



A Decade of Change for Newborn Survival



Launch of a supplement in *Health Policy and Planning*

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Save the Children



Editorial – Gary Darmstadt, David Oot, Joy Lawn

1. Overview and quantitative analysis:
 - Trends for neonatal mortality rates and causes
 - Multi-country modeling to understand predictors
 - Financial analyses
 2. Benchmarking readiness for scale up of newborn care
 3. Bangladesh
 4. Nepal
 5. Pakistan
 6. Malawi
 7. Uganda
- Country case studies with in-country expert teams

Over 150 contributors

More than 60 authors and an additional 90 in-country health experts contributed over a 3 year period



1. Change around the world 2000 to 2010

- Rates of neonatal mortality change, understanding change
- Progress for reducing the main killers of newborns

2. Change in countries, focus on 5 case studies

- Changes in context,
- Coverage of care,
- Health systems and policy
- Health financing

3. Changing the trajectory for our future



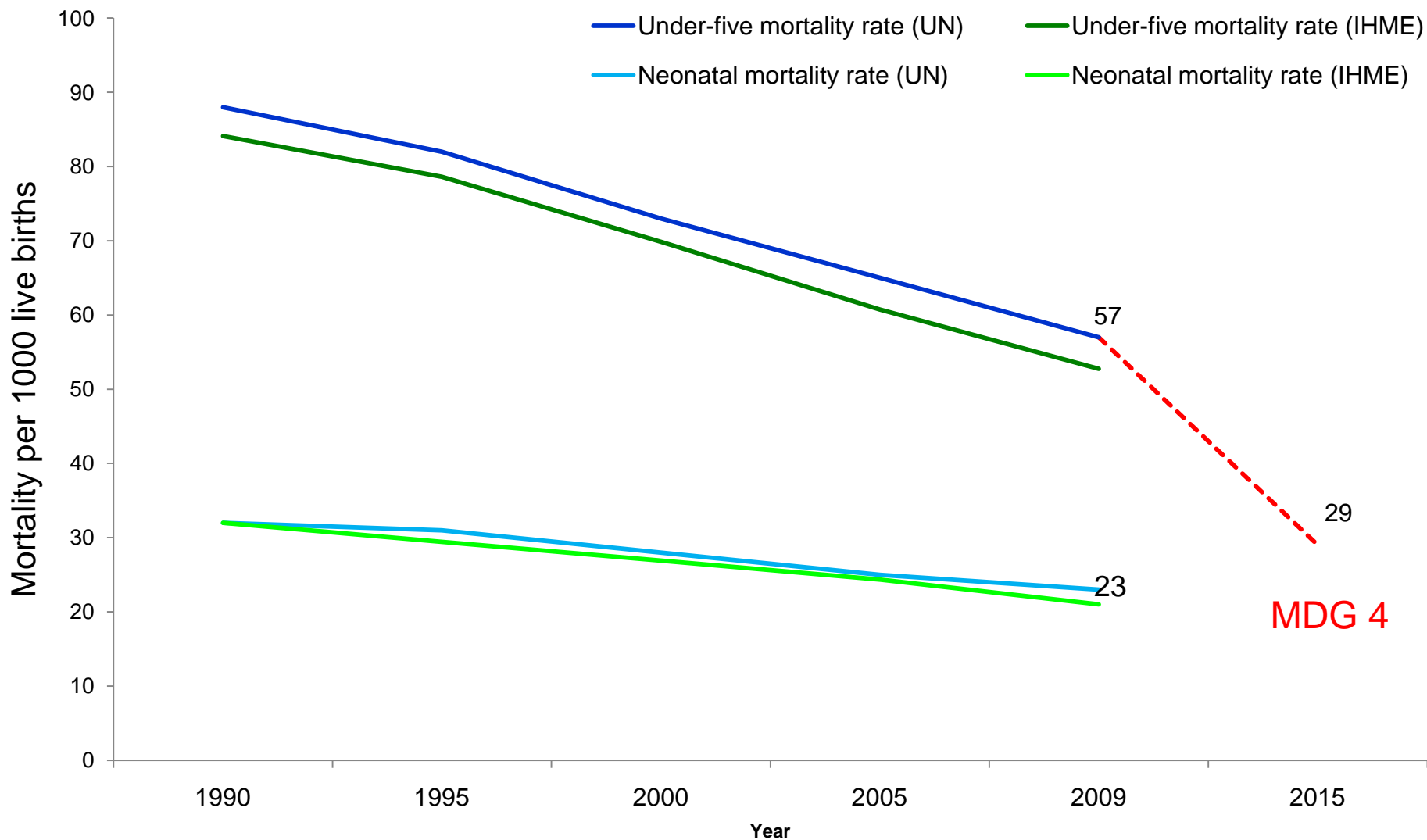
Focus on change in countries

Looking back to look forward,

Identifying potential accelerators for change



Global Progress to MDG 4 for child survival



3.1 million neonatal deaths, 40% of all under-five deaths

Global average annual rate reduction

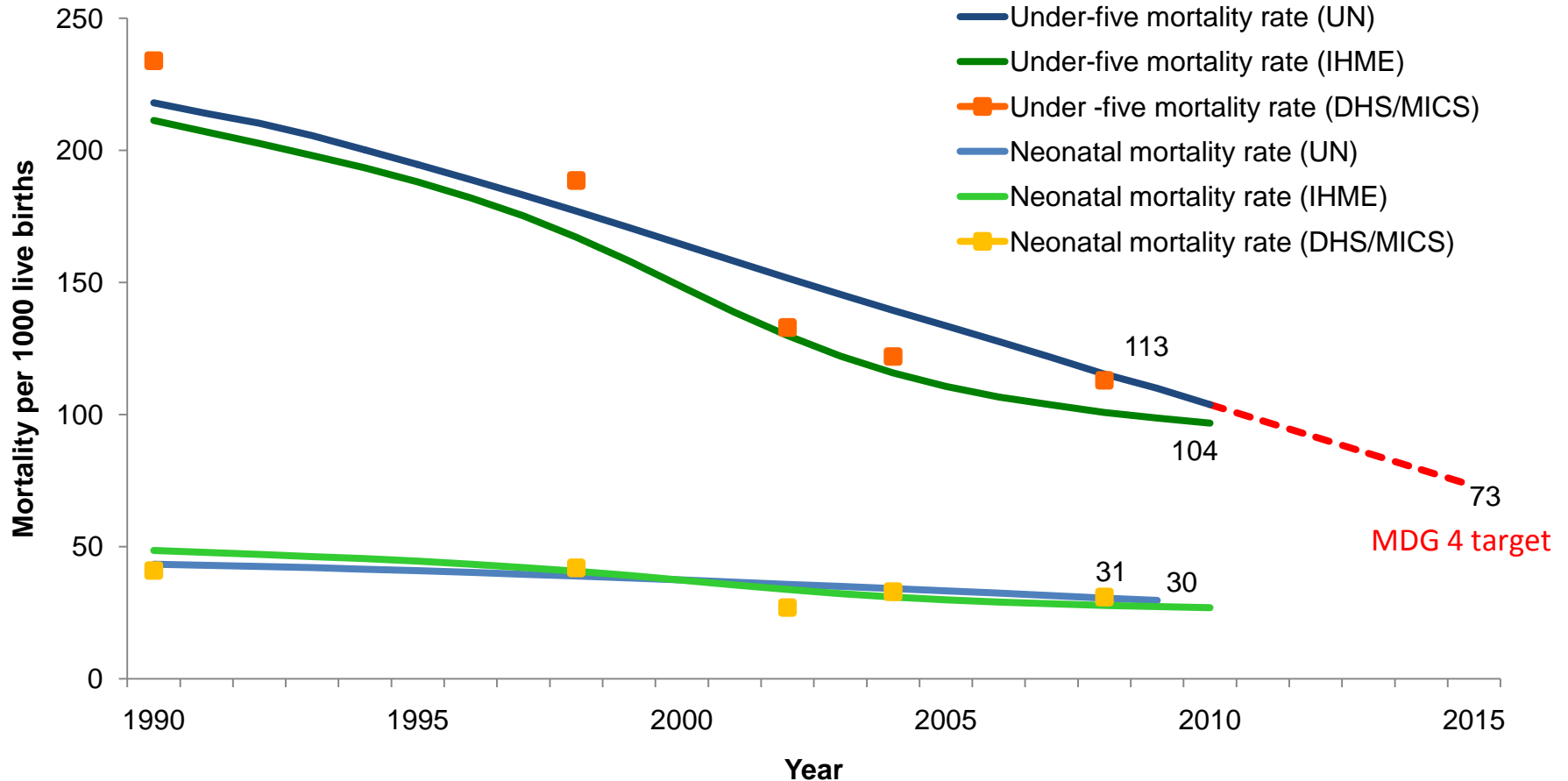


Maternal mortality ratio = 4.2%
1- 59 month mortality rate = 2.5%
Neonatal mortality rate = 1.8%

All 3 measures show increased progress since 2000

REGION	Neonatal Average a	WHEN WILL ALL REGIONS REDUCE NMR TO THE CURRENT RATE OF HIGH INCOME COUNTRIES (3 per 1000)?
Africa	< 1%	2165
Eastern Mediterranean	1.5%	2115
Southeast Asia	2.2%	2085
Western Pacific	3.3%	
Americas	3.4%	2040
Europe	3.5%	

Not all countries are the same Malawi is on track for MDG 4



NMR reducing at 3.5% per year, double the regional average
Only a handful of national paediatricians!



DECADE OF CHANGE

Where?

Changes for countries with highest numbers of neonatal deaths

	2000	2010
India	1	1
Nigeria	3	2
Pakistan	4	3
China	2	4
DR Congo	6	5
Ethiopia	7	6
Bangladesh	5	7
Indonesia	8	8
Afghanistan	10	9
Sudan	(12)	10
Brazil	9	(14)

2 million
neonatal
deaths
in 2010

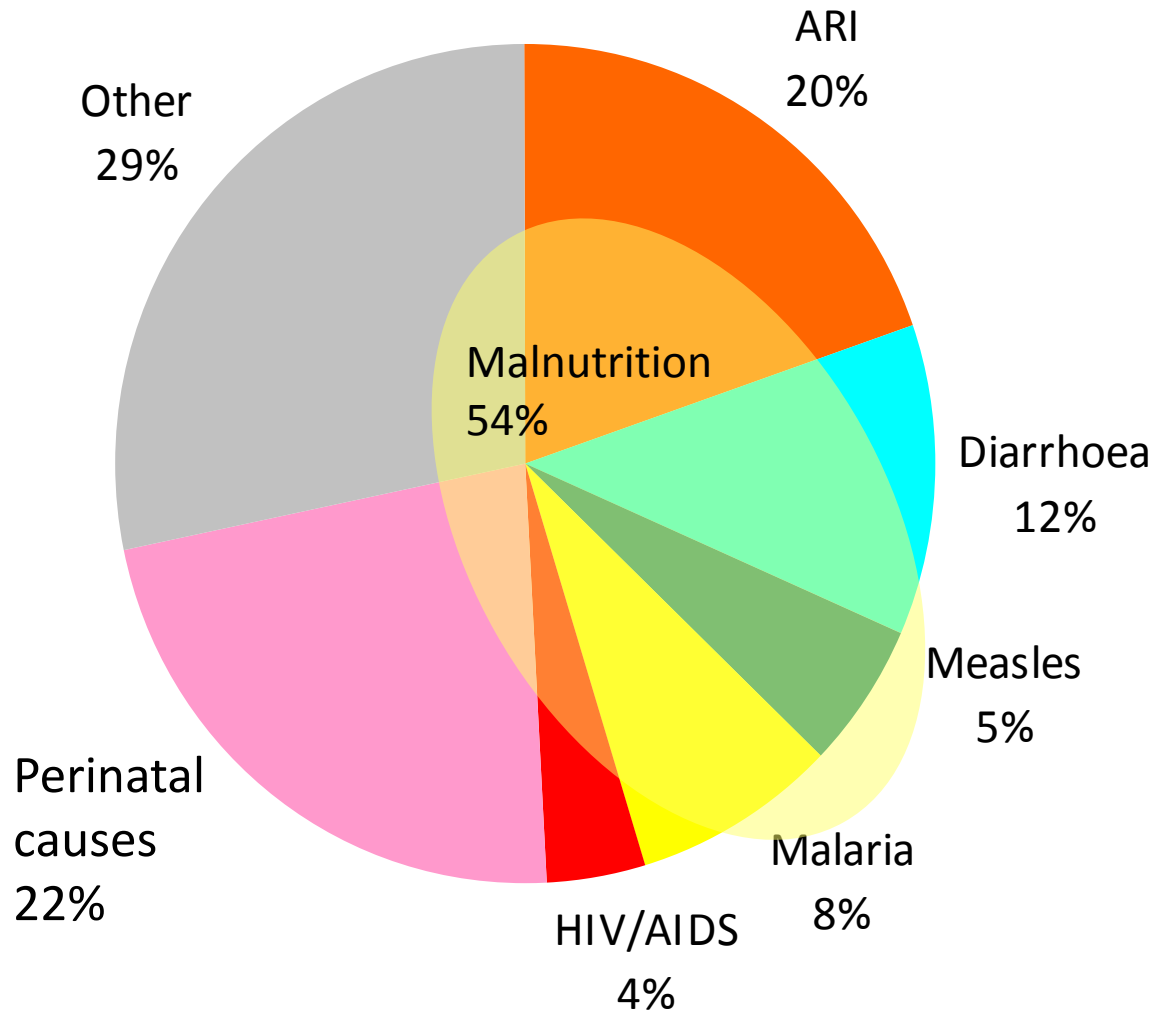
Two thirds
of global
total

Fastest
progress by
addressing
family
planning

AND

newborn
survival

Global causes of child death for 2000



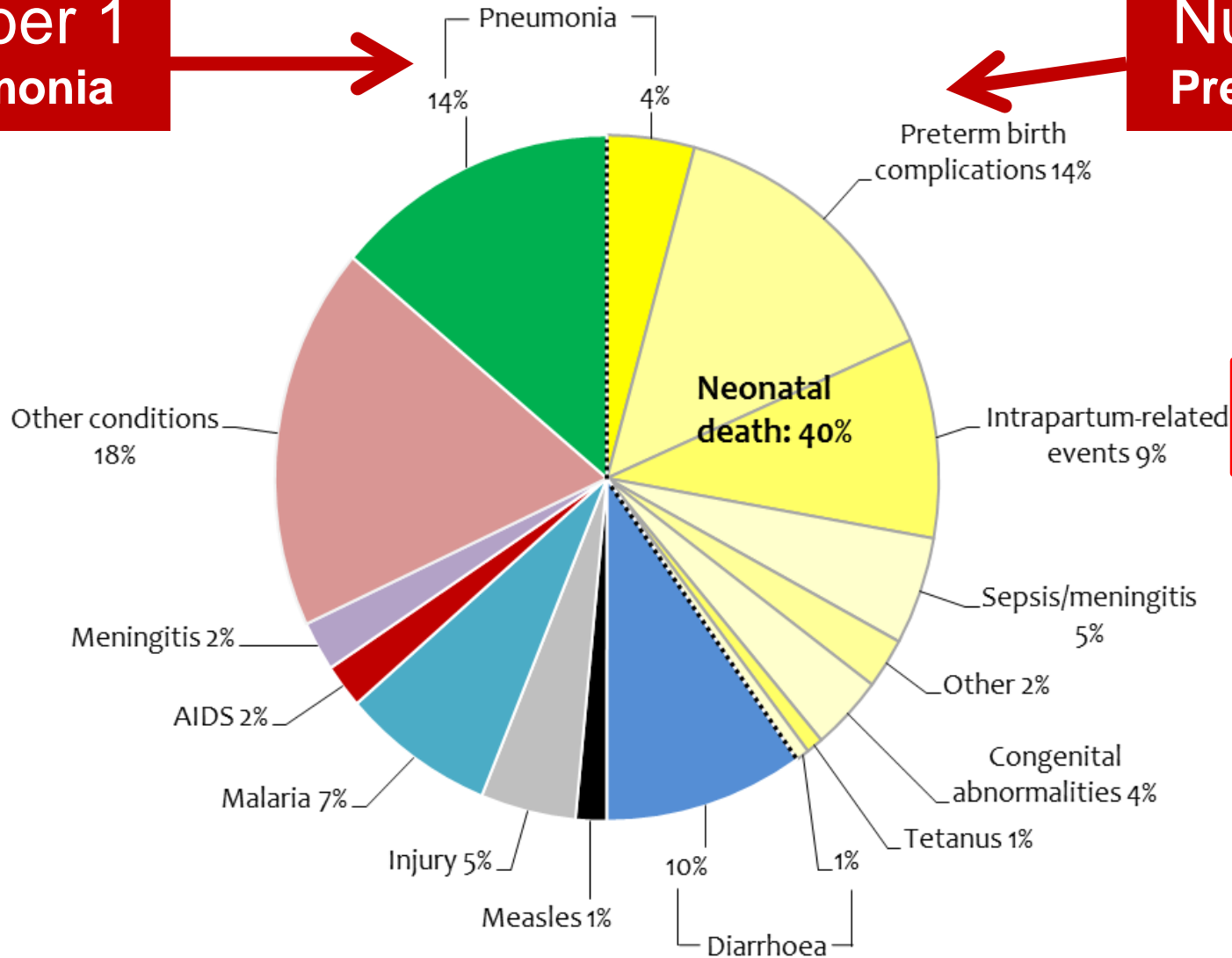
Newborn deaths invisible in 2000

Estimates did not include specific neonatal causes, and were placed within the categories of perinatal causes and other causes

Global causes of child death for 2010

**Number 1
Pneumonia**

**Number 2
Preterm birth**



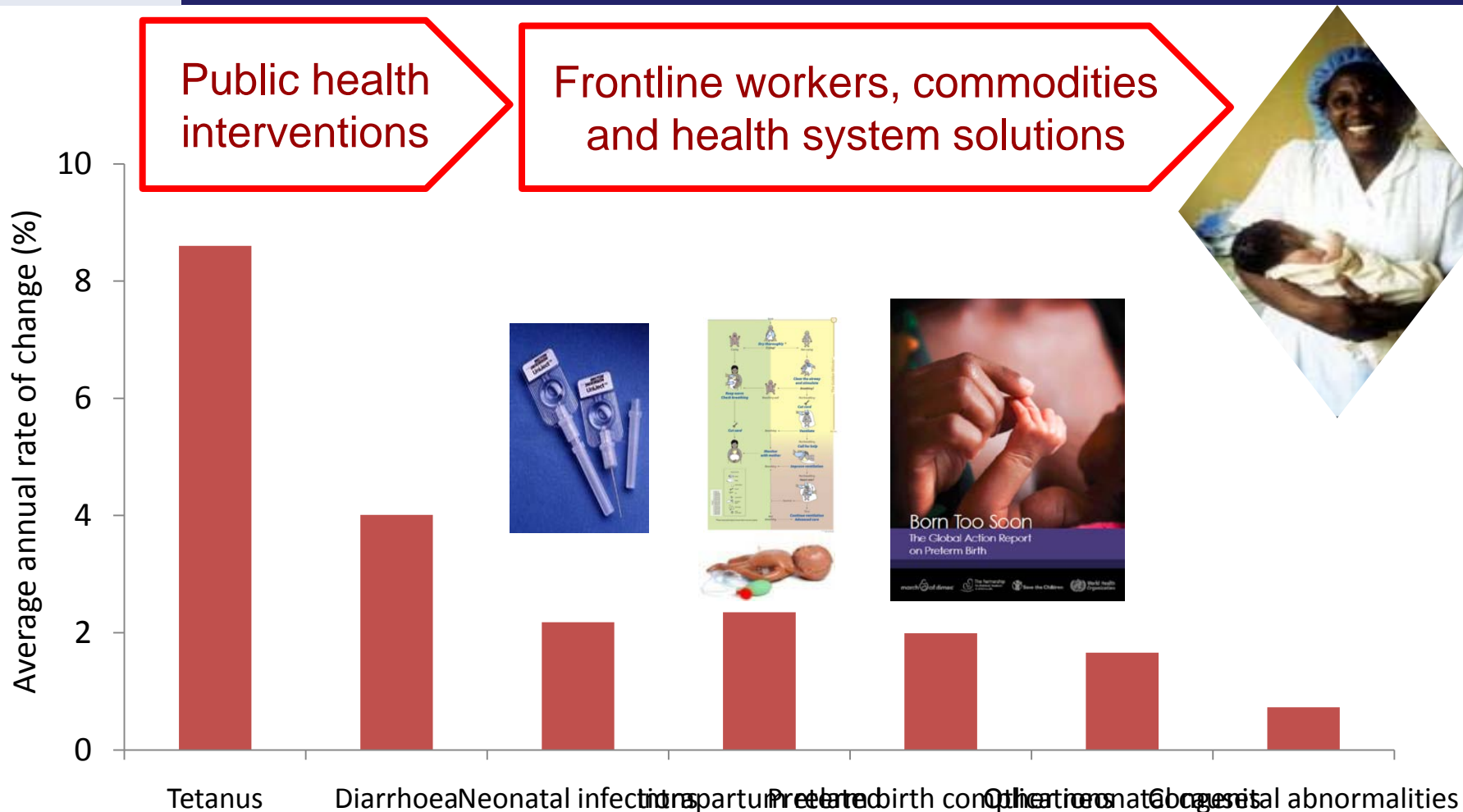
1,077,800

717,200

713,000

Source: Liu et al. 2012. Global, regional and national causes of child mortality in 2000-2010: an updated systematic analysis. The Lancet. DOI:10.1016/S0140-60560-1.

Average annual rate of change for causes of neonatal deaths 2000-2010



67% of neonatal deaths

Change around the world



Change in countries

Understanding neonatal mortality change, 2000-2010

144 countries, multiple regression modeling



Developed region

3% reduction per year

Consistently rapid neonatal mortality reduction across countries

Strongest predictors of NMR change

- Increased national income
- Reduced fertility

Other regions

3.2% reduction per year

Variable change in mortality reduction across countries

Strongest predictors of NMR change

- Reduced fertility
- Baseline level of neonatal mortality

Sub-Saharan Africa






1.5% reduction per year

Mortality reduction so slow, it is difficult to analyze what factors related to change.

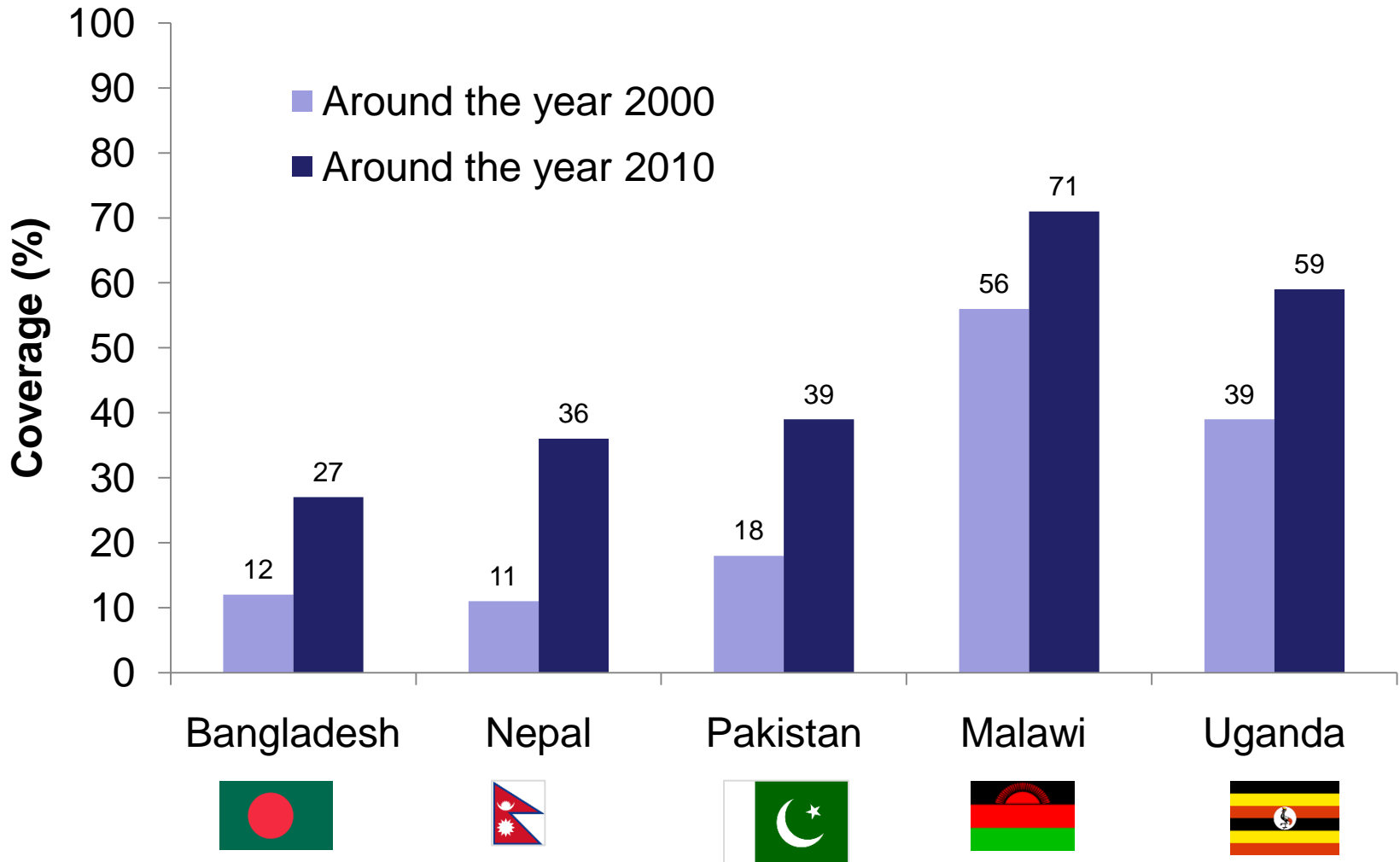
Countries with increased contraceptive use have progressed more in reducing newborn deaths

Mortality reduction progress cannot be attributed to changes in coverage of care due to slow changes in coverage and lack of coverage data.

Some countries are “bending the curve” for newborn survival against the odds

		MDG 4	MDG 5	Neonatal mortality rate Av annual change 2000-2010
Bangladesh		✓	✓	4.0%
Nepal		✓	✓	3.6%
Malawi		✓	Progressing	3.5%
Uganda		Progressing	Progressing	2.2%
Pakistan		Progressing	Progressing	0.9%

All 5 countries have recently increased coverage of skilled attendant at birth








Facility births – coverage progress but quality gap



Over half of the world's births are in facilities
Increasing rapidly in some countries
HOW TO CLOSE THE QUALITY GAP?

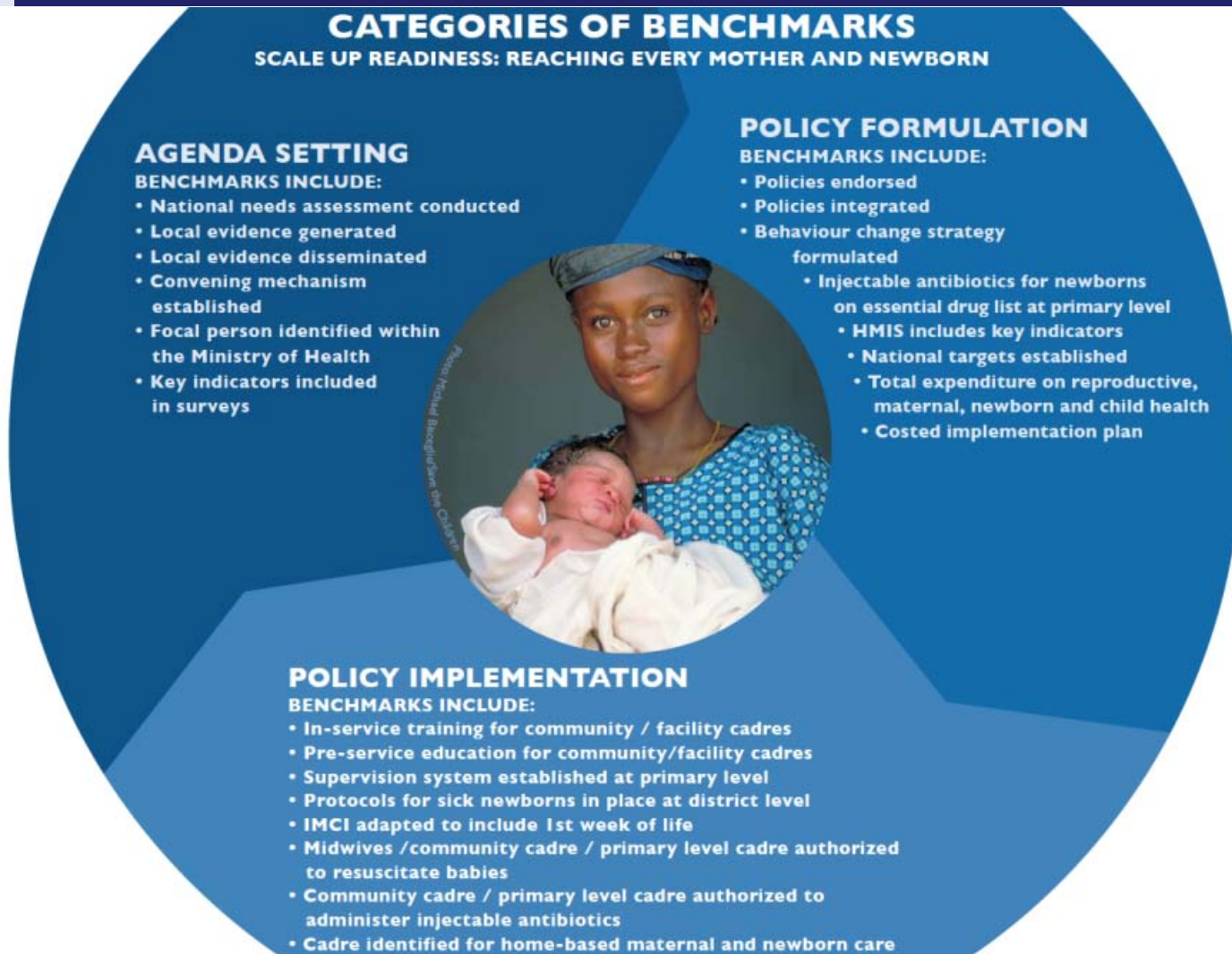
Eg. only 1 in 5 babies born in African hospitals meet an attendant with skills and equipment for neonatal resuscitation

Community based maternal and newborn care is moving in these countries

		Number of districts
Bangladesh		33 / 64
Nepal		25 / 75
Malawi		17 / 28
Uganda		65 / 111
Pakistan		LHWs reach >60% of rural population



27 Benchmarks to assess readiness to scale up care for newborns

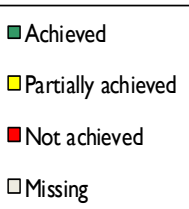
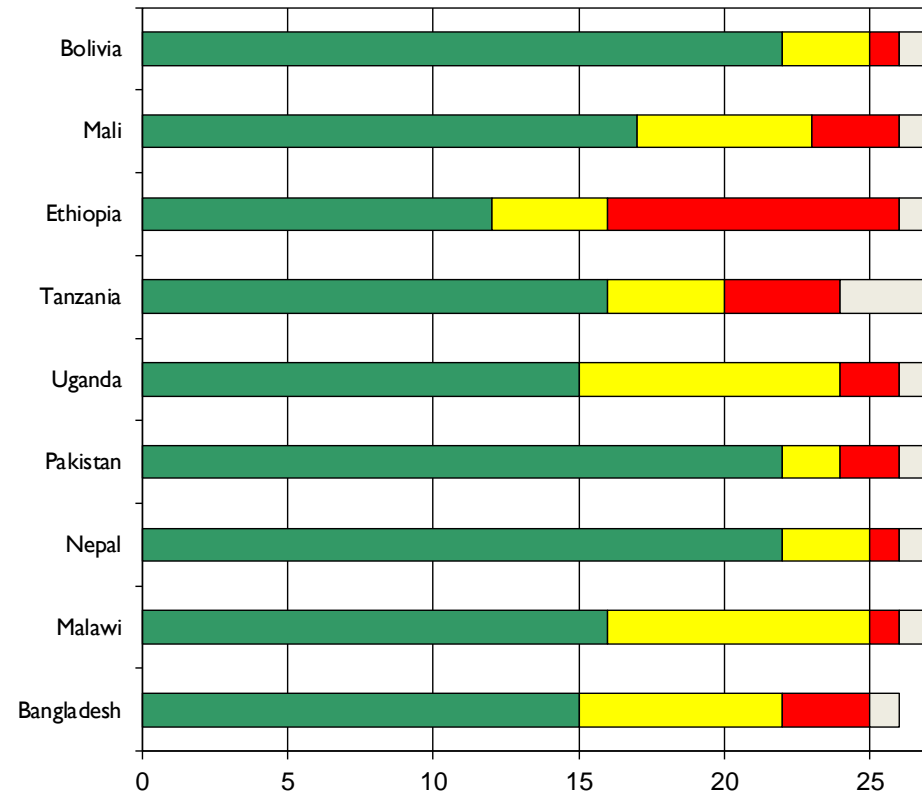
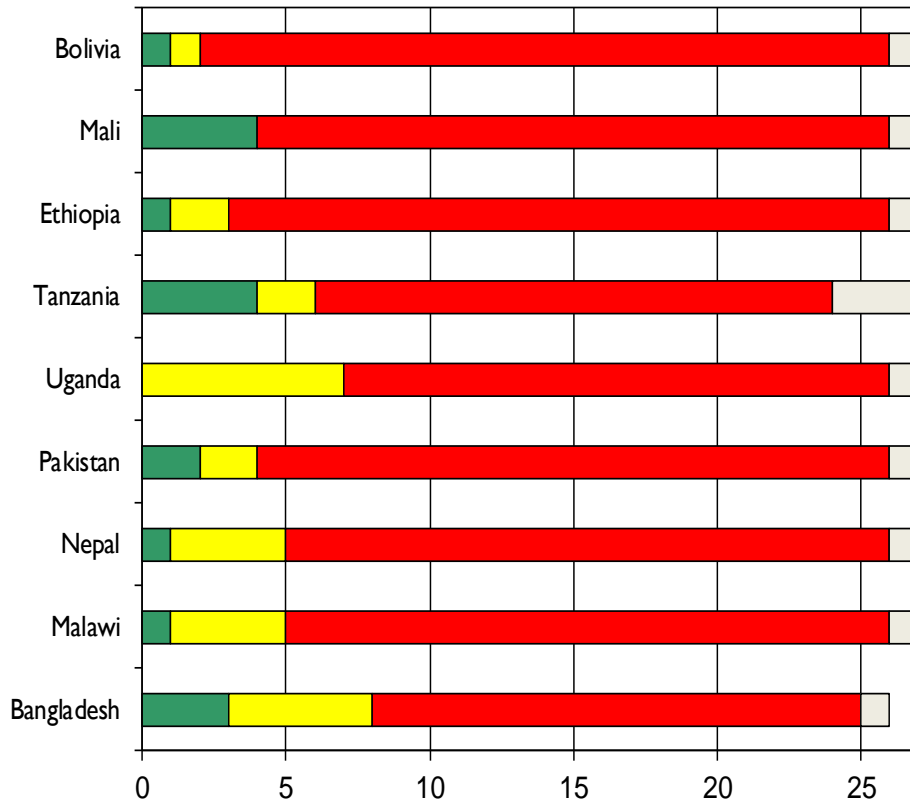


27 Scale up Readiness Benchmarks

Change in countries over time

2000

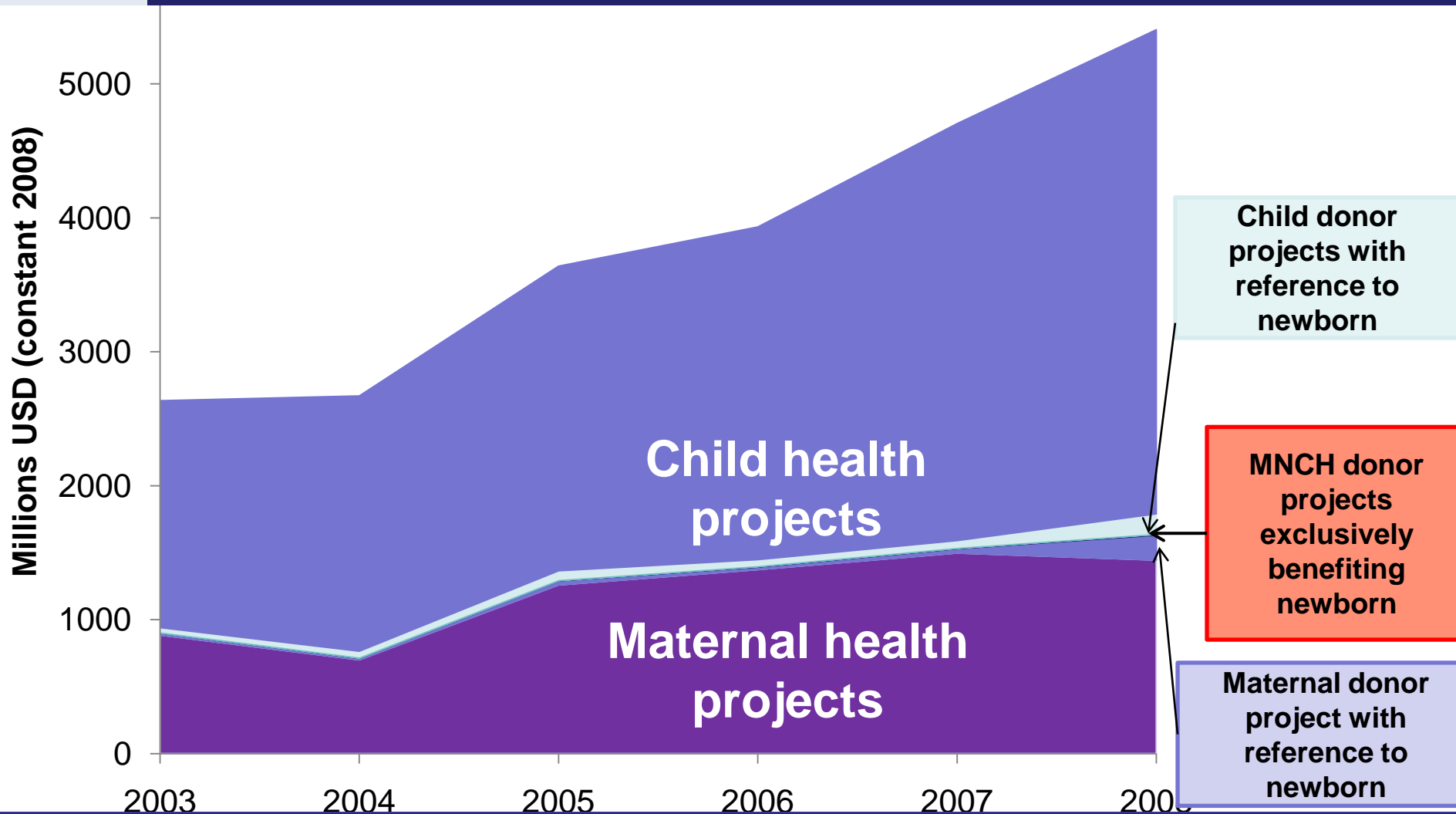
2010



Source: Moran AC et al. 2012. Benchmarks to measure readiness to integrate and scale up newborn survival interventions. Health Policy and Planning. 27(Suppl. 3): iii29-ii39.



Donor aid for MNCH for 68 Countdown priority countries 2003-2008 (constant 2008 US\$)

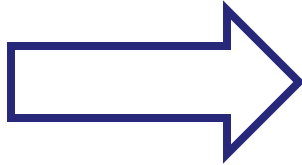


**ODA disbursement for MNCH increasing
but by 2008 just 6% of MNCH funding mentioning newborns**

Stories behind the change in countries

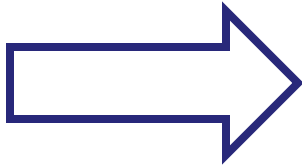
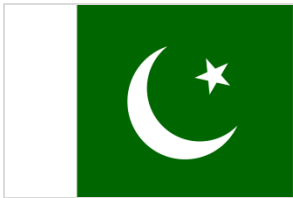
Advocacy, partnerships and convening mechanisms

Bangladesh



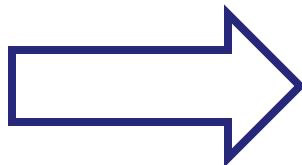
Informal partnerships led by MoH with collaboration from high profile newborn health champions

Pakistan



Informal advocacy by civil society, academia, and donors **became formal** in 2008 with Advocacy and Advisory Network for Newborns

Uganda



Formal convening mechanism
Newborn Steering Committee within MoH
Maternal and Child Health cluster



Newborn survival Changing the trajectory



- **Some countries “bending the curve” for newborn survival against the odds BUT slower than for children aged 1-59 months and for MMR**
- **The 3 main causes of newborn death are starting to reduce and we now have solutions, products poised to move**
- **Facility birth coverage gains BUT quality gap needs urgent attention and crucial newborn care coverage data gaps**
- **Community care, home visit packages are mainly small scale, apart from a few countries, but great potential**

Together we have the tools, funding and opportunity to transform maternal, neonatal and child survival globally – will we deliver?

Accessing and using the information

DOWNLOAD AND USE THE SUPPLEMENT

Full Report FREE ACCESS at *Health Policy and Planning* Website
http://heapol.oxfordjournals.org/content/27/suppl_3.toc?etoc

Summary Fact cards and additional information at the
Healthy Newborn Network:

<http://www.healthynewbornnetwork.org/resource/decade-change-newborn-survival-summary-cards>

Additional materials, resources, powerpoints:

<http://www.healthynewbornnetwork.org/page/decade-change-newborn-survival>

SOCIAL MEDIA

Join the conversation on Twitter **#DecadeOfChange**

