



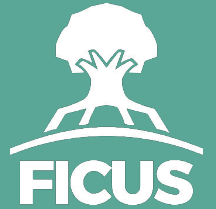
Struggling with change, an unsolved challenge: Adoption of new technologies to foment sustainable cities

Presenters:

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- AJ Doty, US Forest Service – International Programs

1. Presentation of two examples (in Peru and Uganda) about the introduction of environmentally-friendly low-tech technologies (e.g. dry toilets) to solve health-related issues.
2. Dialogue with the public on the introduction/adoption of environmentally friendly technologies.
3. Brainstorming session: What activities can be done to push forward the adoption of new technologies?

DATE: *February 24,*
TIME (in EST): 1445



What should you expect today?

- Tippy Tap Track in Uganda – 15 min
- Compostable toilets in Peru – 15 min
- Sharing time (in groups) – 30 min
- Brainstorm session: Lessons learned (plenary) – 20 min

Tippy Tap Tech: An Example from Uganda

- Background
 - Village Enterprise – small Non-governmental Organization (NGO) working with households in Uganda whose incomes qualify them as being in extreme poverty¹
 - Small grants program for basic entrepreneurial skills so participants could build small businesses for sustainable income
 - 3 key components: business/financial literacy training, mentoring, savings & lending associations
 - USAID Water, Sanitation and Hygiene (WASH) funding required a new component: tippy-taps for household hand washing and sanitation

What is a Tippy Tap?

- Low-tech hand washing station
- Made from materials commonly found around most homes in Uganda (urban and rural)
- Low-cost
- Easy to build
- Replicable
- Effective





How did it go?

Successes

- Demonstration plot with working tippy-tap showed efficacy and ease
- Easy to build and easy to replicate
- Materials were easy to find
- Created small business opportunities:
 - Soap-making
 - Building taps



How did it go?

Challenges

- Uptake was challenging
- Materials provided used for other things
- Irregular upkeep
- Lack of support from program staff

What did we learn?

- Invest time in understanding community needs
- Community-led solutions
- If it doesn't work, ask why
- Needs-based solutions
- Test and re-tool
- Don't assume



Compostable toilets: An example from Peru

- Background

- Ficus Peru – Peru Local socio-environmental - working with households in a shanty town in Lima, Peru.
 - Extreme poverty
 - Access to water through water trucks
 - No electricity
- CIM (GIZ) grant for knowledge transfer
- Participatory diagnosis □ Priority: Water/sewage
- Options:
 - Rainfall harvesting
 - Artificial wetland
 - Artisanal water filters
 - **Compostable toilets**



What is a Compostable toilet?

- Low-tech bathroom that do not use water
- Made from materials commonly found around most homes in Lima (urban and rural)
- Low-cost
- Easy to build
- Replicable
- Effective





How did it go?

Successes

- All of the beneficiaries were part of the selection of the low-tech technology
- Attention to beneficiaries priority: Water/Sewage
- Easy to build and easy to replicate
- Created small business opportunities:
 - Transport of materials
 - Building compostable toilets
- 33 toilets constructed



Challenges

- Transport of materials
- Materials provided used for other things
- Do not follow instructions correctly for construction
- COVID-19 financial crisis □ no money for the bathroom stall/cabin (the outside)
- Some beneficiaries desisted from the project

How did it go?

What did we learn?

- We need donors' flexibility
- Do not depend on community official leaders, recognize un-official community leaders!
- Need strategies to tackle corruption and elite capture
- Pay special attention to conflict resolution
- **Be flexible and comprehensive, but not naïve.**



SHARING TIME!!

1. Introduce yourself

2. Share your examples:

- Where?
- When?
- With who?
- Explain the technology used
 - Successes
 - Challenges
 - Lessons learned

3. Choose someone to present a summary to the group

MAX. 10 MINUTES, PLEASE

BRAINSTORMING TIME!!
What should we do now?

Contact us!



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