

PROJECT PROPOSAL SUMMARY SHEET
Living Lab/Centro de Diálogo y Transformación Inc.
Regional Centre of Expertise on Education for Sustainable Development:
Borderlands México-USA

Name of the Project: CURRENT PROJECT 12. “Plan México Zero Hunger” Demonstration Site and Learning Centre in Santa Isabel, Chihuahua México

Project Summary link on United Nations University Website:

<http://www.rcenetwork.org/portal/node/3618?user=975&year=2018>

Objectives:

Through this Project we aim to:

1. Produce world class seed for organic produce and medicinal plants
2. Create a seed bank
3. Conduct research about diverse varieties of edible plants apt for all regions of the State of Chihuahua
4. Completely restore the soils at the demonstration site
5. Help regional farmers to restore and sustainably use their own soils
6. Create an agricultural science lab to address local conditions and challenges related to sustainable organic agriculture
7. Propagate our sustainable development model in diverse communities throughout the country
8. Train and certify experts in sustainable development
9. Train and certify experts in bio-architecture and sustainable architecture
10. Train local communities to boost their autonomy based on sustainable development and sustainable agriculture
11. Propagate sustainable non-toxic methods of food production, i.e. hydroponics, aquaponics, drip irrigation, bio-fertilizers, etc.
12. Design and construct intelligent and truly sustainable human dwellings
13. Create off-grid decentralized communities capable of producing their energy sources, their water and all basic services, created with recycled and region-specific materials
14. Conduct research, produce and disseminate knowledge about the water cycle in order to maximize water efficiency in food production and for home uses in human habitations
15. Create, implement and institutionalize sustainable development designed to meet the basic needs of the human person and the human community
16. Produce technologies designed to optimize the autonomy of human communities and settlements
17. Produce biofuels and clean energies
18. Design and offer workshops for children, youth and adults in topical areas such as clean and renewable energy, biotechnology, bioarchitecture, biointensive organic agriculture, arts and trades, i.e. carpentry, eco-brick production, welding, etc.

Business Model: How will the Project become self-sustaining before the end of the funding cycle?

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- Sale of seeds from the seed bank
- Sale of high-quality organic produce from the demonstration site to restaurants throughout the State
- Sale of conserved organic foods made from produce from the Santa Isabel site
- Offering experts services as consultants for the private and governmental sectors
- Design and teaching of workshops on clean and renewable energy, biotechnology, bioarchitecture, bio-intensive organic agriculture, arts and trades such as carpentry, welding, etc.
- Implementing government contracts to construct sustainable infrastructure for communities within their jurisdiction
- Consultancy and training for construction companies in sustainable design, in green buildings, renewable energy, sustainable water usage, as well as sewage and waste water treatment.
- Conferences to disseminate and replicate sustainable development techniques worldwide

Activities to date:

- Workshops and trainings on Biointensive Agriculture and Sustainable Organic Architecture throughout the State of Chihuahua, México
- Design presentation in Tijuana, B.C. of an Earthship-style green building. This is the first Earthship created in an urban environment in México
- Six-month training to Non-Profit 'Las Hormiguitas' in Tijuana, B.C.. This is an organization made up of twelve women who seek to create and disseminate sustainable dwellings, or Earthships. The project was carried out in collaboration with Four Walls International
- Conference in San Diego, California USA on recycling tires
- Border 2020 Conference for the US Environmental Protection Agency and COCEF in San Antonio, TX
- Presentation about the Tijuana Earthship Project at the International Border Energy Forum in El Paso, TX USA
- 'Plan México Zero Hunger' #36, created through 'México Initiative 2011' in collaboration with 'Agriculture and Evolution A.C.'
- Bio-construction, Agriculture & Water Collection in Inápuchi, Guachochi, Chihuahua. Workshop with Indigenous People
- Conference for Chihuahua State Government on Sustainable Development in Indigenous Communities in the State
- University Lectures on Urban Planning & Sustainable Entrepreneurship
- Santa Isabel Watershed Recovery Project- Tech 2 University
- Winner of PACMYC 2007 Award with the project titled 'Production and Domestication of Endemic and Native Plants Utilizing Biointensive Organic Agriculture
- Winner- 'Constructing a Sustainable Chihuahua' sponsored by Chihuahua Cement Group in 2017
- Director and Planner of a 'Sustainable City Plan' in the Municipality of Santa Isabel, Chihuahua

Looking toward the future: What do you hope to achieve?

- We hope to be recognized and certified by the Federal Government as the National Institute for Sustainable Development in order to propagate at least one training center in each state and in each region of the country.

Project Implementation Timeline:

TASK	Jan. to Dec. 2019	Jan. 2005 forward	July through Dec. 2019	Jan. 2005 forward	July 2019- forward	July 2019 forward	July 2019 forward	Jan. 2005 forward
Launch seed production & seed bank								
Conduct edible plant research								
Restore soils at the demo site & in local farms								
Create Ag. Science Lab								
Propagate SD Model in communities								
Train & Certify SD & Bioarchitecture Experts								
Offer community SD Training								
Offer Food Production Methods Training								
Design and construct Intelligent Sustainable buildings								
	July 2019 forward	July 2019 forward	Jan. 2021 forward	Jan. 2016 forward	Jan. 2005 forward			
Begin Community Off-grid H2O & Energy Project								

Develop Sustainable H2O for Ag. & Homes Project								
Institutionalize SD throughout México								
Launch & promote Community Green Technology Autonomy								
Offer Children, Youth, Adult SD Trainings								

Proposed Budget:

Implementation Steps	Quantity	Cost Provider 1	Cost Provider 2	Estimated Cost	Actual Cost	Difference
Seed production & seed bank				USD \$ 15,000.00		
Edible plant research				USD \$ 12,239.00		
Soil restoration at demo site & in local farms				USD \$12,374.54		
Create Ag. Science Lab				USD \$123,745.38		
Propagate SD Model in communities				USD \$494,981.52		
Train & Certify SD & Bioarchitecture Experts				USD \$247,490.76		
Community SD Training				USD \$ 247,490.76		
Food Production Methods				USD \$ 123,745.38		

Training at demo site						
Intelligent sustainable buildings				USD \$ 593,977.83		
Community off-grid H2O & Energy Training				MN \$ 150,000.00 x module		
Sustainable H2O for Ag. & homes Training				MN \$ 250,000.00		
Institutionalize SD throughout México				USD \$ 1,000,000.00		
Training for community green technology autonomy				USD \$7,424.72 x module		
Children, Youth, Adult SD Trainings				USD \$ 50.00 x instruction hour		
					Subtotal	USD \$3,528,519.89
Living Lab/Centro de Diálogo y Transformación Administrative and Implementation Fee (20%)						USD \$705,703.98
					TOTAL	USD \$4,234,222.98

NOTE: THE AFOREMENTIONED BUDGET ESTIMATE IS PROPOSED BY PLAN MÉXICO, ZERO HUNGER, NOT BY LL/CDT OR RCE BORDERLANDS MÉXICO-USA.

Regional Centre of Expertise:

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Thank you!