

Graduation Plan

Master of Science Architecture, Urbanism & Building Sciences



Graduation Plan: All tracks

Submit your Graduation Plan to the Board of Examiners (Examcommissie-BK@tudelft.nl), Mentors, and Delegate of the Board of Examiners one week before P2 at the latest.

The graduation plan consists of at least the following data/segments:

Personal information	
Name	Alexandra Vivian de la Vega Guzmán
Student number	5223318
Studio	
Name / Theme	AR3MBE100 Graduation Lab
Main mentor	Ellen Geurts Real Estate Management Department
Second mentor	Darinka Czischke Real Estate Management Department
Argumentation of choice of the studio	The selection of this studio was due to the researchers' interest in housing and the management part behind third sector organizations. Part of the topic of incremental housing suggests housing upgrading by the households with the assistance of third sector organizations, this is related to improving the conditions of the existing building stock.
Graduation project	
Title of the graduation project	Backing Incremental Housing The role of third sector organizations in assisting incremental housing: challenges, opportunities, and lessons for their current practice in Mexico
Goal	
Location:	Mexico
The posed problem,	Incremental housing is known to be a gradual process in which the residents improve or extend their dwelling, according to their available resources (Turner, 1976; Ortiz, 2012; Hasan, 2000; Noorlos et al., 2019). This approach once attracted the attention of policies as an affordable way to provide housing to the low-income sector (Mora et al., 2020; Wakely and Riley, 2011). But, the process of incremental housing has shown several difficulties (Greene and Rojas, 2008). Different authors suggest that the success of incremental housing can come with an assisted participation of the self-builders (Arroyo, 2013; Romero & Mesias, 2004; Breedenord, 2014). In this setting, the role of third sector organizations assisting incremental housing has been recognized (Enet, 2008; Breedenord, 2020; Park et al. 2020). This study discusses the role and practice of these organizations, located in Mexico. Where around 68.5% of housing stock has been self-produced (ENIGH, 2010) and from that 80%, didn't have any building technical advice (SEDATU, 2021).
research questions and	Main Research Question:

	<p>What are the challenges and opportunities of third sector organizations in assisting incremental housing in Mexico?</p> <p>Main Sub Research Question:</p> <p>RQ1. What is incremental housing, and what's its situation in Mexico?</p> <p>RQ2. How can third sector organizations assist the incremental housing process?</p> <p>RQ3. What are the lessons from the practice of local third sector organizations assisting incremental housing in Mexico?</p>
<p>design assignment in which these results.</p>	<p>Report presenting the main challenges and future opportunities in the assistance of incremental housing by third sector organizations in Mexico.</p> <p>The deliverables which this thesis report contains:</p> <ul style="list-style-type: none"> -Knowledge about the current situation of incremental housing /Social Production of Housing in Mexico and knowledge about how third sector organizations assist the incremental process. -Methodological analysis framework designed to analyze the incremental assistance by these organizations, including the interview protocols. -Finalized analysis frameworks: a) set of the lessons by the assistance of these organizations based on the results of the framework, b) dataset of the interviews realized, c) process diagrams to visualize the assistance process by each organization.
Process	
Method description	
<p>A qualitative type of research is suggested</p> <p>Methods and techniques Based on a literature review of the main concepts and multiple case studies from the organizations assisting incremental housing in Mexico.</p> <p>The data collection methods</p> <p>Part 01: Conceptualization Literature review <i>Document analysis:</i> Scientific papers, government documents, and institutional reports.</p> <p>Part 02: Analysis</p> <p>Multiple case study <i>Document analysis:</i> Documents from the organizations to identify organizations' objectives, their mission statement, the current scope of work, and plans.</p>	

In-depth interviews: In-depth interviews are used as the primary method of data collection to gather information from the organizations. The questions will consist of open-ended questions to analyze:

- 1) the organization (e.g., goals, motivation, decision-making)
- 2) the characteristics of their intermediation role (e.g., steps to guide de incremental process, main barriers enablers, relationships),
- 3) the results of the assistance process

Selection of case studies

The selection of the cases consists of a two-phase process. 3 cases are selected after an initial database of cases 10 cases

The first phase consists of a document review, meaning the organization's website, and hopefully the first interview with each one. The second phase consists of the selection of the cases that better match the selection criteria and also considering the organization's availability to participate in this research.

Data Analysis

The data analysis consists of bringing the raw data to **atlas.ti** to further analyze and identify similar practices and differences from the assistance process by the selected organizations

Literature and general practical preference

Literature on incremental housing has been studied, from the main concepts behind it, meaning: self-help and Social Production of Housing. Documents related to participation, community empowerment also have been reviewed.

Government documents have been studied to understand the current situation of incremental housing in Mexico.

Literature on third sector organizations has been studied to further understand their role in the assistance of incremental housing.

Also, several websites have been reviewed to better understand the contemporary problem in Mexico.

Further literature

Documents from the organizations selected and scientific papers on the topic of third sector organizations/social innovation to further consolidate the analytical framework this thesis aims to develop to further carry on each case analysis.

The main literature references

Adler, Mariana. (2012) The role of grassroots organizations in the promotion of sustainable indigenous communities in Mexico. *International Journal of Humanities and Social Science* 2(2):235-248

Bredenoord, Jan and van Lindert, Paul (2014) Backing the self-builders: assisted self-help housing as a sustainable housing provision strategy. Book [Affordable Housing in the Urban Global South](#). ISBN9781315849539

Enet, Mariana (2008) Herramientas para pensar y crear en colectivo: en programas intersectorial es de hábitat / Buenos Aires :CienciayTecnología para el Desarrollo-CYTED,. ISBN 978-987-96413-3-0

John Turner. (1976) *Housing by People. Towards autonomy in building environments*. London: Marion Boyards.

Mora, R., Greene, M., Gaspar, R., & Moran, P. (2020). Exploring the mutual adaptive process of home-making and incremental upgrades in the context of Chile's Progressive Housing Programme (1994-2016). *Journal of Housing and the Built Environment*, 35, 243–264.
<https://doi.org/10.1007/s10901-019-09677-9>

Ortiz, Enrique (2012) Producción social de la vivienda y el hábitat. Bases conceptuales y correlación con los procesos habitacionales. Habitat International Coalition HIC

Romero, Gustavo; Mesías, Rosendo (2004) La participación en el diseño urbano y arquitectónico en la producción social del hábitat. CYTED-HABYTED-Red XIV.F

Van Noorloos, F; Cirolia, LR; Friendly, A; Jukur, S; Schramm, S; Steel, G & Valenzuela, L. (2016) Incremental housing as a node for intersecting flows of city-making: rethinking the housing shortage in the global South. *Environment & Urbanization* Copyright © 2019 International Institute for Environment and Development (IIED). 37 Vol 32(1): 37–54. DOI: 10.1177/0956247819887679 www.sagepublications.com

Ziccardi & Gonzalez. (2015). Habitabilidad y política de vivienda en México. Primera edición: 30 de abril de 2015. ISBN: 978 607 02 6571 6. D.R. © 2015 Universidad Nacional Autónoma de México. Ciudad Universitaria, delegación Coyoacán C.P. 04510, México, D.F.

Reflection

1. What is the relation between your graduation (project) topic, the studio topic (if applicable), your master track (A,U,BT,LA,MBE), and your master programme (MSc AUBS)?

This research aims to take the perspective of third sector organizations to identify the main challenges and opportunities of assisted incremental housing in Mexico.

This research aims to analyze the process of assistance, which means identifying the main bottlenecks to further look for strategies to improve this process. Therefore, this research is aligned with the track of Management in the Built Environment. Since this thesis explores the impact of incremental housing in the built environment, it is aligned with the master itself: MSc Architecture, Urbanism and Building Sciences

2. What is the relevance of your graduation work in the larger social, professional, and scientific framework?

The societal relevance of this research lies in the current role that incremental housing plays in developing countries. A large amount of housing units has been developed this way and literature suggests that people will continue building incrementally, therefore efforts have to be made to assist this incremental housing process.

In terms of scientific relevance, the research on incremental housing has focused on understanding independently the elements that impact the model (e.g., land, finance, building materials/labor, infrastructure). Also, has sought to examine the incremental process from the household perspective. However, little research has been developed to understand the role, relationships carried out with other actors, barriers, enablers. Hopefully, the outcome of this research can be the starting point of further research on developing strategies directed for third sector organizations working in this assistance.