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### SLIDES: Meeting the Needs of Women Through Clean Cooking Solutions

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# Meeting the Needs of Women through Clean Cooking Solutions

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# The Problem

3 billion people dependent on traditional stoves

2 billion tons of biomass burned each year

Exposure to air pollution typically up to 100 times more than recommended as healthy by WHO

2 million people die annually – one of the top 4 health risks

Up to 30% of household income spent on fuel

Up to 4 hours a day spent on collecting fuel

Women and children disproportionately impacted



# Lack of Access to Energy is a Gender Issue

- **Women face inequities that limit their access to energy services.**
  - **70% of those who live on less than a dollar a day are women, 75% of the world's 876 million illiterate adults are women, and women only own 1% of the world's property.**
  - **Difficult to access credit, own businesses or property, access trainings, and afford and purchase technologies.**
- **The lack of access to energy can *exacerbate* existing inequalities.**
  - **Male-owned enterprises that are able to access modern energy services have a huge advantage over women-owned businesses that have a harder time accessing new technologies, training, and forms of energy.**
- **As natural resources deplete, women have to undertake increasingly labor-intensive activities, such as walking further distances or using more toxic fuels, such as dung or trash. This increased labor is almost always *unpaid* and *uncounted* as formal labor.**
- **In humanitarian settings and conflict zones, women face an increased vulnerability to gender-based violence while out collecting fuel.**
  - **In the refugee camps in Sudan, women have to organize themselves to collect firewood together at night to try to reduce their vulnerability to attack.**

# Costs and Opportunities

	Gender	Livelihoods	Environment
<i>Fact</i>	Women can spend up to 4 hours a day collecting wood – or 60 days a year.	Households can spend up to 30% of their income on fuel expenditures.	Over 20% of black carbon emissions globally comes from cookstoves.
<i>Opportunity Cost</i>	Between now and 2030, women can spend almost 3 years of their lives in collecting fuel.	Between now and 2030, an average Kenyan household will spend 5 years of income on fuel.	An additional 100 million people will be cooking with dirty cookstoves in the year 2030 – adding to black carbon emissions.

# Clean cookstoves are a tangible solution.

Going from open fires or traditional cookstoves to cleaner cookstoves and fuels will lead to:



Less exposure to toxic smoke

Fewer burns and other injuries

Less income spent on and time needed to collect fuel

More time for education and income-generating activities

Reduced greenhouse gas emissions and deforestation



saving lives, improving livelihoods, empowering women, and preserving the environment.

# Innovation and technology have provided the sector with a variety of stoves for different fuels.

## Traditional Stoves



## Improved Stoves



## Advanced Super Clean Stoves



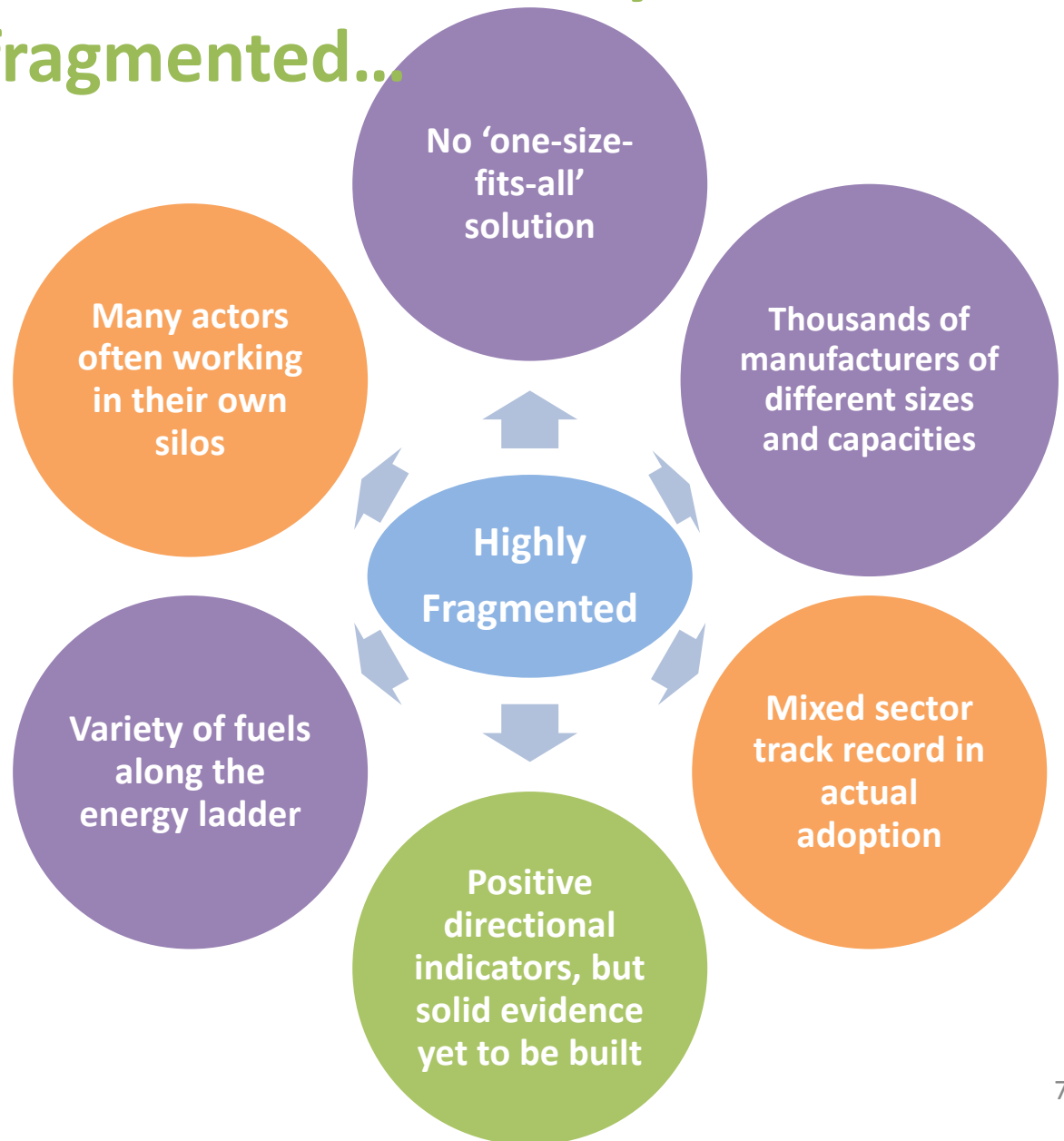
More options and technologies in development

Constant Quality Improvement

# We do have a foundation to build on...

- At least 2 million stoves sold last year
- Decades of cookstove implementation experience
- Hundreds of active stove organizations

# but the market today remains fragmented...





# with multiple barriers for each stakeholder.

## Consumers

Lack awareness about risks of traditional stoves and availability and benefits of clean cookstoves. Many stoves do not meet local cooking needs.

## Distributors and Retailers

Lack working capital and struggle to identify economically-viable models for distributing stoves and delivering after-sales services to remote rural customers.

## Designers and Manufacturers

Lack adequate capital for R&D and facilities. Limited market intelligence on needs, size of market, etc. Tariffs and taxes prohibitive in some circumstances.

## Researchers

Lack of coordination amongst cookstove researchers. Disconnected with donors interested in cookstove issues.

## Donors

Lack of full awareness of the magnitude of the issue, 'time is right' changes in the sector, and tangible means of addressing the issue, and of developing evidence base in support of issue.

No globally recognized cookstove standards

# Women have a key role to play.

**Women play a critical role to play in the development of these emerging markets – from the design of technology, to innovative distribution, awareness raising and spurring adoption, women must be involved in every aspect of the value chain.**

**Women and girls use 90 percent of their income in ways that benefit their families and communities. Additional income controlled by women from fuel savings or generated from cookstove businesses could have a huge impact on their families.**

**Women have livelihood opportunities throughout the value chain, from designing and marketing to selling and maintaining clean cookstoves. In related industries, women involved throughout in the value chain have more than doubled their family's income.**

# Women have a key role to play.

**Women can increase awareness of the negative impacts and solutions through unique methods of marketing and communications, such as women-to-women marketing,**

**Where women are already managing household energy, they can provide key leadership and insight to ensure that solutions meet their needs and incorporate local knowledge and innovation.**

**Existing innovative distribution chains that involve women's cooperatives can reach consumers who may not be easily reached through other distribution mechanisms.**

# The Global Alliance for Clean Cookstoves

*The Global Alliance for Clean Cookstoves was launched by Secretary Clinton and is an innovative public-private partnership to create a thriving global market for clean and efficient cookstoves and fuels.*



# The Global Alliance for Clean Cookstoves

## Vision

- Universal adoption of clean and efficient cookstoves and fuels.

## Mission

- Save lives, improve livelihoods, empower women, and combat climate change by creating a thriving global market for clean and efficient cookstoves and fuels.

## Goal

- 100 million households adopt clean and efficient cookstoves and fuels by 2020.

# 390+ Partners and Growing

## Donor Countries

Canada  
Denmark  
Finland  
Germany  
Italy  
Ireland  
Malta  
Netherlands  
Norway  
Spain  
Sweden  
United Kingdom  
United States

## Private Sector Donors



## NGO and MFI



## National Partners

Afghanistan  
Bangladesh  
Burkina Faso  
Cambodia  
China  
Colombia  
El Salvador  
Ethiopia  
Ghana  
Guatemala  
Kenya  
Laos  
Lesotho  
Malawi  
Mexico  
Nepal  
Nigeria  
Rwanda  
South Africa  
Tanzania  
Peru  
Viet Nam  
Uganda  
Central American  
Integration System

# The Alliance convened the sector to develop a cohesive strategy to ignite change.

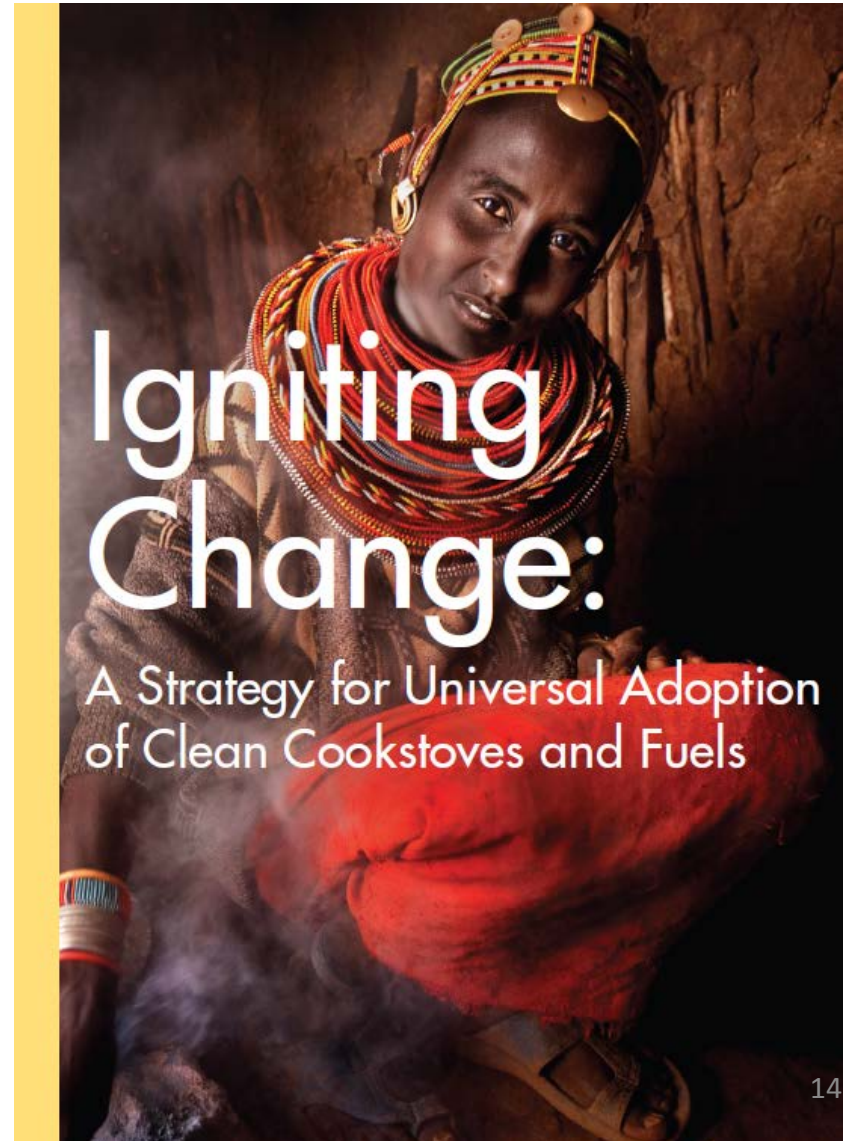
*More than 350  
practitioners and other experts*

*11 expert Working Groups*

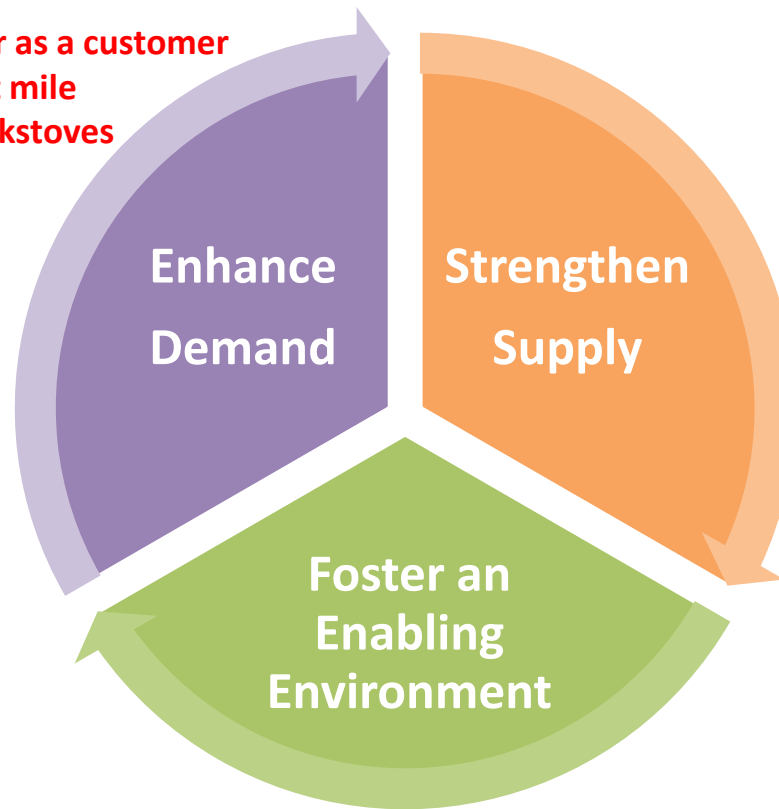
*6 months of engagement*



*Strategy report released  
in November 2011!*



# A three-pronged strategy has been developed to spur the clean cookstove market.



- Understand and motivate the user as a customer
- Reach/ensure adoption at the last mile
- Finance the purchase of clean cookstoves and fuels
- Develop better cookstove technologies and a broader menu of options

- Finance clean cookstoves and fuels at scale
- Access carbon finance
- Build an inclusive value chain for clean cookstoves and fuels
- Gather better market intelligence
- Ensure access for vulnerable populations (humanitarian)

- Promote international standards and rigorous testing protocols, locally and globally
- Champion the sector to build awareness
- Further document the evidence base (health, climate, and gender)
- Engage national and local stakeholders
- Develop credible monitoring and evaluation systems



# Alliance Global Value Propositions

Alliance will play a catalytic role in our efforts to reach  
100m adoption goal by the year 2020.

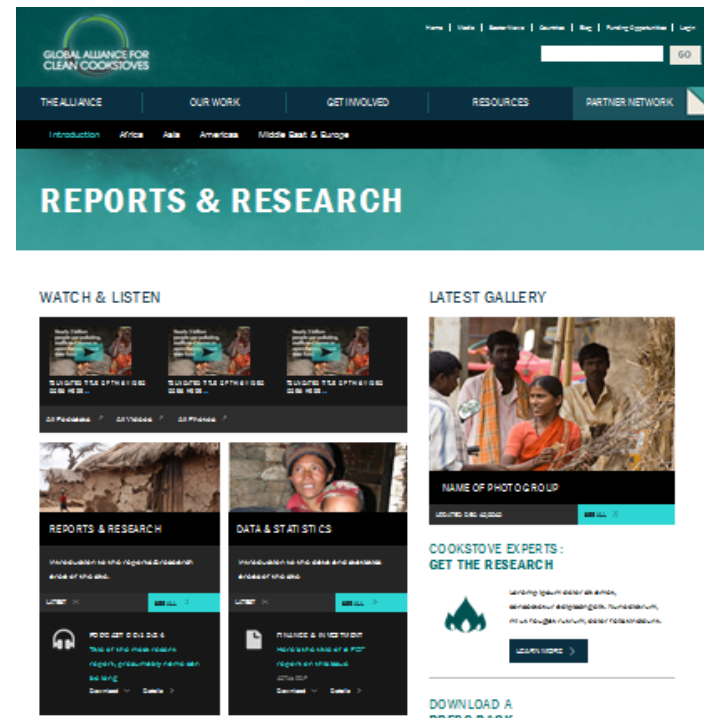


# Critical Research Well Underway Along with Tools to Catalyze Action and Build Momentum

*Filling in the evidence gaps ...*

- Child Survival RFA released in April ~ \$1m with match now provided by NIH
- Climate Mapping RFP to be released end of May ~ \$500k
- **Gender and Livelihood Research released in Sept ~ \$250k**
- Testing Center RFA released early July ~ \$1.3m
- **Innovative Business Models ~ \$1m in July/August**
- Capacity building and working capital fund RFA to be launched in October ~ \$3m

*Developing online communities of practice ...*



*...and Biennial Clean Cookstove Conference in Cambodia next Spring*

# Potential Target Countries, Phase I.



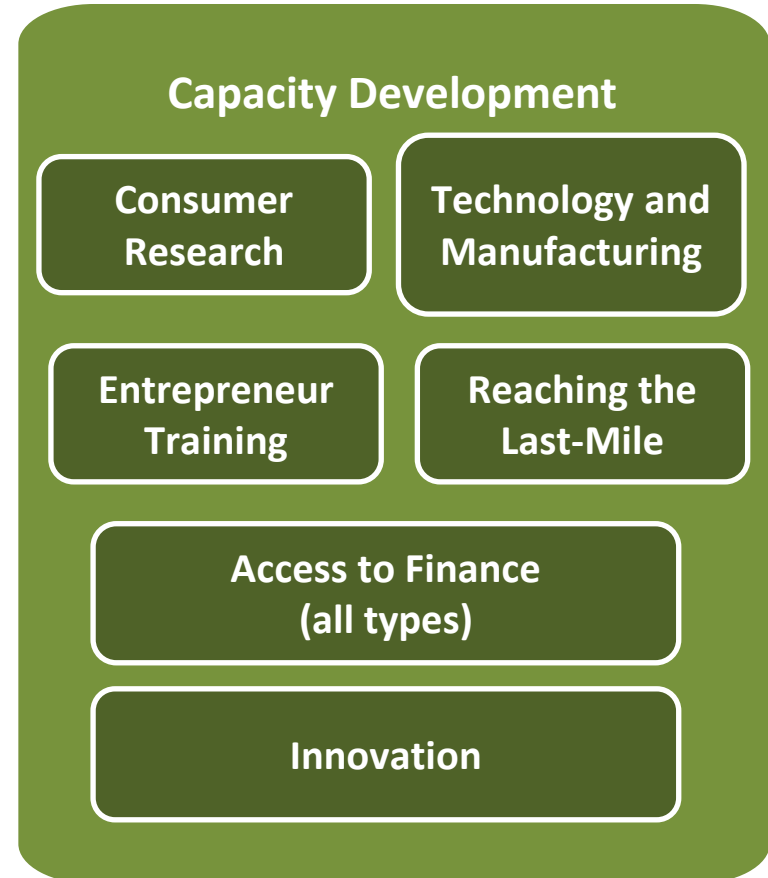
Alliance Role	Potential Target Countries for Phase 1**
Transformative; likely to require engagement of 5+ years; multiple intervention strategies and actions	East Africa region (Kenya, Uganda, Tanzania, Rwanda), Ethiopia, Bangladesh, Vietnam
Targeted intervention; likely 1- 3 years of engagement; extrapolation of learnings applicable to other partners	Indonesia, Ghana, Nigeria, Guatemala, Mexico, Peru
Sharing of knowledge and practices; country tool kits; brokering partnerships among stakeholders	All other partner countries

\*\*Countries to be finalized after all stakeholder consultation meetings.

# Two Track Approach to Enabling Markets



*Activities for the public good that benefit the entire sector*



*Tailored support that focuses limited resources on driving scale*

# Gender mainstreaming in the Alliance and throughout sector activities

