

Reducing Air Pollution in Nigeria: Teaching Women to Cook Cleanly Cameron M. Fiddes (BCB/BB), Erika Miyajima (BME), Yanniode Peri-Okonny (MA), Mingqi Shuai (ME)

Problem Statement

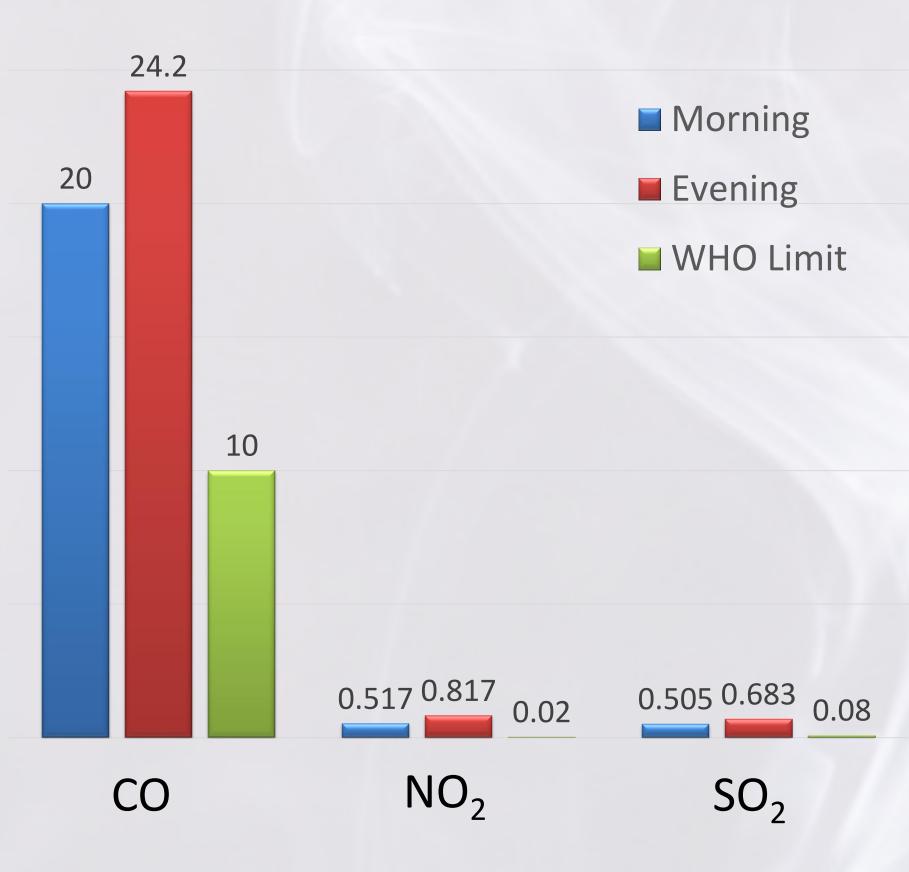
Three-stone fire stoves are unsafe due to producing large amounts of indoor air pollution. Rural Nigerian women are the most affected, but they often do not know about the negative impacts.



Background >50,000,000 tons of fuelwood consumed per year in Nigeria 20 <u>ບ</u> 15 10 **Energy Sources of Household Cooking Sector in Nigeria (2012)** Others 26% Firewood Liquified **Petrolium Gas** 56% 6% Kerosene 12%

Dr. Brian Savilonis, Dr. Geoffrey Pfeifer

Mean Gaseous Concentrations in **Comparison with WHO limits**



79,000

deaths per year caused by indoor air pollution in Nigeria

Results from Research and Interviews



Fun education



Interpersonal communication



DIY Solar Cooker

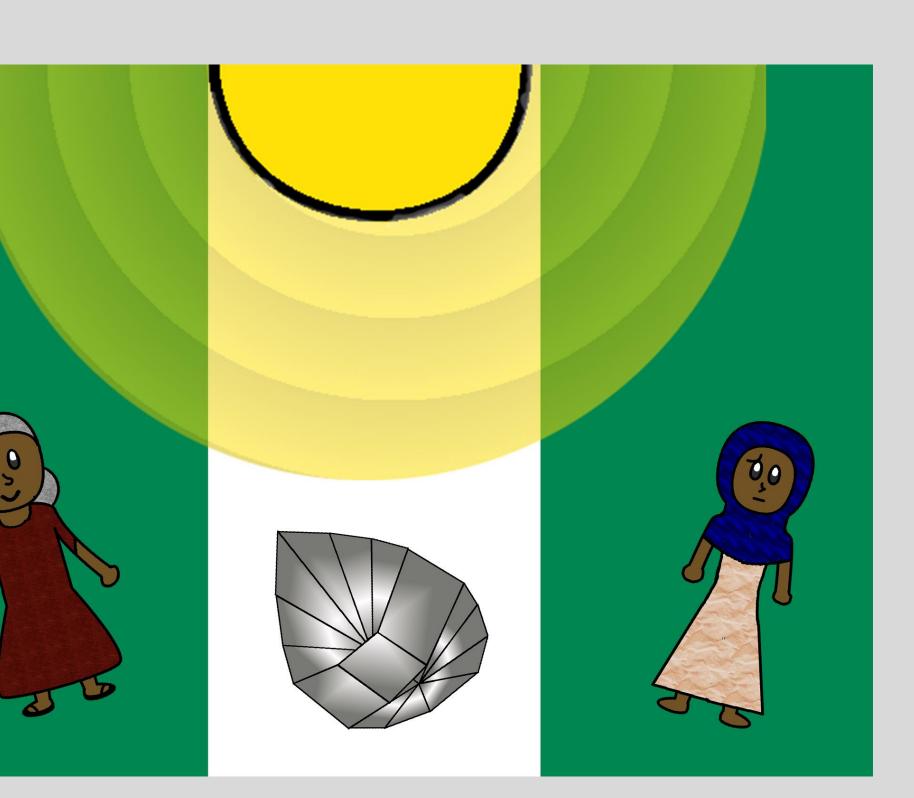
Future Work

• Refine the video's animation. Find ways to utilize local schools and churches.





Educational Video



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https://d30y9cdsu7xlg0.cloudfront.net/png/658715-200.png; http://findicons.com/icon/233321/talking; https://www.flickr.com/photos/worldbank/2539333566 Abutu, (May 09, 2015). Nigeria: Women Are Dying to Cook for Their Households. Retrieved from http://allafrica.com/stories/201505110389.html na, Morakinyo and Fakunle, (October 21, 2015). Indoor Air Quality and Risk Factors Associated with Respiratory Conditions in Nigeria. doi: 10.5772/59864. Retrieved fron echopen.com/books/current-air-quality-issues/indoor-air-quality-and-risk-factors-associated-with-respiratory-conditions-in-nigeria Dyedepo, S. O. (2012, July 23). Energy and sustainable development in Nigeria: the way forward. Energy, Sustainability and Society, 2(15). doi:10.1186/2192-0567-2http://carbonfinanceforcookstoves.org/about-cookstoves/cooking-and-climate-change. Gujba, H., Mulugetta, Y., & Azapagic, A. (2015). The Household Cooking Sector in Nigeria: Environmental and Economic Sustainability Assessment. Resources, 4(2), 412-433 Global Alliance for Clean Cookstoves. (n.d.) Cooking and Climate Change. Retrieved from .http://carbonfinanceforcookstoves.org/about-cookstoves/cooking-and-climate

Peri-Okonny, E. (2017, March 29). Personal interview. Doherty, O. (2017, March 30). Personal Interview. Burt, M. (2017, March 21). Personal Interview