The Effectiveness of Sustainable development in Design

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The concept of sustainability is no longer a new or innovative term, or limited to design, architecture, or arts, but rather a concept whose body has been the traditional thought of man in various parts of the world since ancient times through the spontaneous experimental compatibility interconnected with the environment and the efficient exploitation of natural environment resources according to a rapid development of experience over the years It is a word of Latin origins that means (to hold up) a chain of transmission from the bottom, so society is supported from below by its inhabitants at the present time and in the future according to the Greek concept, and the site carries certain physical, cultural and spiritual attributes with which sustainability deals with, and thus means the continuity of interaction between society and the system Environmental. Also, sustainability is the basic means invented by man to exploit natural energy sources such as the sun, wind, water, and others. ((And no heritage of peoples in all parts of the world is devoid of practicing methods and tests of sustainability, or at least thinking about the sustainability of options, tools, goods, ideas and values)) And the integration of sustainable practices comes from comprehensive education that includes science, mathematics, various studies, fine arts and design, and one of the most important difficulties facing designers is the application of sustainable practices in the design profession. Therefore, the designer needs knowledge, training and information related to the history of sustainable design from In order to find sustainable design solutions, and sustainable design science greatly improves the environmental impact by using methods, products and processes that respect the life cycle of the earth, as well as reflect the interaction between people and the earth and the preservation of natural resources for current and future generations.

It also deals with the natural self-systems (ecological) and technological and economic systems with the specificity of the place in creating an urban fabric or building adapted to the environment of the ocean.

Sustainable Development

Sustainable development fits the requirements of the present without diminishing the ability of future generations to conform to meeting their requirements. Development according to this definition includes two basic contents, that development is not limited to a number of sciences and regions, but rather to denote the whole world now and in the future, and there is no specific concept of sustainable development. The purpose is to continue that development. This development includes two basic ideas that are realized through them:

The first idea: (Need) to create the situation in order to maintain a satisfactory standard of life for all people.

The second idea: (Limits) the capacity of the environment to meet the needs of the present and the future according to the level of technology and social systems, and these needs range from basic needs such as food, drink and clothing to sub-needs according to Maslow's model needs and depends on (age - gender - social status - profession.

And the emergence of the term sustainable development was in 1973 by a group of environmental scientists (Raymond Dasaman), (Jonhson Milton) (Peter Freeman), meaning that the concept of sustainability at its inception was purely environmental reflection.

Everyone in society and in all parts of the world should have the opportunity to try to raise their standard of living within the environment in which they live, above this fixed (minimum) limit and these limits include natural limits such as limited resources - low productivity resulting from excessive investment of materials and low quality Life and the dwindling of biodiversity, so for the sake of our common future it would be better to satisfy the necessities and reduce borders.

One of the most important characteristics of sustainable development is the desire to achieve social justice between generations by meeting the immediate needs and preserving the rights of future generations in relation to resources and wealth, while relying on a set of basic pillars of the development process to ensure the sustainability of development, and to achieve a continuous balance between the processes of change and renewal contained in the development strategies

Environmental, economic, and between the process of preserving the sustainability of the heritage elements as a permanent resource, as well as providing optimal economic investment opportunities in sustainable projects and promoting economic activities that increase the level of well-being of the population, and making use of the appropriate political decision to support and sustain development processes and intervene to remove obstacles،

Sustainable development within design is an approach that takes into account the limited natural and non-natural resources to achieve intergenerational equity and calls for the use of renewable energy sources in design, environmentally friendly and compatible with them, such as wind and solar energy, which are examples of the application of sustainable development strategies.

Axial dimensions of sustainability

For sustainable development (as in Table No. (1)) there are three main axes that are considered the main pillars of it, so that one of them is affected by the main goals of development or sustainability, which are:

1- Environment .
2- Economy.
3- .Society