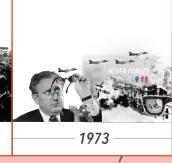


original expanded











COUP D'ÉTAT

LIBERALISM SOCIALISM

DICTATORSHIP

NEO-LIBERALISM

SOCIAL REFORM

NATIONALIZATION

PRIVATIZATION

SUBSIDIZATION







Half Housing

Elemental | Iquique, Chile | (2005)

Bria Cole - Jr. Osei Wireko - Raghd Zaqout

In the 1950s to 1960s, the Chilean central government attempted a model of individual homeownership that would imitate the American market-oriented model. In response to abysmal social housing conditions, Chileans would seize land to develop their own housing option. People would call themselves the pobladores, roughly translated to "inhabitants." Neighborhoods were built based on solidarity and shared struggle and often offered childcare, libraries, and community meals.





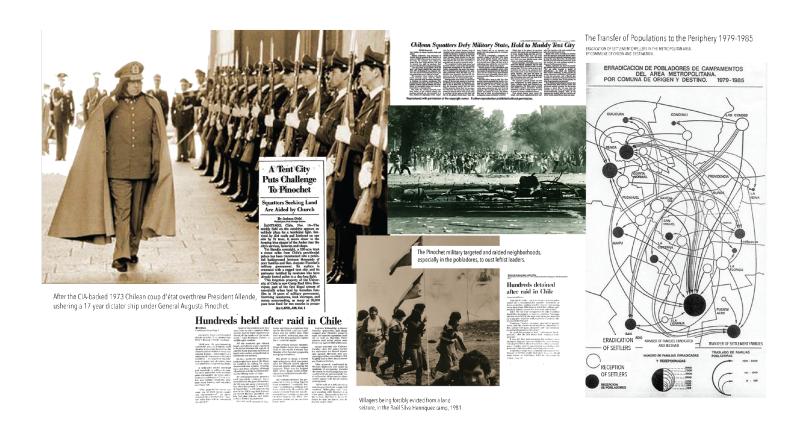
Half Housing Elemental | Iquique, Chile | (2005)

Bria Cole - Jr. Osei Wireko - Raghd Zaqout

On September 11, 1973, socialist President Salvador Allende was overthrown by the Chilean military, backed by the United States of America. General Augusto Pinochet assumed power, which began a 17-year regime that explicitly sought to exterminate anyone loyal to Allende, socialism, and leftist ideals.

Seen above are Secretary of State Henry Kissinger to the left, with Allende's broken glasses to the right.





Half Housing

Elemental | Iquique, Chile | (2005)

Bria Cole - Jr. Osei Wireko - Raghd Zaqout

General Pinochet began a massive project of targeting pobladores to capture, torture, and murder leftist leaders. The dictatorship led a massive displacement project, ejecting urban settlements to the city outskirts to pave the way for real estate transfers for the elite. Despite his brutal treatment of people, Pinochet understood that his government needed to provide social housing. The difference was the program would be market-led.





Half Housing

Elemental | Iquique, Chile | (2005)

Bria Cole - Jr. Osei Wireko - Raghd Zaqout

After 1976, the Chilean economy was restructured to liberalize and stabilize the economy, which meant financing models and foreign investment. The Chilean government began providing subsidies via donations, vouchers for a partial value of a home, or funding for home construction. This model has been adapted by different Chilean leaders. In 1993, Chile returned to representative democracy. Even if the leaders promote a socialist platform, the Chilean government follows a market-led logic. To this day, Chileans still experience widening economic inequality and precarious labor. Currently, Chileans are protesting a subway fare hike, retaliating against the increased cost of living and privatization.



Half Housing Elemental | Iquique, Chile | (2005)



Half Housing
Elemental | Iquique, Chile | (2005)

HOUSING DEFICIT

TABLE 1
Estimated Housing Deficit in Chile, 1952–2009

Year	Total Number of Homes	Deficit Estimate ^a	Deficit as Percentage of Total	Source
1952	1,051,075	242,238	23	Silva and Nieto, 1974 (MINVU, 2009: 11)
1970	1,904,761	400,000	21	Silva and Nieto, 1974 (MINVU, 2009: 11)
1988	2,426,145	856,817	35	MINVU, 1989 (Cummings and DiPasquale, 1997: Table 4)
2002	3,899,448	1,221,098	31.3	MINVU (2004: Table 9; 2009: 84)
2009	5,229,720	805,796	15.4	(MINVU projections)

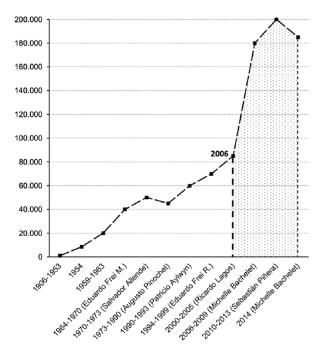
a. The methodology for deficit calculations has changed over time, and therefore the figures are not exactly comparable to one another, but they capture the general trend.

TABLE 2
The Housing Deficit in Chile, 2006–2010

	2006	2007	2008	2009	March 2010
Quantitative deficit (new housing needed) Qualitative deficit (housing in need of repair or improvements)	412,349 594,904	388,374 570,339	364,241 531,077	354,014 451,782	544,363 631,475
Total	1,007,253	958,713	895,318	805,796	1,175,838

Source: MINVU (2010).

Figure 2. Average housing units annually built in Chile per period using government resources.

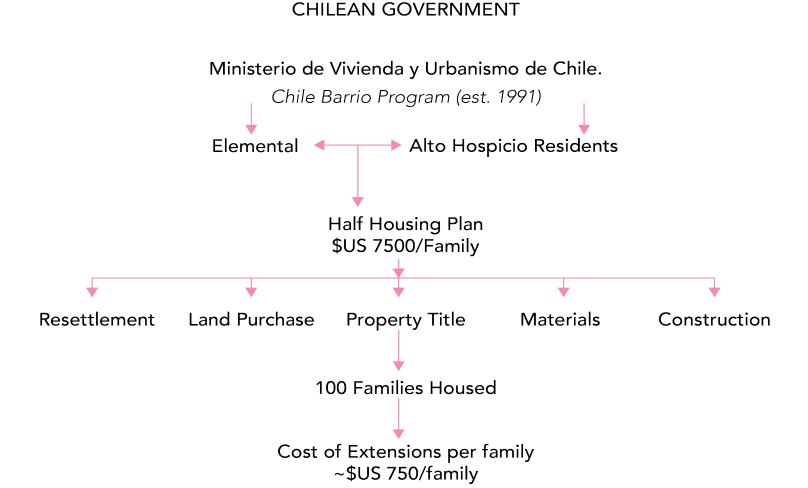


Source: Valenzuela-Levi, 2016.

Half Housing

Elemental | Iquique, Chile | (2005)

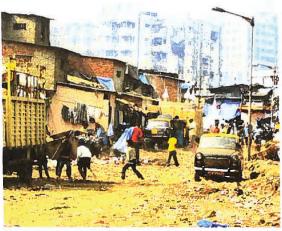
GOVERNMENT SUBSIDY SYSTEM



Half Housing

Elemental | Iquique, Chile | (2005)



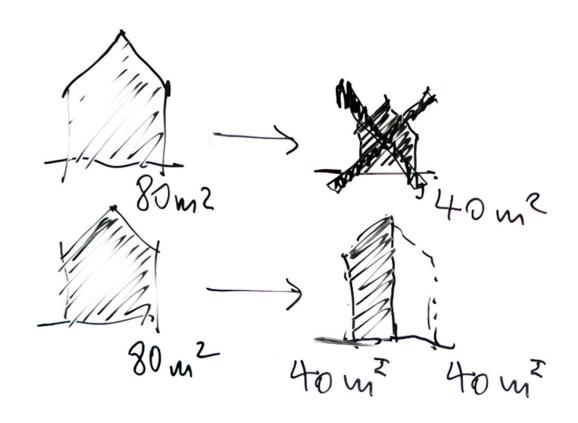




 $X = \frac{1 \text{ city x 1 million people x 1 week}}{\text{US$10,000 x 1 family x 20 years}}$

Half Housing

Elemental | Iquique, Chile | (2005)



Half a good house is better than a small house;

it gains value over time

Half Housing Elemental | Iquique, Chile | (2005)

IQUIQUE SOCIAL HOUSING BRIEF

To settle the 100 families of the Quinta OBJECTIVE:

Monroy, in the same site that they have occupied for the last 30 years in the informal

SITE: The 5,000 sqm site is located in the center of

Iquique, North of Chile.

BUGET: Families are given US\$ 7,500 subsidies per

house. This subsidy is to be taken into consideration in the design. Design cost is inclusive of land price, the infrastructure and

the architecture.

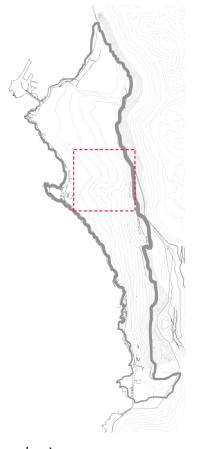
The architect is to be consciouness of the CONSIDERATIONS:

existing social structure that comprises the

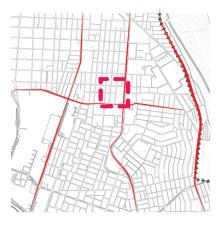
current locality.

MATERIALS: Use material to sustain structure longterm to

withstand flooding and Earthquakes.



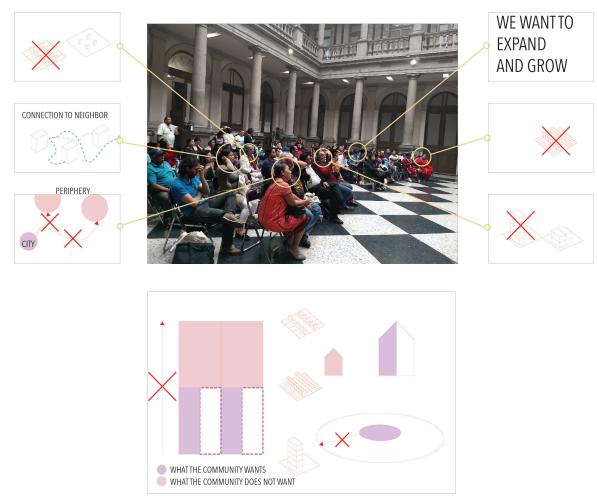






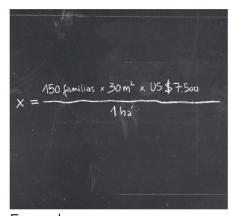
Half Housing Elemental | Iquique, Chile | (2005)

PARTICIPATORY PROCESS



DESIGN DECISIONS

Half Housing Elemental | Iquique, Chile | (2005)



Formula

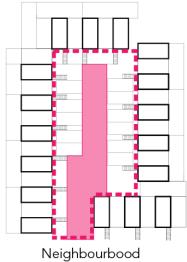
BUGET:

A framework is created that enables 150 families OBJECTIVE:

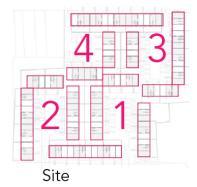
US\$ 7,500 per house. The cost includes land price, the infrastructure and the architecture.

Half Housing Elemental | Iquique, Chile | (2005)

IQUIQUE SOCIAL HOUSING BRIEF



The site is designed with a focus on neighborhood, synergies optimized by using row houses as ubran typology.

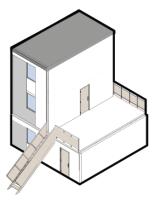


CONSIDERATIONS:

A 'collective space' is provided between the houses to include 20 families. "The collective space (a common property with restricted access) is an intermediate level of association that allows surviving fragile social conditions"

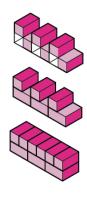
Half Housing Elemental | Iquique, Chile | (2005)

IQUIQUE SOCIAL HOUSING BRIEF



House

MATERIALS: A solid structural core that allows for future extensions.



Incremental growth

FRAMEWORK:

The project learns from the past settlement and adopts the logic of a house that is to grow with time.

Half Housing Elemental | Iquique, Chile | (2005)

RESETTLEMENT + DEMOLITION



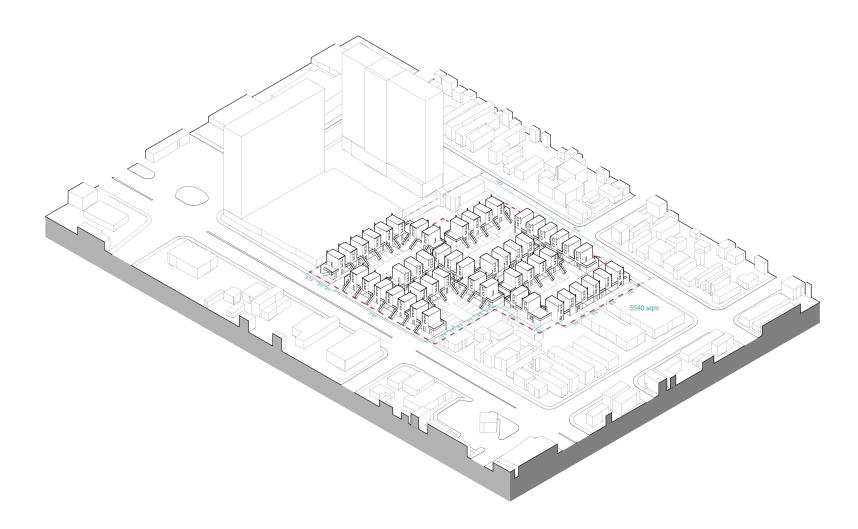
Alto Hospicio Informal Settlement



Half Housing Site Plan

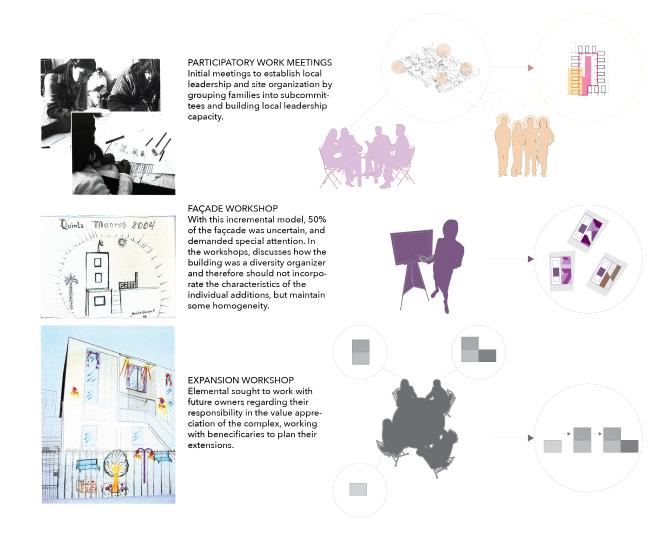
Half Housing Elemental | Iquique, Chile | (2005)

QUINTA MONROY SITE



Half Housing Elemental | Iquique, Chile | (2005)

ONGOING PARTICIPATORY PROCESS



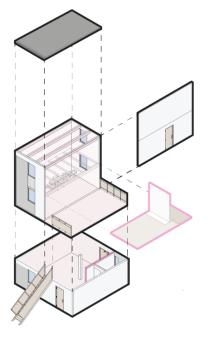
Half Housing Elemental | Iquique, Chile | (2005)

GUIDELINE TO MODIFICATIONS + EXTENSIONS

USE LIGHT WEIGHT CONSTRUCTION MA-TERIAL DUE TO STRUC-TURAL LIMITATIONS

USE STANDARD SIZE BUILDING MATERIALS EASILY ACQUIRED IN THE MARKET

DETAILS FOR ADDI-TIONS IS PROVIDED TO TENANTS UPON **MOVING IN**



CORE

INITIAL PARTITIONS



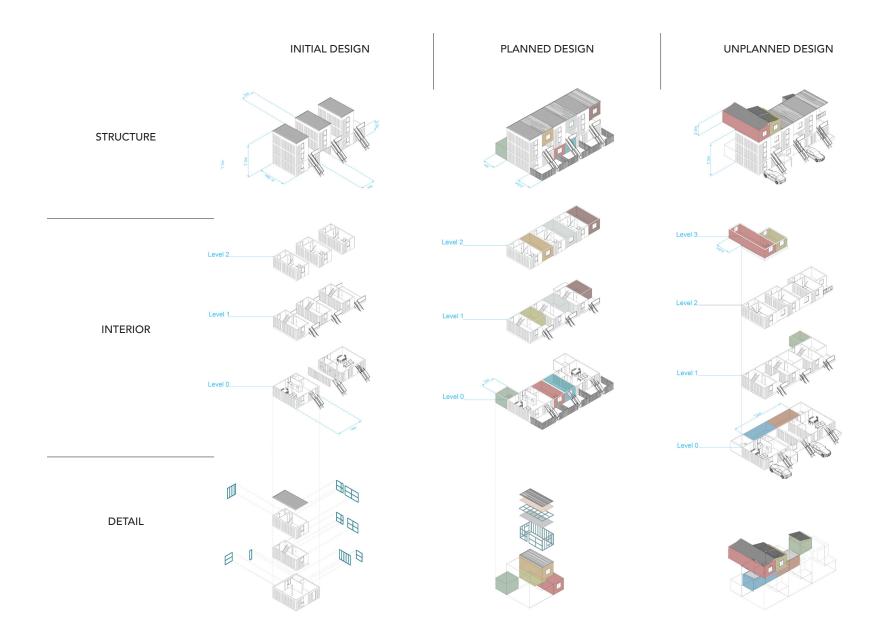




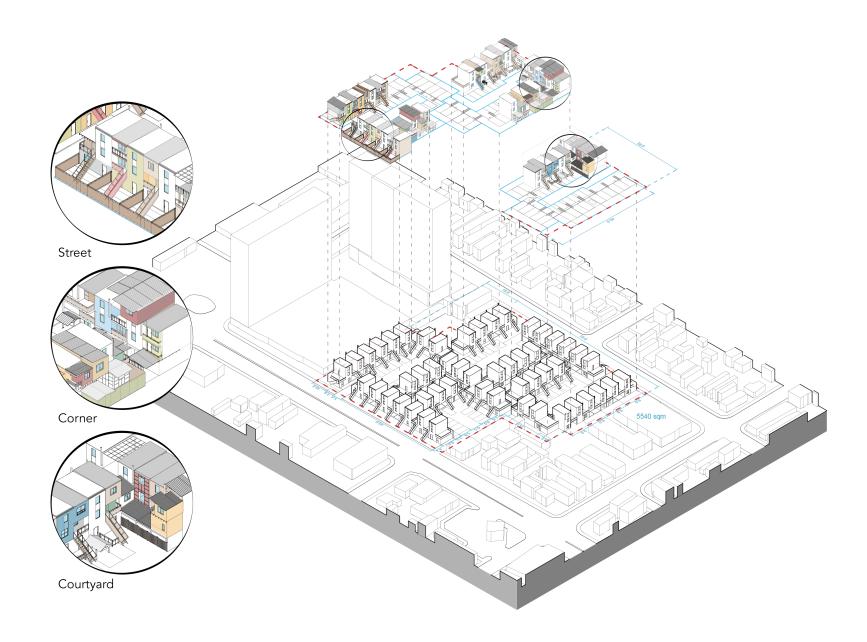


FRAME WORK OF OWNERSHIP and GROWTH

Half Housing Elemental | Iquique, Chile | (2005)

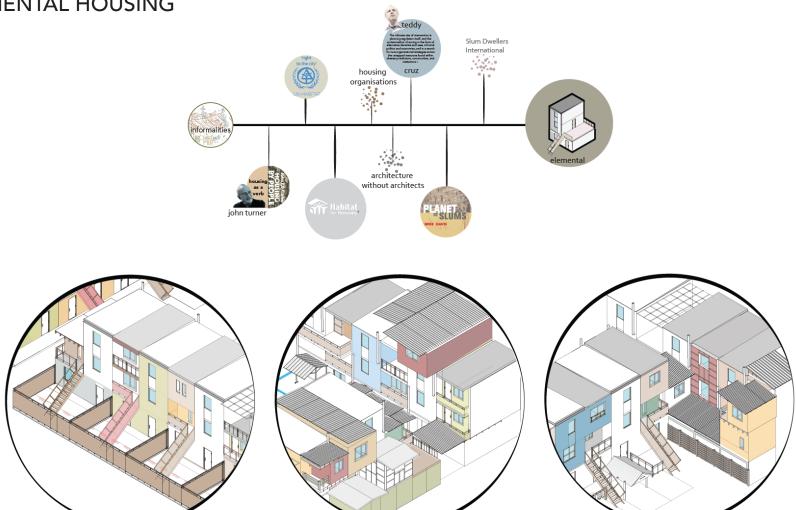


Half Housing Elemental | Iquique, Chile | (2005)



Half Housing Elemental | Iquique, Chile | (2005)

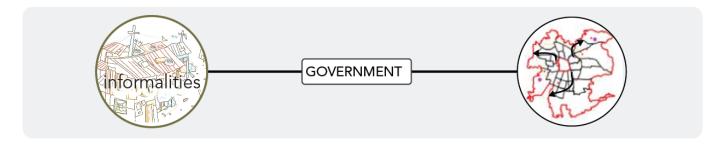
INCREMENTAL HOUSING



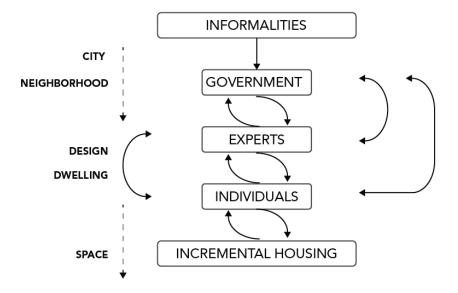
Half Housing Elemental | Iquique, Chile | (2005)



INCREMENTAL HOUSING: INFORMALITIES



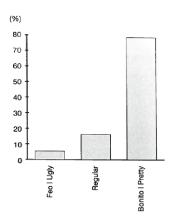
VS

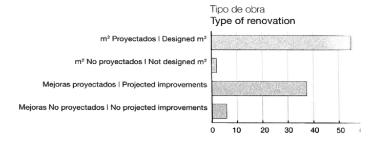


Half Housing Elemental | Iquique, Chile | (2005)

PROJECT OUTCOMES

Evaluación estética vivienda House aesthetic evaluation





REALITY AFTER COMPLETION

Residents began adding their own modifications and extension. Lightweight materials used as advised, due to structural limitations

Houses located on the main roads extended and fenced at the front

[Some] residents have started to build additional floors above the planned heights

Courtyards transformed into parking lots and as opposed to their intended function as community spaces

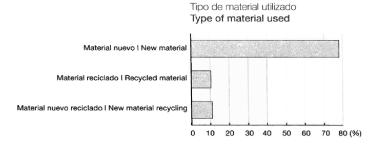
Only two of the houses remain in their original condition

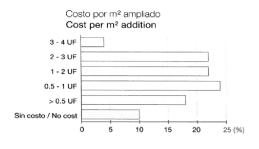
From "Elemental: Incremental Housing and Participatory Design Manual"

Half Housing

Elemental | Iquique, Chile | (2005)

PROJECT OUTCOMES





Time to workplace



VALUE APPRECIATION

The Chile Barrio program subsidized the construction at a cost of US 7,500 per family

Families, on average, spent US 750 on extensions and modification

The resultant valuation of the home appraised the homes at US 20,000 on the market

Key was "strategic design for the first half of construction that enabled easy, cheap and safe expansion"

"We were most interested in maximizing the use of public resources to create a value much greater than the sum of its parts"

From "Elemental: Incremental Housing and Participatory Design Manual"

Half Housing

Elemental | Iquique, Chile | (2005)

CHINAGUDALI, VISAKHAPATNUM, INDIA

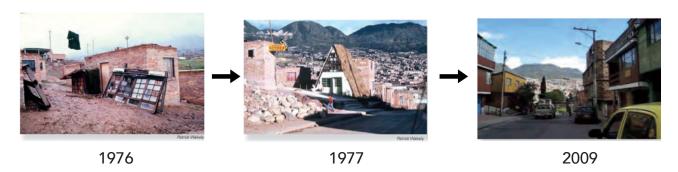
EXAMPLES



NAVAGAMPURA, COLOMBO, SRI LANKA



GUACAMAYAS, BOGOTA, COLOMBIA



Half Housing Elemental | Iquique, Chile | (2005)

OPEN SOURCE MATERIAL

Alejandro Aravena's Downloadable Housing Plans and the Real Meaning of "Open-Source Urbanism"



According to the ELEMENTAL's website, the designs were released to present an "open source that we will be able to rule out one more excuse for why markets and governments don't move in this direction to tackle the challenge of massive rapid urbanization." (ArchDaily)

Open Source broadly combines principles from multiple disciplines including software development (source codes), copyleft (modify and distribute the original), hacktivism (anti-censorship), creative licensing (Creative Commons), and academia (OER).

Fundamentally, to publish material as Open Source is to communicate that knowledge ought to be freely and openly shared, in perpetuity (with varying attributions).

Given the increasing barriers to education, to present information as Open Source is to celebrate the free flow of information and consider knowledge as vital to democratic exchange.

It may be argued that the pobladores practiced a system in which an open source mandate may not be necessary.

Half Housing

Elemental | Iquique, Chile | (2005)



