Abstract

About forty percent of the inhabitants of the Venezuelan capital, Caracas, live in informal neighborhoods usually built on invaded land. In recent years a new type of unauthorized settlement is appearing in the city. Low-income inhabitants are invading vacant buildings creating vertical slums. The most impressive of the invasions is a “slumscraper” called “Torre de David”. This forty-five-story tower, initially designed as the luxury headquarters of a bank, is occupied by about 800 families. This paper presents the results of a research study and surveys related with residential satisfaction among the householders living in the building. The tower has serious deficiencies. Unlike other self-built communities of Caracas, where inhabitants are proud of their community and self-built dwellings, the level of satisfaction of the tower’s inhabitants is much lower. In the 2012 Venice Architecture Biennale, an exhibition of the Urban Think Tank praised the “Torre de David” occupancy and won a festival Golden Lyon prize. The selection of this project has been highly criticized by many architects. The effort of informal dwellers must be recognized, but in this case, “Torre de David” is a monument of misery and an inadequate use of an expensive urban facility.

Keywords: Residential Satisfaction, Slumscraper, Informal Settlements, Squatters, Caracas Slums.

1. Introduction

Venezuela used to be a country with relatively high standard of life. As one of the richest oil countries, it attracted many immigrants. The capital, Caracas, was one of the most modern and attractive cities of the region. The metropolis had glamorous buildings and impressive highways. As many other cities in developing countries, Caracas experienced a rapid growth as a result of the migration of people from the countryside looking for better economical opportunities. In 1968, the population of Caracas was about 1.1 million habitants, which has grown to about 4 million in 2013 (INE, 2013). The urban population’s growth was not only because of rural migration but also due to the arrival of thousands of immigrants looking to be part of the Venezuelan oil boom.

Nearly forty percent of the inhabitants of Caracas live in self-built informal settlements. Poor migrants invaded public and private land to build shacks, which over time have been improved to
form relatively successful neighborhoods in the city. Located in a section of valley surrounded by scarped mountains, the vacant land of Caracas has become restricted, as the city density has increased. According to the Venezuelan government, the housing deficit of Venezuela is two million units and in Caracas alone more than 400,000 units, (Garcia, 2013). Another problem is that Venezuela is prone to flooding and landslides. Almost every year, heavy rains destroy various areas leaving hundreds of people without homes. With limited access to loans, less land available to be invaded and a recent government with a permissive attitude towards invasions and illegal takeovers, squatting has become one of the few housing options low-income people have (Lopez, 2011). When the possibilities to invade free land became more and more difficult, poor inhabitants of Caracas decided to invade unfinished and abandoned buildings and structures. The trend began in 1999 when the strongest torrential rains of the twenty-century destroyed thousands of dwellings in Caracas and the surrounding areas. As an immediate solution the government obligated most hotels to give free accommodations to the homeless and some politicians encouraged invasions of abandoned buildings. As of January 2013, an estimated 400 offices, apartment buildings, malls, and government structures in Caracas were occupied by squatters. Among the invaded buildings is the “Centro Financiero Confinanzas” or “Torre de David”, a 221,000 square meter complex of five buildings including an impressive forty-seven floor glass tower, located in one of the financial districts of the capital.

Fig 1 shows a floor plan of the complex. The main tower is the third tallest building in Caracas and one of the tallest of South America. The building was never finished. David Brillembourg, the investor who gave the skyscraper its nickname “Torre de David”, died in 1993. The following year most Venezuelan banks collapsed, leaving the half built skyscraper standing as an accidental monument of the financial disaster (Anderson, 2013 a).

**Fig. 1 Site plan of the Confinanzas Center and “Torre de David”**.
The building complex stood vacant until October 17, 2007 when 200 families invaded the tower; some because of the loss of their shelters after heavy rains and others because they wanted their own homes after living in the homes of family members or in rented shacks. The leader of the invasion was Alexander Daza. He was as a petty thug who went to prison for five years before he became an evangelical preacher, (Bodzin, 2012). Then in 2007, he helped lead the takeover of “Torre de David”. He is now the tower’s leader and also the priest of the evangelical church located on the building, (Anderson 2013 b). For many months, after the invasion, the inhabitants lived in tents as they cleaned debris and started building dwelling partitions. The invaders built a rudimentary water system and electrical connections. In 2009, the inhabitants registered a housing cooperative in order to find a legal status (Casiques de Venezuela R.L.). About 850 families totaling nearly 2500 residents called the tower home (Brazzesco, 2013).

Fig. 2 Exterior view of the “Torre de David” in Caracas.
2. “Torre de David” Services

The invaders adapted the concrete and glass structure by erecting brick partitions suited to their needs and brick walls as parapets, visible in the façades (Fig. 2). The tower has apartments, shops, a church and even a small gym on a terrace. The community is relatively organized with the management of the tower being divided into three different areas: surveillance and security, health services and recreational activities. The community operates as a city within the city and its administrative system seems to be copied from the illegal inmates’ organizations of Venezuelan jails. The community has some commercial services, small markets, rudimentary convenient stores, a butcher shop, cybercafé, beauty salon, barbershop and other businesses located in corner shops or inside the apartments. The original parking lot is a structure connected to the tower; therefore inhabitants can move the merchandise relatively easy up to the 10th floor using a car or moto-taxi. Similar to the self-built shanties of Caracas; the main problem in the neighborhood is the lack of proper sanitary services. When the invaders arrived, they did not have running water or electricity. The self-installation of rudimentary water and electrical services are barely sufficient to live in the complex.

2.1 Water services

The tower is connected to the city’s water system. Using two water pumps installed by the inhabitants, water is propelled to the 11th floor of one of the occupied buildings and from there to the main tank located on the 16th floor where additional pumps distribute the water to the rest of the levels. There are water tanks in each of the dwellings because the water does not arrive directly to them but to a distribution point and because the service is not continuous. “The improvised water system operated twice a week because it lacks the infrastructure required for continuous operation and distribution” (Fonseca & Schlueter, 2013). There is chronic water scarcity in the city grid of some areas of Caracas, especially in the dry season, which is a greater challenge to the community supply. Sewerage in the complex is primitive with residents having installed sewage pipes in the unused elevators shafts. The pipes constantly leak leading to an abundance of raw sewage on the first floor of the tower and on the main stairs. The underground level is permanently inundated with rain water and probably sewage.

2.2 Electricity services

Electricity is a self-constructed connection to the city grid. The system is a precarious gnarl of cables and electrical wires that hang in the circulation spaces and in the stairwells. The tower’s association has permanent employees who monitor and repair the electrical and water installations. Not surprisingly, there are problems with pipes, electrical connections, and cables that require constant repairs.

2.3 Location and transportation

Living in the complex has its advantages; apart from having free shelter, with impressive panoramic views, the location is premium. Some residents believe that they are better here than in the city shanties, “The shanties don’t have services and they are far from everything” says a 36-year-old cook who moved into the tower in 2011. Here I step out of the door and there is a bus stop that takes me to my job in five minutes. This place is a blessing” (Lopez, 2011) However,
stepping inside the shelters is not always that easy, because there are no elevators inhabitants need to take the stairs; some are fortunate to live on the lower floors while some need to climb up as high as the 28 floor, with each level being about 3.6 meters high.

2.4 Crime and security

While some of the inhabitants believe the tower to be safe many other neighbors complain about crime. Of late, even rapes have been reported (Rojas, 2012). For many inhabitants of Caracas, Torre de David is a very dangerous slum and they believe many ex-prisoners such as the main community leader are creating a city within a city in the abandon building. In many areas there are no railings and at least two children have died as a result of falling from a higher floor. It was also reported that a car fell down from the fifth floor of the parking. (Espinoza, 2012).

3. The Golden Lyon 2012

An exhibition promoted by the Urban Think Tank won a Golden Lyon awarded by the Biennale di Venezia in 2012. The Urban Think Tank published a book that illustrates the lives of the invaders presented as a “vibrant community that occupied a symbol of Venezuelan capitalism” (Urban Think Thank, 2012). Many researchers were astonished. According to the Venezuelan architect Oscar Tenreiro, the exhibitors are using the struggling people’s desire to survive against a manipulative government, as a springboard in an international forum of art, (Tenreiro, 2012). There is little to celebrate here. To some people in the government the situation is unacceptable, “…For me, it’s a symbol of anarchy, a symbol of a lack of government and of public inefficiency,” says Sulemar Bolivar, the head of urban planning for the mayor of Caracas, Antonio Ledezma, who is a member of the opposition. It’s like rewarding the man who steals because he’s hungry. No? Their acts of invasion were not justified, Ms. Bolivar argues…” (Grant, 2010). According to the photographer Bonadies, who took photos of the building for several years, the tower is like a reproduction of all the problems of Venezuela: the tyranny, the bureaucracy, religious dogma, power game exclusions, violence and sanitary scarcity.

The truth is that the Tower can be compared with the city. “…Caracas is a failed city, and the “Torre de David” is perhaps the ultimate symbol of that failure…” (Anderson 2013 b). There are many articles in the news about the tower but they are mostly about the exploitation of this incredible story. So far there are only two journal publications, one is a short article about the Biennale presentation (Kalipoti 2013) and the other is an article about an approach for an energy supply in the building. (Fonseca & Schlueter 2013). The rest of the bibliographies related with the tower are mostly magazines and newspaper articles.

4. Methodology

4.1 Hypothesis

Regardless of the opinions of researchers and architecture professionals, the opinion of the people living in the place is one of the most important tools to estimate whether a community is successful. Residential satisfaction is not only an important component of an individual’s quality of life but it also determines the way they respond to the residential environment (Lu, 1999). It is an important tool to determine the residential well being of a community. The hypothesis of this research is that settlers living in the “Torre de David” are not particularly satisfied with their dwellings or their neighborhood. Previous research by the author proves that one of the reasons
which explains why dwellers are satisfied with their housing condition is because they built the dwelling themselves (Caldieron, 2011). Transforming a simple shack to a decent home is a great accomplishment. Informal dwellings in the “barrios” or informal settlements of Caracas usually are adapted to the needs of the inhabitants. The dwellings in those neighborhoods are built with a lot of effort, in accordance with the family’s changing needs and economic possibilities. In the case of “Torre de David”, the inhabitants invaded an existing construction. It is true that they cleaned and divided the spaces, as well as creating a self-governing neighborhood. Originally an unfinished office building, the tower, nowadays consist of residential units which have fixed dimensions and cannot be expanded in order to be adapted to the changing needs of the families.

4.2 Surveys

The research to prove this hypothesis comprises of interviews with 60 householders who reside in the main tower of the complex. The limited number is due to the issues involved with visiting the building and holding the interviews. In many informal settlements in Venezuela, visitors are welcome and it is not difficult to approach the inhabitants. In some countries, finding collaboration to complete research questionnaires is a very positive experience, almost all of the selected subjects are willing to participate. (Caldieron, 2013). However, some communities can be suspicious of the researcher’s intentions. Therefore, it is necessary to establish relations with the community leaders in order to have access to the informal settlement. As this community is located in an invaded building, it was suspected that it would be difficult to receive cooperation until a relationship had been established. In the beginning the author ventured several times into the building, “incognito”, to speak with the inhabitants. On several occasions, the author was able to enter the building through the secondary parking entrance. It was then possible, in some cases, to conduct interviews with the inhabitants, visit and make sketches of the apartments, the extended common spaces and circulation areas. During the visits, it was clear that the original office building was not suitable for residential use. Among many design issues, the circulation areas for commercial buildings are much larger in scale than those normally found in residential buildings (Fig. 3).

**Fig. 3 The building was designed as an office tower with dimensions of services and circulation areas that are disproportionate for the current residential use.**
Most of the time, when visiting the tower, the inhabitants were very generous in answering questions, but usually did not give permission to take photographs of the housing units. A few inhabitants requested that the author obtain permission from the community leader before engaging in any survey. The author was not able to convince the community leader to collaborate in the study. Due to this hindrance the author decided to hold the interviews in a small and congested area just outside the entry of the building. With the assistance of two volunteers, who reside in the tower, householders arriving or leaving the community were asked to collaborate with the research. The original questionnaire was reduced to a few questions so as not to interrupt the inhabitants by taking too much of their time. The participants were selected until three complete groups of twenty responders were interviewed. The groups are defined by floor levels with the first consisting of inhabitants living on levels 2 to 9, levels 10 to 19 and the last group levels 20 through 28. Only the inhabitants living in the main tower were interviewed, hence, this study is not related to the families living in other parts of the complex as the conditions vary, making the comparisons too difficult.

5. Results

5.1 Main problems in the Community

The participants were asked to name the three most important issues of the complex. The surveyed, as previously explained, were divided three groups of twenty persons each in accordance with the location of the floor on which they live. In this particular question, the deviation between the group’s responses is very small. Table 1 shows the results.

<table>
<thead>
<tr>
<th>What are the three main challenges that you and your family face living in the tower?</th>
<th>% Dwelling located between Floors 2 to 10</th>
<th>% Dwelling located between Floors 11 to 19</th>
<th>% Dwelling located between Floors 19 to 28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lack of Elevators</td>
<td>30</td>
<td>50</td>
<td>70</td>
</tr>
<tr>
<td>Criminality</td>
<td>60</td>
<td>55</td>
<td>60</td>
</tr>
<tr>
<td>Water Service</td>
<td>55</td>
<td>50</td>
<td>55</td>
</tr>
<tr>
<td>Electricity</td>
<td>40</td>
<td>55</td>
<td>50</td>
</tr>
<tr>
<td>Other Services</td>
<td>30</td>
<td>25</td>
<td>35</td>
</tr>
<tr>
<td>Bad neighbors</td>
<td>30</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Education services</td>
<td>10</td>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>Neighbors association</td>
<td>10</td>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>No answer</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

The most serious problem for the dwellers was criminality. Caracas is a city with endemic crime, according to the United Nations Office on Drugs and Crime, in 2009, the rate of homicide was 122 people per 100,000 residents, it was the highest among the world’s most populous cities surveyed. Therefore it is not a surprise that crime is also the number one concern according to the rest of the inhabitants of the city (Rebotier, 2011). About 60% of the inhabitants agree that crime
is the most important problem of the complex. Another serious problem in the tower is the lack of elevators. This is the only question where there is a clear difference among the three groups. It is obvious that settlers who live on the higher floors are the ones who are most concerned about the lack of elevators. About 70% of the inhabitants living on floors 19 through 28 believe that the lack of elevators is the main concern. The number is reduced to about 40% for the other two groups taking part in this study.

There are also two other important concerns, the water and electrical services. As explained those services were rudimentarily installed by the dwellers and the problems are persistent. The study shows that water service is a main concern for about 50% of the dwellers taking part in this survey. Electricity is among the three most important problems to 40% of the lower floors and 50% of the highest floor residents taking part in this survey. Sewage services are one of the three most important problems for 30% of the householders. Finally between 10% and 20% expressed that the neighbors and the neighbor associations were important problems.

A different question is, what are the most important advantages of living in the tower community according to its inhabitants? Results are presented in Table 2. According to the inhabitants, location was the main advantage; this was expressed by 86% of the interviewees. The proximity to urban transportation was also considered an important advantage by 53% of the householders taking part in this study. “Torre de David” is located in one of the bank districts near the city center, a sector with a relative abundance of schools. The Avenue Urdaneta, one of the most important commercial avenues of the city, is located south of the complex with access to a profusion of buses and other public transportation. The closest subway station is less than 500 meters from the tower entrance. The tower may be in a convenient location, however, once inside many of the dwellers need to walk up more than twenty floors in badly unventilated stairwells.

A list of the main advantages of living in the tower according to its inhabitants is presented in Table 2.

**Table 2. Advantages living in the tower community.**

<table>
<thead>
<tr>
<th>What are the three biggest advantages of living in this neighborhood?</th>
<th>% Dwellings located through Floors 2 to10</th>
<th>% Dwellings located through Floors 11 to 19</th>
<th>% Dwellings located through Floors 19 to 28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>80</td>
<td>80</td>
<td>70</td>
</tr>
<tr>
<td>Transportation</td>
<td>60</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Is my home</td>
<td>20</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>No advantages</td>
<td>10</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>Neighbors</td>
<td>20</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Others</td>
<td>35</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Educational facilities</td>
<td>20</td>
<td>20</td>
<td>10</td>
</tr>
</tbody>
</table>
5.3 Householder satisfaction with the neighborhood

For the next question the author asked householders how satisfied they feel living in the complex. Only 30% of the householders living on floors 2 through 19 of the complex feel very satisfied or satisfied. However the level of satisfaction diminishes to 20% of those living from floor 19 through 28 where only 5% of the dwellers are very satisfied and 15% are satisfied (Table 3). Regardless of the dwelling location, about 50% of the householders participating in this survey are unsatisfied living in the complex.

Table 3. Householder satisfaction living in the neighborhood (Tower complex)

<table>
<thead>
<tr>
<th></th>
<th>% Dwellings located through Floors 2 to 10</th>
<th>% Dwellings located through Floors 11 to 19</th>
<th>% Dwellings located through Floors 19 to 28</th>
</tr>
</thead>
<tbody>
<tr>
<td>How satisfied is the householder about living in the tower complex</td>
<td>Very satisfied</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Satisfied</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Average</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Unsatisfied</td>
<td>35</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Very unsatisfied</td>
<td>10</td>
<td>5</td>
</tr>
</tbody>
</table>

5.4 Household satisfaction with the dwellings

After understanding that the level of satisfaction of the householders within the community is low, the author asked participants how satisfied they feel with their individual dwellings. As discussed previously, residential satisfaction is a very important tool to define well being. Householder satisfaction in the building is not as high as expected. Table 3 shows the level of agreement with the question about householder satisfaction with their individual dwelling. Only 10% of the householders, all of them living in the first 10 floors strongly agree that they are satisfied with their individual dwelling. The 40% of the people living in the first 10 floors of the building are not satisfied with their dwelling. This value augments to 65% of the inhabitants that live from floors 19 through 28. It is obvious that the householders are not really pleased with their living conditions. Many of the dwellings do not have sanitary services and some do not even have natural light. These issues together with the community issues are very troublesome.

Table 4. Householder dwelling satisfaction

<table>
<thead>
<tr>
<th></th>
<th>% Dwellings located through Floors 2 to 10</th>
<th>% Dwellings located through Floors 11 to 19</th>
<th>% Dwellings located through Floors 19 to 28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Householder opinion:</td>
<td>Very satisfied</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>How satisfied are you with your individual dwelling?</td>
<td>Satisfied</td>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Average</td>
<td>25</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Unsatisfied</td>
<td>30</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Very unsatisfied</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>
5.5 Neighbors willing to move to a government apartment

In order to corroborate the level of satisfaction of the householders participating in this survey, it was asked if they would like to move from their present location to a government sponsored apartment. This question can be considered improbable, as there is not a specific location to where the dwellers can move. Although the people of the city are aware that the government has been building new housing complexes, in central areas of the city, in the last few years. The government units are relatively small and some structural problems have been reported. Moreover, there is an evident lack of services. In other surveys held by the author, in several neighborhoods in Caracas, the inhabitants of upgraded, self-built dwellings are not willing to exchange their homes for government housing. The percentage of people who wanted to move in a survey held in the area of Petare in 2012 was less than 15%. In contrast, in the "Torre de David", about 45% of the householders want to move to government apartments (Table 5).

This percentage is very elevated compared to other neighborhoods inside and outside Caracas. The reason why people want to move differs depending on the family. People living on the lower floors do not suffer as much from the lack of elevators and they feel more satisfied. However people on the upper floors of the tower agree that location is a problem. Two of the householders answering this question expressed that they used to climb many steps to access their home when they were living in the elevated areas of a Caracas shantytown where stairs were the only access to their home.

<table>
<thead>
<tr>
<th>Are you willing to move from the tower to a government dwelling?</th>
<th>% Dwellings located through Floors 2 to 10</th>
<th>% Dwellings located through Floors 11 to 19</th>
<th>% Dwellings located through Floors 19 to 28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>35</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Maybe yes</td>
<td>15</td>
<td>20</td>
<td>15</td>
</tr>
<tr>
<td>Depends</td>
<td>25</td>
<td>20</td>
<td>15</td>
</tr>
<tr>
<td>No</td>
<td>20</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>N/A</td>
<td>5</td>
<td>0</td>
<td>10</td>
</tr>
</tbody>
</table>

5.6 Examples of dwellings

In order to understand more about the living conditions in the tower, some examples of the type of dwellings occupied by the householders are presented. The “apartments” of the main tower are located around a vertical circulation area containing the elevator shafts, services and stairs. Only one of the stairs ways was in use. The inhabitants are well organized; in many of the floors they make turns to clean the common corridors.
Fig. 6 shows a partial view of the interior corridors. This is the area that looks the most impressive and clean in the tower. However, other areas of the tower are not in such good conditions.

![Fig. 6 Interior corridors of Torre David](image)

Plan A is the dwelling of a family of four people. They do not have any sanitary services. There are two beds, a corner that functions as a kitchen and a table with one seat. The inhabitants use the restroom of a family member in the same complex. The dwelling has floor to ceiling curtain wall windows, which are not operable. Therefore they try to keep the door open during the day. Plan B is a one-bedroom apartment and is occupied by a multi-generational family a grandmother and her daughter, who is a single mother of three children. The dwelling has a restroom but it is not connected to the building’s plumbing. They built a separation dividing the main space into two areas, a living room that also functions as the main bedroom and a small bedroom for the two older children. The dwelling has openings allowing for a balcony but without windows there is no protection against the wind or rain.

![Fig. 7. Dwelling plans A and B](image)
Fig. 8 represents two other dwelling formats. The first one, plan C, is a small room were a family of two people live. There are no windows, ventilation or sanitary services. The apartment is located in the core of the building. The space they occupy seems to be originally a mechanical room. The family spends most of their time outside working as hawkers. Plan D shows a “corner unit” dwelling that has a long floor to ceiling window. The settlers broke the window in one of the corners providing for open ventilation. The dwelling has a small inoperable rest room.

**Fig. 8 Dwelling plans C and D**

The final two dwellings are represented in Fig. 9. Plan E is a small apartment that has been subdivided into three bedrooms and a fourth room under construction. There is a small terrace with a space allocated for the kitchen range. There is also a restroom and small reception hall. Finally Plan F is a small dwelling with a space that is expected to become the kitchen, a small living room and two small bedrooms. The dwelling does not have ventilation, natural light or sanitary services.

**Fig. 9 Dwelling plans E and F**

Looking at the plans, the housing conditions of most of the dwellings are very far from optimal. Spaces are crowded and some openings are not protected from the wind, excessive light and rain. On the contrary, some dwellings lack any sunlight or ventilation. The worst is the lack of adequate sanitary services. Depending on the family some dwellings are more improved than others. The location is obviously the most important. A dweller living in a well-organized floor in one of the lower levels will consider any improvement in the dwelling as a good investment.
As explained, it was difficult to get permission to take pictures inside of the apartments, but some few examples are presented here. Fig 10 represents a dwelling located in a very high. Like many dwellings in the tower, they have great panoramic views, but the exterior wall openings are completely exposed without the protection of windows. Fig. 11 is a photo of better improved dwelling.

**Fig. 10. Interior of a non-improved dwelling with a complete open fenestration.**

![Image of a non-improved dwelling](image)

**Fig. 11. Interior of an improved dwelling**

![Image of an improved dwelling](image)

Is it acceptable to live in this complex after all the inconveniences explained? Some of the inhabitants feel they are better here than living in places with unaffordable costs or crammed into the houses of family and friends. However, “Torre de David” with its unsanitary conditions and the inconvenience due to the lack of elevators has significant problems. There is no doubt that rehabilitating the tower will be a difficult task. According to many researchers, the building is an
embarrassment to the regime and to the country’s architecture. “The Skyscraper is a modern ruin buzzing with life, a post-apocalyptic mockery of an oil-rich nation’s aspirations” (Davinson, 2011). Out of necessity, these occupants continue to live in this vertical slum—evidence of the failure of Venezuela’s social programs, perhaps, but more so of the collective will to build new lives for themselves (Architizer news).

Mike Davis, urban theorist and author of Planet of Slums, thinks “Torre de David” “...is testimony to the acute housing shortage in Caracas, a problem, like crime, that has vexed the revolutionary government”. For many, the State is the main squatter in Venezuela; Guillermo Barrios, the dean of Architecture at UCV, the largest university in Caracas, spoke about the tower “It embodies the urban policy of this regime, which can be defined by confiscation, expropriation, governmental incapacity, and the use of violence,” (Anderson, 2013 a)

7. Conclusions

For many years, the low-income inhabitants of Caracas have lived on invaded land in self-built dwellings. Over time those informal settlements have improved and are examples of thriving communities. There are many positive elements in many squatters and unauthorized settlements, especially after improvements have been made like the majority of informal settlements in Caracas. However, “Torre de David” is an unsustainable example of community development. The tower recalls the novel “High Rise” by James Graham Ballard. There is a negative leadership system in the tower that mimics that of a jail in Venezuela. It is important to understand that most of the people in other informal settlements in Caracas do not have tenure of the land they occupy. However, there is a perceived land tenure security that allows the householder to believe that the resources spent for the improvement of the dwellings is a good investment. Notably a different picture is the case of “Torre de David” intended as a high-end office skyscraper but instead transformed into an unfortunate “Slumscraper” in which most settlers understand that, due to their illegal invasion of the building, they could be evicted any moment if the “laisser faire” attitude of the government changes. The research surveys show that even though the inhabitants appreciate the location of the building and the availability of public transportation in the area, the tower is facing too many challenges with few possibilities to implement any effective solutions.

According to the surveys held for this research, the inhabitants expressed their concern about criminality, lack of elevators, inadequate electrical and sanitary services. More than 50% of the inhabitants are not satisfied with their residential units or with the neighborhood. Many of them would prefer to live in a government-sponsored dwelling. Apart from the inhabitant’s views, most architects feel concern about how an unfinished building, originally projected as an office complex, is now of residential use. Obviously the proportion and types of the service spaces of an office complex are not adequate for the adapted re-use as invaded residential dwellings.

Some residents believe that they cannot live in the tower much longer. They appreciate the central location of the building, but are unsatisfied with the dwelling, the inadequate social conditions and the illegal status. It is surprising how an exhibition of the “Torre de David” community won a Golden Lyon prize in the Venice Biennale of 2012, considering that the living conditions and circumstances of this project is less than adequate, it seems to be a publicity stunt. The shame in this case is that a building designed by the architect Enrique Gomez for use as an office building has been vitiates from its original conception and transformed for a use for which
it is not adequate. The most difficult question is what happens next? This is a pilot research that will continue, hopefully in the future the conditions of the country will improve, Torre de David will be rehabilitate and the tower inhabitants will be able to afford a better dwelling. For the moment, it seems the Venezuelan government is not particularly concerned with finding a solution. The state is not only tolerant of the invaders it also encourages them to invade. Some politicians believe that allowing a group of inhabitants to have the freedom to do whatever they want grants them votes and unfortunately, for certain levels of population this is true. The future of the tower inhabitants and the many other Venezuelans families living in invaded structures is a serious problem, which does not seem to be a current priority for the Venezuelan government.

References:

Anderson, J., 2013 b. La Venezuela de Chavez: La Torre Rota, El Puercosspin, Feb. 4.
Brassesco, J., 2013, Torre de David se blinda ante la incertidumbre, El Universal.
Bodzin, Steven, Monocle 24, Caracas’s Torre de David poses soaring dilemma. Blog at WorldPress.org.
Rojas , E., 2013, Abusaron de una joven en la Torre de David, Ultimas Noticias, March, 3.
Urban Think Tank, 2012, Torre David Informal Vertical Communities, Chair of Architecture and Urban Design ETH Zurich.