UC, and the Center for Public Policies UC in the reconstruction initiative for Maule

December 07, 2010
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1. EMERGENCY RESPONSE: OPERATING Curepto - Hualañé

Operating Generation Curepto - Hualañé
05 - 13 March 2010

• **Objective:** To support the municipality in emergency situations and develop a project to rebuild the damage caused by the earthquake of 27 February.

**Participation:**
• **5 Schools:** Construction, Nursing, Medicine, Engineering and Social Work.
• **3 Facultys:** Faculty of Architecture, Design and Urban Studies.
  Institute of Geography and Institute of Sociology.
  Center for Public Policies UC
• **25 teachers**
• **30 professional UC**
• **100 students**
1. EMERGENCY RESPONSE: OPERATING Curepto - Hualañé

**Housing and Infrastructure:**
Identification of physical damage in houses and buildings with historical value generated by the earthquake.

**Social**
Identification of family status as a consequence of the earthquake, and their resources and assets in this situation, and focused the direct intervention on vulnerable groups.

**Health**
Diagnose health emergency and support in health care and rural hospital.
1. EMERGENCY RESPONSE

Name: SOS UC - Easter
Commune: Pumanque (VI), Constitution (VII), San Ignacio (VIII), Portezuelo (VIII)
Objectives: Support the construction of emergency housing (mediaguas).
UC Contribution: Volunteers who built homes in the communities mentioned, reflections on the situation with the volunteer and leisure activities.
Product: 95 emergency housing (mediaguas), 3 x 6 mts.
Executors: The organization made the FEUC and ASAC. Attended by about 250 volunteers
1. EMERGENCY RESPONSE

Name: Design and construction of emergency housing progressive VEP
Commune: Curepto
Objectives: Emergency Housing Building 15 Progressive VEP technology
designed by the Wooden Center UC
UC contributions: VEP Design certification UC, Transport, Construction, Installation
and VEP Grant.
Products: Built and Certified Houses
Executors: Juan Ignacio Baixas, Christian Schmitt, 10 tutors and 60 students
2. RECONSTRUCTION PROJECT

Focus / Objective:
"Channeling the institutional commitment to the University as a whole, displaying the different schools and knowledge to serve the communities affected by the earthquake."

Operating Structure:
Executive Committee: Ignacio Irarrázaval, Maria Rosa Millán, Gonzalo Valdivieso, Joaquin Walker and Rosario Lavandero.
Weekly meetings during the first semester and periodically during the second half.

Executive coordinator: Rosario Lavandero

Academic Committee: representatives from different faculties (Social Sciences, Engineering, Agriculture and Forestry, Medicine, History, Geography and Political Science, Architecture, Design and Urban Studies, FEUC).

- Resource Management with Friends UC, contributions to residential home for the elderly and heritage corridor Curepto, the same commune.
2. RECONSTRUCTION PROJECT

- **Puentes UC** working model with municipalities in the Region of Maule. Santiago coordination meetings with teachers and students. Coordination meetings and progress in the work involved. Coordination meetings with local counterparts (municipality)
## 2. RECONSTRUCTION PROJECT

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LOCATION</th>
<th>OBJECTIVE</th>
<th>EXECUTORS</th>
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</thead>
<tbody>
<tr>
<td>Evaluation and Management proposed new residential home for the elderly Father José Cappel</td>
<td>Curepto</td>
<td>Designing an optimal management model for the operation of the new residential home for the elderly Father José Cappel</td>
<td>Civil engineering students (6th year), of the Project Evaluation Course, led by Professor Luis Abdon Cifuentes</td>
</tr>
<tr>
<td>Agricultural Cadastre</td>
<td>Curepto</td>
<td>Update information PRODESAL farmers.</td>
<td>Professor Ivan Peña. Sergio Celis and 120 students of agronomy</td>
</tr>
<tr>
<td>Churches Proyectual lifting Maule Region</td>
<td>Curepto, La Huerta, Putú and Hualañé.</td>
<td>Reconstruction Project to develop a partnership and providing assistance, given the gravity of the situation sheet</td>
<td>Professor Alex Moreno, Cristián Larraín and 9 students in the workshop.</td>
</tr>
<tr>
<td>Identifying and supporting community organizations Curepto</td>
<td>Curepto</td>
<td>Encourage participation and improve the relationship between community organizations and the municipality, for the reconstruction work of the commune.</td>
<td>Students of Sociology (5th year), supervised by Marjorie Murray</td>
</tr>
<tr>
<td>SOS UC – Easter</td>
<td>Pumanque (VI), Constitución (VII), San Ignacio (VIII), Portezuelo (VIII)</td>
<td>Support emergency housing building (mediaguas), and reflection on the situation with the volunteer and leisure activities</td>
<td>FEUC and CAAE 250 volunteers</td>
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## 2. RECONSTRUCTION PROJECT

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<tr>
<td>Prende UC</td>
<td>Licantén</td>
<td>To develop an efficient, low cost and sustainable energy system to generate electricity in emergencies.</td>
<td>Students of College UC</td>
</tr>
<tr>
<td>Social Assessment in Schools</td>
<td>Curepto</td>
<td>Optimize resources and improve the quality of education in Curepto</td>
<td>Civil Engineering students (5º year), Course Project Social Assessment. Luis Abdon Cifuentes</td>
</tr>
<tr>
<td>Design and support in building Provisional Church</td>
<td>Hualañé</td>
<td>Recover the prayer meeting space for the community</td>
<td>LMB Architects.</td>
</tr>
<tr>
<td>Legal Assistance Operating</td>
<td>Curepto y Hualañé</td>
<td>Guide and support the people giving advice on legal matters</td>
<td>15 law students and 5 lawyers .</td>
</tr>
<tr>
<td>Info graphics design for the reconstruction of Maule</td>
<td>Vichuquén, Licantén, Hualañé, Curepto, Chanco, Pelluhue y Cauquenes.</td>
<td>Designing a user-friendly format to disseminate important information</td>
<td>Sergio Ramirez, Christian Edwards and Info graphics course students</td>
</tr>
<tr>
<td>Characterization of citizen participation of community organizations</td>
<td>Curepto</td>
<td>Gather information about how organizations operate in Curepto</td>
<td>Javier Azocar, Sociology student, supervised by Marjorie Murray</td>
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## 2. RECONSTRUCTION PROJECT

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<tr>
<td>Recovery heritage buildings Corridor José Miguel Carrera</td>
<td>Curepto</td>
<td>Maintenance and recovery of listed buildings of the main axis of the village community to maintain its urban character pre-earthquake.</td>
<td>Claudio Vásquez, Alejandro Crispiani, Francisco Prado, Architecture students</td>
</tr>
<tr>
<td>Design and construction of Progressive Emergency Housing (VEP)</td>
<td>Curepto</td>
<td>Construction of 15 Progressive Emergency Housing VEP, designed with technology of the Wooden Center.</td>
<td>Juan Ignacio Baixás, Cristián Schmitt, 10 academics, 60 students</td>
</tr>
<tr>
<td>Proposal development: Reconstruction Our Lady of the Rosary Parish</td>
<td>Curepto</td>
<td>Submit a final solution for the recovery of the parish</td>
<td>Rodrigo Pérez de Arce, Arturo Lyon</td>
</tr>
<tr>
<td>Design and construction of new social headquarters for Cancharayada town</td>
<td>Curepto</td>
<td>Replacement and development of equipment to strengthen the Neighborhood Board Cancharayada</td>
<td>Centro de la Madera, Paula Martínez, 10 students</td>
</tr>
<tr>
<td>Design, resource management, coordination of actors and support in the construction of the new residential home for the elderly</td>
<td>Curepto</td>
<td>Residential home for the elderly reconstruct destroyed by the earthquake and tsunami that struck our country in February 2010</td>
<td>Paula Martínez, UC Wooden Center</td>
</tr>
</tbody>
</table>
2. RECONSTRUCTION PROJECT

a) SOCIAL AREA

PROJECT SHEET No. 1

Name: Identify and support community organizations Curepto.
Commune: Curepto
Objective: To promote participation and improve the relationship between community organizations and the municipality for the reconstruction work of the commune.
UC Contribution: Identification and mapping of the organizations, development of manual work and support the establishment of the Communal Committee Curepto.
Product: Cadastre and Map of community organizations, manual work.
Executors: Students of Sociology 5th year, supervised by Marjorie Murray.
Students in Social Work Practice
2. RECONSTRUCTION PROJECT
   a) SOCIAL AREA

PROJECT SHEET No. 2
Name: Characterization of citizen participation of community organizations
Commune: Curepto
Objective: To gather information about how they operate in organizations Curepto.
UC Contribution: Study and characterization
Product: Study
Executors: Javier Azocar, Sociology student, supervised by Marjorie Murray.
2. RECONSTRUCTION PROJECT

a) SOCIAL AREA

PROJECT SHEET No. 3
Name: Social Assessment Community Schools
Commune: Curepto
Objectives: To optimize resources and improve the quality of education in Curepto.
UC Contribution: Social Assessment Project, incorporating quality indicators, resources, infrastructure and distance to the reconstruction, closing and merging schools.
Executors: Civil Engineering Students (5º year) Course Project Social Assessment, led by Professor Luis Abdon Cifuentes.
2. RECONSTRUCTION PROJECT

a) SOCIAL AREA

DRAFT STATEMENT No. 4

Name: Legal Aid Operations
Commune: Curepto and Hualañé

Objective: To guide and support the people giving advice on legal matters.

UC Contribution: Personalized advice to 65 residents.

Product: Final Report of Labour and prioritization of most frequent complaints.

Perpetrators: 15 law students and 5 lawyers
2. RECONSTRUCTION PROJECT
a) SOCIAL AREA

DRAFT STATEMENT No. 5

Name: Designing Info graphics for the reconstruction of Maule Commune: Vichuquén, Licantén, Hualañé, Curepto, Chanco, Pelluhue and Cauquenes.

Objective: To gather information relevant to the process of rebuilding communities and design a user-friendly format to make it known.

UC Contribution: Design of material.

Product: Computer Graphics

Executors: Sergio Ramírez, Cristian Edwards and Infographics course students.
2. ReconstruUCtion Project

b) PRODUCTIVE AREA

DRAFT STATEMENT No. 6

Name: Agricultural Cadastre
Commune: Curepto
Objective: To update information PRODESAL farmers.

UC Contributions: Making 240 surveys, mobilization and transfer of students pollsters and implementation, training and database management.

Product: Cadastre and data management system.

Executors: Prof. Iván Peña. Sergio Celis and 120 students of agronomy.
2. ReconstruUCtion Project

b) PRODUCTIVE AREA

DRAFT STATEMENT No. 7

Name: Turn UC
Commune: Licantén
Objective: To develop an efficient system, affordable and sustainable, to generate electricity in case of emergency, allowing the replication of the model by the community.

UC Contributions: System replicable in other schools in the district, instruction manuals and operational models.

Product: Operating instructions, bicycles installed.

Executors: UC College Students.
2. Reconstruction Project

c) CONSTRUCTION AREA

DRAFT FORM No. 1

Name: Reconstruction Proposal Development Our Lady of the Rosary Parish
Commune: Curepto
Objectives: Provide a final solution for the recovery of the parish.
UC Contributions: Structural Assessment, Proposal for the conservation and repair design.
Products: Draft interim clearance and redevelopment project.
Executors: Rodrigo Perez de Arce, Arturo Lyon, architects and teachers PUC.

[Images of damaged interior]
2. Reconstrucción Project

c) CONSTRUCTION AREA

DRAFT STATEMENT No. 2

Name: Design and construction support in the Provisional Church.
Commune: Hualañé
Objectives: Retrieve the meeting and prayer space for the community.
UC Contribution: Design by LMB Architects office, financial support ($ 5 million) and assistance in the execution of the work).
Product: Church built.
Executors: LMB Architects.
2. Reconstructor Project
   c) CONSTRUCTION AREA

DRAFT FORM No. 3

Name: Survey Proyectual Iglesias Maule Region
Commune: Curepto, La Huerta, and Hualañé Putú.
Objectives: Develop a Reconstruction Project delivering collaboration and assistance, given the gravity of the situation sheet.
UC Contributions: Layout Course Fitness Workshop, hours teachers, laboratory models and prototypes, folders and documents.
Products: Plans, study and proposal sketches, 3D models, digital model
Executors: Professor Alex Moreno, Cristián Larraín and 9 students in the workshop.
2. Reconstrucción Project

c) CONSTRUCTION AREA

DRAFT STATEMENT No. 4

Name: Heritage Building Recovery
Commune: Curepto
Objective: Maintenance and recovery of listed buildings main axis of communal village to maintain its pre-earthquake urban character.
UC Contributions: Projects for the recovery of buildings.
Management and support of shoring up dilapidated buildings
Product: Conservation and heritage restoration project of 5 buildings.
Executors: Claudio Vásquez, Alejandro Crispiani, Francisco Prado and students
2. ReconstruUCTION Project

c) CONSTRUCTION AREA

DRAFT STATEMENT No 5

Name: Design and construction of new social headquarters for the town of Cancharayada
Commune: Curepto
Objective: Replenishment and development of equipment for the strengthening of the Neighborhood Board Cancharayada.
UC Contributions: Design and implementation of workshops for the design community based participatory, donation of building materials and equipment, transportation, fabrication of panels, seat assembly.
Product: Built Headquarters.
Executors: Paula Martinez and 10 students from Hall of Title
2. ReconstruUCtion Project

c) CONSTRUCTION AREA

DRAFT FORM No.6

Name: Design, resource management, coordination of actors and support in home building.
Commune: Curepto
Objectives: To Rebuild residential home for the elderly destroyed by the earthquake and tsunami that struck our country in February 2010.
UC Contributions: Contribution presented by Friends UC, project development and plans, UC faculty hours, contributions managed by UC.
Products: Plans, letters of intent and agreements set to private.
Executor: Paula Martinez and Wood Center UC
3. OTHER PROJECTS 2010

Seminar "Reconstruction after emergency ... WHAT?"
Center for Public Policy
Finance: Center for Public Policy

Seminar on "Land Policy Challenge for Reconstruction: The readjustment of land as an alternative" and Workshop
Center for Public Policy, Ministry of Housing and Urban Development
Finance: Lincoln Institute of Land Policy

Diagnosis Convention Center Coastal Villages Region Maule O'Higgins
Institute of Urban Studies, Institute of Geography
Finance: SUBDERE.
Habitabilidad
4. HABITABILIDAD PROGRAM

Habitabilidad is intended to rally the research of different UC academic units made in areas of housing, neighborhood and community, in order to provide knowledge, discussion and innovation in the residential sector-related policies at all levels.

The discussion is focuses on the immediate physical space of the family and its relationship to quality of life, both the physical dimension, the social aspects of the community and family, and from environmental variables.

Action Areas

→ Social Emphasis
   Neighborhood Identity, Healthy Housing, Social empowerment, Public Spaces.
→ Housing Technical Assistance
   Expansion, improvement and home repair, Energy Efficiency in Housing
→ Environment and Sustainability
   Sustainable Development. Energy efficiency, Measuring energy consumption
4. HABITABILIDAD PROGRAM

Projects Implemented - Housing Technical Assistance

1. Habitabilidad Receptions
   Technical inspection of the interventions made by the Chile Solidario program in habitability conditions of vulnerable households.
Projects Implemented - Housing Technical Assistance

2. Recepciones and Habitabilidad Autogestionada Program Study assessment

*Evaluation of Recepciones FOSIS*
Study of the reception stage of Habitability Program. The final product was the definition of a set of standardized instruments for reception process, and creating a system of recording the results of unified national receptions. We developed an initial pilot stage on RM.

*Habitabilidad Autogestionada Assessment:*
The study is a review of the implementation of this program by studying cases in three regions: Coquimbo, Valparaiso and Metropolitan. Among the recommendations that fearlessness this study, it is recommended to improve aspects of program management, incorporate new elements in the empowerment of families and give prominence to the technical aspects of the program.
4. HABITABILIDAD PROGRAM

Projects Implemented - Housing Technical Assistance

3. Satisfaction Study Habitability Chile Solidario program and technical evaluation of the sustainability of interventions in the housing.
4. HABITABILIDAD PROGRAM

Projects Implemented - Housing Technical Assistance

4. Housing Extensions

This project was to provide comprehensive counseling to 66 families involved in the project “Ampliaciones Vivienda Nueva”, by subsidizing housing extensions (PPPF). This advisory group included the organization, design, architectural design, structural design, construction planning and budget, the technical control of the work during execution, making representations to the municipality (DOM), and developing a social empowerment plan.
4. HABITABILIDAD PROGRAM

Projects Implemented - Housing Technical Assistance

4. Home Improvement seniors (Nocedal III)

For this project, interventions were made in the homes of the habitants of the Condominium, as well as designed and implemented improvements to public areas of the condominium (lights, and shaded troughs). Habitabilidad developed a management plan for SENAMA to their administration.
4. HABITABILIDAD PROGRAM

Projects Implemented – Environment and Sustainability

1. Creating residential energy consumption measurement tool
The aim of this instrument was to measure the energy consumption of households, obtaining disaggregated data on the use of electricity and fuel. This is the first stage of the project, which involved the creation of the survey and the pre-test was applied to 50 homes in the RM.

2. Course Energy Efficiency in Buildings
Since the award of the tender for the energy program "capacity building courses in the energy field" of CONICYT, we developed this training activity. This course was conducted by a team of scholars consisting of Leonardo Meza (Construction), Waldo Bustamante and Claudio Vásquez (Architecture) and Douglas Leonard (Design).
4. HABITABILIDAD PROGRAM

Projects Implemented – Environment and Sustainability


Training cycle "Environment, Recycling and Public Spaces", aimed at community workers Peñalolén commune.
5. CENTER FOR PUBLIC POLICIES UC IN RECONSTRUCTION

A) Land Readjustment Project
Center for Public Policies – Prourbana Program
Lincoln Institute of Land Policy

B) Disaster management manual
Center for Public Policies – Prourbana Program

C) Social Housing Prototype User Manual
Center for Public Policy, Centre for Wood Construction and Design School.
DECON UC
Finance: MINVU

D) Repair manual, damage type and standard solutions
Center for Public Policy – Habitabilidad Program- DECON UC
Finance: MINVU

E) Housing design of recyclable materials
Center for Public Policies – Habitabilidad Program
TU Berlin
5. CENTER FOR PUBLIC POLICIES UC IN RECONSTRUCTION

a) Land Readjustment Project
Center for Public Policies – Prourbana Program
Lincoln Institute of Land Policy

Abstract:
The land readjustment system opens a third way, considering the participation of citizens in rebuilding their homes (individual decision), but also their cities (joint decision). In this line, we designed a pilot reconstruction in a traditional neighborhood in the city of Talca, using the principles of land readjustment, which has been applied by various countries like Japan and Colombia, to reconstruct, in terms of potential development and application, the neighborhood in the future, allowing families living in these neighborhoods to remain there.
5. CENTER FOR PUBLIC POLICIES UC IN RECONSTRUCTION

a) Land Readjustment Project
Center for Public Policies – Prourbana Program – Co Habitabilidad Program.
Lincoln Institute of Land Policy

General Objective: To evaluate the feasibility of using the Land Readjustment (RT) as an alternative for the redevelopment of areas affected by the earthquake and tsunami of 27 February 2010 in Chile
Specific Objective: Develop a pilot project for the neighborhood Las Heras de Talca that is based on the principles of Land Readjustment

Partners:
- ALC Real Estate
- Polis Urban Architecture
- Municipalidad de Talca
- Seremi MINVU Talca
- Neighborhood Council Barrio Las Heras Talca
5. CENTER FOR PUBLIC POLICIES UC IN RECONSTRUCTION

b) Disaster management manual
 Center for Public Policies – Prourbana Program

Abstract: Developing a disaster management manual for the Ministry of Housing. This manual includes literature review, interviews, analysis and recommendations for coping with disasters in their areas of competence.

Key issues in disaster management manual:

1. Institutional Strategy
2. External Coordination
3. Data Collection
4. Assistance Scheme
5. Communications Strategy
6. Urban Planning
7. Citizen Participation
8. Financing
9. Regulations
5. CENTER FOR PUBLIC POLICIES UC IN RECONSTRUCTION

c) Social Housing Prototype user manual
Center for Public Policy, (Habitabilidad Program)
Finance: MINVU

Abstract:
Development of two prototypes of housing, timber frame, accompanied by a manual by the company construction.

Partners:
- DECON UC
- Desing School
- Architecture School
- MINVU (Housing Ministry)

Two types of housing (isolation and continuing) manuals:
5. CENTER FOR PUBLIC POLICIES UC IN RECONSTRUCTION

d). Repair manual, damage type and standard solutions
Center for Public Policy – Habitabilidad Program
Finance: MINVU

Abstract:
Development of a manual for reconstruction: Records to guide the repair of damaged houses. Led to construction companies

Partners:
- Centre for Wood
- Construction School
- Desing School
- Housing Ministry

![Image of repair manual and diagrams]
La UC
ayuda a
Chile