



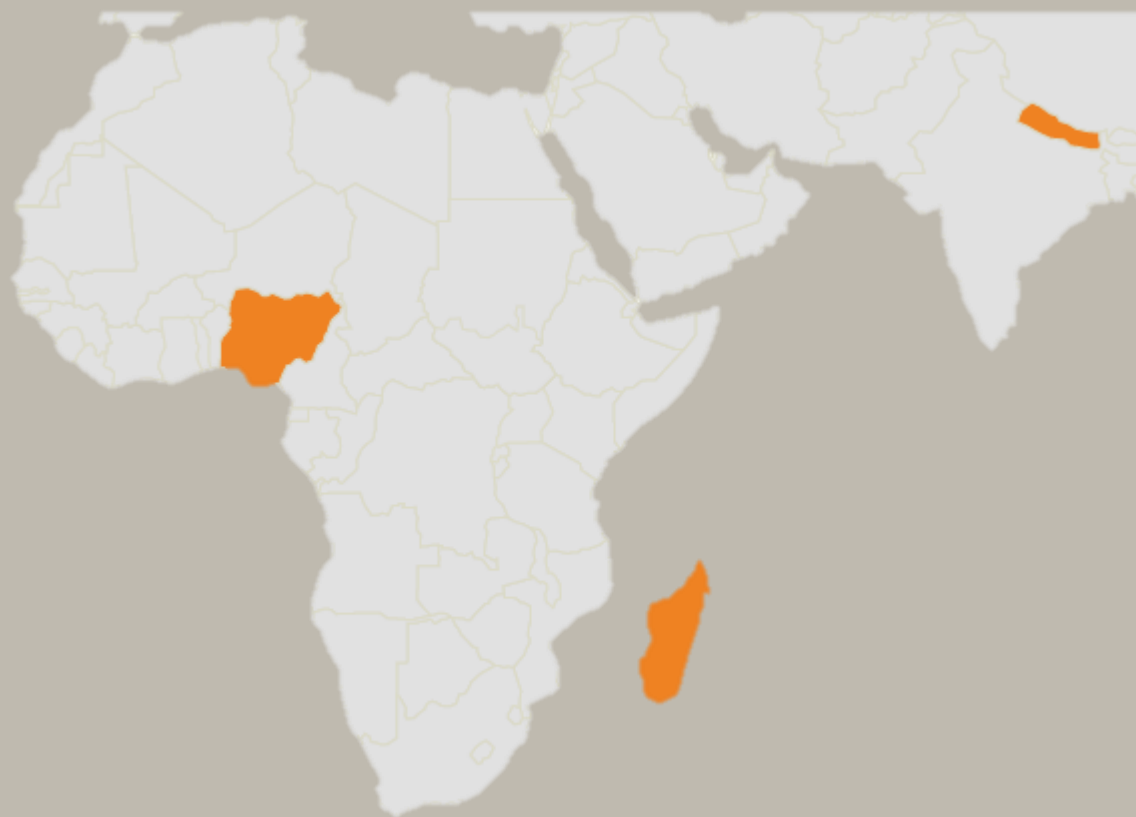
JOHN SNOW, INC.

CHLORHEXIDINE (CHX) FOR UMBILICAL CORD CARE

JSI's
groundbreaking
work saving
newborn lives

The Center for Maternal,
Newborn and Child Health

July 2015



In developing countries, **28% of newborn deaths are due to infection**



The entry point for many of these infections is the umbilical cord



Traditional practices vary and may be harmful

Country	Traditional Method	Neonatal Mortality Rate/1000 live births
Madagascar	alcohol, oil	22
Nepal	mustard oil, turmeric, ash	33
Nigeria	alcohol, oil, burning with charcoal	39
Norway	n/a	2

Chlorhexidine is a simple, effective, 23-cent intervention to reduce neonatal mortality *

Reduces neonatal mortality by

23%

And serious cord infections by

68%



**In Nepal, JSI's
pioneering
program has
prevented at
least 5,500
newborn deaths**



USAID Pioneers
Prize in Science
and Technology



Project name: Chlorhexidine Navi (Cord) Care Program

Program Start Date: 2011

Principal Donors: USAID, the Government of Norway, Bill & Melinda Gates Foundation, Grand Challenges Canada, DFID

Partners: Ministry of Health and Population, Lomus Pharmaceuticals

The power of the program came from its scale

8,250
health
workers
trained



60 of 75

districts to date

1,100,000
babies treated



**Inspired by
Nepal's
success,
delegations
from Asia,
Africa, and the
United States
have come to
learn**



25 countries
have learned
from Nepal's
program

6 of those have
implemented
programs

3 of those are
managed by JSI

In Nigeria, JSI's program launched in two northern states is promoting change around the country



Project name: Targeted States High Impact Project (TSHIP)

Program Start Date: 2013

Principal Donors: USAID, Bill & Melinda Gates Foundation, UNFPA

Partners: Federal Ministry of Health, State governments of Bauchi and Sokoto, UNFPA, Lomus Pharmaceuticals, Drugfield Pharmaceuticals

Modeled after Nepal, the program in Nigeria quickly scaled up

5,700 volunteer
health workers trained

160,000 newborns
treated since 2013

CHX imported
from Lomus Pharmaceuticals of Nepal



Inspired by results, 31 of 36 states and the Federal Capital Territory have undertaken study tours of Sokoto State's program

(funded by the Bill & Melinda Gates Foundation)



With the promise of sustainability, Nigerians are owning CHX

9 states

have purchased CHX with their own funds



Another

5 states

have either set aside funds or taken steps to procure CHX



A local manufacturer,

Drugfield Pharmaceuticals, is approved to supply to the local market. Two others have provisional registration.

The program is having impact well beyond neonatal health

- **Public health:** Task shifting for health extension workers; training curriculum for midwives now competency based
- **Maternal and newborn health:** CHX is integrated with misoprostol to reduce maternal bleeding; national community midwife cadre adopted; CHX included in the delivery “Mama” kit
- **Private sector:** CHX and miso locally produced; amoxicillin DT expected soon
- **Malaria:** Statewide distribution of LLIN; community-based distribution of SP for IPTp
- **Health policy:** Birth/death registration and cause of death; legislation for making maternal deaths notifiable

In Madagascar, JSI's new program inspired by Nepal and Nigeria has begun



Project name: Community-based Integrated Health Program (MAHEFA)

Program Start Date: 2013

Principal Donor: USAID, JSI

Partners: Ministry of Health, MCHIP, UNICEF, UNFPA, PSI, Lomus Pharmaceuticals

The pilot program has shown promising early results

284 health volunteers trained in the pilot district of Mahabo



A second district

(Vohemar) joined the program, training 271 health volunteers



96% of babies born at health facilities received treatment

**With
sanctions
lifted, the
program is
now able to
partner fully
with the
Ministry of
Health**



Health Monitoring Information System (HMIS)

will collect data on the
distribution of CHX by
Community Health
Workers



CHX and misoprostol

distribution are now
included in the services
provided at the
community level, along
with family planning and
diarrhea, pneumonia, and
malaria treatment

CHX is easy to integrate with other maternal and newborn health programs

Post-partum care

CHX has been integrated into JSI's programs in Madagascar, Nepal and Nigeria targeted to the mother - newborn dyad, such as use of misoprostol to prevent postpartum hemorrhage at home birth

Neonatal care

CHX information has been included in training and BCC materials related to birth preparedness and neonatal care programs.

ICCM programs

CHX use can be included in broader community-based newborn care packages and integrated community case management programs.

By partnering with the private sector, two local suppliers now export to other countries

Lomus Pharmaceuticals (Nepal)

exports to

- Ethiopia
- Liberia
- Madagascar
- Malawi
- Nigeria
- Pakistan

Drugfield Pharmaceuticals (Nigeria)

exports to

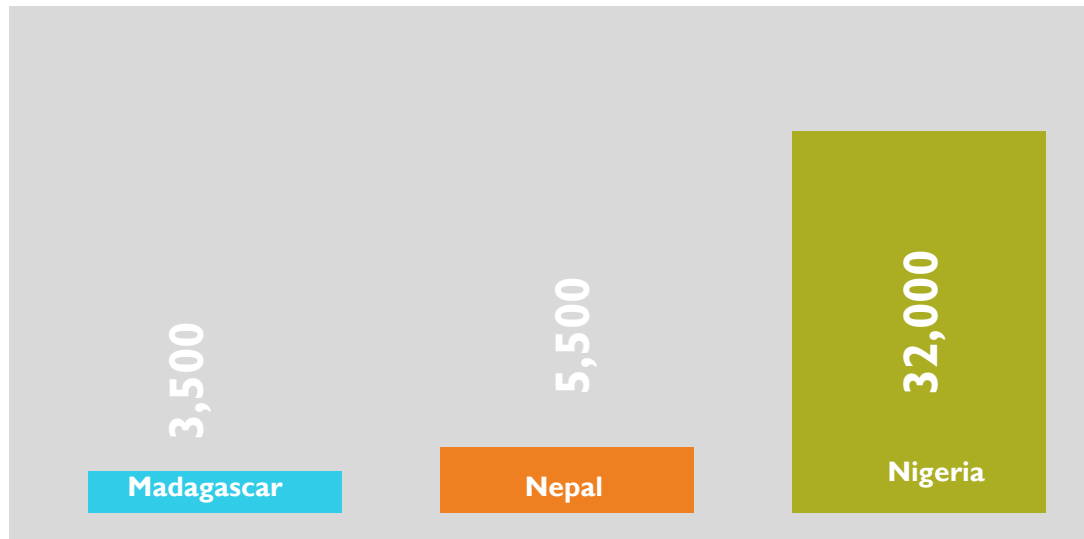
- Haiti
- Kenya

**Based on our
experience
with three
successful
programs, we
recommend**



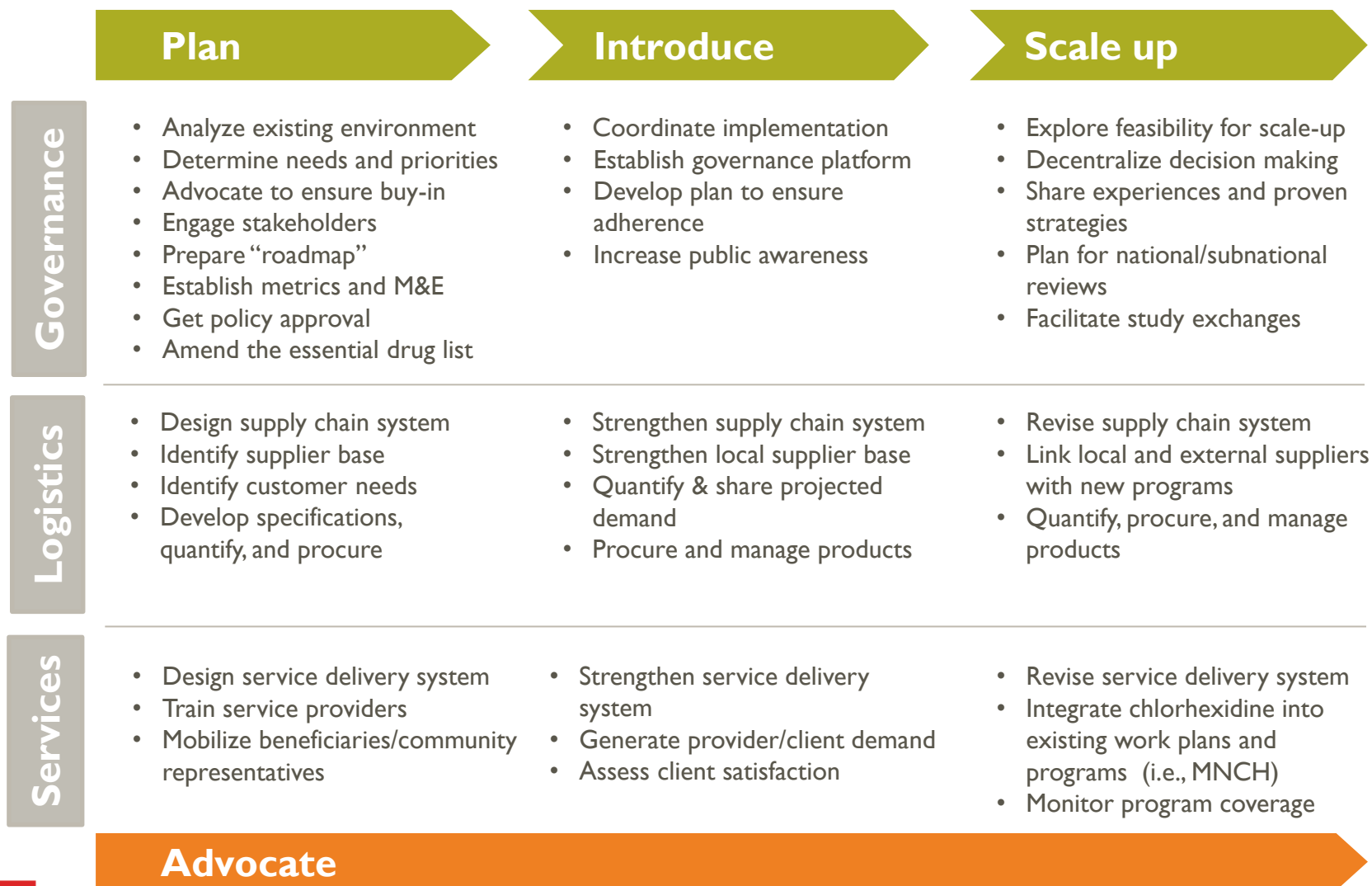
- Ensure local involvement from the beginning
- Join existing networks
- Advocate to add CHX to the Essential Medicine List
- Plan integration with other Ministry of Health programs
- Leverage resources from other countries and programs
- Ensure funding commitments

Please join with us to **reduce by 23%** neonatal deaths in targeted countries



- Integrate CHX into all maternal and newborn health programs
- Roll out nationally in Madagascar, Nepal, and Nigeria
- Expand to other countries with high neonatal mortality rates - JSI plans to support CHX program in Ethiopia in 2015

JSI's model for CHX scale up



Thank you

Questions?



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