USAID Approaches to Innovative Engineering: Making the World a Smaller Place

Dr. Marissa Jablonski
Design Constraints are Assumptions
Solution = Technology

(I thought)
Rusty Metal Box
$50

Chemicals to lower pH & oxidize color
$0.026/L

Open to UV
Free

Photo Credit: Marissa Jablonski
Decolorized after reaction + filtration

Reusable!
No one is using it
People are *people* are people are people
Making Change

- Economics
- Society
- Health
- Politics
- Environment

Interconnected cycles.
It’s all about the people

Photo Credit: Marissa Jablonski
Making Change

- Remediate soil to save natural Environment for future
- Public Awareness Campaign to make Social Change
- Technical Dye Treatment ALSO improves Economy
- Educate Community on Health impacts of current techniques and alternatives
- Address Politics of change and engage with all parties

PEOPLE
Diego Ramirez Cobo

Photo Credit: EWB@UWM.blogspot.com
If this whole system laid on only your shoulders, you would collapse

- President of Visiban 2014, Nebaj, Quiche, Guatemala
But Marissa, we’re making the world a smaller place

- Diego Ramirez Cobo
We all GIVE

We all GET
Support **Partnerships**

- American Schools and Hospitals Abroad (ASHA)
- Higher Education Solutions Network (HESN)
- Middle East Regional Cooperation (MERC)
- Partnerships for Enhanced Engagement in Research (PEER)
Co-created Activity Design

• Broad Agency Announcements (BAAs)
• Grand Challenges
Engineering Innovation

• Food For Peace (FFP)
• Office of Foreign Disaster Assistance (OFDA)
What does it look like on the ground?
Time for Inclusion
When you think you’re done listening, listen some more.

Harmonize

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