What Difference Have We Made?

Evaluating the Impact of EWB-USA Projects in Nicaragua

Claire Barker, EWB-USA Boston Professional Chapter

NEWEA Annual Conference, January 25, 2016



EWB-USA's First Closeout Impact Review, September 2015

Eight Programs and Fourteen Completed Projects in Southwest Nicaragua





Civil Works



Structures









Water Supply

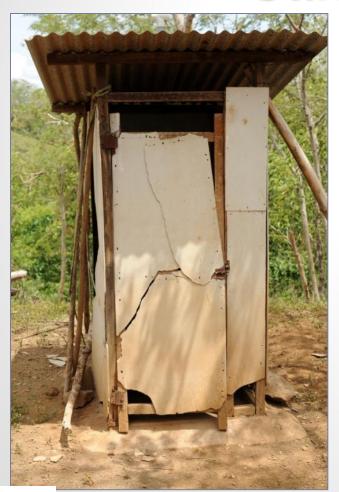








Sanitation







Energy and Agriculture





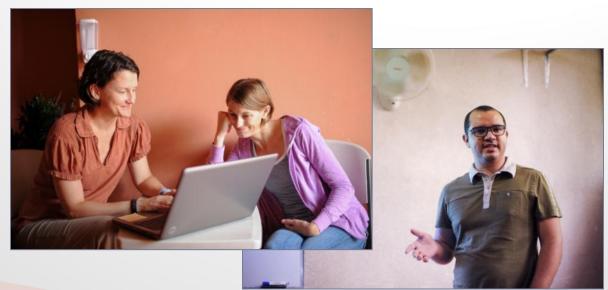




Staffing – Four Volunteers

Three EWB-USA Staff









Methodology





Why do Impact Reviews?

- Learning:
 - Are programs effective?
 - How can they be improved?
 - Do results support the EWB-USA Theory of Change?
- Accountability to Stakeholders:
 - Communities
 - Chapters
 - Donors

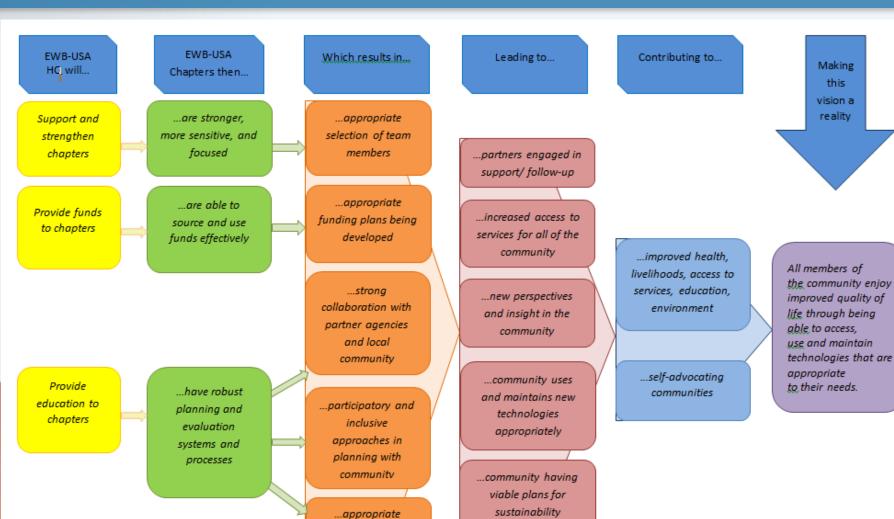
EWB-USA Context

- Vision of Success: Improved quality of life by accessing, using and maintaining relevant technologies
- Relevant Technologies:
 - Engineering based, proven technologies
 - 5-year community partnerships
 - Infrastructure that a community can sustain
- Education a key success factor





CHANGE PATHWAY



designs developed and installed

Monitoring: Were Activities in the Program Plan Completed?



Evaluation: Were Overall Plan Objectives Met?



Impact: What Difference did the Project Make?



Impact Area #1: Were Projects Appropriate and Relevant? Community was able to

- Use local materials
- Operate and maintain the project
- Sustain it financially and technically
- Provide access to all members of the community



Impact Area #2: What Changed in the Community?

- Public or Environmental Health
- Behavior
- Access to Services by all Community Members
- Technical Knowledge
- Community Organization
- Community Self–Advocacy

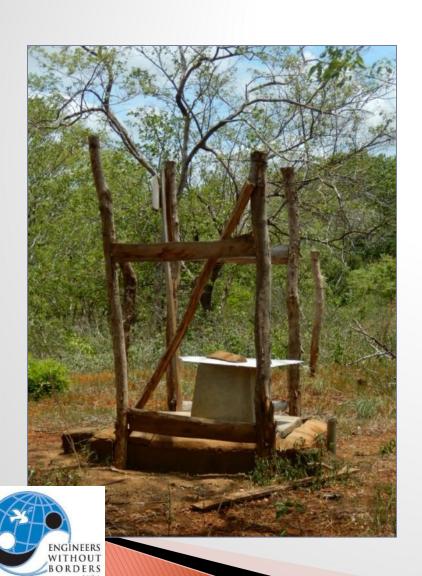


Civil Works Projects: High Impact



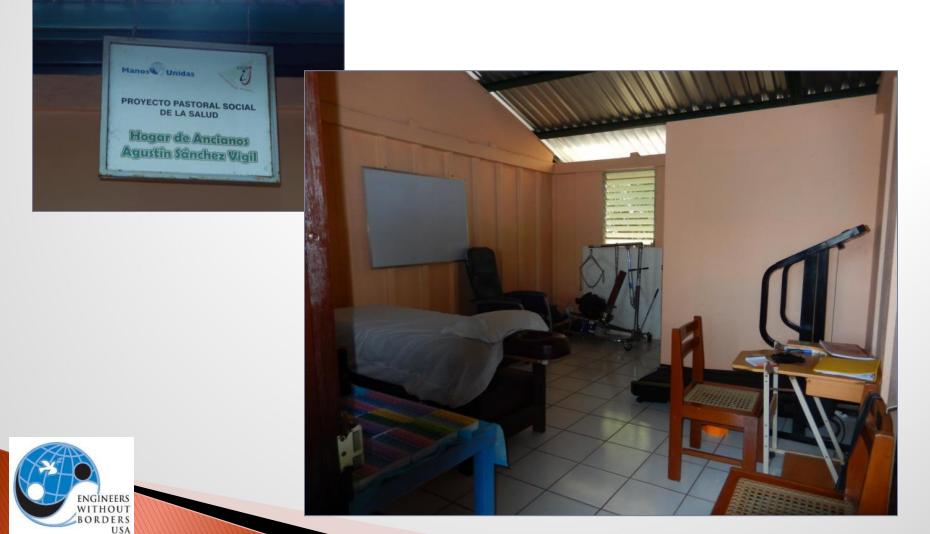


Success even for Technical Failures





Success even for Projects no Longer Operating



Local Challenges

- Financial and Operating Sustainability:
 - Few maintenance or replacement reserves
 - Reliance on skills of one person
 - Some maintenance requirements beyond individual capacity or willingness
- Technical Knowledge:
 - Few appropriate O&M manuals
 - Storing and passing on information is difficult

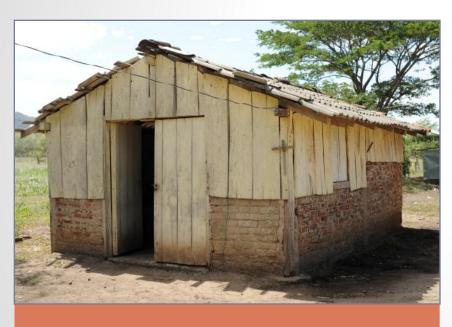


Impact Reviews: Expect the Unexpected

- Drought:
 - Wells have dried up
 - Communities lack funds to drill a deeper well
 - Storage tank in rainwater catchment repurposed to hold municipal water brought in tank trucks
- Grid electricity leapfrogged community solar systems



Expect the Unexpected: Solar Systems in Neighboring Communities



System Protected





Repeated Theft of Parts

Expect Ambiguity: Why did Hay Bale Construction Fail?







Expect Ambiguity: Measuring Project Impact on Public Health







Success Factor #4: Quality of Service

- Understanding of the community's long term goals
- Appropriate technologies, design and implementation
- Solid project documentation

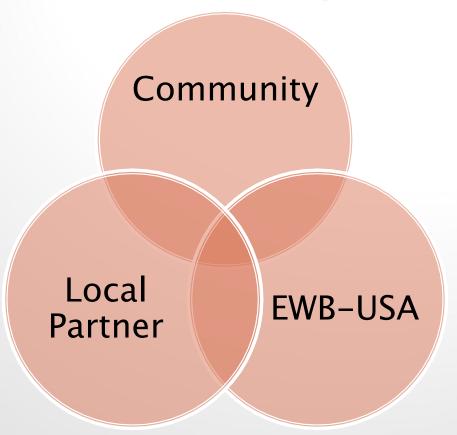


Success Factor #3: Maintenance Planning

- Chapters need to provide education and training throughout a project
- Usable written documentation and manuals are critical
- Chain of control of documents is hard to maintain over time



Success Factor #2: Collaborative, Long-Term Partnerships





Success Factor #1: Community Capacity to

- Create financing mechanisms
- Assign roles and responsibilities
- Organize for long term effort
- Take ownership of the project and make decisions once the project has been closed



Takeaway Thoughts

- Technology is less important to success than community capacity and long-term collaboration
- Planning, monitoring, evaluation and learning
 - EWB-USA's PMEL process is critical
- "The only true failure is a failure to learn"



Credits

Report:

http://www.ewb-usa.org/leaders-in-learning-inaugural-closeoutimpact-review-team/

- EWB-USA Staff
 - Tiffany Martindale, Impact Analysis Director* tiffany.martindale@ewb-usa.org
 - Edrulfo Rodriguez, Nicaragua Country Coordinator
 - Gretchen Smithwick, International Community Programs
 Manager
- EWB-USA Volunteers
 - Amanda Engle
 - Dave Lovell*
 - Bruce Nieman*
 - Claire Barker* <u>claire@barker.net</u>