

# Assessment of sustainability indexes in deteriorated precincts of asadabad by using mouriss disproportionate coefficient

**Shams M.**\*

Associate Prof. I.A.U, malayer Branch, Dep. of Geography, malayer, Iran

**Rashidi GH.**

MA in. Geography and Urban Planning, I.A.U, malayer branch, malayer, Iran

Received: 7/8/2010

Accepted: 14/6/2011

## Extended Abstract

### Introduction

Old neighborhoods that once used to be a major part of cities and were considered as the identity of cities are now facing the problem of natural disaster relief operations partly due to low economic power of the inhabitants of such neighborhoods, partly due to the physical ineffectiveness and the decreasing resistance of the buildings, and partly due to the unsuitability of streets during some failures in streets. This has gained the attention of most urban planners and managers. Therefore, because of the cultural, social and economic values embedded in such old neighborhoods especially in city centre, there remains no solution except rebuilding and rehabilitating such spaces. However, during such rebuildings and rehabilitations, we should not ignore to maintain the historical and cultural sights of such places which are known as our national and cultural values from the past and are known and listed in our cultural and national inheritance.

### Research Methodology

The method used in the present study is a mixed method of field study and descriptive study with and applied and comparative approach. First, the most important reliability estimates (stability indicators) and standards especially for old and challenging civil neighborhoods are defined using library and field research, based on which 17 major indicators of physical, economic, social and environmental indicators are specified. Next, since a questionnaire was needed to be used to collect the intended data, the questionnaire was designed and distributed to collect the intended data from various neighborhoods.

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\*Responsible Author

Fazelman362@yahoo.com

The data were then entered and classified using Microsoft Excel Software. Later, the data were analyzed with GIS, Excel, and *SPSS* to investigate the various reliability estimates (stability indicators) in the ten old neighborhoods of Asadabad City using Moris zonation technique and a comparative study between these neighborhoods.

## Results

The scope under study in the present study is the old neighborhoods of Asadabad City. This neighborhoods is located in the central and western parts of the city, which include the old neighborhoods and some parts of the unofficial and marginal zones of the city. Its area is 162 hectares , it composes about 20% of the city area and it includes 12000 people. This neighborhoods also includes 10 neighborhoods by the name of Posht-jahad, Heidarvand, Khakriz, Sarvir, Seidan, Ghalebala, Kashani, Kuy-e-bazar, Mahmoudbeigi, and Meidan.

## Conclusion

The growing increase of urban population as well as the tendency for urbanization especially in residential-registered land on one hand, and the emergence of various problems like traffic, different kinds of pollution, undesirable access networks in the centers and old tissues of cities on the other hand have all necessitated more attention towards the issue of rehabilitation and reconstruction of the old tissues because of both physical and economical factors which are the determiners of the relativity or completeness of old tissues.

One of the most suitable and the newest methods for assessment of urban deteriorated area and identifying their advantages and disadvantages is the revive these contexts based on urban sustainable developmental theory and indexes of sustainability city. The assessment of sustainability of deteriorated precincts is one of the main challenges in this research. Therefore due to lack of specific criteria for assessing the rate of sustainability such researches are faced with difficulties and it has been tried to define the most important indexes and sustainability criteria resulting from questionnaire data. So, seventeen main indexes has been considered to express physical, economical, social and environmental situation of the deteriorated tenfold of precincts of asadabad city.

Then by using comparative studying method and based on mouriss disproportionate coefficient, proper weigh is given to each mentioned precincts and the rate of their desirability is assessed. The results show egregious difference in different sustainability indexes of deteriorated precincts of asadabad city.

**Key words:** Sustainability index, deteriorated precincts, asadabad, sustainable city, mouriss disproportionate coefficient.

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