

Engineers  
Without Borders  
INTERNATIONAL



# Engineers without Borders ISRAEL

עמותת מהנדסים ללא גבולות  
ישראל

# EWB -Israel



- **Established officially in August 2008**
- **Start-up member of EWB-I**
- **Two Chapters:**
  - Technion
  - Sde Boker
- **International and local projects**
- **Everybody is welcome to join!**

# Multi- Disciplinary Approach



- **Civil Engineering**
- **Environmental Engineering**
- **Mechanical Engineering**
- **Electrical Engineering**
- **Aerospace Engineering**
- **Materials Science**
- **Environmental Science and Management**
- **Water and desert studies**

# Outreach



- **Within Israel**
  - NGO's
  - Universities
  - Mentors
  - Industry
  
- **Within Project's countries**
  - NGO's
  - Government's Offices
  - Universities

# Integration into the curriculum



- Technion International School of Engineering – joint course with UCB – summer 2010
- International School for Desert Studies, Sde Boker: Rural Water Development course (designing and building pilot gravity tank distribution systems)
  - Ethiopia
  - Zambia

# Future Plans



- **Develop the national NGO structure and mode of operations**
- **Obtain tax deduction status for the NGO**
- **Establish more chapters**
- **Recruit professional members**
- **Fundraising**
- **Start more local projects within Israel**
- **Further explore collaborative work opportunities with other middle east chapters**

# Projects



- **Bedouin Village, Negev**
- **Namsaling, Nepal**
- **API – Abraham Path Initiative**
- **Appropriate Technology (Biogas plant, solar refrigerator, wind turbines)**

# Bedouin Gardening Project

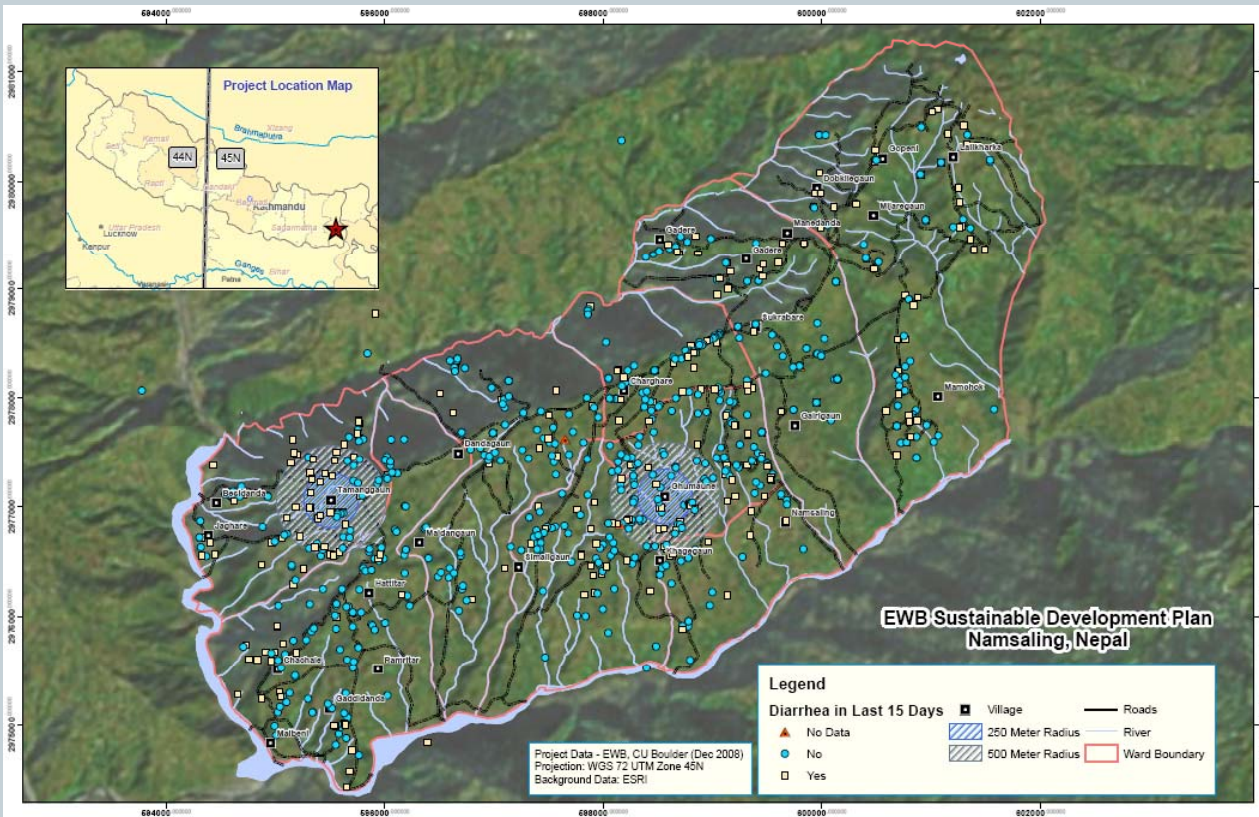
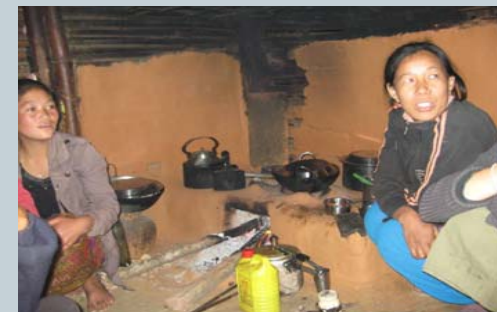




# Nepal Project - Namsaling

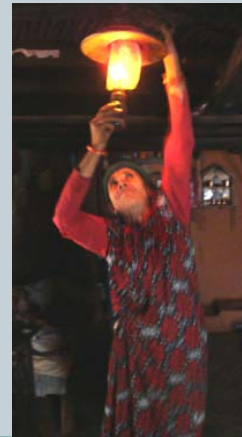
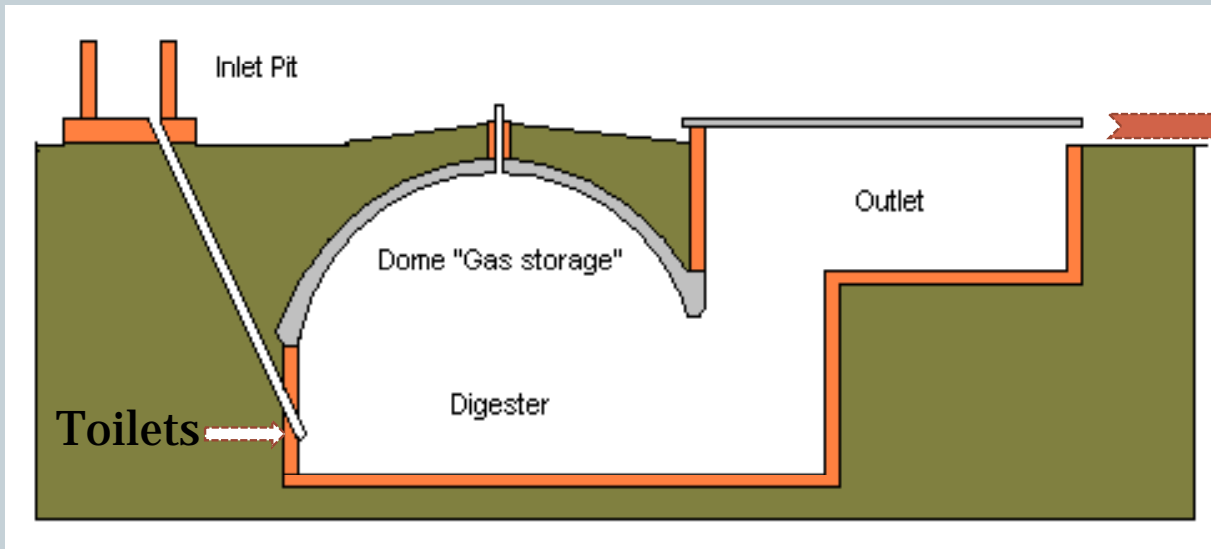


## Energy for cooking



## Diseases related to drinking water and hygiene

# Biogas digester



Biogas plant survey

# Biogas digester - building the dome



# Producing & testing the new method



# Testing the new method in Namsaling



# Testing the outlet slurry and compost



**Innovative reactor**



**Microbiological field lab**

**For safety use**



# Upcoming projects



- **Nepal project - Second phase 2010**
  - Dome: design and production from local material
  - Composting: awareness, testing, quality
  - Build and fund more biogas reactors in eastern Nepal
- **Wind turbine**
- **Biogas digester in the Technion and for Bedouin community**



# Thank you for your attention!

