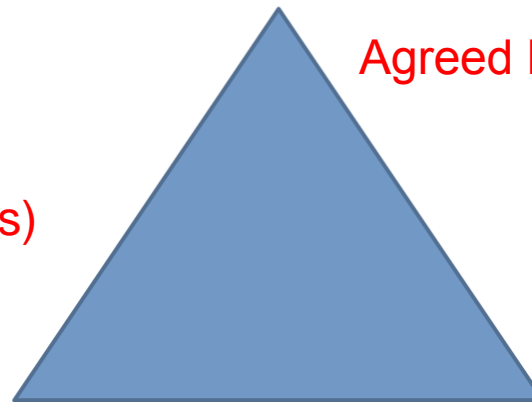
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**Burning Platform:**  
Something that matters,  
leadership that cares,  
and knows how to act

Agreed bold aim (“Half by five”)

Content Theory (QoC standards)

**Content Theory:**  
multifaceted set of  
actions that drive  
better clinical  
performance and  
patient outcomes



**Implementation Plan:**  
Strategic system  
Technical method  
Social system


Implementation Plan (guidance)



# WHO QoC Initiative: Content Theory - 8 WHO Standards

**Aim:**

Decrease maternal and newborn deaths by 50%, with 100% dignity and respect - by 2020



Provision of Care	Ideas
1. Evidence-based practices for routine care and management of complications	
2. Actionable information systems	
3. Functional referral systems	
4. Competent and motivated human resources	
5. Essential physical resources available	
<b>Experience of Care</b>	
6. Effective communication	
7. Respect and Dignity	
8. Emotional Support	



# WHO QoC Initiative: Implementation Plan

## – 10 Interventions (no jargon, no branding)

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1. Leadership and Management
2. Policies and Designs for Implementation and Scale Up
3. Financial Strategies
4. Assessment and provision of resources
5. Engaging women, families, communities in their care
6. Education and training for clinical *and* system activities
7. Supportive supervision of clinical *and* system activities
8. Rapid testing and local adaptation of ideas
9. Regular data audit and continuous data to support improvement
10. Learning systems and communities for accelerating improvement





# WHO QoC Initiative: Global Learning Community

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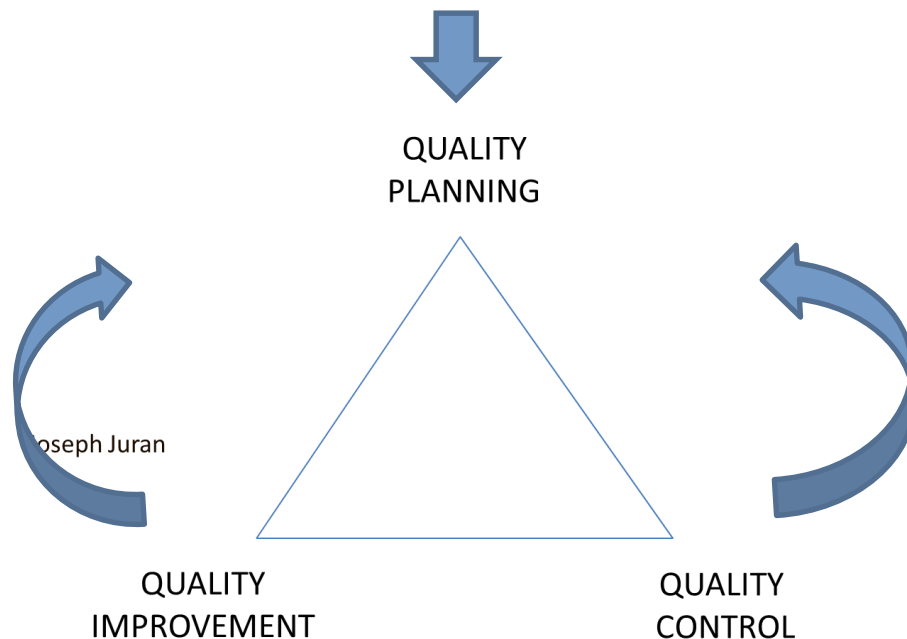
# WHO QoC Initiative: Simple Measurement Plan

	National	District	Facility
Core Measures (?10)	Reported quarterly for every District	Reported Monthly for every facility	Reported Monthly for every facility
Quality Control measures -	Quality Control measures (accreditation, prof regulation)	Key measures for each of QoC Standard (?quarterly)	Tracked continuously – reported monthly
Quality Improvement Measures			Ad-hoc as required. Using measures suggested in QOC Standards



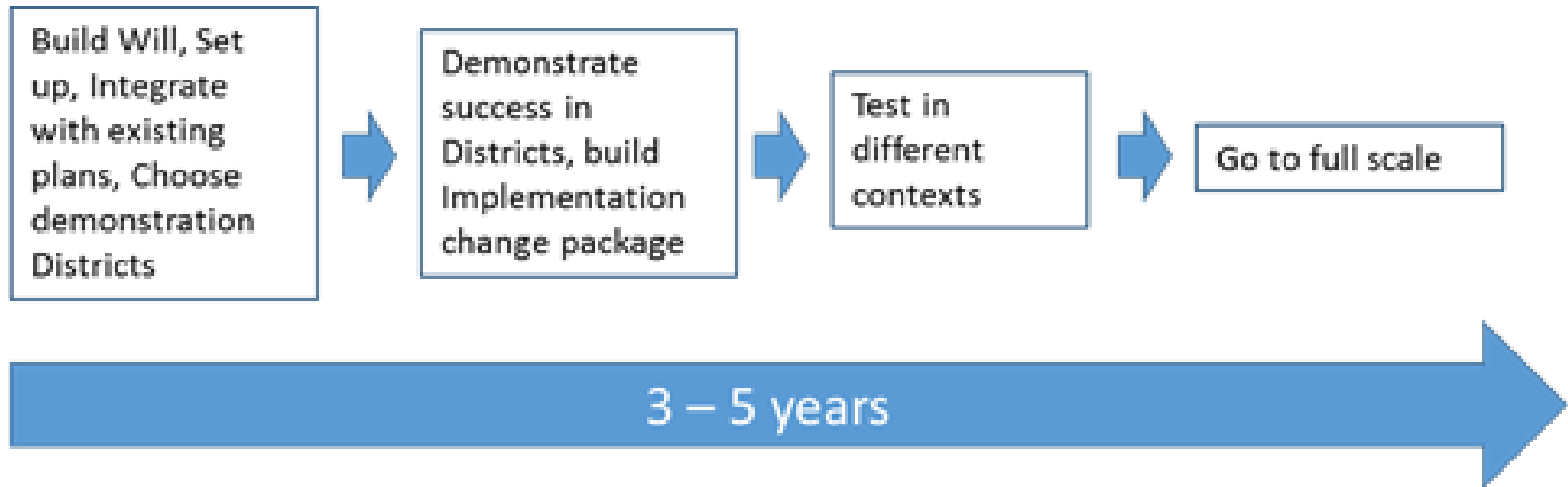
# WHO QoC Initiative: Learning System<sup>40</sup>

A learning system collects a broad range of metrics, tools and experiences, and incorporates this information into a continuous feedback loop to inform future planning and action.

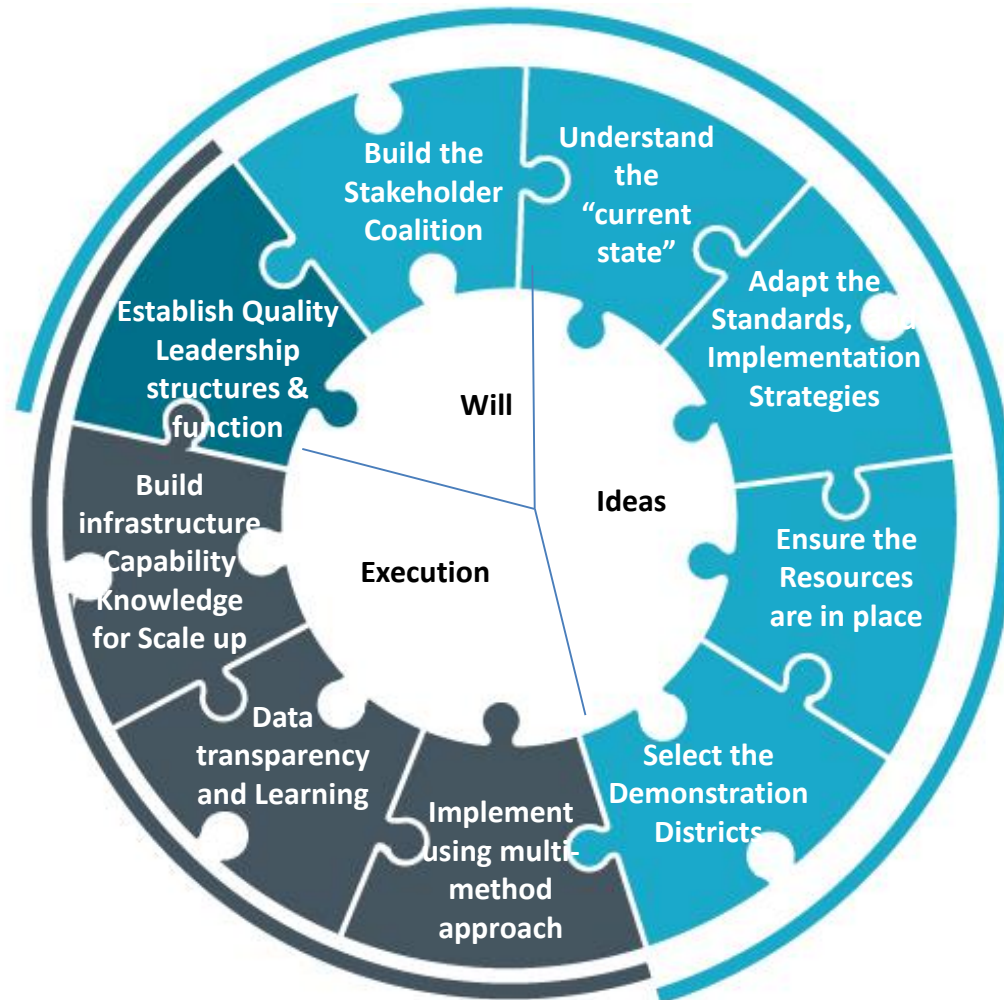


# WHO QoC Initiative: Sequence for getting to scale

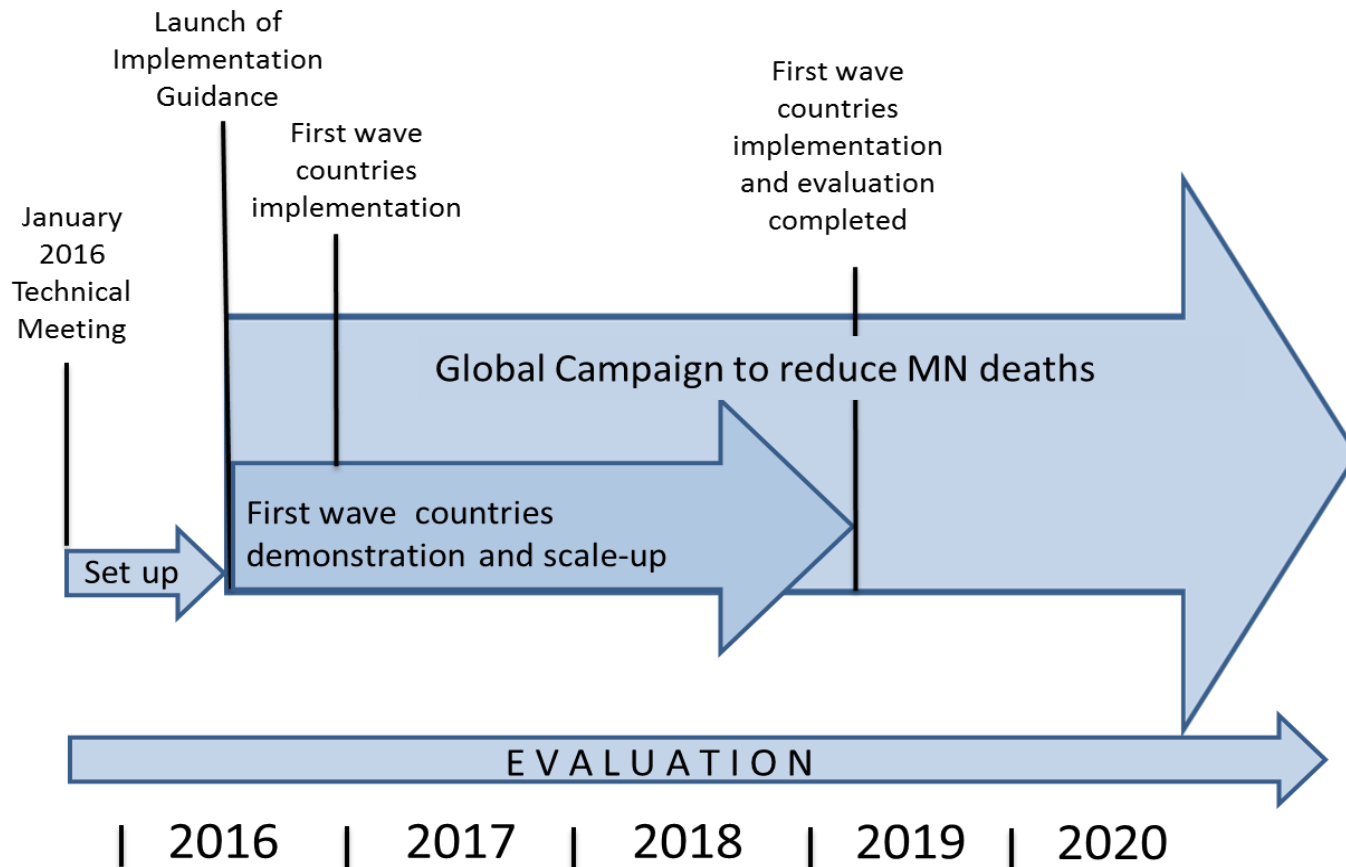
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# WHO QoC Initiative: Country-Led Intervention. Using MNH as example



# WHO QoC Initiative: Putting it All Together



# Questions

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- How do NGOs engage most effectively with Ministries of Health?
- How do Ministries of Health best use the technical supports of NGOs most effectively?
- How to best incorporate innovations of implementation into country plans?
- How should NGOs design for scale up?
- What does sustainability really mean?
- What capabilities are needed for sustainability?
- How do we put Ministries of Health into the “driver’s seat”

