



Countdown to 2015 In-Depth Case Study: Tanzania

Dr Theopista John, WHO Tanzania

LSHTM Tanzania Network Meeting, 13 April 2015



Part I

Countdown to 2015:

Background





What is Countdown?

A global movement initiated in 2003 that tracks progress in maternal, newborn & child health in the 75 highest burden countries to promote action and accountability



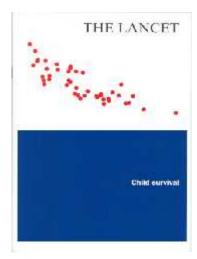
Countdown origins

2003 Lancet Child Survival Series

2005 Lancet Neonatal Series

A refrain from the United Nations, NGOs, and civil society:

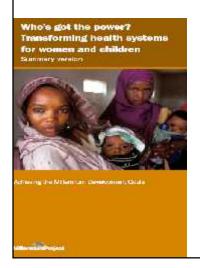
- Effective interventions are available
- Coverage is unacceptably low and inequitable
- We need to MAKE NOISE





"Of the 130 million babies born every year, about 4 million die in the first 4 weeks of life—the rechatal period. A similar number of babies are stillborn..."

However health a boy a stall servinal





Tre Word Health Report 2000









Countdown aims

- To disseminate the best and most recent information on country-level progress
- To take stock of progress and propose new actions
- To hold governments, partners and donors accountable wherever progress is lacking



What does Countdown do?

- Analyze country-level coverage and trends for interventions proven to reduce maternal, newborn and child mortality
- Track indicators for determinants of coverage (policies and health system strength; financial flows; equity)
- Identify knowledge and data gaps across the RMNCH continuum of care
- Conduct research and analysis
- Support country-level Countdowns
- Produce materials, organize global conferences and develop web site to share findings



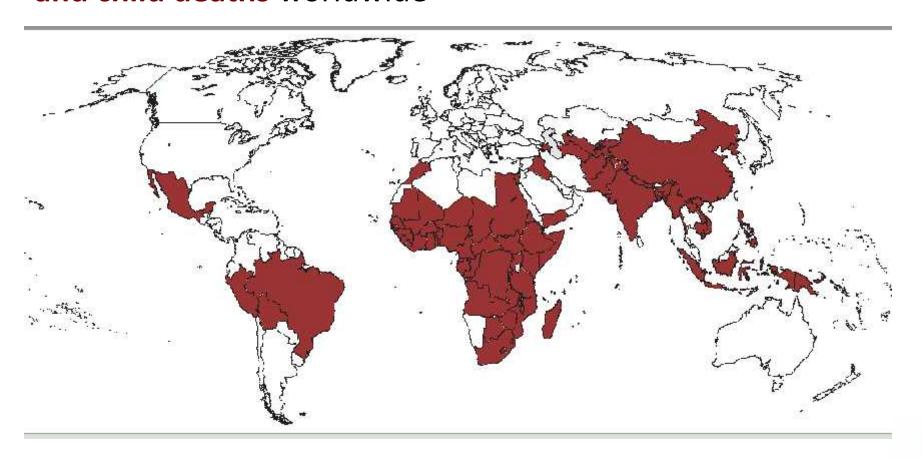
Countdown: Promoting accountability for action





Where is Countdown?

75 countries that together account for > 95% of maternal and child deaths worldwide





Who is Countdown?

Individuals:

scientists/academics, policymakers, public health workers, communications experts, teachers...



RMNCH policymakers, members of Parliament...

Organizations:

NGOs, UN agencies, health care professional associations, donors, medical journals...









































































www.countdown2015mnch.org



Countdown moving forward

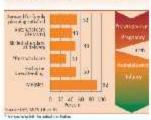
Four streams of work to promote accountability, 2011-2015

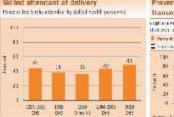
- Responsive to global accountability frameworks
 - -Annual reporting on 11 indicators for the Commission on Information and Accountability for Women's and Children's Health (COIA)
 - -Contribute to follow-up of A Promise Renewed/Call to Action
- Production of country profiles/report and global event(s)
- Cross-cutting analyses
- Country-level engagement



MATERNAL AND NEWBORN HEALTH

Coverage along the continuum of care





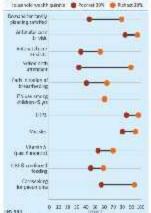


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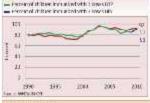
EQUITY

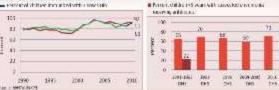
Socioeconomic inequibles in coverage





CHILD HEALTH Immunization - Province of these into actual agriculturality.





NUTRITION

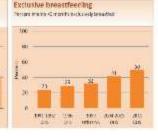
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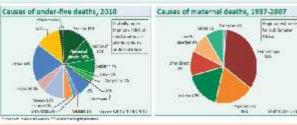


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DEMOGRAPHICS

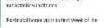
MATERNAL AND NEWBORN HEALTH





POLICIES

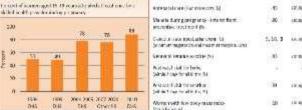




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SYSTEMS AND FINANCING

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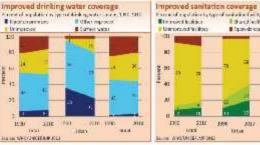
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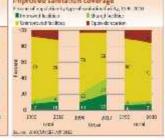
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CHILD HEALTH



WATER AND SANITATION



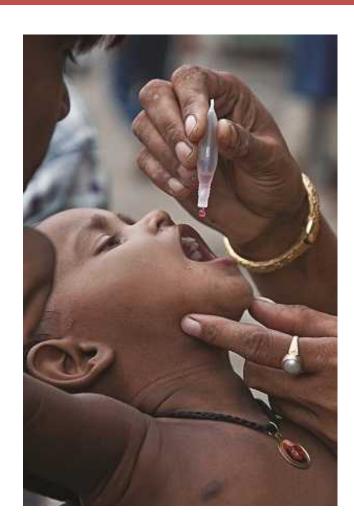




Part 2

United Republic of Tanzania Countdown

Case Study





The Tanzanian Team

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On behalf of the Tanzanian Countdown Country Case Study Team

Why a Country Case Study in Tanzania?

- 1. National leadership support
- Tanzania committed to doing a Countdown Case Study – multistakeholder support
- 3. Good timing to help inform the midterm review of:
 - ☐ The Health Sector Strategic Plan (2009 2015)
 - ☐ The One Plan The National Road Map Strategic Plan To Accelerate Reduction of Maternal, Newborn and Child Deaths in Tanzania (2008-2015)
- 4. Previous study described child survival gains in Tanzania (Lancet, 2008)



... what about maternal and newborn survival?

Tanzania

- Mixed progress for maternal, newborn and child survival since 1990.
- Achieved MDG 4 (U5MR = 54 deaths per 1000 live births*)

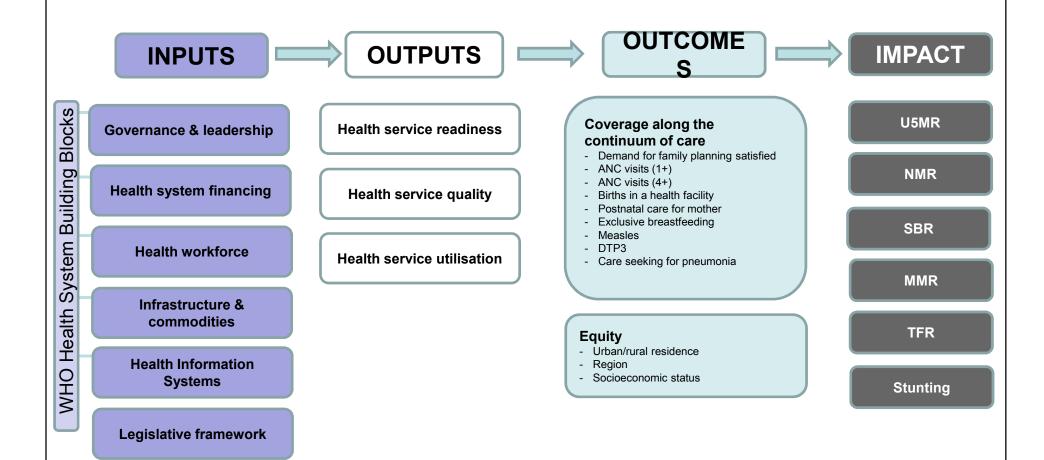
However...

- Neonatal mortality (21.4 deaths per 1000 lives births*) makes up 40% of all deaths in children less than 5 years.
- □ Tanzania is off track to achieving MDG 5 with a MMR of 410 deaths per 100 000 live births (2013 UN estimates).



Tanzanian mothers and newborns are being left behind

Evaluation Framework

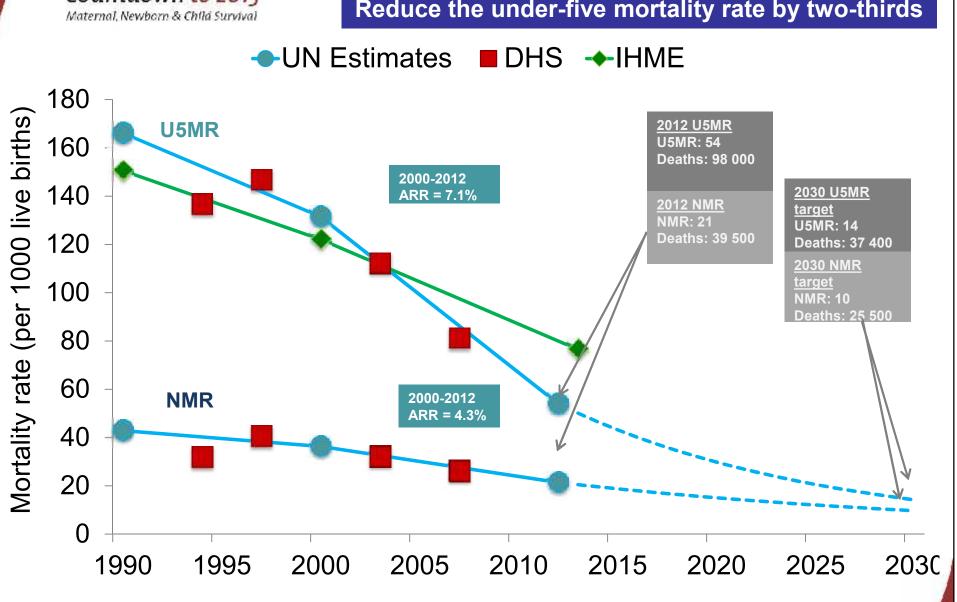


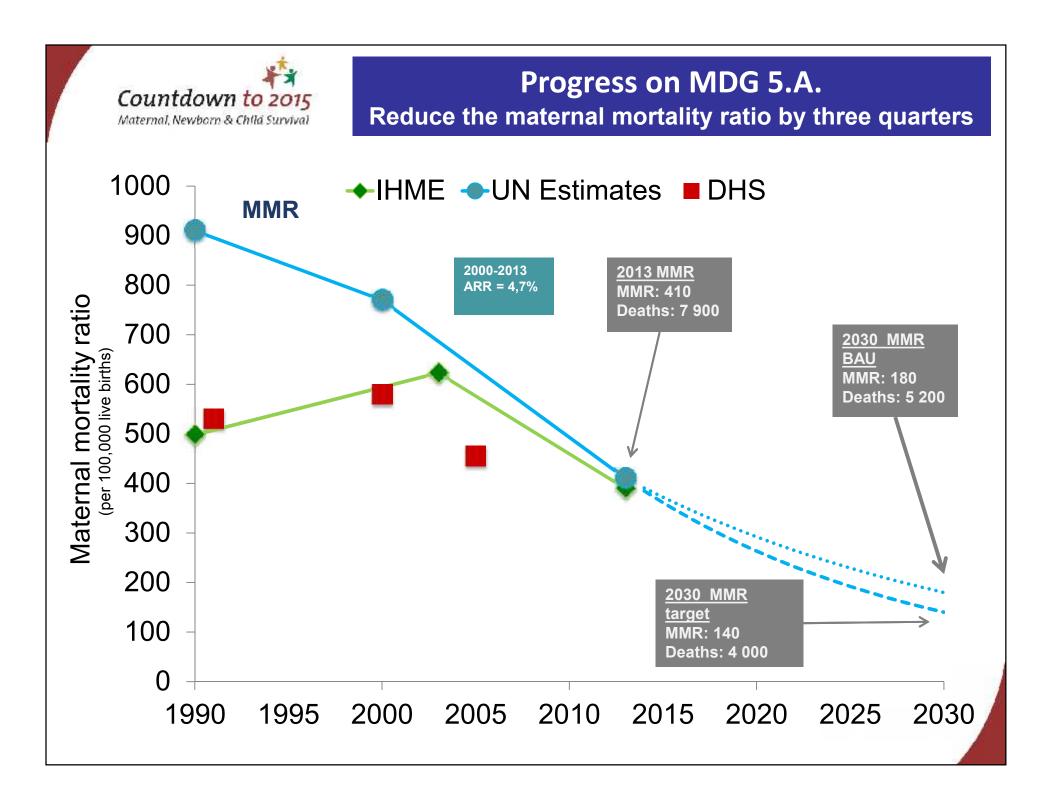
Contextual factors

including non-health system determinants
- Economic growth, female literacy-



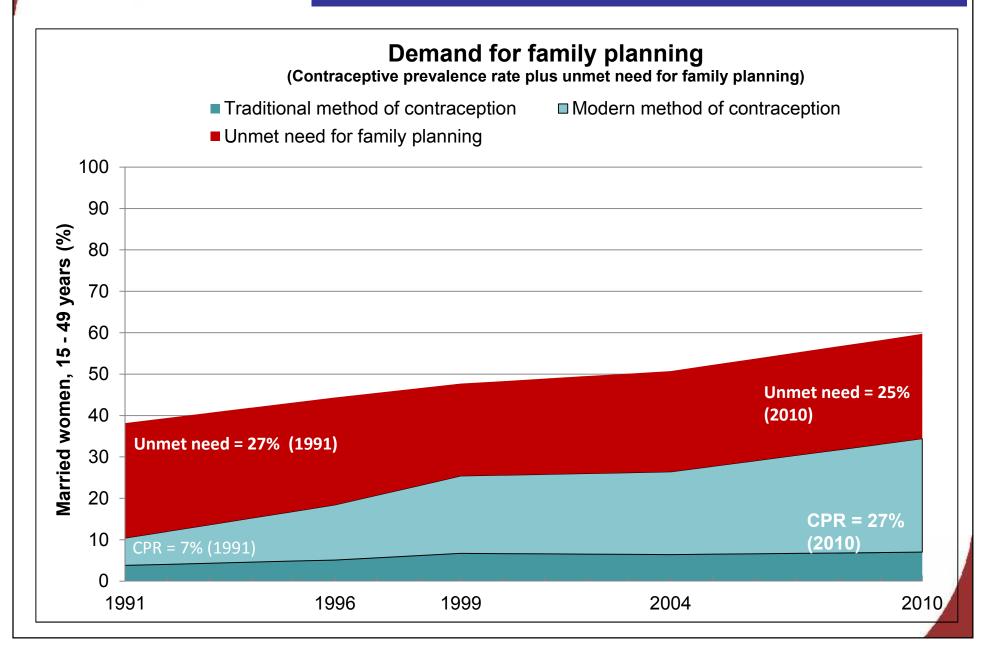
Progress on MDG 4 Reduce the under-five mortality rate by two-thirds







Progress on MDG 5.B. – FAMILY PLANNING Achieve universal access to reproductive health





- Document and critically evaluate the reasons for the mixed progress in maternal, newborn and child survival in Tanzania.
- Accounting for the broader contextual factors when assessing the effects of health system strengthening reforms and RMNCH interventions on impact indicators.
- Focus on coverage, equity, financing and health system and policy (the 4 focus areas for Countdown to 2015)









Systematically evaluate trends in maternal, newborn and child mortality in Tanzania since 1990, considering contextual changes.

Objective 2

Examine the health system, through a standardized analysis of Reproductive, Maternal, Newborn and Child Health System & Policy, Finance and Workforce.

Objective 3

Critically explore the coverage and equity levels for the Commission on Information and Accountability indicators that may contribute to progress, or lack thereof in the: Under-five Mortality Rate; Neonatal Mortality Rate, and Maternal Mortality Ratio.

Objective 4

For the impact indicators **on track** to achieve the MDG's: conduct a retrospective Lives Saved Tool Analysis to identify coverage determinants that may have contributed to this progress in survival.

For the impact indicators **not on track** to achieve the MDG's: conduct an in-depth equity analysis of the pertinent Commission on Information and Accountability indicators, to explore who is being left behind and why.

Objective 5

Highlight the implications of this research through a prospective Lives Saved Tool Analysis that calculates the number of lives that could be saved by addressing the key coverage and equity gaps identify through the analyses above.



Systematically evaluate **trends** in maternal, newborn and child mortality in Tanzania since 1990, considering **contextual changes**.

Average annual rate of reduction	1990 – 2012 or 13	2000 – 2012 or 13
Under-five mortality rate (2012)	5.0%	7.1%
Children 1- 59 months mortality rate (2012)	5.9%	8.5%
Neonatal mortality rate (2012)	3.1%	4.3%
Maternal mortality ratio (2013)	3.4%	4.7%

- Tanzania is on track for MDG4 (child survival), with rapid child mortality reduction in last 10 years.
- Improvements for newborn survival have been slower, with insufficient progress towards MDG5.



Examine the health system, through a standardized analysis of Reproductive, Maternal, Newborn and Child **Health System & Policy, Finance and Workforce**

Health Finance

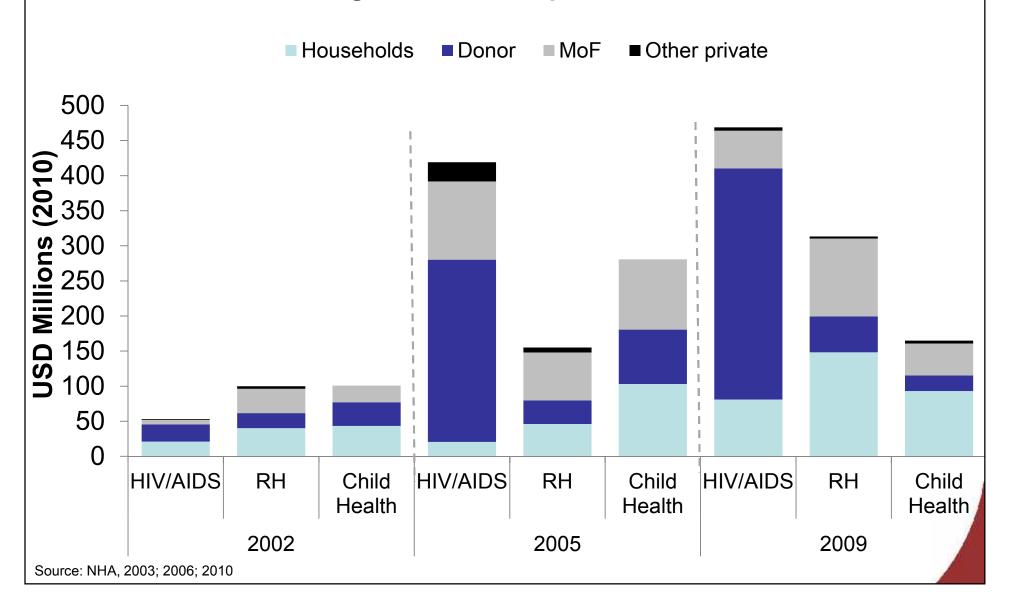
Health sector finance doubled in the last decade, with increased reliance or
external donors. Abuja target has not been met.

Child health and HIV received substantially more donor funding than maternal, and particularly newborn health 2003-2010.



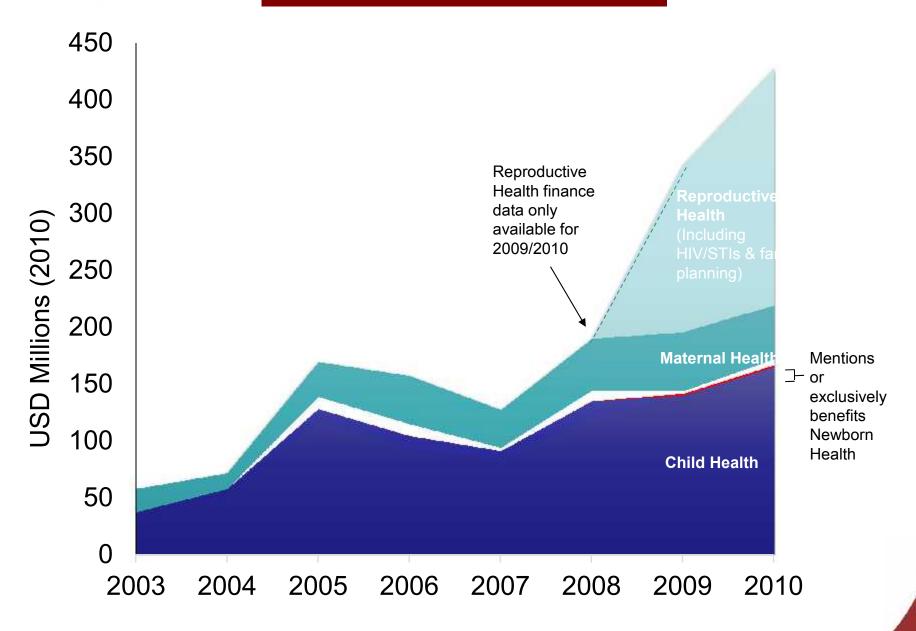
National Health Accounts

Trends in funding sources to Reproductive and Child Health





DONOR FUNDING







Examine the health system, through a standardized analysis of Reproductive, Maternal, Newborn and Child **Health System & Policy, Finance and Workforce**

Investments, policy inputs and implementation:

Health Finance

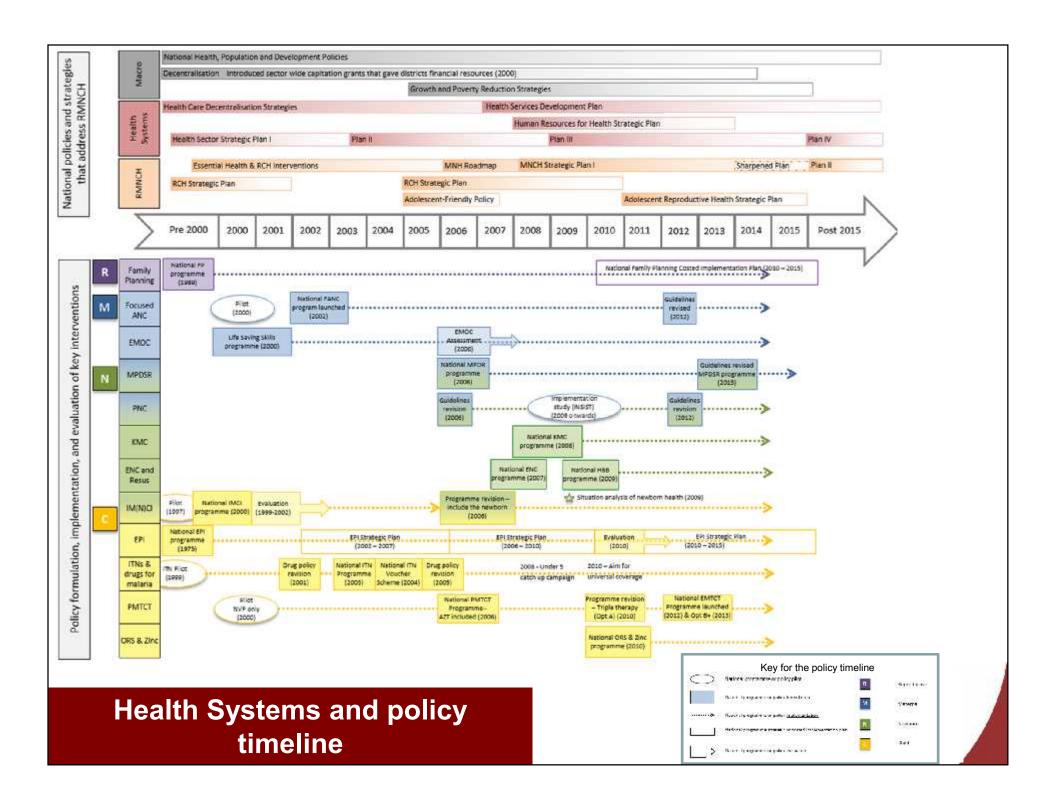
- Health sector finance doubled in the last decade, with increased reliance on external donors. Abuja target has not been met.
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Health Workforce

Chronic health workforce crisis exists with urban/rural inequities.

Health Policy

An increasingly complex policy environment with proliferating national policies not always linked to implementation, especially for maternal health.





Health policies dashboard for tracer indicators

Policy not available
Policy partially available
Policy available

Poli	cy Tracer Indicators	Pre-2000	2001-2005	2006 - 2010	Post -2010
R	Laws or regulations that allow adolescents to access contraceptives without parental or spousal consent				
200	Legal status of abortion (X of 7 circumstances)	1/7	1/7	1/7	1/7
М	Midwives authorized for spec <mark>i</mark> fic tasks (X of 7 tasks)		8/7	7/7	7/7
	Maternity protection (Convention 183)				
	Maternal deaths notifications				
M N	Postnatal home visits in the first week after birth				
N	Kangaroo Mother Care in facilities for low birthweight/preterm newborns				
	Antenatal corticosteriods as part of management of preterm labour				
	International Code of Marketing of Breastmilk Substitutes				
С	Low osmolality ORS and zinc for management of diarrhoea				
Ť	Community treatment of pneumonia with antibiotics*		N/A		N/A

* Case management of pneumonia in Tanzania is provided at prephical health facilities, not in the community.

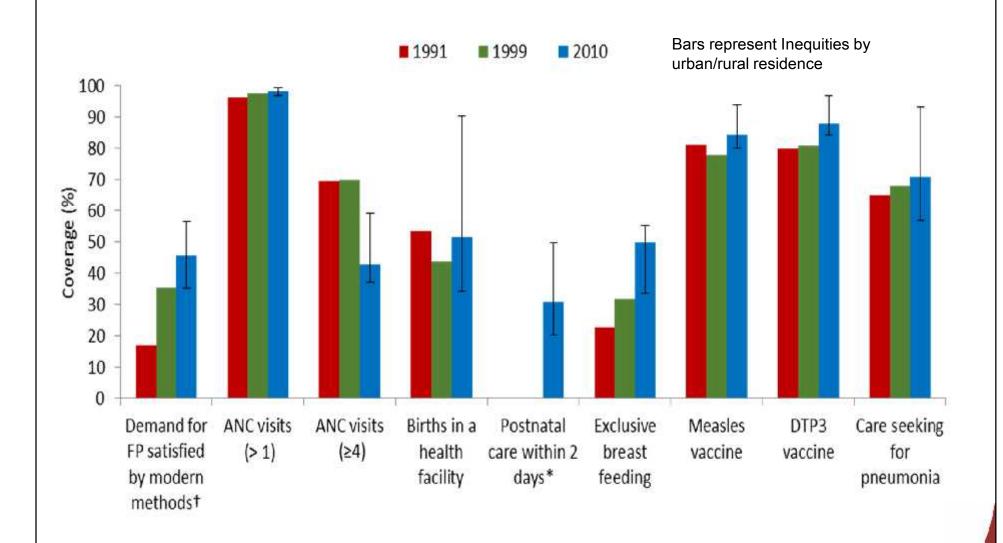


Critically explore the **coverage and equity levels** for the Commission on Information and Accountability indicators that may contribute to progress, or lack thereof in the: Under-five Mortality Rate; Neonatal Mortality Rate, and Maternal Mortality Ratio.

Preventive child health services, especially immunisation, have higher coverage with smaller inequities, compared with curative care services.



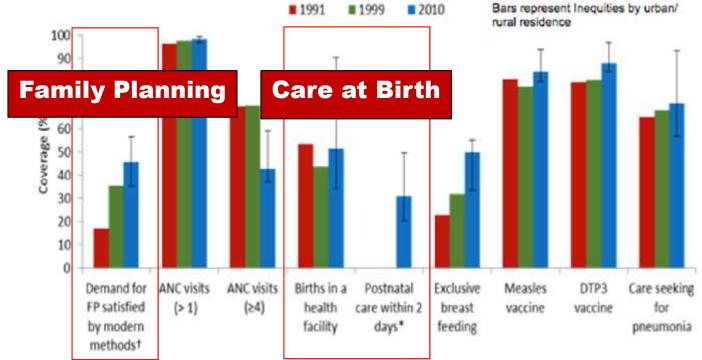
Coverage and Equity





For the impact indicators **not on track** to achieve the MDG's: conduct an in-depth equity analysis of the pertinent Commission on Information and Accountability indicators, to explore who is being left behind and why.

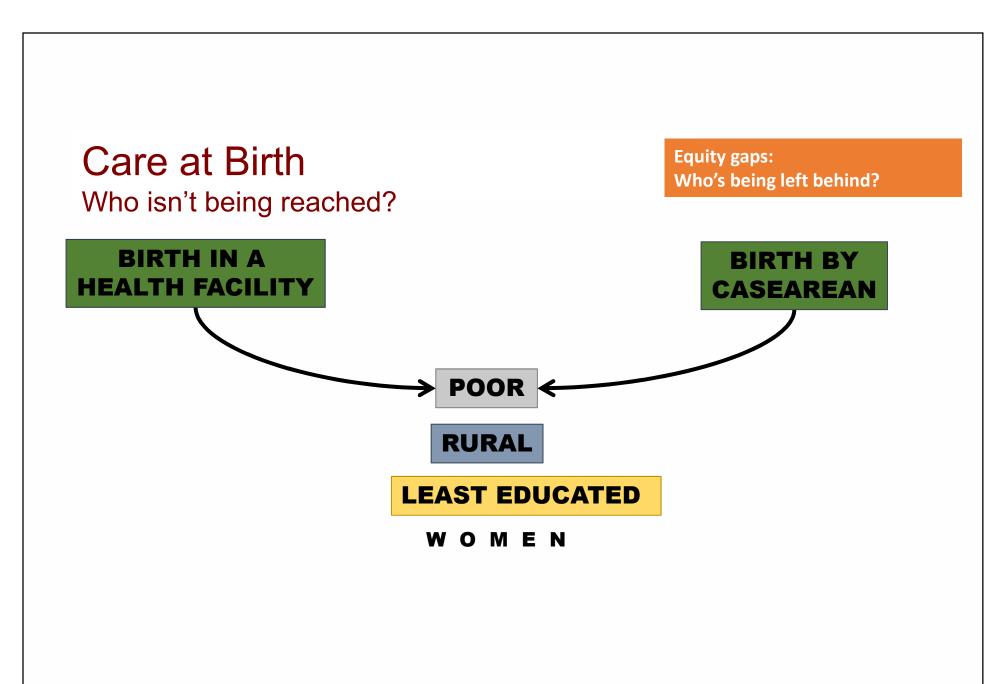
Insufficient progress noted for MMR, NMR, SBR and TFR therefore indepth equity analyses were performed for demand for family planning and care at birth.



Family Planning Who isn't being reached?

Equity gaps: Who's being left behind?

TANZANIA WOMEN **FROM THE WESTERN & LAKE ZONE** Northern Central MWANZA, MARA, Eastern **SHINYANGA, KIGOMA &** Southern Highlands **TABORA** Southern 20 dinema





For the impact indicators **on track** to achieve the MDG's: conduct a retrospective Lives Saved Tool Analysis to identify coverage determinants that may have contributed to this progress in survival.

Retrospective LiST suggested that 140,300 U5 deaths were averted in 2012 compared to 2000.

- U5 child mortality; around 39% of the mortality difference is accountable to changes in coverage of interventions. Highest impact interventions are immunisations, ITN bednets, and HIV interventions including PMTCT and ART.
- Newborns; the most effective interventions contributed 76% of lives saved in 2012 – these were skilled birth attendance and emergency obstetric care (29%), essential newborn care and neonatal resuscitation (19%), case management of severe neonatal infections (11%), Antenatal corticosteroids for preterm births (11%), and KMC (6%).
- Maternal; majority of lives saved due to skilled birth attendance and emergency obstetric care (73%). Small effects from active management of third stage labour (9%) and clean birth practices (8%).

Drivers of Progress for RMNCH in Tanzania

Reflect a complex interplay between global and national attention, funding flows and variable focus on implementation, with faster progress for interventions with more funding and with universal consistent national leadership and feasibility of implementation at lower levels of the health system.

- Child health programmes focused on high-impact interventions and used lower levels of the health system to reach high coverage.
- Despite its high political priority, maternal health care implementation has been less consistent and not at wide scale.
- Newborn survival only gained attention after 2005 and quickly focused on highimpact interventions for the leading causes of death (e.g. neonatal resuscitation, KMC and Essential Newborn care).
- Family planning had consistent policies but has had more recent reinvestment in implementation.

Prospective LiST Analysis

Implications for the last push towards the MDGs and then beyond 2015

Lives Saved Tool suggests **18,400 Tanzanian** lives could be saved by the end of 2015 if we:

- (i) address unmet need for family planning especially in Lake and Western Zones;
- (ii) close gaps for coverage and quality of care at birth especially for rural births; and
- (iii) continue the progress for child health.

With universal coverage of RMNCH care by 2030, deaths of Tanzanian mothers, newborns, children as well as stillbirths could be reduced by over 80%, saving **60,000** lives per year.

Prospective LiST Analysis

Estimated lives saved by the end of 2015 if the accelerated plan is acted on nationally and by 2030 with universal coverage

	SHARPENED ONE PLAN By end of 2015 with faster progress for the 3 priority strategies at national level			UNIVERSAL COVERAGE By 2030 with 95% coverage of MNCH care + family planning demand satisfied	
	Reduction (%)	Mortality rate	Lives saved	Reduction (%)	Lives saved
Under-five deaths	25%	46	14,500	84%	45,000
Neonatal deaths	31%	16	9,400	89%	22,000
Deaths 1-59 months	21%	30	5,100	80%	23,000
Maternal deaths	30%	382	1,400	83%	3,600
Stillbirths	22%	20	2,500	76%	11,400
Total lives saved			18,400	81%	60,000

Outputs from the Countdown Case Study

INFORMED THE FOCUS OF THE SHARPENED ONE PLAN (2014-2015) KEY
FINDINGS
LAUNCHED
BY
PRESIDENT
KIKWETE

TO ALL
REGIONS WITH
THE
SHARPENED
ONE PLAN &
SCORECARDS



What is the research agenda for Tanzania's mothers, newborns, children and adolescents?





SCIENTIFIC
PAPER TO BE
PUBLISHED IN
THE LANCET
GLOBAL
HEALTH IN
JUNE 2015

PAPER
FOCUSING
ON SUBNATIONAL
ANALYSIS

Research agenda for RMNCH in Tanzania

1. Tanzania selected as 1 of 3 countries internationally to test the Every Newborn Core Metrics.

2.

To be finalised....



Other suggestions...?





EVERY NEWBORN

An Action Plan To End Preventable Deaths

Measurement Improvement Roadmap

April 2015







Every Newborn Series

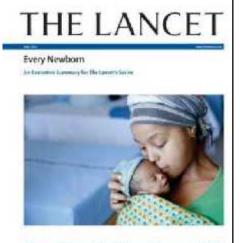
5 papers

6 comments

55 authors from 18+ countries

60+ partner organisations





"A healthy start is central to the human life course, with birth holding the highest risk of death, disability, and loss of development potential, leading to snajor societal effects."

Main funders: Bill & Melinda Gates Foundation, USAID, Children's Investment Fund Foundation

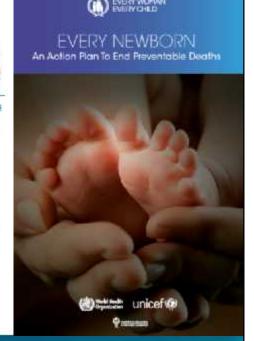
Every Newborn Action Plan

Based on the evidence from the Series Co-led by UNICEF & WHO,
Consultation >60 country governments >80 organisations, >1000 individuals
World Health Assembly 2014 resolution
Launched June 2014

Now to action in many countries...

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THE LANCET

2030

End
Preventable
Maternal
and
Newborn
Deaths
including
Stillbirths

Metrics testing and use in countries

for programme improvement and accountability





World Health Assembly

May/June 2014

Process including a WHO meeting to scope ENAP metrics definitions, research gaps

Sep-Dec 2014

REFINE

Consult, refine Roadmap to improve ENAP metrics , map current work etc

Jan-Sept 2015

TEST

Testing indicators and tools in countries, and in various data platforms (CVRS, audit facility HMIS, surveys)

Oct 2015- Sept 2018

DATA LINKAGE

Wide use in countries, linking data sources. testing E-health-based min perinatal dataset

2020

Oct 2018- Sept 2020

ENAP Milestones regarding measurement to be met by 2020

- Count births and deaths in CVRS (women, newborns and stillbirths)
- Minimum perinatal dataset & perinatal mortality audit being widely used in countries
- ENAP core indicators to be defined, incorporated in national metrics platforms and widely used

of data in national health information systems to improve coverage, quality and equity

Effective use

Table 1: Core and additional indicators to track progress of Every Newborn Action Plan

Current status		Core ENAP Indicators	Additional indicators	
		1. Maternal mortality ratio		
		2. Stillbirth rate	Intrapartum stillbirth rate	
		3. Neonatal mortality rate	Low birth weight rate	
Definitions clear – but quantity and consistency of data lacking	Impact		Preterm birth rate Small for gestational age Neonatal morbidity rates Disability after neonatal conditions	
Contact point definitions clear but data on content of care are lacking	Coverage: Care for All Mothers and Newborns	 Skilled attendant at birth Early postnatal care for mothers and babies Essential newborn care (tracer is early breastfeeding) 	Exclusive breastfeeding up to 6 months	
Gaps in coverage definitions, and requiring validation and feasibility	Coverage: Complications and Extra Care	 Antenatal corticosteroid use Neonatal resuscitation Kangaroo mother care Treatment of severe neonatal infections 	Caesarean section rate Chlorhexidine cord cleansing	
testing for HMIS use	Input: Service Delivery Packages for Quality of Care	Emergency Obstetric Care Care of Small and Sick Newborns Every Mother Every Newborn Quality Initiative with measurable norms and standards		
	Input: Counting	Birth Registration	Death registration, cause of death	

Shaded= Not currently routinely tracked at global level

Bold red= Indicator requiring additional testing to inform consistent measurement

Indicators to be disaggregated by equity such as urban/rural, income, and education

Adapted from WHO and UNICEF, Every Newborn Action Plan. WHO, 2014. www.everynewborn.org and Mason et al Lancet 2014

www.everynewborn.org #EveryNewborn

3 countries as hubs for testing Every Newborn core metrics



Validation and feasibility testing for facility-based coverage data Also tools such as audit, min perinatal dataset, simplified gest age assessment etc

Also opportunities to test similar questions in other countries and with other organisations.

Coordinated approach will yield the fastest collective progress



Networks for metrics testing and use in a range of contexts, with leadership from high burden countries

Mortality and population-based data



INDEPTH Maternal & Newborn Interest Group 20+ sites in Africa and Asia, led by Makerere University, Uganda

- Population-based pregnancy surveillance of births, stillbirths, neonatal deaths.
- Opportunities to advance validation of pregnancy history modules, verbal autopsy, improved LBW assessment etc.

"Beyond newborn survival" data

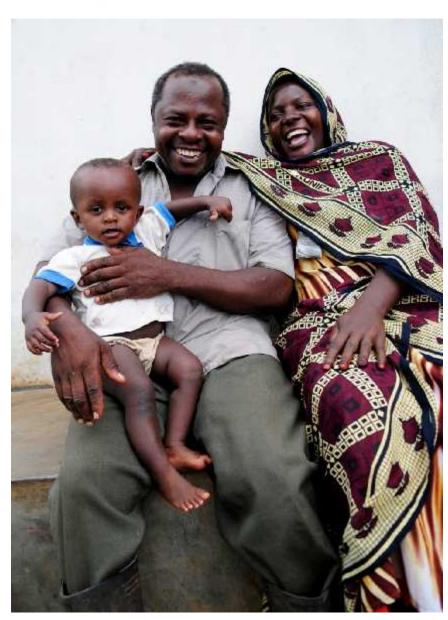


Department of Pediatrics, All India Institute of Medical Sciences, New Delhi, India

With UNICEF and other partners in India and beyond

- Follow up at risk newborns by varying levels of health care
- Opportunities to validate and test feasibility of follow up, screening for disability, ROP and models to improve care





Thank you!