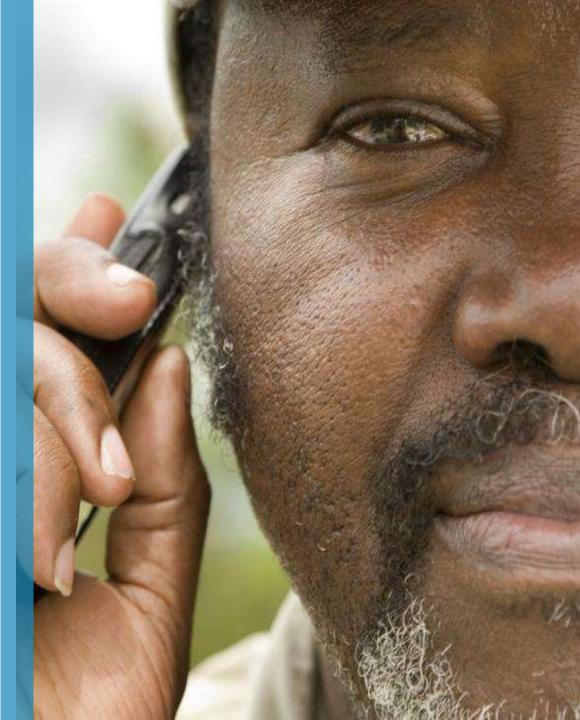


mHealth Alliance

# mHealth for Sexual Reproductive and Maternal Health

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February 15, 2013



## Definition of mobile health or mHealth

Medical and public health practice supported by mobile devices, such as mobile phones, patient monitoring devices, tablets, personal digital assistants (PDAs), and other wireless devices.





7 Billion People

6 Billion Mobile Phone Users

**1 Billion** Mobile Phone Users Have No Healthcare



# Lack of Basic Health Care 1: 250,000

The average ratio between doctors and patients in developing countries.



## Top 10 Causes of Death in Low-Income

#### Countries Lower respiratory infection

- Diarrheal diseases
- HIV/AIDS
- Ischemic heart disease
- Malaria
- Stroke and other heart disease
- Tuberculosis
- Prematurity and low birth weight
- Birth asphyxia and birth trauma
- Neonatal infections



#### mHealth Around the World



83% of WHO member countries reported having at least one mHealth initiative in their country.<sup>1</sup>

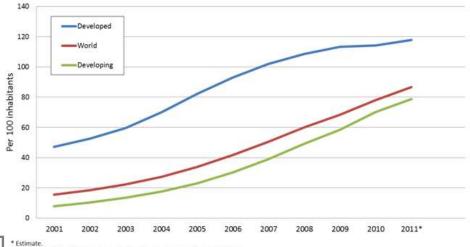
77% of responding low-income countries reported at least one mHealth initiative in their country, making them only ten percent behind high-income countries.<sup>1</sup>

<sup>1</sup>World Health Organization. mHealth: New horizons for health through mobile technologies: second global survey on eHealth. <u>http://www.who.int/goe/publications/goe\_mhealth\_web.pdf</u>.

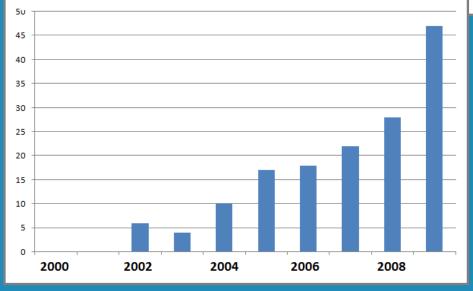
### **Progression of mHealth**

# With the rise in mobile subscriptions worldwide...

Mobile Phone Subscriptions Worldwide, 2001 - 2011\*



Number of mHealth Articles Used in 2010 Literature Review



The developed/developing country classifications are based on the UN M49, see: http://www.itu.int/ITU-D/ict/definitions/regions/index.html

Source: ITU World Telecommunication /ICT Indicators database

... comes a rise in mHealth initiatives in countries around the world. Mobile Technology Changes the Face of Access to Information

# 77%

of mobile subscriptions are in developing countries

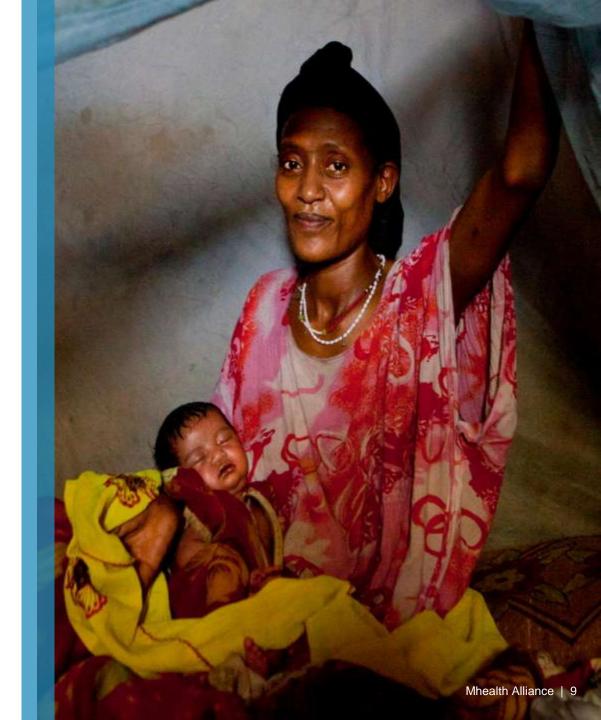
# 75%

of the world now have easier access to a mobile phone than a bank account, electricity, or clean water



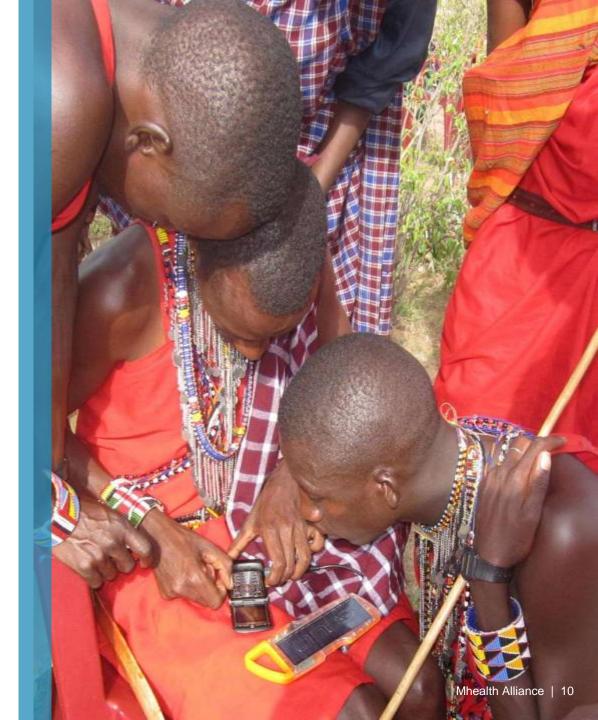
# Informed = Preventable

For hundred of millions of people in developing countries, lack of basic health services is an issue of access to basic information and intervention.



For hundreds of millions of people in developing countries, lack of basic health services is an issue of access to basic information and intervention.

Mobile Devices + Health Information can Effectively and Efficiently help people across the globe.



### How? mHealth is a Cross-Cutting Tool Providing:



Education & Awareness



Healthcare Worker Communication & Training

Diagnostic Treatment & Support



Remote Monitoring

0

Disease & Epidemic Outbreak Tracking



Remote Data Collection

#### **The Potential Impact of mHealth**

Improving quality of care provided by millions of health workers



Providing direct health information and support to citizens

# A holistic and personalized approach to healthcare

#### mHealth Focus Areas

CAUSE OF DEATH

Prematurity, low birth weight and neonatal infections HIV/AIDS

Heart disease

**Tuberculosis** 

**mHEALTH INTERVENTION** 

Maternal and prenatal care

Awareness and testing

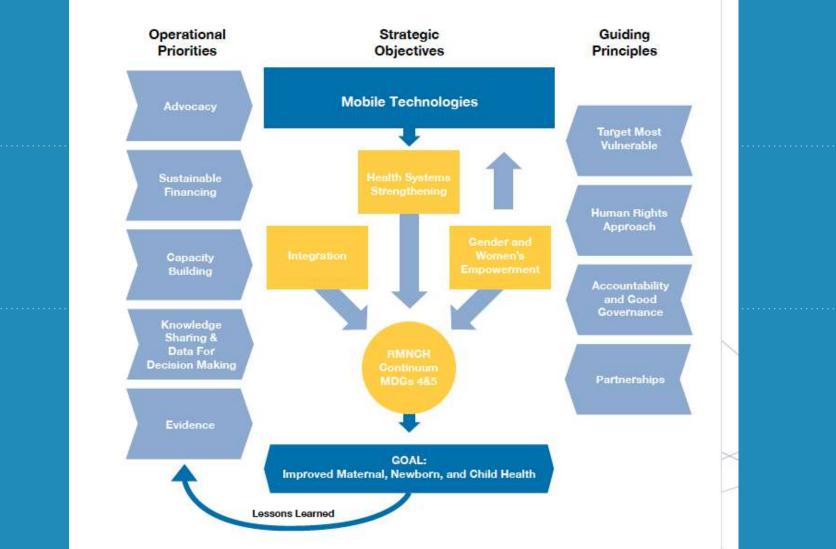
**Smoking cessation** 

Vaccination

#### The Continuum of CARE for SRMH



# **MNCH mHealth Framework**



#### mHealth Focus Areas

CAUSE OF DEATH

Prematurity, low birth weight and neonatal infections HIV/AIDS

Heart disease

**Tuberculosis** 

**mHEALTH INTERVENTION** 

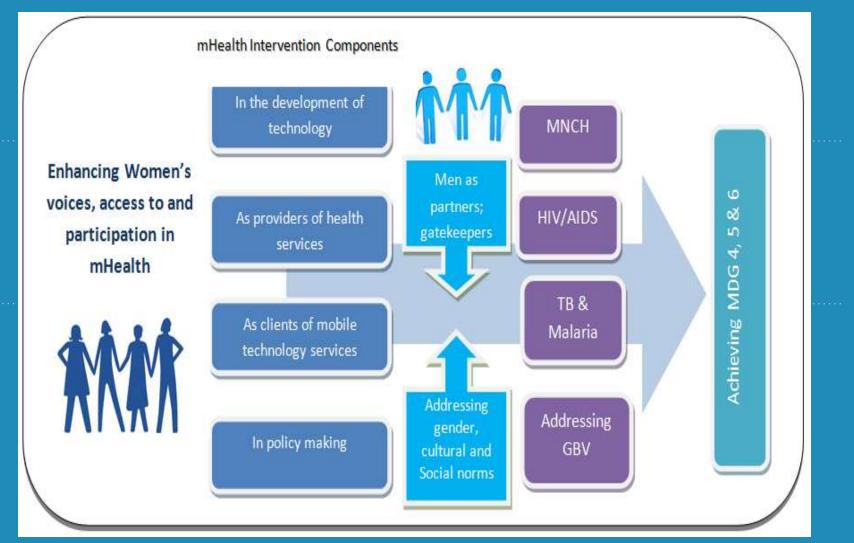
Maternal and prenatal care

Awareness and testing

**Smoking cessation** 

Vaccination

# **Gender Mainstreaming Framework**



# The mHealth Opportunity

Ministers of Health are making the mHealth connection.







# Ruma's Story: "m" is for Mothers

17-year-old Ruma is pregnant and living in Bangladesh, **ranked 11**<sup>th</sup> **in child-death**.

She is diabetic with **no** access to basic maternal or prenatal care.

# 

#### Her home is 100 miles from the closest medical clinic.



What Ruma does have is a **mobile phone**. Through voice and text messages on her prepaid mobile phone Ruma gets news on her baby's development and nutrition recommendations to support prenatal health.



An app helps her manage and track her insulin and blood sugar and she can text questions to her health care worker who can help her in real-time.

After her baby is born, Ruma gets **pre-recorded VOICE MESSAGES** reminding her of her son's immunization schedule.

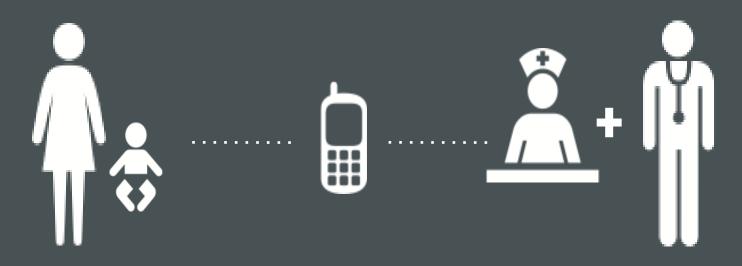
She's informed in her decision to breastfeed and now

her baby is 6 times more likely to **SURVIVE** his precarious early months.



Her frontline health worker, hospital, and medical clinic are linked through **Ruma's Health ID**.

Her son's birth does not go unnoticed—the baby now has a Vital Registry ID and counts in the system.



Ruma is no longer lost in a fragmented health system. She feels connected and that her family is cared for.

# The mHealth Challenge

But coordination in the crowded mHealth space is **fragmented**, **unsynchronized**, **and duplicative**.

In Kenya alone, there are more than 30 different mHealth initiatives active simultaneously.



# mHealth Alliance

#### Thank You.

