

AGENDA

- Presentations
- Quick Review/Catch-up
 - Solar Cookers
 - energy to boil water
- Trip Prep
 - getting good information
 - what would you do?
- Muddy Card

SOLAR COOKERS



concentrator (parabolic)

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combination (panel)

Public domain image (Source: Wikipedia, by Tom Sponheim).

TRIP GOALS

- have well-identified, well-understood, well-documented projects, at least a few highly relevant to D-lab Energy and if available others for other D-lab classes in the future
- really understand the communities needs, finances, health, education, culture, government structure, formal and informal leaders, lifestyles, work, etc.
- charcoal trainings / creative capacity building

Refugee Camp in Pader, Uganda

Technology demonstration in Amokolegwai





Traditional grinding stones: a better way?















- Efficiency
- Effectiveness
- Self-Reliance
- Sustainability

Disadvantages of Participation

- Time
- Resources
 - -Materials
 - -Human
- Unpredictability
- Expectation management

Consultation vs Co-Creation



GETTING GOOD INFORMATION

Barriers:

- language
- translator issues
- educational backgrounds
- cultural backgrounds
- telling you want you "want" to hear
- wrong person

Methods:

- ask question different ways, multiple times
- ask multiple people
- demonstrate openness to criticism
- repeat answers back
- encourage questions
- verify expertise
- discuss goals/preferences
- with translator

GETTO THE CORE PROBLEM

- project specifications
 - observable/analyzable
 - quantifiable
 - document WHAT not HOW

customer need: easy to find
design attribute: visibilitymetric: color
unit: rgb
value: 255, 255, 0 (yellow!)metric: time to spot
unit: seconds
value: less than 5owner: Floyd

GET TO THE CORE PROBLEM

Questions

- tell me what would happen (story)
- how [big] is too [big]; how [small] is too [small]
- challenge requests (what if? what would happen if?)
- feedback on ideas, including known problematic ones

Take time to review knowledge; mental design process

PACKING LIST - MUST HAVES

- Not much needs to be bought new
- Pack lightly
- 50°F at night as 100°F at day
- Conservative dress
- Toiletries: meds (2x), toilet paper or tissues, others you need
- Towel (small)
- Bug repellant & sunscreen
- Flashlight
- photocopy of passport
- notebook & waterproof pens/pencils
- nothing of value (jewelry, cameras, laptops, etc.)

GIFTS

D-Lab Boutique Gift Catalog







2 GB Bamboo Flash Drive

\$16

D-Lab Aluminum Sports Bottle

\$5

Draw String Bag

\$5

MONEY

- charlie card
- \$10 for entry visa
- cash: \$20 bills or smaller, in good condition
- call bank/credit card companies to warn of travel
- US\$50 probably sufficient (food (mostly pre-paid), gifts)

TRIPTIPS

- assume drinking water is unsafe (& therefore uncooked fruits/ veggies)
- nothing expensive in sight (or, ideally, brought)
- travel in groups, especially at night
- flexibility and patience are key
- manage expectations with community partners

FORMS/CHECKS!

- D-Lab Emergency Contact Form
- MIT Student Travel Form
- \$500 check made out to D-Lab
- Photocopy of passport

If you don't have all today, make plan with Amy

REMAINDER OF CLASS

- Micro-interviews
- Revise plan based on feedback from presentations
- Packing how much checked luggage
- What do you need from D-Lab: email list to Amy by end of class
 - tools
 - cameras
 - mosquito nets
 - hammocks
 - other?
- do not leave unless interview is complete (or it's 3)

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