

"On Civilization and Urbanism"

Towards an Integral Method for Inducing the Features Of the Prospective Urban Image of Egypt 2030

A Thesis Submitted to the

Faculty of Engineering at Cairo University

In partial fulfillment of the Requirements for the degree of PhD of
Sciences in Architecture.

Prepared by:

Waleed Hussein Ali Hussein.

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Faculty of engineering, Cairo University

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Summary

It is a must to refer to the human civilization as a one entity and as a partial accomplishment, even if there is a difference in shapes and appearances from one period to the other. It is impossible for one individual or a group of persons to isolate themselves from the development movement or to ignore it or they will be liable to be crushed under the feet of the civilization caravan, which shall never be hindered or stopped during its march, as long as man lives on this orbit.

This research doesn't approach the civilization from the point of view of the value or the idealism, but it approaches from the technical and cultural development and the requirements of its being existed and to benefit from it. We aren't in the field of the human civilization assessment or to define certain stands towards it, but we approach to the means and methods of the conformity with the development, within the framework of what our Saturn watches from the globalization directions which shall kick aside any one who is unable to take the development requirements and the advancement, irrespective of his being conformed or not with the values which are pivoting themselves around this civilization. The only elasticity which is laid down before us is represented in the way of dealing with the civilized development, and how to live with it from within the benefiting from the positive elements and to limit from its negative effects. And this dealing shall never be dealt with according to being away of the higher ideals, values and concepts, and the inheritance and the traditions relating to each society alone. It is doubtless that – in such this adaptability – as much as it bears of positive reflections on the human societies, does it bears in its fanfare negative elements which cannot be ignored? Industrialization is accompanied by pollution, while civilization is accompanied by the deterioration of the relations and social binds and even the human ones. Thus the seizing too much with the civilized development doesn't come without certain direct or indirect giving ups, particularly as to concerning what has been considered one day as firmly established things which are not to be touched at some of the human societies. In this context, we haven't to ignore that some of the societies own from the economic fortifications – such as the natural resources – what allows them to enjoy the results of the civilized development without taking its causes or to offer the associating giving ups to it... But it is necessary not to ignore that such of these qualities of the wealth, without the fortifications of the civilization which support it, and its destiny that it shall be eradicated from the existence. That is which means that it is inevitable before any society to take the renders of the civilized development at the end of the matter whether according to your will or your obligation.

The submitted research thesis which tried to investigate the future form for the Egyptian construction according to the methodological and analytical way, in which it tries to reach at the end to a clear form to the scientific syllabus and a conforming one, in a way to investigate the features of the future construction for Egypt in the year 2030.

What is intended here from the conform syllabus: is the mound of a Method which realizes three levels of the conformity:

- **First level:** it is the conformity with the social customs and traditions and the Egyptian abilities.

- **The second level:** Trying to reconcile between the future studying methods (and the dimension and interpreting predicting syllabuses (Methods), which cope with the constructive research as a whole and in Egypt in particular.

- **The third level:** To make conformity between the approaches of the method and outs of it according to what it is agreed with the suitability of this objective syllabus for the circumstances of the Egyptian constructive future according to the directives of the development.

From this, there are four main research Parts we shall be dealt with

According to the following:-

Part one:

This first Part of the research study deals with and discuss an exhibition to the concepts and signs of the civilized development, and at the same time it deals with four research chapters, while it shall start with taking the importance of the knowledgeable development and the technical one in addition to the informational knowledge, and an explanation to the reaction of the various constructive generations on the appearance of the various technologies across the time. This chapter also offers certain definitions for the meaning of the civilized development , and the concepts with are relating to the constructive techniques and the information society , then this chapter concludes by mentioning the most important and positive features and the positive ones **for the features of the future construction under the shade of the information.**

In the second chapter of the first part, talk shall be applied about the main challenging concepts which are facing the construction in the age of the information, and that is within the expose to the development of the concept of the technique of the civilization, in addition to the illustration of the materialistic challenges and non-materialistic ones against the construction in the of the information. It is also a brief exhibition to the concepts of the technological, information and intelligent cities, and the analyzing the relationship between the concepts, then the researcher – in this chapter – shall explain also the elements forming the information city, and the illustration of the most important relations which govern all these components within talking framework.

In the third chapter of the same part, the researcher is dealing with the constructive phenomena for the civilized development, and that is within the method of comparing between the three societies during the human life. The mentioning and analyzing the most important challenges and problems which face that society. The researcher in this chapter analyses the social and economic changes for the information society whose matter is to formulate many of what gives the future images for the form of the construction. Within the fourth chapter and the last one of the first part, the research mentions the **changes which are witnessed by the construction in the age of information**, and that is within the analysis of the effect of the materialistic entity / and construction one, and mentions the changes which took place on the social entity, and the appearance of the supposed entity to be joining to the entities forming the construction. It also speaks about the relation between the electronic nullity and the construction void.

This part concludes about some of the results which refer that the applications of the technology connected to the civilized development has a direct effect on the directives and the constructive results which may be able to mold some effective changes in the constructive results .

Part two:

The second part of the study deals with one side of the concepts and the methods relating to the future studies. It is composed of five researching chapters all of them are talking about the most important methods and ways and the machineries concerning the future studies. While the first chapter is dealing with the study of the **General Framework of the future studies, and the methods of laying the future scenarios.**

This chapter deals with – in details – the general framework sections, and also it illustrates the difference between the directed future studies and the academic future studies. Then the chapter deals with the study of the methods of the foreseeing, which have been divided into methods of dimensional prediction and the illustrative method of the prediction or foreseeing, which imply in them many of the future methods.

The second chapter from the second part deals with the study of the methods of the future studies (methods of the dimensional prediction) and they are eight methods depending in his method on the dimensional prediction and as a fundamental means in reaching the results of the study. The third chapters from the same part deals with the study of the future studying syllabuses (the methods of the illustrative foreseeing) where the study includes in this chapter the analysis of seven methodologies for the future study , all of them depend upon – in the method of the illustrative foreseeing and the illustrative one for the reaching the research results.

In the fourth chapter of the same part, it deals according to the explanation and analysis the methods of the future studies which are to be dealt by means of the (methods of the dimension foreseeing and the illustrative one together). It includes five main methodologies which are to be analyzed according to the illustration of points of force and weakness in each of them. In the fifth and last chapter of the second part, the researcher is making a comparison between all the previous methodologies for illustrating the points of the power and weaknesses, and the totaling of the methods of the work and directives in the research to which these methodologies are to be directed.

The second part concludes by reaching to certain syllabuses among which there are : The results refer to that the preliminary demonstrations for the methodologies of the illustrative foreseeing are the nearest towards he reality of the constructive research, despite the methodologies which bear the two characteristics of the interpretation and the dimension at one time , gives powerful demonstrations that when it is necessary to take certain decision , and also it gives more accurate results and more suitable ones for the present condition relating to the area or a sample of the research , the matter which pushes many others to depend on one only of these methodologies at the need to results which are more accurate , and theses methodologies may need a longer time to reach the final results , and also the easiness of the use of the mutual methodologies in the two characteristics the dimension and the illustrative ones together the matter which distinguish it from the separated in the characteristic.

The Third Chapter:

In the third chapter, the talk about the most important international experiments shall be to complete the talk in the field of the future studies, upon which is to be depended upon by the governments of the states in the strategic planning for the future of the state. This Part shall be divided into six research chapters. The first chapter shall deal with the introduction about the most important one of these experiments and their kinds which shall be dealt with in the following chapters from the same part. This chapter shall **illustrate the fundamental points which must be available in the3 future studies on the total and sector levels, then mentioning the way of laying an initial imagination about the method of preparing the future study.**

In the second chapter of the same Part, it shall be dealt with the analysis for the experiment of the world during the year 2020: concerning a new world decade – then the exhibition of scenarios of the third millennium: Excerpts from the future of the following one thousand year, and an exhibition to six scenarios which are possible for the future of the world in the following decades.

