A Study of Sustainable Housing through Analysis of Housing Construction Process

Min-Hee Kim*, Gi-Seok Kim**, Kyung-Ran Lim*** *,**,***Soongsil University, Korea E-mail : k8016kmh@gmail.com*, ssub001@gmail.com**, joa@ssu.ac.kr***

1. Background of the Research

Due to the advancement in capitalism and the supplier oriented policies, consumers have been involuntarily forced to choose a type of homogeneous housing as the cities became populous. However, housing should reflect a variety of requirements of the resident, not just one way. Even if housing is closely related to the lives of the social members, and it should be reflected with the various requirements of a resident instead of a supplier's, housing is constructed by a supplier through a uniformly controlled perspective in modern cities. By reviewing the defective living quality and analyzing the worldwide construction housing process from the point of consumer's view, this investigation is to suggest the construction process of an ideal future housing which may be a sustainable future living space.

2. Problem in Construction Process of Housing

Modern urban housings were constructed for maximum efficiency and uniformity by capitalists. In the reality of modern housing culture, it is recognized as an investment to create a short term profit. Because of their supplieroriented supplying system, such housings fail to accommodate the family dynamics, particular lifestyles and often do not satisfy the needs of the people as well. People move throughout their lives to the different housings to fulfill their specific needs for the living space during a life cycle. These lead to the loss of a sense of 'settlement' which is an essential function for their lives. We become adjusted to the housing and it connects us to an environment of the past and future. However, 'moving out' overthrows the continuity of housing and deprives of people's right for the choice of space.

3. Analysis in Construction Process of Modern Housing

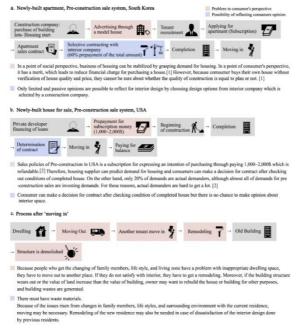


Figure 1. Modern Housing Construction Process

4. Study for the New Housing Process

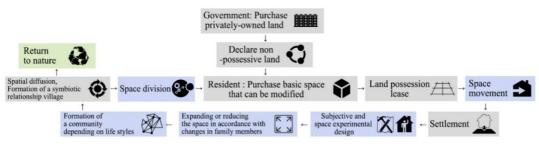


Figure 2. New Hosing Process and Features

4.1. Features

- ① It is possible to reduce the burden of the price of the housing site through government property purchase and leasing land occupation policy.
- ⁽²⁾ The user can reflect the demands of an individual's life style and family members on space according to spatial experimental design and implementation from the residential space construction phase.
- ③ The space is where it corresponds according to the user's needs through spatial expansion or reduction or formation of public space based on the changes in family members or life styles by continuously designing new residential spaces that can be modified.
- 4 Space moving is possible since the space is separated when the members are separated.
- (5) When the building wears out, it is reverted to the nature.
- 5. Study for New Housing Concept: Creation & Modification

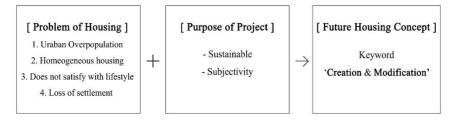


Figure 3. Concept Generation Process

This research will show the method to fulfill the need of diverse personal life styles and sustainability with "Space Creation & Modification"

6. Conclusion

In this investigation, the issues of the construction process of modern housing has been analogized from the point of view of consumers in order to reflect on their lifestyle. This is to suggest and provide a new housing culture which can make their own space for themselves more independently by drawing a housing which has been separated into a quality of real life. Furthermore, the housing suggested by this investigation will be a new concept of space which will be alive in a circulation of nature, realizing growth, modification, and departing space during a personal life cycle in a view of a possible sustainability. In this regard, a new suggestion on the housing process should be sustainable and independent which can be reflected consistently with a personal life style. This investigation will provide a foundation for the sustainable future housing which can recover the defected well-being of modern urban housing not for a small number of capitalists but in a consumer-oriented point of view.

7. References

- Suk Hong Jae, Kim Ho Chel, "A Study on the Feasibility of Housing Rebuilding Projects under the Post-Construction Sales System", Korea Real Estate Academy, Seoul, 2006, pp. 204-205.
- [2] Yun Hunveol, "A Study on Increased Supplied of the Low-Priced Apartment Houses", Hanyang University, Seoul, 2007, pp.6-77.