



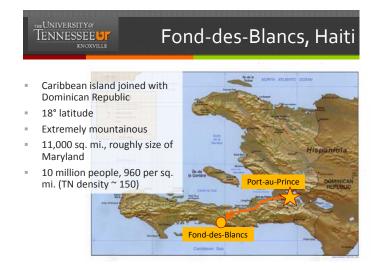
What are the emerging challenges for water resource management?

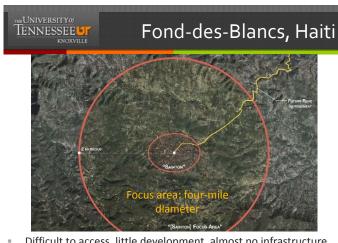


How do we connect short-term interests with long-term environmental goals?



- Fond-des-Blancs, Haiti
- Historical/Political Context
- Approach & Site Assessment
- Community Values and Design Goal
- Concept Design & Development
- **Suitability Studies**
- Conclusions

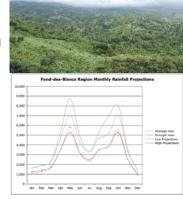




Difficult to access, little development, almost no infrastructure



- 35-45 inches rain per year
- Two rainy seasons: May and October
- Dry seasons very dry
- Complex geology











Efforts to reforest exist, but landscape-scale change has not occurred.



- Children most affected
- Major reason for high drop-out rates at school



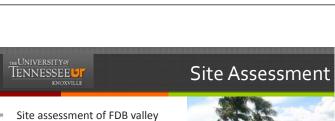


TENNESSEE Historical Context

- "Groaning bookshelf" of literature on why it isn't working/where the money is going
- One common finding is that projects don't take the social context into account
- Understanding the social context became a major goal for me
- Any environmental imperatives depended upon it

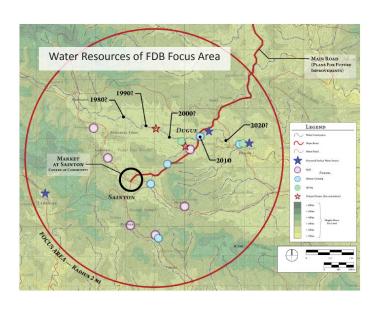


- TENNESSEE SPINESSEE SPINES
- 1. Site assessment of FDB valley 12 sq. mi. focus area
- 2. Ethnographic and participatory approach to understanding community's values



- Site assessment of FDB valley
 12 sq. mi. focus area
 - Elevation
 - Slope
 - Population
 - Forest cover
 - Hydrology
 - Water access
 - Roads
 - Schools & churches
 - Businesses & cultural landmarks







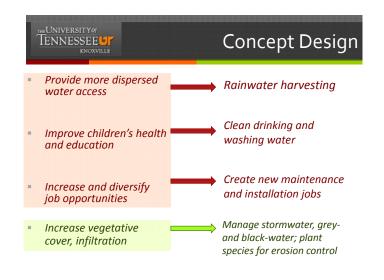


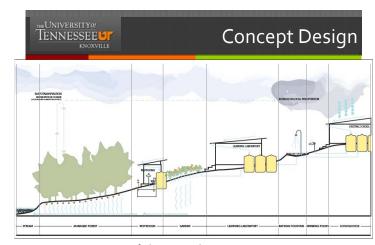


- Schools and education are catalysts for the community.
 - Children's health is a critical issue.
 - People want better jobs. They may need training.

TENNESSEE DE Design Goal

- Primary Question: How do we connect short-term interests with long-term environmental goals?
- Large-scale water resource dilemmas are often too far-off, too vague, and too difficult to quantify in order to serve as primary motivators.
 - Is there a way to link these long-term goals with the public's primary motivations?





Gravity-fed rainwater harvesting concept

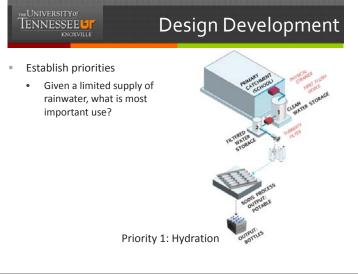


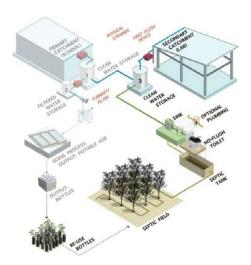
- Technology appropriate to place:
 - Simple maintenance
 - No electricity required
 - Supplies locally available



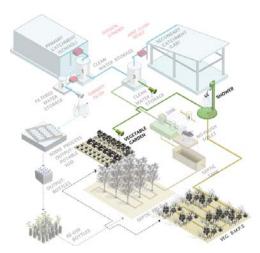


"SODIS"

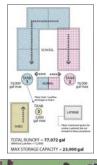




Priority 2: Sanitation

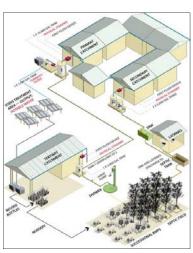


Priority 3: Nutrition, Exercise and Engagement

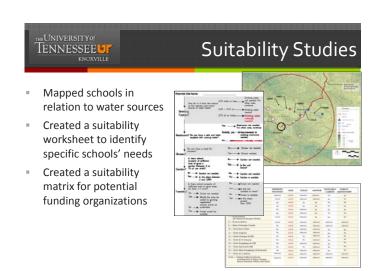




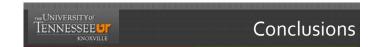
St. Joseph de Capin students and school



Capin Rainwater Harvesting Diagram







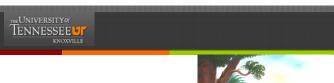
MAIN CONCLUSION:

One way to connect short-term interests and long-term environmental goals is to

Identify <u>primary motivators</u> through an ethnographic/participatory approach

and

<u>link</u> them to environmental outcomes through a web of <u>interaction</u>.



Questions?

Thanks to UT Staff and Faculty for their advice and guidance.

Thanks to Fond-des-Blancs participants for their enthusiasm and valuable input.

