

NEW MODELS OF HYBRID HOUSING: A CASE OF TRANSFORMING A NEIGHBORHOOD IN TETOVO, MACEDONIA

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ABSTRACT

The concept of integrative housing and hybrid housing is very important in architecture. Integrative/Hybrid housing allows integrating different aspects of life in a single place to improve the quality of life. To analyze these concepts, we chose a case study in a city of Tetovo, which is a great example of chaos living and bad organization. We chose an area where the planning and organization are bad, and also there are none cultural and environmental elements in place at all. With our solution, we demonstrate that even cities which do not have an organization at all have the potential to implement these key elements to improve people's life. Through this research, we provide a solution where the integration/hybrid housing is built on top of the cultural, educational, commercial and environmental elements. These are important aspects to take into consideration the quality of people's lives and for the quality of city development. The results of this research work will help future investors and architects to create new settlements and expand the city. The standards we will set for hybrid housing will be a good example for the city which is part of our case study.

KEYWORDS: integrative housing, hybrid housing, city, place

INTRODUCTION

Subject of research

Our research focuses on the unique concept of integrative housing in the city of Tetovo and the functioning of the urban structure of the historical-cultural character. With this research, we will expose the historical and cultural character of one of the oldest sites in the city of Tetovo.



Figure 1. City of Tetovo

Hybrid housing in the city of Tetovo is an important subject of analysis, and we aim to present an urban solution that will most benefit the city of Tetovo and its history. This thesis shows the importance of history and culture in modern hybrid housing.

The fact is that six million people are in the process of moving as urban. The goal is not to project huge buildings, or apartments without the necessary conditions and public places for colloquial education, but a new solution is needed. New settlements that have many problems and are a meaningless residential building without service programs or public spaces, and therefore new types of buildings are needed. Friedman said “cities are always beautiful, architecture is not” according to this, we need to design cities using our creativity.

Our subject of research is the unique concept of integrative housing in the city of Tetovo and the functioning of the urban structure with historical and cultural character.

We found out that the hybrid housing is an important subject of analysis for the city of Tetovo, therefore our goal is to present an urban

solution that will present the city and its cultural and historical elements. Through this research, we present the importance of history and culture in modern hybrid housing. History, culture, and housing are important elements for a city like Tetovo. Our research captures and shows the ratio of these elements. The goal is to build a small urban place with residential buildings and houses, or a small settlement that will include environmental standards. The subject of my research will be the concept of design. We propose a solution which includes the fundamental elements for normal functioning: 1) place for entertainment 2) place for work 3) place for living and 4) public places.

One-third of the world is on the move, and we need to make an urban environment where we can build something new without breaking it and damaging the city and the place where we act on it. Let's open a new place and a small environment that will be solved with socio-functional and economic performance.

The main goal is to make the objects beautiful in appearance and practical functionality. The place should be fit for all living conditions and be used in all aspects. In modern life, people are a more demanding time and place, and these criteria are key parameters that we need to carefully arrange. We need to find a solution to the functionality in the best possible way. We should not categorize people, there should have a place for every individual. The idea of this topic is to make a relaxed environment in which the atmosphere will be the main goal, and people from the daily routine to relax in their homes, from hard to home.

Several proposals will be used for this solution, but with attention to wood materials, greenhouses, concrete, and the stone. In this small urban we plan to have several facilities: apartments, houses, a place for sports and recreation, cafes restaurants and a place with greenery where people who do not live here can only come to use their free time.

We have analyzed each situation separately: drawing of a location, the basic typologies, houses and their organization with a yard, houses as part of Ilindenska street. As a result, we can distinguish between two different typologies of houses with yards, or houses that have dominant commercial content on the ground floor. In addition to this, an analysis has been done on the gymnasium, the mosque, and the most densely populated places that are bizarre and with big urban problems.

In this paper, we target the urban structure at hybrid housing, which includes the public spaces, public buildings, commercial building, historical-cultural objects, pedestrian ways and green area as part of a given location. The processing of the urban structure aims to deliver

integrative housing, consisting of public spaces, public buildings, commercial buildings, as well as historical and cultural objects with pedestrian paths across the site. The site on which we will intervene has four key points to be analyzed, and based on the results of the analysis we will have a suggested plan of intervention to be made. All four points on the plot have a different character.

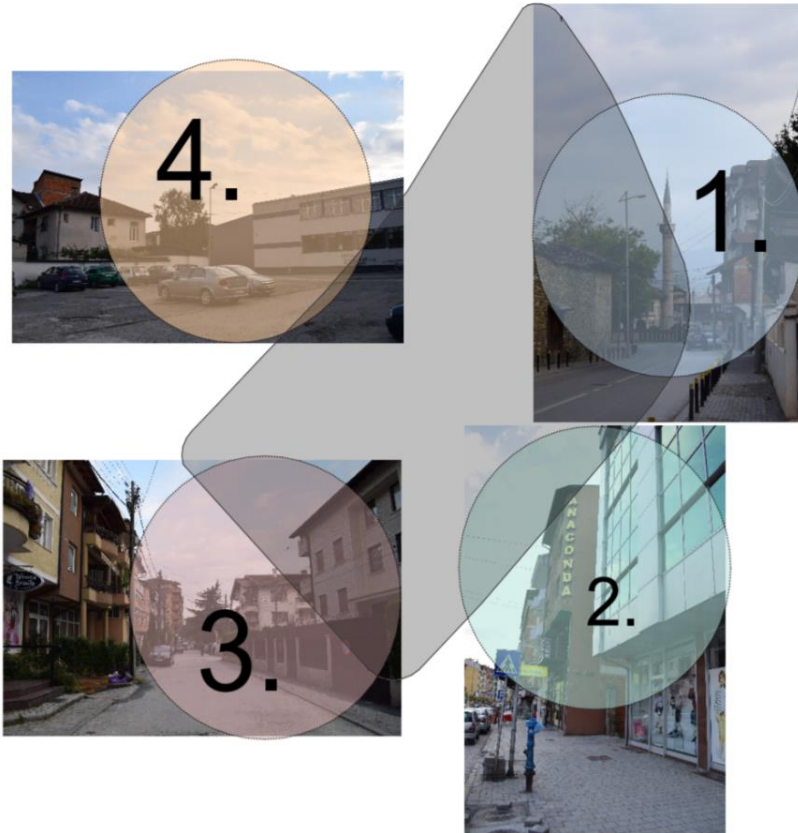


Figure 2. Actual conditions in Tetovo city

What we will build on the side of the street, whether we will interrupt, how narrow this front is, how high objects are depending on analyses which we have done. The line park will be a place where everyone can stand, there will be locals with exit to the terrace, playgrounds for children, and from the back, there will be a typology for housing.

There are several possible scenarios. The first zone of influence is the neighborhood. How does the neighborhood affect this zone, the low houses, and what will we have on that side, will it be retained on that side? The second zone of influence is the gymnasium. All pages on this site do not have the same value. Relation to a cultural object. The values in urban research have long been ignored and have been published in various forms and at different times.

In the language of urban architecture, an important means of improving the image of the city is the attitude towards cultural objects.



Figure 3. Analysis

Our idea is to have the following organization: the ground floor will be a place to work, this means, the housing starts from the first floor. The purpose of the planned housing is to be covered with greenery; there will be hillside terraces, that is, more volume objects that will relate to atriums, small places for exhibition, workshops, cafe-bar, small public places like squares, etc. My goal is to present a small urban place with residential buildings and houses, or a small settlement, which will include environmental standards. Having as a main subject the concept of design. The idea of this topic is to make a relaxed environment in

which the atmosphere will be the main goal, and people from the daily routine to relax in their homes, from hard to home.



Figure 4. Morphology analysis



Figure 5. The solution

THE SOLUTION

Through this solution, we are going to present the link between cultural and historical elements in hybrid housing. Our results will be able to help future investors and architects to create new settlements and expand the city. The standards we will set out in our master's thesis for hybrid housing will be a good result for the future documentation at the given place.

From Figure 2 we can see the proposed solution for the analyzed location. The places in red represent individual housing, where each of them has an urban farm. This links the traditional living in Tetovo with current modern hybrid housing concepts. The yellow part represents the historical and educational elements for this location. In this part, we have a museum, library and multifunctional space. The green area represents the commercial and administrative parts, which is located just across the main road Illindenska. The last part is the purple area which presents the living buildings. In addition to this, all these parts are interconnected with the inner yard, including connection bridges and green areas.

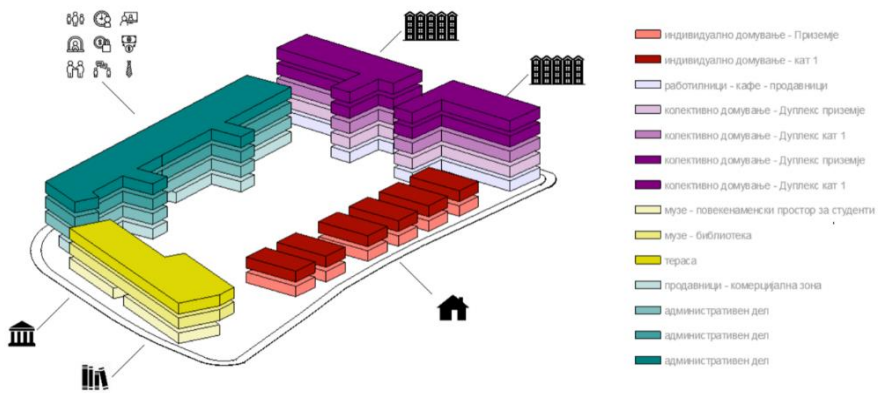


Figure 6. Proposed solution

CONCLUSION

Through this research, we exposed the importance of hybrid housing. We see that people's lives are important, so we must provide the best solution for modern housing. Hybrid housing is a perfect example of exhibiting the most important elements such as culture, education, economy, peace of nature and indoor gardens. Today, the

quality of life is important, and besides, we learned that by integrating all these elements into one we can provide better places for living.

As a result, we have proposed a solution on top of hybrid housing, where we have demonstrated the way of integrating several key elements in housing. Our goal was to integrate the cultural, administrative and commercial aspect, and also peace, through the use of indoor gardens. As a result, we have shown that even in small areas there is potential for applying all these aspects, which can improve people's live

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