

ELEMENTAL

ELEMENTAL
<http://www.elementalchile.cl>
Santiago, Chile

PRES CONSTITUCION

Category: urban plans
Location: Constitucion, Chile
Project Year: 2012



dms 35°19'15.3"S 72°24'35.4"W
elevation 22 m

“ELEMENTAL decided to face this geographic threat by offering a geographic response by introducing a tsunami mitigation park, with the objective of resisting the energy of the waves and at the same time creating a more democratic access to the river”.



On February 27, 2010, the “27 F” earthquake, ranked as the sixth-largest earthquake ever recorded, took place. It was felt strongly in six Chilean regions, affecting about 75 percent of the country’s population, equivalent to over 12 million people. Five cities of more than 100,000 inhabitants, 45 towns of over 5,000 inhabitants, and more than 900 villages and communities were partially devastated or endured extensive damage of urban settlements; over 530 people died; 93 percent of the country experienced energy blackouts.

Right after the earthquake, a task force was conceived in order to set up a comprehensive recovery master plan that could deal with the damages and orient the reconstruction of the towns. Chilean Department of Urbanism (MINVU) established a series of conditions for the development of these plans called PRES, or Plan de Reconstrucción Estratégico Sustentable, acting through infrastructure, public space, housing, tourism, energy and other projects, with studies of implementation and technical evaluations, according to concepts of Resilient

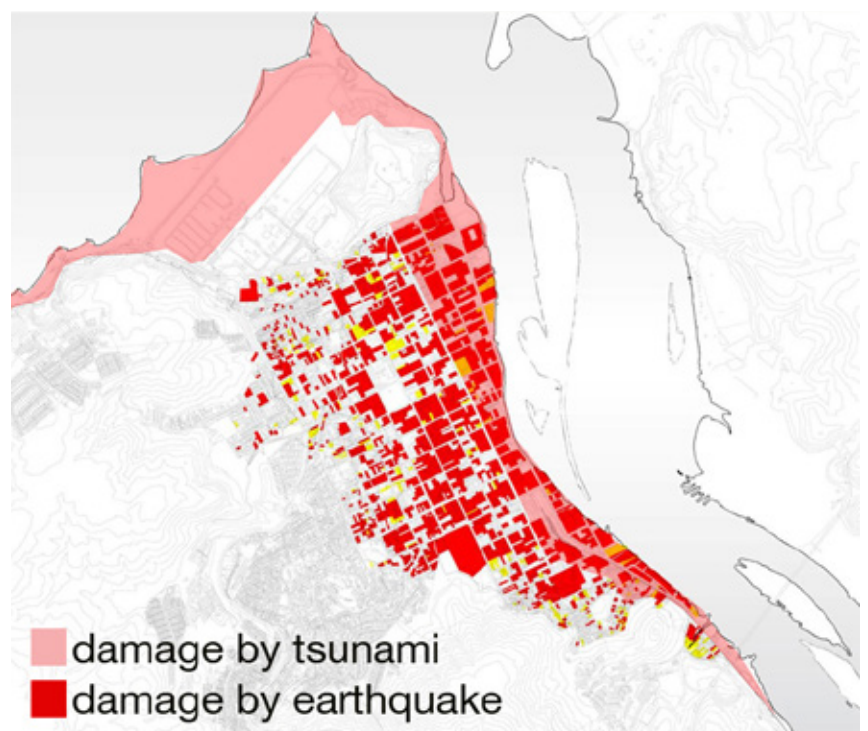
Strategic Urban Planning and with a strong participatory approach.

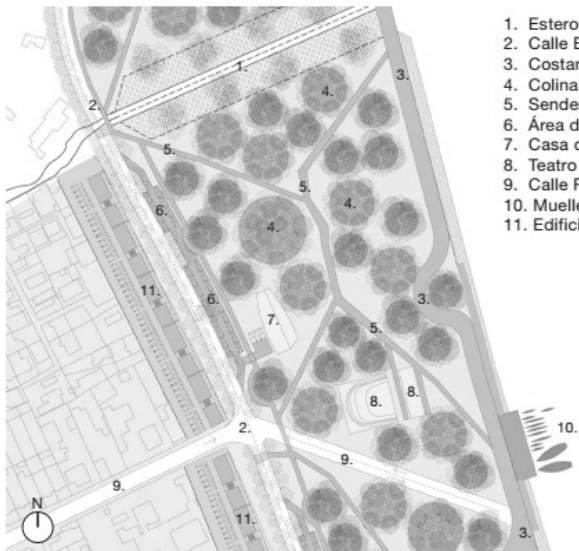
The architectural firm ELEMENTAL was in charge of the design and coordination of this plan, together with specific partnership like ARUP, the University of Talca, Fundación Chile, Tironi, and Marketek Consulting.

In this specific case, PRES Constitución, the worst damages had been created by the tsunami that followed the earthquake.



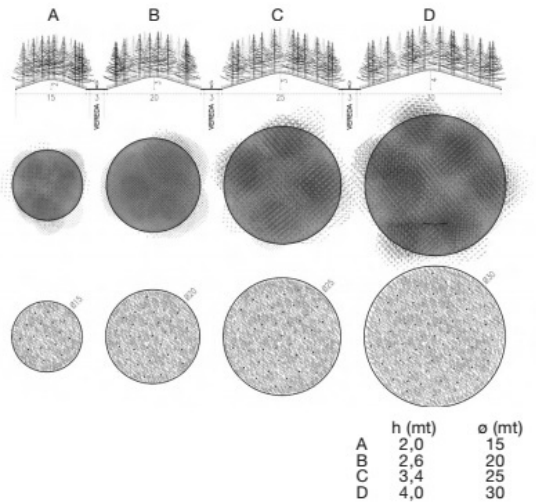
ELEMENTAL decided to face this geographic threat by offering a geographic response by introducing a tsunami mitigation park, with the objective of resisting the energy of the waves and at the same time creating a more democratic access to the river, as highlighted by the process of participatory design that the office led in the city.





1. Estero el Carbón - zona de laminación
2. Calle Echeverría
3. Costanera peatonal y ciclovía
4. Colinas de mitigación maremoto
5. Senderos peatonales interiores
6. Área de estacionamientos
7. Casa de botes existente
8. Teatro Municipal
9. Calle Rengifo
10. Muelle náutico-deportivo
11. Edificio habitacional propuesto

COLINAS DE MITIGACION



PLANTA DETALLE PARQUE SECTOR NORTE



CORTE TIPO







Credits:

PRES CONSTITUCION

Address:
Constitucion, Chile

Client:
Ministerio de Vivienda y Urbanismo (MINVU)
Ilustre Municipalidad de Constitución
Arauco

Team:
Arup, Elemental, Fundación Chile, Universidad de Talca, Municipalidad de Constitución/Intendencia y Seremi Minvu VII

Photography/Images:
ELEMENTAL

Sources:

Pablo Allard, Maria Ignacia Arrasate, *Coping with Complexity: Experiences in Post-Disaster Recovery for Extractive Towns in Chile*, in *The Camp and the City: territories of extraction*. 2016, ListLab.

<http://presconstitucion.cl/>

<http://www.elementalchile.cl/projects/pres-constitucion/>

<http://www.disenoarquitectura.cl/pres-constitucion-elemental-arquitectos/>

<http://www.plataformaurbana.cl/archive/2010/06/17/presconstitucion-vecinos-de-constitucion-aprueban-parque-fluvial-maule-y-priorizan-otros-cinco-proyectos-para-el-plan-maestro/>

Dossier:

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