

Entrepreneurship in the use of sacred geometry in building construction

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ABSTRACT:

For years, the construction industry has borne a large burden of economic growth and prosperity and has become the driving force behind the economic indicators of countries. Any innovation in this industry in terms of architecture, structure, and also in terms of energy in buildings, provided that resistance and cost standards are observed, will be widely welcomed and will achieve success. The following question became the basis for a great innovation in this field.

Has the flower of life been among the secrets whose use has remained hidden in the construction of buildings for thousands of years?

Definitely yes. The idea that is described in this article in order to solve this mystery and use sacred geometry in building construction will create the basis for major events and investments in this aspect of the construction industry in the not too distant future.

- An idea that greatly facilitates building on the Moon and Mars.

- An idea that can be used to build new pyramids and solve their puzzles to help humanity expand its consciousness.

- An idea that can be used to build healing and energetic places.

- An idea that can be used to build structures that change the climate of that geographical location.

- An idea that makes it possible to send messages to other dimensions of consciousness using language and coding based on sacred geometry in structures that have the ability to travel in dimensions.

The use of this geometry in architectural and structural design, the basics and examples of

which are discussed in this article, proves that we have been unaware of a very important potential in the field of building construction. The results obtained from this article pave the way for a new beginning and a new basis in civil engineering and architecture. Structures that are built using cable structural elements and are completely under tensile axial force without dependence on beams and columns.

Keywords: Sacred geometry, conceptual architecture, cable structures, shell structures, energetic buildings, healing rooms, future architecture,

I. INTRODUCTION:

Certain proportions can be observed in various forms found in nature. These geometric proportions, subject to abstract and supernatural principles, are considered to have a symbolic language with spiritual characteristics, with the belief that the subject is sacred. Hence, it is called sacred geometry. In the universe, geometry was inseparable from the other four Pythagorean sciences, namely arithmetic, music, and astronomy. The creators of sacred places were architects who had a close connection with geometry.

The science of geometry is a powerful tool in the hands of the engineer, with which he can measure celestial proportions and create balance, harmony, beauty, and order on earth. Hence, geometry is both a science and an art for the architect.

The dependent and harmonious relationship of the components of the visible world is a reflection of a similar harmonious relationship in the invisible world and also between the visible

and invisible worlds. Harmony and proportion are closely related to the order of the universe, and that is why creation is beautiful..

Architecture based on sacred geometry represents the universe in its earthly dimensions. In an architectural building, all dimensions, both in its entirety (height, length, width) and in its components (including geometric surface patterns), are interconnected and are never separate from geometry.

Geometry plays a fundamental role in the design of energetic buildings and healing spaces. From the perspective of external performance, the use of geometry as an art to create shapes, patterns, and proportions recalls the great architect of the world and calls upon typical forms. From the perspective of internal performance, geometry as a science for selecting structural dimensions such as the height, length, and width of a building and its structural components governs the structural behavior of the building, a behavior that follows geometry, and correct geometry causes the building to have correct functionality.

In the realm of buildings designed according to sacred geometry, structural qualities such as strength, stiffness, and stability should not be considered as the main and determining criteria of design. It is the function and structural elements that follow the overall form of the building, as the form itself has no meaning without proper function.

It is unlikely that a historic building designed according to the principles of sacred geometry will be found that its construction rules and structural design are incorrect according to modern structural engineering regulations. If a part of a building appears defective, this should be attributed to a misunderstanding of the structural performance of the building or the inadequacy of modern rules for assessing the behavior of the building.

A perfect geometry ensures stability, this is a fundamental principle in the art of building using sacred geometry.

The author's studies on sacred geometry and its effects show that this geometry, with its place, can contribute significantly to the growth of consciousness in human societies. Our existence knows this geometry and there is a place in our brains for understanding geometry. This geometry is familiar to human existence. Therefore, I decided to help the growth and expansion of human consciousness by applying this geometry to life in the form of engineering and architectural shapes and structures, which have been the field of my work.

Farzpourmachiani M. and Farzpourmachiani A. (2024) identify 'Attrition Entrepreneurship' income-generating activities that, despite producing revenue, ultimately fail to contribute meaningfully to societal wealth and can even detract from economic progress. They rightly point to systemic factors like wartime industries, burdensome inheritance taxes, and persistent discrimination as potential catalysts for this phenomenon. This observation resonates with a broader consideration of how structures both physical and metaphorical are built and maintained. Just as a building's design, if poorly conceived or executed, can lead to instability and decay, so too can economic systems reliant on attrition entrepreneurship.

Interestingly, the principles of sacred geometry found throughout history in architecture and art offer a compelling lens through which to examine this issue. Sacred geometry seeks to create harmonious proportions and relationships within structures, aiming for stability, resonance, and ultimately, a connection to something greater than the individual component. A building constructed with these principles isn't simply about erecting walls; it's about establishing a framework that supports growth, longevity, and positive impact.

Conversely, attrition entrepreneurship, as described, mirrors a fragmented approach a series of isolated efforts focused on immediate profit without considering the overall structural integrity or long-term potential. Like a building built with mismatched materials and haphazard construction, it lacks the inherent stability to truly thrive. While IP (Intellectual Property) is often overlooked in this context, its absence likely exacerbates the problem. True innovation requires protection – a framework of rights that encourages investment in novel ideas and prevents simple replication. Attrition entrepreneurship frequently prioritizes short-term gains through imitation, bypassing the creation of genuinely new intellectual assets.

Furthermore, a weak or poorly enforced IP framework can inadvertently fuel attrition entrepreneurship, creating an environment where copying and mimicking are more profitable than investing in original research and development. This ultimately undermines genuine innovation and hinders sustainable long-term growth – much like a building lacking a solid foundation will eventually crumble. Just as sacred geometry strives for interconnectedness and enduring form, we need economic systems that foster true innovation,

protected by robust IP rights, to build a future of lasting societal wealth.

History of the use of sacred geometry in building construction

The use of sacred geometry in the design and construction of buildings has long been considered, and it can be said that traces of it can be found in all historical and magnificent buildings. Construction methods using this geometry and using its principles in the design and construction of traditional buildings have many examples that have received less attention in new construction, which is mostly due to changes in the style of construction. In today's buildings, greater use of space plays an important role, and designers emphasize this category more to make projects more economical and more efficient.

It seems that instead of trying to find a way to adapt the demands and new standards of construction based on this geometry, this category has been completely abandoned with all its important features. The result of this has led to the construction of buildings that are completely lifeless, which results in the need to spend a lot of money on interior design and energetic decorations to give them life.

Why and how sacred geometry emerged and emerged in the design and construction of buildings

As mentioned in the introduction, this geometry has mathematics, dimensions, and proportions that in essence have an evolution and basis for it. Living in an aura of shapes made by proportions and proportions in accordance with this geometry that is understandable to the human being causes mental and even physical balance, which will be explained later. In this geometry, masculinity in the form of lines and femininity in the form of arcs are in perfect balance. This balance causes the circle and square or line and curve to be in balance in the geometric position of the brain. If designed in a principled and balanced way, this geometry also includes healing of the aura and then healing of the body, and structures and buildings built with it can be used as healing places.

But the problem was how to relate this geometry to modern architectural and construction engineering and, while considering the advantages of modern construction such as optimal use of space and implementation costs, implement designs with these capabilities that include both aspects of the advantages of the old and new styles. For example, as we know, one of the major differences between old and new buildings is in the connection of the facade and the building structure. Mostly in

traditional buildings, these two are not separate categories and are implemented continuously, and usually the facade is a delicate work that has been molded from the main structure. But in the new construction industry, the building structure is built first, which we call the stiffening stage. After that, the finishing and facade stage of the building is carried out. And of course, as we know, the life of the building structure is usually longer than the life of the building facade, and during the period of use of these buildings, we also witness changes and re-facades. This is not necessarily presented as a defect in the building. Modern construction technology, using stronger materials than in the past, while reducing the volume of buildings, has allowed buildings to be built at a much higher height. This feature should also be considered a much more optimal use of space than traditional structures.

To reveal and objectively express the aforementioned geometry, a solution must be provided that can be used to benefit from the benefits of sacred geometry in addition to the benefits used in modern construction. Solving the above challenges will include the following:

1- The architecture and structure of the building follows the principles of sacred geometry and the flower of life, which makes it possible to benefit from the effects of this geometry in expanding consciousness through shapes.

2- The structure has a continuous structure of the structure and facade and maintains its initial message throughout its life.

To create such innovations, we must go back and study the science resulting from this result from the beginning and adapt it to our own criteria. This is a general recipe for any kind of innovation and invention and doing things in a new way. In this path, geometry was studied from its starting point, which is exactly the point. After that, the concept of line, plane and volume was discussed, and structural elements were defined for each of these components and foundations of geometry.

The solution to our problem lay in the use of line. That is, we had to define a structural element that would create the ability of a line for us. In the designs that were drawn to establish and transform designs based on the Flower of Life, it was concluded that this can be achieved by using line for plane and volume drawings. And in this case, a building can be designed that originates from sacred geometry from the beginning and at its foundation.

Finally, the use of cables and cable structures was considered for the structural member. It is adapted from traditional architecture and designs based on the Flower of Life that buildings must have symmetry in different directions. The use of symmetry in traditional structures eliminates many of the force components. This symmetry also brings with it a balance in healing energies. The peak of this art is noticeable in the domes built in old buildings.

The use of cables as the main member in these structures created a new challenge. Despite the fact that cables have a high characteristic resistance, they only work under axial tensile force. Of course, this feature has another advantage, which is easy structural calculations for the structural designer. Tensile stresses are the only component that needs to be considered, and the structural elements all follow this rule.

The main part of this idea comes from the combination of sacred geometry, cable structure, and energetic architecture. The main challenge of the work was solved by leading to the use of a type of three-dimensional weaving. Initially, the structure is prepared for the weaving bed by holders that are mainly made of pipes. Although these supports are used at the beginning to maintain stability, no resistance is considered at the end of the work, and in the end, the conventional structural support elements such as beams and columns are eliminated in this idea. The initial designs, which were drawn in three dimensions, were implemented in the form of models and the correctness of the idea was proven. In the next chapter, this idea is shown in a complete explanation in an illustrated form, and the designs drawn using it are exposed. The use of cables under tensile force and completely linear structural members is mandatory in this idea.

II. CONCLUSION

The construction industry has always had a special and important place in economic growth, employment and entrepreneurship. Therefore, ideas that are in line with this industry and somehow improve its various aspects are taken into account and naturally lead to entrepreneurship. Using sacred geometry in the design of structures is not a new way, what has been done is adapting and integrating this geometry with modern construction. Of course, modern man always adds something to the past and innovates and creates new and more optimal things.

What has been done, as mentioned, is considered innovation and a new idea in the field of design and construction of buildings from several different aspects. Consequently, there is entrepreneurial potential in all these aspects, some of which are mentioned below.

1- In the field of architectural design: In this field, it is possible to compile texts, books and training workshops for architectural design professors and students, while teaching the basics, and the right strategies for entering this field.

2- In the field of structural design: The idea that was finally given for the implementation of these structures includes a temporary structure for initial maintenance and a main structure that has structural elements (wire ropes). The main structure of this architecture consists of elements that, despite their large number, are all under the influence of axial tensile force. Similar to what was said about architectural design, in structural design, we are faced with a combination of shell and cable structures and have their own styles in design.

3- In the field of materials used: The materials used in these structures, in addition to common construction materials, are mainly seamless pipes in temporary structures and wire ropes and cables, as well as coatings in the main structure. In this field, appropriate entrepreneurship is also being done.

In addition to the main points mentioned above, focusing on direct entrepreneurship, this architecture, with the potentials mentioned, will pave the way for new entrepreneurship and innovations, especially in tourism and energy projects and other cases.

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