# JOURNAL OF THE MALAYSIAN INSTITUTE OF PLANNERS

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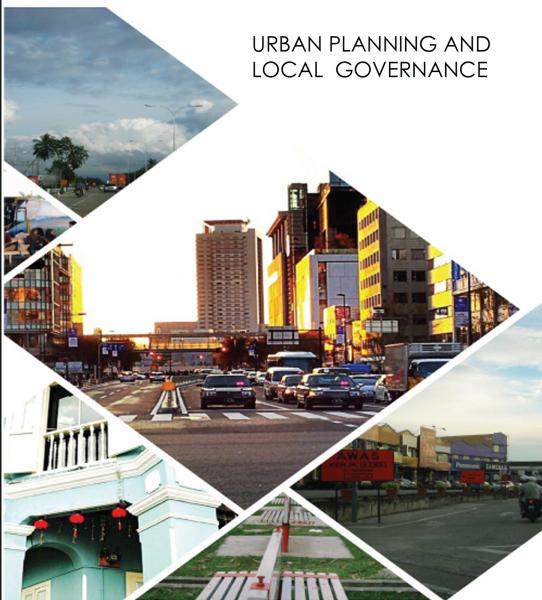
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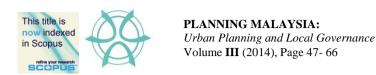


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"Whoever travels in search of knowledge is on Jihād until he returns" (Transmitted by Tirmi<u>dh</u>i & Darimi)



#### RESIDENTIAL SATISFACTION - CONCEPT, THEORIES AND EMPIRICAL STUDIES

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#### **Abstract**

Residential satisfaction, defined as the feeling of contentment when one has or achieves what one needs or desires in a house, is an important indicator and planners, architects, developers and policy makers use it in a number of ways. There are three theories – housing needs theory, housing deficit theory and psychological construct theory, and most empirical studies have used these theories or a combination of these theories in their research design. A number of variables representing housing and neighbourhood characteristics, individuals' socio-demographic attributes as well as their perceptions of housing and neighbourhood conditions have been analysed in most empirical studies what stand to indicate that further studies are required until a general theory of residential satisfaction/ dissatisfaction emerges. Also, a host of variables belonging to housing and its environment including the sociodemographic attributes of residents exert significant influences on the level of residential satisfaction/ dissatisfaction which is however, culture and value specific indicating that further studies on residential satisfaction/ dissatisfaction can be undertaken on case specific context to guide public policies on housing.

**Keyword**: Residential satisfaction, housing needs theory, housing deficit theory, psychological constructs theory, neighbourhood characteristics

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#### INTRODUCTION

Since the post-war housing boom of the 1950s and early 1960s and the concomitant growth of suburban developments in western countries, two phenomena – new residential development and living patterns and the central city rebuilding through slum clearance programmes, have played a catalytic role in fostering much of the research on residential satisfaction (Campbell et al, 1976). Meanwhile, the developing world is experiencing rapid urban growth (urbanization) which is due to rapid industrialization and economic growth since 1970s. Thus, the governments in these countries have been providing/ facilitating different types of houses for different income groups. Residential satisfaction studies in these countries are focussed on ascertaining the extent to which houses produced and provided by both public and private sectors satisfy the aspirations of the citizens.

Residential satisfaction has been considered as a complex construct as its precise meaning depends on the place, time and purpose of assessment and on the value system of the assessor, involving an extensive range of people - architects, planners, sociologists, psychologists and urban geographers (Bardo and Dokmeci, 1992). Galster (1985) pointed out that the concept of residential satisfaction has been utilized in at least four different ways: First, it has been used as a key predictor of individuals' perceptions of general "quality of life". Second, it has been used as an ad hoc evaluative measure for judging the success of housing developments constructed by the private sector and the public sector. Third; it has been used as an indicator of incipient residential mobility and, hence, altered housing demands and neighbourhood change. Fourth, it has been used to assess residents' perceptions of inadequacies in their current housing environment so as to direct forthcoming private or public efforts to improve the status quo. Therefore, it is essential to understand the concept of residential satisfaction within the milieu of its theoretical and empirical perspective.

#### **OBJECTIVES**

The aim of the paper is to provide an overview of the theoretical and empirical perspective of residential satisfaction with the following objectives:

- a) To explore the concept of residential satisfaction;
- b) To investigate the various theories of residential satisfaction;
- c) To examine the empirical studies on residential satisfaction at crosscultural level; and
- d) To assess the need and importance of residential satisfaction as a policy tool to guide future housing development.

#### **METHODOLOGY**

In order to fulfil the stated objectives of the paper, methodology adopted is based on the gathering and analysis of secondary data and information. Desktop research was carried out for about six months to search for the theories and studies of residential satisfaction at cross-cultural levels which included both developed and developing countries. A review of the theories and empirical studies on residential satisfaction was carried out to arrive at a meaningful conclusion leading to the need for further studies on residential satisfaction, based on country or culture specific situations.

#### LITERATURE REVIEW

#### **Definition of Residential Satisfaction**

In order to understand, the concept of residential satisfaction or housing satisfaction as some researchers usually use it, we should, firstly, take the term apart as Housing and Satisfaction and define them separately and secondly, we should define the concept of residential satisfaction or housing satisfaction together.

Housing does not mean an individual's dwelling unit only. It is a composite of the overall physical and social components that makeup the housing system (Francescato et al., 1987). Further, housing is a multidimensional phenomena, including structural type (e.g., single family home), tenure (own or rent), location and political jurisdiction (Shlay, 1998).

Satisfaction is a process of evaluation between what was received and what was expected (Parker and Mathews, 2001). Satisfaction can be precisely defined as the perceived discrepancy between aspiration and achievement, ranging from the perception of fulfilment to that of deprivation (Campbell et al., 1976). Williamson (1981) found that satisfaction was not only conditioned by physical aspects but also by the ability to form social networks. Finally, Satisfaction is a subjective response to an objective environment (Potter and Cantarero, 2006).

Residential satisfaction involves an extensive range of experts and professionals; some of them try to define the term from one dimension while others try to define it from multi-dimensional perspectives. For instance, Onibokun (1974), defined the residential satisfaction as a spatial aspect -"Housing satisfaction encompasses satisfaction with dwelling unit and satisfaction with the neighbourhood and the area". Conversely, Satsangi and Kearns (1992), defined residential satisfaction as psychological aspect – "Housing satisfaction is a complex attitude". In addition, Lu (1999) has defined residential satisfaction as a complex cognitive construct. Besides that, Ogu (2002) reported that "the concept of housing or residential satisfaction is often employed to evaluate residents' perceptions of and feelings for their housing units and the environment". On the other hand, Galster (1985) has defined residential satisfaction as social aspect - "The concept of residential satisfaction has become the preeminent social indicator employed by housing developers, analysts and policymakers alike during the last decade". Also, McCray and Day (1977) refer to housing satisfaction as "the degree of contentment experienced by an individual or a family member with regard to the current housing situation".

Contrary to the above, many experts and professionals have realized that, residential satisfaction is multi-dimensional aspects. For instance, Bechtel (1997) observed that residential satisfaction is determined by a mix of factors that include not only the house and its physical qualities but also the surrounding neighbourhood and social quality of the surrounding. Further, Francescato et al., (1986) mentioned that residential satisfaction indicates people's response to the environment in which they live. In this definition the term environment refers not only to physical aspects of residential setting such as dwelling, housing developments, and neighbourhoods, but also social, economic and organizational or institutional aspects of such settings.

#### Theories of Residential Satisfaction

Residential satisfaction, defined as the feeling of contentment when one has or achieves what one needs or desires in a house, is an important indicator and planners, architects, developers and policy makers use it in a number of ways. Indeed, theories of residential satisfaction all hinge upon the notion that residential satisfaction measures the differences between household actual and desired (or aspired to) housing and neighbourhood situations (Galster and Hesser, 1981). There are three main theories upon which most of the empirical studies are based. These are housing needs theory, housing deficit theory and psychological construct theory.

#### **Housing Needs Theory**

Rossi (1955) introduced the notion of "housing needs" to conceptualize residential satisfaction / dissatisfaction. In his theory, Rossi posited that changing housing needs and aspirations as households' progress through different life cycle stages often place households out of conformity with their housing and neighbourhood situations. The "lack of fit" between their current and desired housing needs creates stress or dissatisfaction with their current residence. Households respond to such stress or dissatisfaction through migration, which brings a family's housing into adjustment with its housing needs. Life cycle changes may generate different space requirements, which are considered the most important aspect of the needs. Thus, households are likely to feel dissatisfied if their housing and neighbourhood do not meet their residential needs and aspirations.

#### **Housing Deficit Theory**

Morris and Winter (1978) introduced the notion of "housing deficit" to conceptualize residential satisfaction / dissatisfaction. In their housing adjustment model of residential mobility, they theorize that individuals judge their housing conditions according to normatively defined norms, including both cultural norms, which are dictated by societal standards or rules for life conditions, and family/personal norms, which amount to households' own standards for housing.

Thus, an incongruity between the actual housing situation and the cultural and /or familial housing norms results in a housing deficit, which in turn gives rise to residential dissatisfaction. Households with a housing deficit who are hence dissatisfied are likely to consider some form of housing adjustment. They may attempt to make in situ adjustments to reduce dissatisfaction by revising their needs and aspirations to reconcile the

incongruity or by improving their housing conditions through remodelling. They may also move to another place and bring their housing into conformity with their needs.

#### **Psychological Construct Theory**

Galster (1985) introduced the notion of "psychological construct" of residential satisfaction and theorized that individuals may be seen as cognitively constructing a "reference" condition for each particular facet of their residential situation. The quantity or quality of the given facet implied by the reference point will depend on the individual's self-assessed needs and aspirations. If the current situation is perceived to be in proximate congruence with (or superior to) the reference situation, a psychological state of 'satisfaction' should be manifested. If, on the other hand, the current situation falls short of the reference situation by more than a 'threshold deficiency', two alternatives are possible. One may attempt to reconcile the incongruence by 'adaptation', through redefining needs, reducing aspirations and/or altering the evaluation of the current situation, thereby producing a modicum of satisfaction. The other alternative is that one cannot somehow adapt to the current residential context, in which case 'dissatisfaction' should be manifested. Such individuals, over time, would likely attempt to reduce their dissatisfaction by altering conditions of the present dwelling unit or by moving to another more congruent residential situation (Foote et al., 1960). Of course, these options may be relatively limited, e.g., by lack of purchasing power for lower income households and discrimination against minority households. The main elements of the three theories are summarised in Table 1.

Table 1: Summary of residential satisfaction theories with their major elements

Author(s) & Year	Name of theory	Main elements
Rossi (1955)	Housing needs theory	<ul> <li>a) Life cycle stages and changing housing needs.</li> <li>b) Discrepancy between current and desired housing needs creates housing stress or dissatisfaction.</li> <li>c) Residents respond to this distress through migration.</li> </ul>
Morris & Winter (1978)	Housing deficit theory	a) Individuals judge their housing conditions according to some norms.

		b) Incongruity between actual and
		familial housing norms results in
		housing deficit.
		c) Housing deficit is mitigated through
		some form of housing adjustments.
Galster (1985)	Psychological	a) Individuals cognitively construct a
	construct theory	"reference" condition of their
		residential situation.
		b) Satisfaction prevails when current
		housing is proximately congruent
		with the reference situation.
		c) Incongruence will lead to either
		adaptation or dissatisfaction/
		modification.

Source: Literature review, 2014.

Most empirical studies on residential satisfaction/ dissatisfaction have used either one or a combination of the three theories discussed above. A host of variables representing housing and neighbourhood characteristics, individuals' socio-demographic attributes as well as their perceptions of housing and neighbourhood conditions have been analysed in most housing studies (Lu, 1999). However, some empirical studies have demonstrated that housing deficit is a useful theory in explaining residential satisfaction and mobility behaviour (Bruin and Cook, 1997; Husna and Nurijan, 1987).

#### **EMPIRICAL STUDIES**

Residential satisfaction has been researched in numerous empirical studies which examine characteristics of the users (either cognitive or behavioural) or characteristics of the environment, both physical and social (Amerigo and Aragones, 1997). Characteristics of users, however, are involved in socio-demographic characteristics of residents and behavioural characteristics of residents as well. On the other hand, the characteristics of environment are involved housing characteristics and neighbourhood characteristics. In fact, those characteristics have been viewed as the essential elements in determining residential satisfaction/ dissatisfaction levels (the dynamic interaction). On the other hand, behavioural characteristics of residents are considered as the result of the dynamic interaction.

#### Socio-Demographic Characteristics of Residents

Empirical studies have identified a number of important factors belonging to residents' characteristics, such as age, income, duration of residence, and ownership of house (Lu, 1999; Spear, 1974). According to a number of authors (Baum et al., 2010; Chapman & Lombard, 2006; Lu, 1999; Osward et al., 2003; Pinquart & Burmedi, 2004) age exerts a positive effect on residential satisfaction. Older people tend to be more satisfied with their dwelling than do younger people. Weidemann et al., (1989) reported, in general, that the levels of housing satisfaction of elderly residents are likely to be higher than those of younger residents. Galster (1987) also argued that empirical findings of housing satisfaction should be segregated by household type (e.g., family and elderly). A study by Mohit et al., (2010), however, argued that age of the household is negatively related to housing satisfaction.

Yearns (1972) and Tucker (1969) found a significant relationship between income and housing satisfaction. Previous works by Adriaanse (2007) and Lu (1999) indicated that higher income households are generally satisfied with their housing. Frank and Enkawa (2009) contended that higher income enables households to move to a suitable house in an attractive neighbourhood, which may result in a relatively higher level of satisfaction.

Halimah and Lau (1998) compared the perceived concept of home aspired between Malay and Chinese housewives in Low-cost housing in Selangor and found that there were significant differences between the Malays' and Chinese perception of home and housing satisfaction.

Vera-Toscano and Ateca-Amestoy (2008) pointed out that, the higher the education level of the heads of the household; the more satisfied they are with their housing compared to household heads with lower educational attainment. Indeed, a positive relationship has been found between housing satisfaction and age, income, education and job status (Campbell et al., 1976; Pruitt, 1977). However, Lu (1999) found that education appears to have insignificant effects on housing satisfaction.

Homeownership or tenure status is a key indicator and determinant of residential satisfaction. Although Husna and Nurijan (1987) did not find any difference between owner and tenant residents of public low-cost housing in Kuala Lumpur, many studies reveal that residential satisfaction is much higher among homeowners than renters (Loo, 1986; Lu, 1999). Elsinga and Hockstra (2005) reported that homeowners in seven out of eight European countries are more satisfied with their housing situation than tenants and only in one country do homeowners and tenants display similar level of satisfaction. Even with similar quality of housing unit, owner-

occupiers tend to be more satisfied than renters possibly because homeownership gives a sense of 'self-gratification' to owner-occupiers and makes them psychologically proud and satisfied with their dwelling units (Kaitilla,1993). Barcus (2004) found that tenure shift from renters to owners is the only significant variable in predicting residential satisfaction of American urban-rural migrants; individual migrant characteristics and their motivations offered little explanation for the variation in residential satisfaction. In addition, Whiteford and Morris (1986) also examined the impacts of both households' age and tenure type on households' housing satisfaction. They found that older renters are as satisfied as owners, whereas younger renters are significantly less satisfied than all other groups.

#### **Housing Characteristics**

According to Lane and Kinsey (1980) housing characteristics were more crucial determinants than demographic characteristics of housing occupants. Thus, empirical studies show that building features such as number of bedrooms, size and location of kitchen and quality of housing units, are strongly related to residential satisfaction (Noriza et al., 2010). Morris et al., (1976) found a positive relationship between number of rooms and housing satisfaction. Speare and Stewar (1974) and McCown (1977) also found a negative relationship between person-per-room ratio and housing satisfaction. As the number of persons-per-room increases, creating a higher density living environment, housing satisfaction decreases. Oh (2000) in her study on housing satisfaction of middle income households in Bandar Baru Bangi Malaysia, revealed that while the residents were highly satisfied with the space and price of the house owned, they were not satisfied with the size of kitchen, plumbing and public facilities such as recreational area, playground, taxi and bus services in the housing area.

Pruitt (1977) analyzed the housing characteristics related to housing satisfaction and found that tenure, age of dwelling, and structural quality were related to housing satisfaction. Home ownership and high structural quality were also indicators of higher perceived housing satisfaction. A negative relationship was found between age of dwelling and housing satisfaction. Those persons in older units were less satisfied.

Preference for a specific type of dwelling structure has also been found to be related to housing satisfaction. Morris et al. (1976) and Rent (1978) found a single family detached home to be preferable over alternatives such as mobile homes and multi-family units. Mastura, et.al. (undated) in their cross-section study found that project type, house price

and length of residency significantly influence housing satisfaction among the residents of Penang Development Corporation's project. Also, Ukoha and Beamish (1997) observed that while the residents of public housing in Abuja, Nigeria, were satisfied with neighbourhood facilities, they were dissatisfied with structure types, building features, housing conditions and management.

According to Baum, et. al. (2005); Hipp (2010) and Parkes et al., (2002), structural attributes of housing is a significant factor affecting housing satisfaction. These attributes include objective physical characteristics of housing such as kitchen space, laundry and washing areas, size of living area and dining area, morphological configuration of residence hall, number and level of sockets, number of bedrooms and bathroom, other aspects of housing such as housing quality, privacy (social densities), and housing services provided by developers such as garbage disposal, safety, brightness and ventilation of the house (cited in Tan, 2011).

#### **Neighbourhood Characteristics**

Morris et al., (1976) pointed out that, a family evaluates a neighbourhood based on the following normative criteria: 1) Area should be predominately residential. 2) Accessible to quality schools. 3) Quality of streets and roads. 4) Homogeneity regarding social class, race, and ethic group. Thus, Lu (1999) contended that neighbourhood satisfaction has been shown to be an important predictor of dwelling satisfaction.

Neighbourhood dissatisfaction, however, occurs with regard to distances travelled to school by children, to employment and medical centres and the geographical location of housing estates (Awotona, 1991). Also accessibility to the public transportation, community and shopping facilities and physical environment variables has been noted as predictors of neighbourhood satisfaction (Ozo, 1990). Baker (2002) has thus observed that location characteristics are important considerations for understanding the formation of residential satisfaction among public housing tenants. While housing is likely to be a source of satisfaction, elements of the neighbourhood such as level of crime (Mullins, et. al., 2001) or lack of amenity (Fried,1982) or industrial development or work place location are likely to be sources of dissatisfaction. Alison, et. al. (2002) by analyzing English Housing data concluded that although socio-demographic factors were much less important than residential perceptions in helping to predict dissatisfaction, the type of neighbourhood remained a significant independent predictor of dissatisfaction even when residents' views were taken into account.

Few studies, however, have examined the relationship between safety from physical accidents (e.g., fire, demolition, traffic accidents, etc.), which might also be very important in housing environments. Anderson et al., (1983) and Francescato, et al., (1979) are among those who have considered the issue of safety from accidents as a predictor of housing satisfaction. Lawton, et. al. (1984), however, found that safety from crime (e.g., rated risk of crime) was not found to be related to any of the other indices of well-being except for residents' housing satisfaction.

Yancy (1971) concluded, in a study of Pruitt-Igo, St. Louis, that one of the reasons for the failure of Pruitt-Igo was the lack of neighbourhood cohesion and social order associated with dissatisfaction with neighbours. Djebuarni and Al-Abed (2000) observed that the residents of public low-income housing in Sana'a, Yemen, attach great importance to the level of satisfaction with their neighbourhood, particularly, with privacy which reflects the cultural background of Yemeni society.

Therefore, it can be deduced that residential satisfaction does not only rely on the dwelling units itself; neighbourhood plays an important role in residential satisfaction (Noriza et al., 2010) and (Salleh, 2009).

#### **Behavioural Characteristics of Residents**

Behavioural characteristics of residents or "Housing adjustment and adaptation" as conceptualized by Morris and Winter (1978) are the family's efforts to redress the discrepancies between the housing it has and the housing it and others feel they should have when such deficits appear. In fact, housing adjustment is a process that may occur when a family experiences a normative housing deficit that causes a significant reduction in housing satisfaction. Housing adjustment takes place through residential mobility and residential modification (e.g., alterations, additions, etc.) (Morris and Winter, 1978).

Morris and Winter (1978) pointed out that, residential alterations and additions consist of two main phenomena - a) increases in the amount of space or number of rooms in the dwelling, and b) improvements in the quality of the dwelling. Thus, residential alterations and additions are typically undertaken to correct normative housing deficits in space or quality.

Harris (1976) by using satisfaction with the dwelling units or the neighbourhood or both, has shown weak relationships with residential alterations and additions. Yockey (1976) found no relationship between space satisfaction and planning to make alterations and additions. The reason for the weak relationship or absence of relationship between

satisfaction and planning future alterations may be the curvilinear relationship between satisfaction and alterations. As in residential mobility, people who are dissatisfied with their dwelling tend to make home improvements. Such alterations are undertaken partly to overcome deficit and partly to improve the resale value of properties. People who are highly satisfied with their dwelling and neighbourhood may love the dwelling so much that they want to continue improving it (Morris and Winter, 1978).

Using only satisfaction with space and neighbourhood, Yockey (1976) developed a typology of satisfaction. She classified people according to high and low space satisfaction and high and low neighbourhood satisfaction. She further classified families according to whether or not they planned to move. People with low space satisfaction and high neighbourhood satisfaction who planned to move were most likely to make residential alterations. The second highest proportion planning alterations occurred in the group with the highest satisfaction levels and no expectation of moving. Morris and Winter (1978), pointed out that, the key determinant of the propensity to move and, in turn, actual mobility, is dissatisfaction with dwelling. In addition, neighbourhood satisfaction affects housing satisfaction and mobility.

Morris and Winter (1978) reported that respondents who were dissatisfied with their housing, their neighbourhood, and with specific features of the dwelling were more likely to plan to move than families who were satisfied. Another study (Morris et al., 1976) treated housing and neighbourhood satisfaction as intervening variables between normative housing deficits and the desire to move. Neighbourhood satisfaction was related to housing satisfaction and desire to move. Housing and neighbourhood satisfaction were the most important predictors of the desire to move. Only two characteristics of the family, duration of the marriage and sex of the head, were directly related to the propensity to move. A summary of the main findings from residential satisfaction studies has been presented in Table 2.

Table 2: Summary of main findings from residential satisfaction studies

Residential	Residential Main findings	
satisfaction with		
Socio-demographic	a) Residents' characteristics such as age, income, duration	
characteristics of	of residence, house ownership, household types, impact	
residents	residential satisfaction variously, positively or negatively	
	across different countries/ cultures.	
	b) The findings between residential satisfaction and residents' characteristics is not conclusive	
Housing	a) Housing characteristics such as number of bed rooms and	
characteristics	toilets, size and location of kitchen, living room, quality	
	of housing unit, affect residential satisfaction differently	
	at cross-cultural levels.	
	b) The findings between residential satisfaction and housing	
	characteristics are, however, not conclusive.	
Neighbourhood	a) According to some authors, neighbourhood satisfaction is	
characteristics	an important predictor of residential satisfaction.	
	b) Neighbourhood dissatisfaction occurs due to higher	
	distances travelled for school, work, shopping, medical	
	centres.	
	c) Safety from crimes and accidents is positively associated	
	with residential satisfaction.	
Behavioural	a) Behavioural characteristics of residents reflect their	
characteristics of	feeling about their residential satisfaction/ dissatisfaction.	
residents	b) Residents' react differently with their housing	
	dissatisfaction. It can be adaptive or it may lead to	
	migration depending on the degree of dissatisfaction or	
	the ability of relocation.	

Source: Literature review, 2014.

It appears from the foregoing review of empirical studies on residential satisfaction that while various housing, neighbourhood and household characteristics determine the level of residential satisfaction/dissatisfaction, the impacts of these variables as determinants of residential satisfaction/dissatisfaction tend to vary by housing types, tenures, countries and cultures what stand to indicate that further studies are required to determine residential satisfaction/dissatisfaction on case specific situations to guide public policies on housing (Mohit, et.al., 2010,p.20).

#### **Indicator Framework of Residential Satisfaction**

Based on the review of theories and empirical studies pertaining to residential satisfaction, a multi-faceted indicator framework of residential satisfaction can be developed and this will help further research in this area. The framework is community based and it provides the architecture for framing to capture and evaluate community issues of importance. The framework is a composition of several components with each component being represented through a number of indicators or variables (Figure 1).

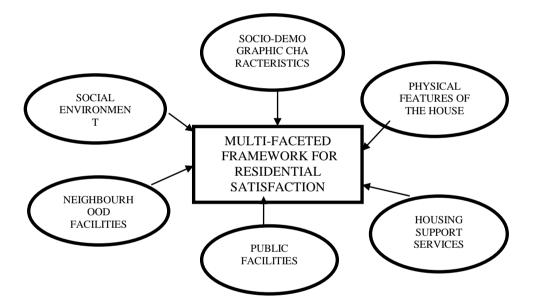


Figure 1: Multi-Faceted Framework for Study of Residential Satisfaction

#### MEASUREMENT OF RESIDENTIAL SATISFACTION

To understand residential satisfaction, it must be adequately measured (Gifford, 1997). However, adequate measurements of residential satisfaction depend on studying the type of variables that are related to the different processes: cognitive, affective and behavioural which take place in the dynamic interaction between the individual and his/her residential environment. Thus, Francescato, et. al. (1986) defined satisfaction as an attitude and stated that affective, cognitive and behavioural variables affect satisfaction.

#### **Cognitive Process**

The cognitive process refers to negative or positive perceptual attitudes and feelings occupants have while perceiving the "meaningfulness" or "meaninglessness" of their housing environment (Ajzen and Fishbein, 1981). In addition, it refers to perception and beliefs (e.g., about the physical environment, other residents) (Potter and Cantarero, 2006). Gifford (1997) pointed out that, there are two cognitive processes related to measurement of residential satisfaction namely, purposive evaluation and comparative evaluation.

Purposive evaluation has several aspects such as level factor (e.g., to evaluate a single part or a large portion of residence), quality factor (e.g., to evaluate the quality of residence such as beauty, lighting, or spaciousness) and focus factor which depends on the quality (e.g., to evaluate the ability of a particular lamp to light a study desk, or is it broader, such as lighting in the home as a whole). Therefore, the concept of residential satisfaction is often employed to evaluate residents' perceptions of and feelings for their housing units and environment (Ogu, 2002).

Conversely, comparative evaluation, however, has two approaches to measurement of residential satisfaction which focus on discrepancy such as discrepancy between present and past residences and the discrepancy between present and ideal residences. Thus, the level of residential satisfaction can be precisely defined as the perceived discrepancy between aspiration and achievement, ranging from the perception of fulfilment to that of deprivation (Campbell et al., 1976).

#### **Affective Process**

The affective process refers to the positive or negative feeling that the occupants have where they live in. In other words, it is people's satisfied or dissatisfied attitudes towards their socio-physical housing environment (Ajzen and Fishbein, 1981). Also, it is both emotional and evaluation and is composed of multiple reactions that form a "global representation of the affective responses of people to the social-physical environment in which they live" (Weidemann and Anderson, 1985). In fact, there are three affective processes related to measurement of residential satisfaction namely, subjective attributes, objective attributes and personal characteristics (Amerigo and Aragones, 1997).

It has been found that the overall quality of life or life satisfaction is influenced by a variety of social and physical domains (e.g., family job, religious affiliation, residence, neighbourhood, community, etc.) (Campbell et al., 1976). Thus, Potter and Cantarero (2006) pointed out that the process of evaluating a domain begins with the objective attributes. While we all live in an objective world, we make decisions based on our subjective assessments of a situation. Therefore, our assessments of a domain are influenced by personal characteristics (e.g., experience, social standing, aspirations, reference group and so forth) which in turn affect our level of satisfaction with that domain. Thus, Potter and Cantarero (2006) also, defined residential satisfaction as a subjective response to an objective environment.

#### **Behavioural Process**

The behavioural process refers to all adaptive or non-adaptive behaviours that occupants exhibit in order to make the physical setting satisfactory to compensate a loss in needs or values (Ajzen and Fishbein, 1981). In fact, it measures behavioural intentions e.g., desire for staying or moving, recommendation to friends (Potter and Cantarero, 2006). In addition, Francescato el al. (1989) in their attitudinal model of residential satisfaction pointed out that, there are three behavioural processes related to the measurement of residential satisfaction: moving or staying in residential area (residential mobility), participation with other residents in activities related to the place where they live (social interaction), and attempting to personalize their surroundings (residential modification).

#### CONCLUSION

Residential satisfaction is a complex construct for three reasons. Firstly, it involves terminologically two complex terms - housing and satisfaction. Secondly, it involves three different processes - cognitive, affective and behavioural which lead to the third reason. It needs different measurements based on those processes such as objective attributes, subjective attributes, and personal characteristics. In addition, even though, residential satisfaction has three main theories viz., housing needs, housing deficit, physiological construct, most empirical studies on residential satisfaction/ dissatisfaction use one or a combination of theories what stand to indicate that further studies are required until a general theory of residential satisfaction/ dissatisfaction emerges. The empirical studies discussed indicate that a host of variables belonging to housing and its environment including the sociodemographic attributes of residents exert significant influences on the level of residential satisfaction/ dissatisfaction which is however, culture and value specific indicating that further studies on residential satisfaction/ dissatisfaction can be undertaken on case specific context to guide public policies on housing.

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