EVALUATING THE EFFECT OF URBAN RENEWAL PROVISIONS ON RESIDENTIAL SATISFACTION (CASE STUDY: RENEWAL PLAN OF KHOOLBAKHT NEIGHBORHOOD AT IMAM ALI DISTRICT IN TEHRAN)

Hassan Sajjadzadeh

Assistant Professor, Urban Design Faculty, Bu-Ali Sina University, Hamedan, Iran

h.sajadzadeh@gmail.com

Shahrzad Parto

Phd Candidate in Urban Design, Bu-Ali Sina University, Hamedan, Iran

parto.shahrzad@gmail.com

Kamyar Palizi

MA in Sustainable Architecture, Iran University of Science and Technology, Tehran, Iran

kamyar.palizi@gmail.com

ABSTRACT

With regard to increasing importance of urban regeneration, assessment of previous provisions is considered as a major step due to effect of urban renewal on quality of life and the necessity to use dilapidated fabrics in line with goals of sustainable development and avoidance from urban sprawl. Since residents are the main beneficiaries of urban renewal and this should come to realize aiming at improving their satisfaction with living area, in the present research the measure of residential satisfaction has been used, mentioned as a suitable index to determine desirability of living area and effects of provisions made for it. To measure variables, five-point Likert questionnaire has been used as the research questionnaire; to analyze data and test research hypotheses, one-sample t-test has been used; to compare extent of satisfaction in three groups including centralized renewal, semi-centralized and decentralized renewal, one-way variance analysis has been used. Results from research indicate that neighborhood renewal has not had a significant effect on residential satisfaction in it, resulted in reduction of satisfaction extent in most of indices especially social indices. Neighborhood renewal has led to increase of satisfaction in some physical indices such as physical quality of residential unit. This indicates that attention has been merely focused on physical dimension instead of considering all the components of residential satisfaction. Another important result is higher extent of satisfaction among residents with the purpose of decentralized renewal, which this result indicates the necessity to change from authoritarian modernization models to micro scale, participative and community-oriented models and avoidance from prescribing prearranged physical plans and the necessity to use facilitators public institutions.

Keywords: *residential satisfaction, urban renewal, centralized renewal, participative renewal, Khoobakht neighborhood*

INTRODUCTION

More than 130 thousand hectares of urban fabrics in the country, i.e. about 30 percent of the urban fabrics composed from dilapidated fabrics, aimed at urban renewal provisions. In these areas, among a population of over 17 million, about 20 percent of the urban population of the country is residents (government information website, 2014).

Since residents are major beneficiaries of neighborhoods aimed at proposing urban regeneration any intervention affects all their daily life dimensions, their preferences and demands should be specifically taken into account by decision makers (Zheng et al. 2014). Indeed, urban renewal and rehabilitation should come to realize with the purpose of improvement of residents' welfare,

improvement of identity of neighborhood, increase of their belonging to place of their living area, improvement in quality of life and increase of their residential satisfaction at all dimensions. Therefore, to examine effects of urban renewal on reduction or increase of residents' satisfaction, the present research has been conducted aiming at examining existence or lack of this relationship.

In this research, an attempt has been made to examine and compare the relationship between residential satisfaction and recreation and renewal of residential environment in a number of renewal models experienced in residential neighborhoods. In this regards, the satisfaction level among the residents of khoobakht at district Imam Ali (AS) in Tehran has been measured after detecting criteria of residential satisfaction based on world literature. Selection of khoobakht at district Imam Ali (AS) in Tehran as the case study is of great importance since a wide range of renewal models have been tested in it.

In this regards, the present research has intended to give response to this question whether renewal models and actions in khoobakht including centralized and up to down renewal model, semi-centralized renewal model and decentralized renewal model have led to improvement in residents' satisfaction with their living environment or not. Under the relationship, whether effect of urban renewal on each of residential satisfaction dimensions has been more tangible in each of tested models.

LITERATURE REVIEW

The studies on satisfaction with residential environment have been conducted with various purposes including evaluation of existing conditions of residential environment and their comparison with residents' needs (Katitilla, 1993; Salleh, 2008), measurement of quality of life (Calderion, 2011; Galster & Hesser, 1981), evaluation of quality of project (Lara & Bekker, 2012; Liu, 2013). Further some studies have examined the relationship between residential satisfaction with other concepts and indices. For instance, Smith (2011) in his PhD thesis has examined the relationship between three concepts of residential satisfaction, sense of place and sense of belonging to place (Smith, 2011). A variety of research have evaluated extent of residential satisfaction and its effect on decision to continue living or decision to displace living area (Fang, 2005).

In Iran, few studies have been conducted about concept of residential satisfaction. Rafieian et al have examined residents' satisfaction with residential complexes at Navvab neighborhood and have evaluated extent of residents' satisfaction at Navvab neighborhood from various perspectives (Rafieian et al. 2009). Rezaei & Kamaei zadeh have examined extent of residents' satisfaction with Maskan Mehr complexes (Rezaei & Kamaei zadeh, 2013). Ghiaei et al. (2013) have measured residential satisfaction in Farabi Medical Complex (Ghiaei et al. 2013).

Therefore, as observed in domestic literature, attention to residential satisfaction in studies has centralized to residential complexes and less attention has centralized to this concept and its measurement at scale of a neighborhood.

CONCEPT OF RESIDENTIAL SATISFACTION

In existing literature, concept of residential satisfaction has been defined in two general ways; some researchers have known residential satisfaction dependent on residents' understanding from the extent of access to their goals and ideals at their residential environment (Galster, 1987). In this approach, satisfaction refers to a process of evaluation and comparison of existing and expected conditions (Parker & Mathews, 2001), under which residential satisfaction specifically refers to a function of distance between the person's needs and ideals and existing conditions of residential environment (Varady & Preiser, 1998). This implies that people seek residence in an environment that assists them to achieve their expectations and enable them to achieve their goals. Therefore, the more residential environment has the facilitator role, the more people's residential satisfaction (Ibem & Aduwo, 2013).

On the other hand, Galster (1987) has mentioned that in another approach people are well informed to consider the basic quantities and qualities as the ideal standards from various aspects of their

residential area based on their experiences, needs and ideals, made an attempt to evaluate their residential environment based on comparison with these standards. If the existing conditions have less gap with their basic image, the satisfaction with residential environment will be experienced, otherwise dissatisfaction with residential environment will be experienced (Ibem& Aduwo, 2013).

MEASUREMENT MODELS OF RESIDENTIAL SATISFACTION

Most of studies related to residents' satisfaction can be classified in two groups(Potter et al., 2001), i.e. the first group refers to the studies which consider the residents' satisfaction as a criterion of the evaluation of quality of residential environment, known the residents' satisfaction as a dependent variable(Marans&Rodgers,1975), and the second group of studies knew satisfaction with residential environment as a precondition for behavior and as a result assumed it as an independent variable(Newman&Duncan, 1979; Speare, 1974). Therefore, a comprehensive and integrative consideration of residential satisfaction must be determined by means of a theoretical framework, known the residents' satisfaction as a variable dependent on quality and features of residential environment and assumed it as a variable which causes a certain behaviors. Amerigo& Aragonés(1990) made an attempt to provide a theoretical model through examining how a person interacts with environment(image 1).

This model displays the elements which cause a resident's satisfaction and knows the residential satisfaction as a precondition for general satisfaction with life. In this regards, the studies on residents' satisfaction have addressed proposing a model and framework based on the factors related to their area, problem and goal.

Image 1. Measurement model of residential satisfaction (Amerigo& Aragonés, 1997)

DIMENSIONS OF RESIDENTIAL SATISFACTION

Results from the related works indicate effect of objective and subjective dimensions on residents' satisfaction (Table 1).

Table 1. Dimensions and indices of residential satisfaction

Dimension		Index	References
Individual		Age	Satsangi&Kearns, 1992; Mohit et al., 2010; Caldieron, 2011; Kahraman,2013; Brown et al., 2005; Salleh et al., 2012; Mohit et al., 2010; Lu, 1999; Perez et al., 2001 ;Amole, 2012; Salleh et al., 2012; James et al., 2009; Chapman&Lombard, 2006
		Previous and current	
		Education status	
		Job status	
		Financial afford to pay	
		type of housing tenure	
		Residence time	
Physical	Surrounding environment	road traffic	Varady, 1983
		Urban landscape in the	Rohe& Stegman, 1994
		The number and quality	Smith, 2011: 29
		Population and	James et al., 2009; Perez et al., 2001
	Residential unit	Number of rooms of	Zanuzdana et al., 2012; Ukoha& Beamish, 1997
		Quality of indoor	Zanuzdana et al., 2012; Ukoha& Beamish, 1997
	Access to urban services	Access to training	Campbell et al., 1976; Turkoglu, 1997
		Access to health care	Campbell et al., 1976; Turkoglu, 1997
		Access to shopping	Turkoglu, 1997; Campbell et al., 1976; Salleh, 2008
		Access to public transport	Turkoglu, 1997
Social		friends and relatives in	Allen, 1991
		Social interactions	Parkes et al., 2002; Salleh, 2008; Mohit et al., 2010
		Participation and	Zannuzdana et al., 2012
		The sense of belonging	Amerigo&Aragones, 1997; Young et al., 2004
		Stability of	Kasarda& Janowitz, 1974
		perceived safety of	Adams, 1992; Carro et al., 2010
Economic		Value of residential unit	Kaitille, 1993; Varady& Carroza, 2000; Baiden et
		Job opportunities	Smith, 2011
General satisfaction		Satisfaction with living	Amerigo&Aragones, 1997; Young et al., 2004
		Decision upon	Fang, 2005; Ibem& Aduwo, 2013

RESEARCH METHOD

closed questionnaire has been used to measure the research variables. The research questionnaire develops from five major sections, i.e. the first section relates to individual indices or demographic variables, the second section relates to measurement of physical indices, the third section relates to social indices, the fourth section relates to economic indices, and the fifth section relates to measurement of residents' general satisfaction. Except for the first section of questionnaire in which a specific range has been used well suited to the related item, range of all other sections of questionnaire includes five-point Likert scale. To examine validity of questionnaire, the logical method has been used to determine validity based on content validity in which quantity and quality of questions are examined from point of view of experts. To measure reliability, Cronbach's α coefficient has been used. Cronbach's α coefficients of each of research variables have been summarized in table 1. To analyze demographic variables of research and get familiar with the research sample, descriptive statistics were used. To test research hypotheses, one-sample t-test has been used. Further, to test

difference on extent of residential satisfaction among three groups (centralized, semi-centralized and decentralized), ANOVA was used. Software SPSS was used for the considered tests.

Table 2. Evaluation of reliability of research questionnaire

Variables or indices	Items	Cronbach's α
Physical indices	9	0.70
Social indices	6	0.71
Economic indices	2	0.75
General satisfaction	2	0.78
Sum	19	0.82

RESEARCH SCOPE

Khoobakht neighborhood has been located at eastern south of Tehran along Imam Ali highway. Possession around Khoobakht street had started since 2003 before providing the renewal plan of Khoobakht neighborhood due to adaptation with the predicted route of Imam Ali(AS) highway. Yet the early route of highway has changed and adapted to the current route based on plan of highways in Tehran. Therefore, a large number of the Nos which had been destroyed remained without use, and this can be known as one of the major reasons for urban management decision making upon implementation of renewal plan of neighborhood. Followed by establishment of Imam Ali highway and the problems resulted from establishment of this highway at surrounding areas to create a suitable framework for renewal of old fabric with neighborhood-oriented outlook, comprehensive plan for renewal of Imam Ali which had specified the major passages network, use of zones, mean construction density and population density together with share of each of developing neighborhoods among the uses and population was prepared(Andalib et al. 2008, p. 50); with regard to the demolitions at Khoobakht neighborhood, the urban landscape plan at Khoobakht neighborhood which had neighborhood scale was prepared as the first sample and implemented with an approach known with participatory renewal(Andalib et al. 2008, p. 50).

Image 2. The renewal plan of Khoobakht neighborhood(urban landscape plan of Khoobakht, 1387)

In this regards, renewal plan of Imam Ali which was known with neighborhood-oriented participatory renewal has been implemented at three levels. at the first level ownership of land has been suggested to create service uses and open spaces and create uses with economic value added such as commercial complexes. At this stage, the method "new houses instead of old ones" was used. The mentioned provisions till this stage have been called with centralized renewal.

At the second level renewal organization of Tehran has taken action for acquisition of private investors to facilitate renewal at neighborhood and has granted huge legal and financial supports for investors and persuaded them for investment at old fabric of neighborhood.

At the third level mentioned with decentralized renewal, the custodian system undertakes conducting the capital process of the city to old fabrics, prediction of value added uses, improvement of quality of residence and so forth through policy makings and applying persuasive policies(Andalib et al. 2008, p. 64).

In this regards, the statistical population consists of three groups of residents. Cochran formulate has been displayed below to calculate the sample size:

$$n = \frac{t^2 (p.q)}{d^2} = \frac{1.96^2 (0.5 * 0.5)}{0.11^2} = 66$$

DISCUSSION

DESCRIPTIVE FINDINGS OF RESEARCH

The classification of each of demographic variables has been summarized in table below based on 73 respondents.

Table 3. Classification and descriptive statistics of demographic variables

Variables	Items	Frequency	%
Age	Under 30 years old	12	16%
	30-40 years old	23	32%
	40-50 years old	12	16%
	Above 50 years old	23	32%
Gender	Female	35	48%
	Male	33	45%
Area of previous housing	Khoobbakht neighborhood	52	71%
	Other neighborhoods	17	23%
Area of current housing	Khoobbakht	37	51%
	Besat complex	17	23%
	Imam reza complex	19	26%
Education status	illiterate	10	14%
	Graduate School	26	36%
	Secondary Graduate	9	12%
	High school graduate	22	30%
	Student or bachelor graduate	5	7%
Job status	Self-employed job	16	22%
	Worker or staff	7	10%
	Retired	10	14%
	Housewife	35	48%
	Student	1	1%
	Unemployed	2	3%
Financial afford to pay	Have	15	21%

housing costs	Not have	52	71%
Type of housing tenure	ownership	25	34%
	Ownership without certificate	33	45%
	Leased	13	18%
Residence time	1-3 years	24	33%
	4-10 years	26	36%
	Over 10 years	19	26%
Type of renewal plan	Centralized	36	49%
	Semi-centralized	19	26%
	Decentralized	18	25%

RESEARCH HYPOTHESES TESTING

To measure research hypotheses, one-sample t-test was used. In this regards, H_0 refers to average level and H_1 refers to lower or higher level than average level of each of variables.

H_0 : value of the considered variable has not a significant difference with average value.

H_1 : value of the considered variable has a significant difference with average value.

In this test, mean of values of each of variables is compared regarding five-point likert scale with the assumed value(3).

Table 4. Research hypotheses testing (one-sample t-test)

Residential satisfaction indices		Mean	t-statistics	sig	Result
Physical indices	Reduction of road traffic	2.89	-0.683	0.496	Lack of difference with mean
	Improvement in urban landscape	3.47	3.006	0.004	Positive difference with mean
	Green and public space	2.64	-2.476	0.016	Negative difference with mean
	Population density	2.41	-4.154	0.000	Negative difference with mean
	Access to health care services	2.78	-1.670	0.099	Lack of difference with mean
	Access to shopping centers	2.95	-0.379	0.706	Lack of difference with mean
	Access to leisure centers	2.49	3.746	0.000	Negative difference with mean
	Access to public transport	3.12	-0.767	0.446	Lack of difference with mean
	Quality of residential unit	3.36	2.076	0.041	Positive difference with

					mean
Social indices	Friends and relatives in neighborhood	2.56	4.174	0.000	Negative difference with mean
	Social interactions	2.47	-2.832	0.000	Negative difference with mean
	Stability of neighborhood	2.30	-5.482	0.000	Negative difference with mean
	Perceptual security of residents	2.55	-2.789	0.007	Negative difference with mean
	Sense of belonging to neighborhood	2.81	-1.262	0.211	Lack of difference with mean
	Participation in local institution	2.70	1.812	0.074	Lack of difference with mean
Economic indices	Value of residential unit	2.96	0.215	0.831	Lack of difference with mean
	Job opportunities	2.68	-2.385	0.020	Lack of difference with mean
General satisfaction	Satisfaction with living environment	3.23	1.602	0.113	Lack of difference with mean
	Decision upon continuing residence	2.68	2.053	0.044	Negative difference with mean

With regard to absolute t-value for indices of reduction in road traffic, access to health care and training services, access to shopping centers, access to public transport, sense of belonging to neighborhood, participation in local institutions, value of residential units, job opportunities and satisfaction with living environment which is under 1.96, it can conclude that after implementing three-dimensional plans of residential renewal, residents' satisfaction with indices of reduction in road traffic, access to health care and training services, access to shopping centers, access to public transport, sense of belonging to neighborhood, participation in local institutions, value of residential units, job opportunities and satisfaction with living environment have not had a significant change, evaluated at average level.

With regard to t-statistics for indices of green space and public space, population density, access to leisure centers, relationship with friends and relatives in neighborhood, social interactions, stability of neighborhood, residents' perceptual security and decision upon continuing living which are greater than 1.96, it can conclude after implementing three-dimensional plans of residential renewal, residents' satisfaction with indices of public and green space, population density, access to leisure centers, relationship with friends and relatives in neighborhood, social interactions, stability of neighborhood, residents' perceptual security and decision upon continuing living have been measured at low level.

With regard to t-statistics for the indices of improvement in urban landscape and quality of residential unit which are greater than 1.96, it can conclude that after implementing three-dimensional plans of residential renewal, residents' satisfaction with indices of improvement in urban landscape and quality

of residential unit has been evaluated at level greater than average. Values of mean related to each of indices have been proposed in table below indicating these results.

TESTING DIFFERENCE OF RESIDENTIAL SATISFACTION OF THREE GROUPS OF RENEWAL PLANS (CENTRALIZED, SEMI-CENTRALIZED AND DECENTRALIZED)

To test difference in residential satisfaction level of the residents who attended in each of three renewal models, one-way analysis of variance (ANOVA) has been used (table 5). As observed in table below, sig is greater than 0.05 for the indices of reduction of road traffic, improvement in urban landscape, access to training and health care services, access to shopping centers, access to public transport, quality of residential unit, relationship with friends and relatives in neighborhood, social interactions, stability of neighborhood, residents' perceptual security, sense of belonging to neighborhood, participation in local institutions, job opportunities, satisfaction with living environment and decision upon continuing living. Therefore, there is not a significant difference between residents of three renewal plans for these indices. Sig is less than 0.05 for indices of green and public space, population density, access to leisure centers and value of residential unit. Therefore, there is a significant difference between residents of three renewal plans for these indices, that residents of these three renewal plans evaluated level of these indices at their living area so different.

Table 5. Results of ANOVA to test difference in residential satisfaction of three groups of renewal plans

Indices of residential satisfaction		Sig	Error value	F	Result
Physical indices	Reduction in road traffic	155/0	•/••	914/1	Lack of difference of means
	Improvement in urban landscape	192/0	•/••	688/1	Lack of difference of means
	Public and green space	000/0	•/••	596/8	difference of means
	Population density	40/0	•/••	360/3	difference of means
	Access to health care services	656/0	•/••	424/0	Lack of difference of means
	Access to shopping center	546/0	•/••	610/0	Lack of difference of means
	Access to leisure center	018/0	•/••	234/4	difference of means
	Access to public transport	754/0	•/••	296/6	Lack of difference of means
	Quality of residential unit	810/0	•/••	212/0	Lack of difference of means
Social indices	Relatives and friends in neighborhood	684/0	•/••	381/0	Lack of difference of means
	Social interactions	447/0	•/••	816/0	Lack of difference of means
	Stability of neighborhood	261/0	•/••	368/1	Lack of difference of

					means
	Perceptual security of residents	145/0	•/•.5	982/1	Lack of difference of means
	Sense of belonging to neighborhood	252/0	•/•.5	407/1	Lack of difference of means
	Participation in local institution	684/0	•/•.5	382/1	Lack of difference of means
Economic indices	Value of residential unit	007/0	•/•.5	318/5	difference of means
	Job opportunities	651/0	•/•.5	433/0	Lack of difference of means
General satisfaction	Satisfaction with living environment	500/0	•/•.5	700/0	Lack of difference of means
	Decision upon continuing living	824/0	•/•.5	194/0	Lack of difference of means

Mean and priority of residents' residential satisfaction in each of renewal plans with indices of green and public space, population density, access to leisure centers and value of residential unit have been summarized in table below, through which it can determine priority of each of renewal plans (centralized, semi-centralized and decentralized) to each other. For all the indices of public and green space, population density, access to leisure centers, value of residential unit, residents' satisfaction level in decentralized renewal plan is greater than semi-centralized renewal plan. In other words, the more moving from centralized renewal plans to decentralized plans, residents' residential satisfaction with indices of green and public spaces, population density, access to leisure centers and value of residential unit increase. In other words, residents of decentralized renewal plans have more satisfaction in indices of green and public space, population density, access to leisure centers and value of residential unit than residents of semi-centralized and centralized renewal plans.

Table 6. Order of residential satisfaction in three renewal plans

Satisfaction indices		Renewal plan	No of respondents	Mean	Rank	Result
Physical indices	Green and public space	Centralized	36	22/2	3	Satisfaction at low level
		semi-centralized	19	58/2	1	Satisfaction at relatively low level
		decentralized	18	55/3	2	Satisfaction at relatively low level
	Population density	centralized	36	06/2	3	Satisfaction at low level
		semi-centralized	19	67/2	2	Satisfaction at relatively low level
		decentralized	18	82/2	1	Satisfaction at average level
	Access to leisure centers	centralized	36	11/2	3	Satisfaction at low level
		semi-centralized	19	84/2	2	Satisfaction at average level
		decentralized	18	89/2	1	Satisfaction at average level

Economic indices	Value of residential unit	centralized	36	36/2	3	Satisfaction at low level
		semi-centralized	19	50/3	2	Satisfaction at relatively high level
		decentralized	18	58/3	1	Satisfaction at relatively high level

CONCLUSION

The results indicate that renewal of Khoobbakht neighborhood has not had a significant effect on residents' satisfaction level, but extent of this effect is not the same in various dimensions and indices. No change has taken place in some of dimensions of residents' satisfaction before acting for renewal at the neighborhood, whereby this has not led to residents' satisfaction with renewal. For instance residents' satisfaction with indices of reduction of road traffic, access to training and health care services, access to shopping centers, access to public transport, sense of belonging to neighborhood, participation in local institutions, value of residential units, job opportunities and general satisfaction with living environment.

Concerning some of indices, an action to renewal of neighborhood has not just followed by a positive effect but also has led to reduction of residents' satisfaction at these areas. These factors including quantity and quality of public and green spaces, population density, access to leisure centers, relationship with friends and relatives in neighborhood, social interaction, stability of neighborhood, residents' perceptual security and decision upon continuing living have been evaluated less than average level.

Yet an action to renewal of Khoobbakht neighborhood has caused improvement in residents' satisfaction level just in some of the areas such as indices of urban landscape and quality of residential unit. This indicates that economic and social factors and quality of urban facilities and services have not been taken into account in renewal made based on urban landscape plan, so that this has had a negative impact on mentioned aspects.

The interesting points in the results above indicate that although renewal of Khoobbakht neighborhood has not had any effect on extent of residents' satisfaction, their motivation has reduced to continue living at the area, which this is contrary to most of the studies which had referred to direct relationship between residential satisfaction and decision upon continuing residence at residential environment.

Comparison of three centralized, semi-centralize and decentralized models associated to most of indices including indices of reduction of road traffic, improvement of the urban landscape, access to educational and health services, access to shopping centers, access to public transportation, quality of residential units (the physical indicators), relationship with friends and relatives in the neighborhood, social interactions, neighborhood stability, residents' perception of security, a sense of belonging to the neighborhood, participation in local institutions(social indices), job opportunities(economic indicators), satisfaction with living environment and decision upon continue living (indicator of overall satisfaction) indicated no significant difference among residents of three renewal projects; residents of each of renewal projects evaluated level of these indices at their living area the same. Concerning indices of public and green space, population density, access to leisure centers, value of residential unit, there is a significant difference between residents of three renewal models; residents of these three renewal projects evaluated level of these indices at their living area different. Concerning four indices of green and public space, population density, access to leisure centers, value of residential unit, extent of residents' satisfaction in decentralized renewal project is greater than semi-centralized renewal project.

In other words, the more moving from centralized renewal projects to decentralized renewal projects, residents' satisfaction with indices of green and public space, population density, access to leisure centers and value of residential unit increase. In other words, residents of decentralized renewal projects are more satisfied with indices of green and public space, population density, access to leisure centers and value of residential unit than residents of centralized and semi-centralized renewal

projects. This indicates superiority of decentralized and participatory models and micro-scale provisions to centralized models and predetermined projects regardless of residents' needs and conditions and major beneficiaries of neighborhood.

SUGGESTIONS

With regard to the findings and results from this research, compliance with factors below seems effective to increase residential satisfaction under provisions to urban renewal;

- considering increasing residential satisfaction as the major goal in provisions of urban renewal
- changing approach from centralized and comprehensive renewal models to participatory and micro-scale models
- avoiding prescription of pre-determined physical projects without environmental and socioeconomic studies and evaluations
- avoiding residents' extensive displacements due to renewal provisions
- moving towards stable recreation of neighborhoods with a gradual process instead of extensive renewal
- considering all the dimensions and of residential satisfaction instead of attention to physical dimension

REFERENCES

- Adams, R. E. (1992), Is happiness a home in the suburbs? The influence of urban versus suburban neighborhoods on psychological health, *Journal of Community Psychology* (20) 353-72.
- Amerigo, M., Aragonés, J. I. (1997), A theoretical and methodological approach to study of residential satisfaction, *Journal of Environmental Psychology* 17(1) 47-57.
- Amerigo, M., Aragonés, J. I. (1990), Residential satisfaction in council housing, *Journal of Environmental Psychology* (10) 313-325.
- Andalib, A.R., Haji Aliakbari, K. (2008), Renovation of Deteriorated Urban Areas, number 7: Dilapidated context's renovation with Khoobbakht neighborhood's residents' participation, Urban Renewal Organization of Tehran Publications.
- Atkinson, R. (2004), The evidence on the impact of gentrification: new lessons for the urban renaissance?, *European Journal of Housing Policy* (4) 107-131.
- Baiden P., Arkug., Luginaah, Asiedu, A. B. (2011), An assessment of residents' housing satisfaction and coping in Accra: Ghana, *Journal of Public Health* (19) 29-37.
- Boyle, M. A., Kiel, K. A. (2001). A Survey of House Price Hedonic Studies of the Impact of Environmental Externalities, *Journal of Real Estate Literature* 9(2) 117-144.
- Burby, R.J., Rohe, W.M. (1990). Providing for the housing needs of the elderly", *Journal of the American Planning Association* (56) 324-40.
- Campbell, A., Converse, P.E., Rodgers, W.J. (1976), The quality of American life: perceptions, evaluations, and satisfaction, Russell Sage Foundation, New York.
- Caldieron, J. (2011), Residential satisfaction in La Perla informal neighborhood, San Juan: Puerto Rico, *OIDA International Journal of Sustainable Development* 2(11) 77-84.
- Dahmaan, D.C. (1985), Assessments of neighborhood quality in metropolitan America, *Urban Affairs Quarterly* (20) 511-35.
- Elsinga, M., & Hockstra, J. (2005), Homeownership and housing satisfaction, *Journal of Housing and the Built Environment* (20) 301-324.
- Fang, Y. (2005), Residential Satisfaction, Moving Intention and Moving Behaviours: A Study of Redeveloped Neighbourhoods in Inner-City Beijing, *Journal of Housing Studies* (21) 671-694.
- Francescato, G., Weidemann, S. & Anderson, J. (1989), Evaluating the built environment from the users point of view: an attitudinal model for residential satisfaction, New York, Plenum Press.
- Galster, G. C., & Hesser, G. W. (1981), Residential satisfaction: compositional and contextual correlates, *Environmental and Behaviour*, 13(6), 735-758.

- Ghiaee, M.H., Azimi, Sh. & Shahabian, P. (2013), measuring variables related to residential satisfaction with housing and neighborhood (Case study: Farabi residential complex) , *Journal of city identity* (15) 49 - 60.
- Haji Aliakbari, K. (2011), *Renovation of Deteriorated Urban Areas*, number 10: facilitating and the establishing renovation facilitator offices in Tehran's dilapidated areas, Urban Renewal Organization of Tehran Publications.
- Hashim, A. H. (2003), Residential satisfaction and social integration in public low cost housing in Malaysia Pertanika, *Journal of Social Science and Humanities* 11(1) 1-10.
- Kahraman, Z. E. (2011). Urban Integration as A Multi-Dimensional Process, in Frank Eckardt ve John Eade (eds.), *The Ethnically Diverse*.
- Kaitilla, S. (1993), Satisfaction with public housing in Papua New Guinea : The case of West Taraka housing scheme, *Environment and Behavior* (25) 514-45.
- Kamp, I. V., Leidelmeijer, K., Marsman, G., Hollander, A. D. (2003), Urban environmental quality and human well-being towards a conceptual framework and demarcation of concepts; a literature study, *Landscape and Urban Planning* (65) 5-18.
- Kasarda, J.D., Janowitz, M. (1974), Community attachment in mass society, *American Sociological Review* (39) 328-329.
- Lu, M. (1999), Determinants of residential satisfaction: Ordered logit vs. Regression Models, *Growth and Change* (30) 264-87.
- Marans, R.W., Rodgers, W. (1975), Toward an understanding of community satisfaction, in A.H. Hawley and V.P. Rock (eds.), *Metropolitan America in Contemporary Perspective*, Halstead, New York
- Mohit, M. A., Ibrahim, M. I., Rashid, Y. R. (2010), Assessment of residential satisfaction in newly designed public low-cost housing in Kuala Lumpur: Malaysia, *Habitat International* (34) 18-27.
- Onibokun, A. (1974), Evaluating consumers' satisfaction with housing, *Journal of the American Institute of Planners* (40) 189-200.
- Parkes, A., Kearns, A., Atkinson, R. (2002), The determinants of neighborhood dissatisfaction, ESRC Centre for Neighborhood Research, Bristol.
- Rafieian, M., Asgari, A., Asgarizadeh, Z. (2009), measuring the residential satisfaction of Navvab neighborhood, *Journal of Human Geography Research* (67) 53- 68.
- Rezaei, M., Komaei Zadeh, Y. (2013), Evaluating the satisfaction of residents of Fatemieh housing complexes in Yazd, *Journal of Urban Studies* (5) 13- 26
- Rohe, W.M., Stegman, M.A. (1994), The impact of home ownership on the social and political involvement of low-income people, *Urban Affairs Quarterly* 30(September) 152-72.
- Salleh, A. N. A., Yosuf, B. N. A., Salleh, C. A. G., & Johari, D. N. (2012), Tenant satisfaction in public housing and its relationship with rent arrears: Majlis Ban-Perak, Malaysia, *International Journal of Trade, Economics and Finance* 2(1) 10-18.
- Salleh, A. G. (2008), Neighbourhood factors in private low-cost housing in Malaysia, *Habitat International* (32) 485-93.
- Satsangi, M., Kearns, A. (1992). The use and interpretation of tenant satisfaction surveys in British social housing, environment and planning, *Government and Policy* (10) 318-331.
- Smith, K.M. (2011), *The Relationship between Residential Satisfaction, Sense of Community, Sense of Belonging and Sense of Place in a Western Australian Urban Planned Community*, phd thesis in Edith Cowan University.
- Speare, A. (1974), Residential satisfaction as an intervening variable in residential mobility, *Demography*, 11, pp. 173-188.
- Turkoglu, H. (1997), Residents' satisfaction of housing environments: the case of İstanbul, Turkey, *Landscape and Urban Planning* (39) 55-67.
- Ukoha, O. M., Beamish J. O. (1997), Assessment of residents' satisfaction with public housing in Abuja: Nigeria, *Habitat International* (21) 45-460.
- Varady, D. P. & Preiser, W. F. E. (1998), Scattered-site public housing and housing satisfaction-implications for the new public housing program, *Journal of the American Planning Association*, 64, 189-207.
- Varady, D. P., & Carrozza, M. A. (2000), Towards a better way to measure customer satisfaction levels in public housing: a report from Cincinnati, *Housing Studies* 15(60) 797-825.

- Varaday, D.P. (1983), Determinants of residential mobility, *Journal of the American Planning Association* (49) 184-99.
- Westaway, M.S. (2006), A longitudinal investigation of satisfaction with personal and environmental quality of life in an informal South African housing settlement, Doornkop: Soweto, *Habitat International* (30) 175-89.
- Wiesenfeld, E. (1992), Public housing evaluation in Venezuela: A case study, *Journal of Environmental Psychology* (12) 213–23.
- Zabihi, H., Habib, F., Rahbari Manesh, K. (2011), examining the relationship between the satisfaction of residential complexes and residential complex on human relations(case study: some residential complex in Tehran), *Journal of city identity* (8) 103- 119.
- Zanuzdan ,A.,Khan,M.,Kraemer, A. (2012), Housing satisfaction related to health and importance of services in urban slums:evidence from Dhaka: Bangladesh, *Social Indicators Reasearch* (DOI 10.1007/s1 1205-012-0045-5).
- <http://www.dolat.ir/NSite/FullStory/Article>