



Areas of Collaboration

PAHO, 17 June 2015
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The Global Alliance for Clean Cookstoves will create a thriving market for clean cookstoves and fuels.

PROBLEM

Every day,
3 BILLION
PEOPLE
(500 million households)
rely on solid fuels to
power their rudimentary
stoves



which leads to...

- 4,300,000 deaths annually
- Wasted productivity
- Climate, forestry & other environmental degradation
- 21% of global black carbon emissions
- Health & economic burdens that disproportionately impact women & girls



MISSION

- SAVE LIVES
- IMPROVE LIVELIHOODS
- EMPOWER WOMEN
- PROTECT THE ENVIRONMENT



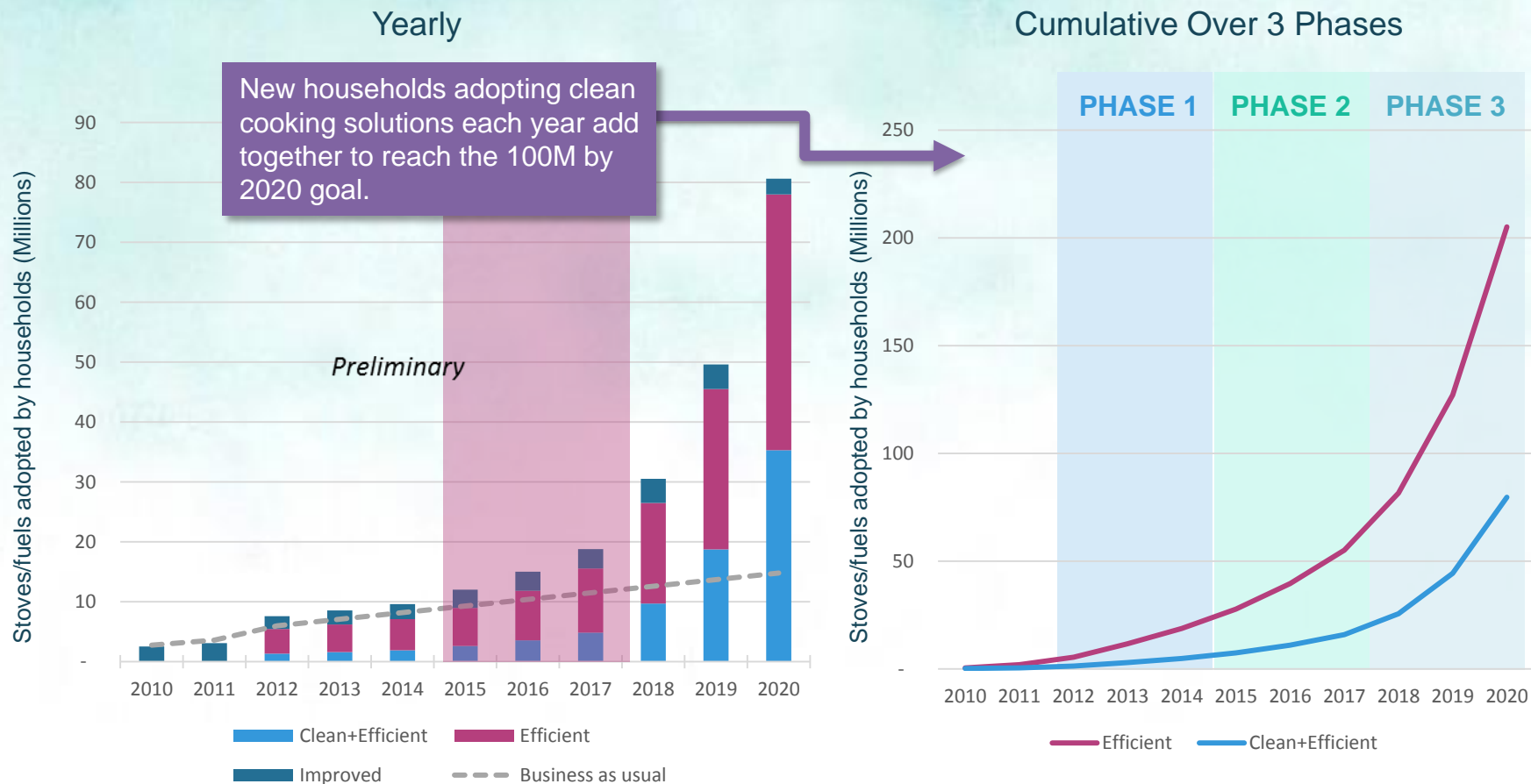
GOAL



100
MILLION
HOUSEHOLDS
ADOPT CLEAN AND
EFFICIENT
COOKSTOVES &
FUELS BY 2020

Strengthening Supply, Increasing Demand, and Creating an Enabling Environment to Facilitate Access to Cleaner and More Efficient Cookstoves and Fuels

Household Adoption of Stoves/Fuels




Four Main Areas of Coordination

- Strengthening the evidence base
- Implementation of the IAQGs
- Coordination of ISO Standards and IAQGs
- Coordination with Climate and Clean Air Coalition
 - Health Initiative (Urban Health Demonstration Project and the Breathe Life Campaign)

Strengthening the Evidence Base

- Child Survival Studies
 - Nigeria, Ghana, and Nepal
- Non-communicable Diseases
 - About to release RFA
- Adoption of clean cookstoves and fuels



DEMONSTRATING THE BENEFITS OF CLEAN COOKING ON CHILD SURVIVAL

WORKSHOP REPORT
MARCH 28-29, 2015 / KATHMANDU, NEPAL

Household air pollution causes:

- **500,000 child deaths** each year from acute lower respiratory infections, including pneumonia.
- **A 90-gram decrease** in birth weight

In March 2015, the Global Alliance for Clean Cookstoves (Alliance) and Johns Hopkins University brought together an all-star team of the world's leading public health experts to share the most recent evidence on how clean cooking impacts children's health. Alliance-funded researchers shared promising preliminary results from ongoing studies in Ghana, Nepal, and Nigeria which are evaluating how clean cooking can improve birth outcomes and reduce pneumonia.

Implementation of the IAQGs

- Working with different stakeholders in the sector to disseminate guidance on IAQGs guidelines



Consumers and users



Designers, manufacturers, and implementers

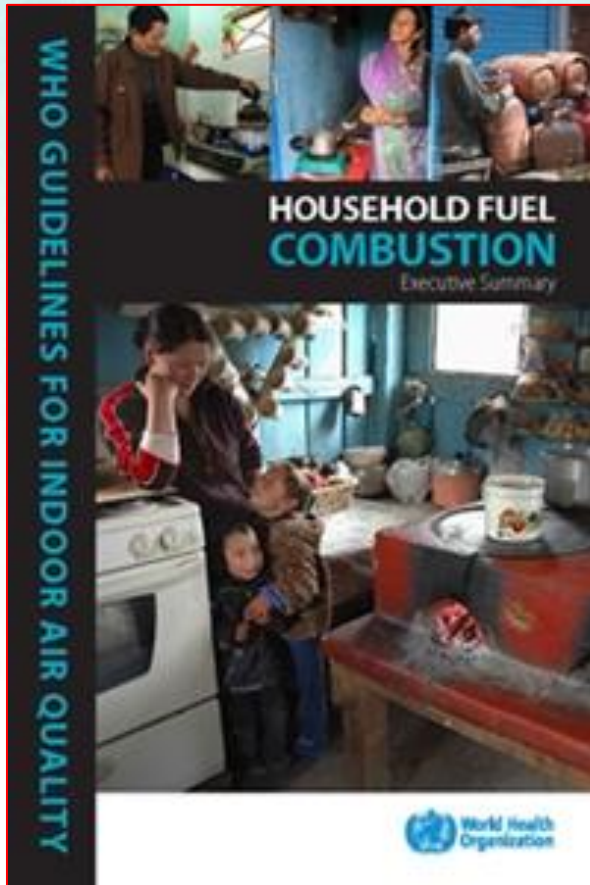
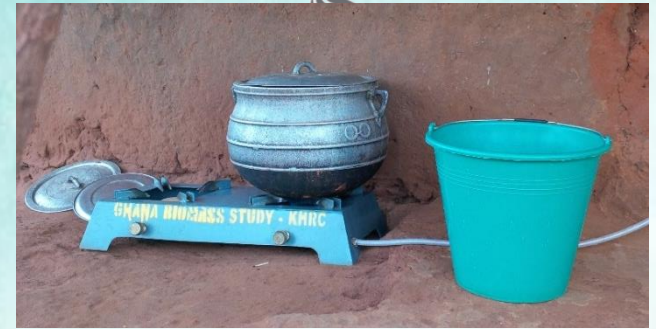


Policy makers, donors, investors, programs



All stakeholders

Clean Fuels are Central to Alliance Public Health Portfolio



- 'Clean' for Environment \neq 'Clean' for Health!
- Credible International Standards Development Bodies Inform Definition of 'Clean' Cooking Technologies
 - Only tier 4* for 'indoor emissions' will achieve the greatest health benefits



<http://www.who.int/indoorair/guidelines/hhfc/en/>



http://www.iso.org/iso/iso_technical_committee?commid=4857971

Example: Working with Policy Makers

Ghana: Optimal Convergence of Research and Government Commitments

- Cleaner Biomass Stoves
- **50% Clean Fuels (LPG) by 2020**



Setting Goals for Clean Technologies and Health

Coordination of the International Standards and the Indoor Air Quality Guidelines

- Ensuring the development and implementation of clear health-based guidelines that are related to technology and fuel performance

PARTNERSHIP



Regulation/
Labeling



Testing Methods



Technology
Performance



Indoor Air
Quality



Exposure



International Organization
for Standardization

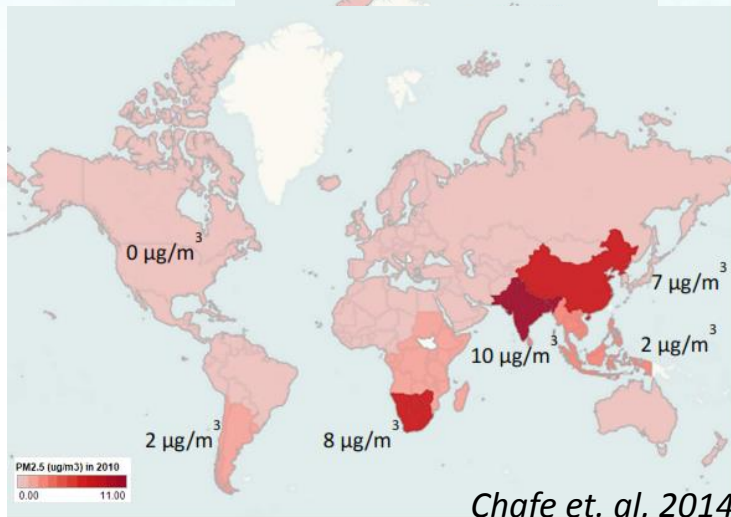
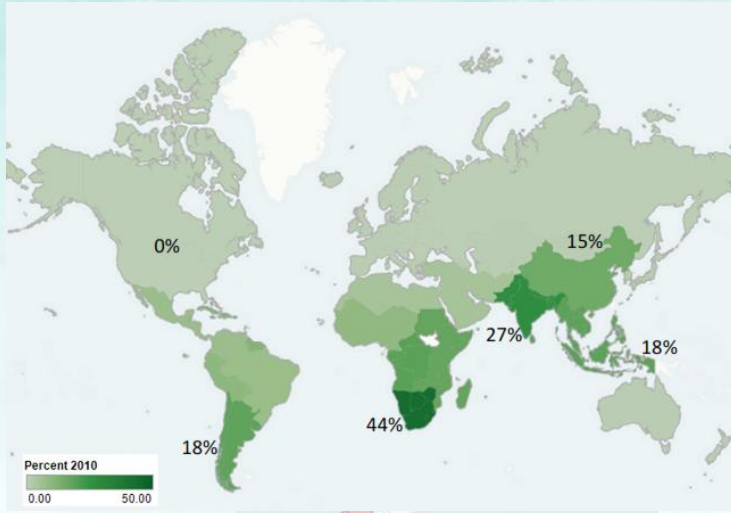


World Health
Organization

Collaborating with the Climate and Clean Air Coalition (CCAC)

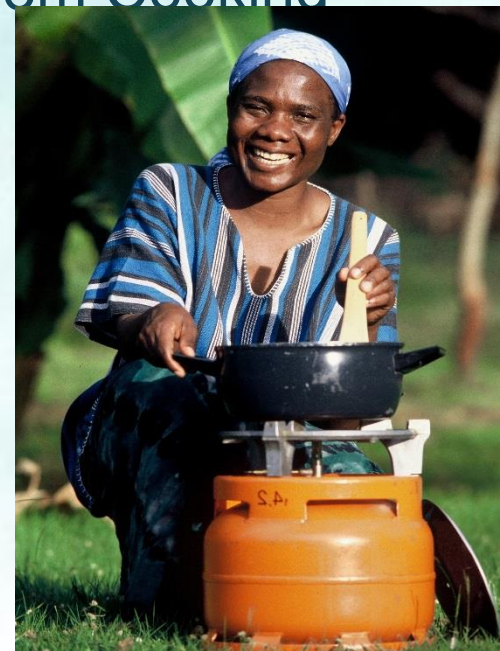
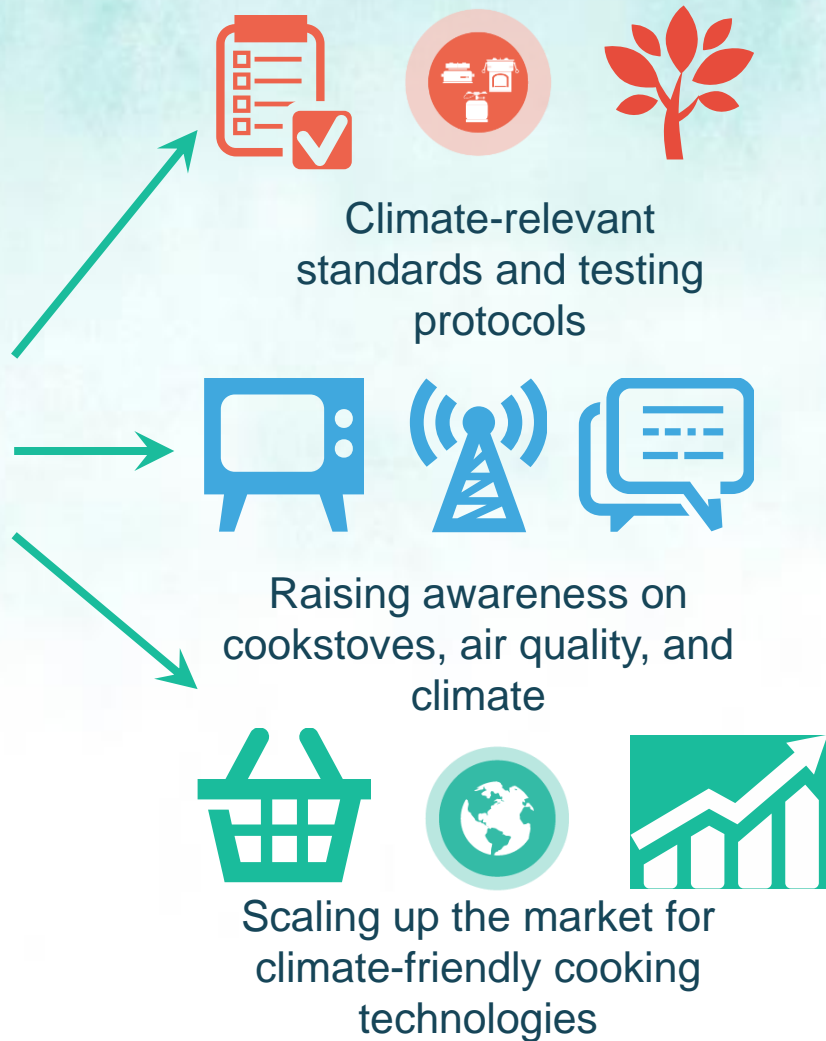
- Supporting work to develop a toolkit for cities for the Health Initiative
- Providing expertise to estimate the contribution of household to ambient air pollution in cities chosen by the Urban Health Demonstration Project (UHDP)

Global: Household Emissions Contribute ~12% of PM_{2.5} (4 µg/m³)



- Substantially greater contribution in some regions, especially those with highest population-weighted PM
 - Contributes 25-30% of OAP in South Asia
 - Contributes up to 40% in Southern Sub-Saharan Africa
- **Household emissions must be addressed, along with other sources, in order to meet ambient air quality standards**

Evidence will Inform the Climate and Clean Air Coalition's Efforts to Reduce SLCPs and Co-Emitted Air Pollutants from Cooking and Heating



Thank You!!

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