



2022 TOP 100 GOOD PRACTICE STORY

Title of the Story: ZIGURATS: A SUSTAINABLE CITY MODEL AND RESILIENT TO CLIMATE CHANGE THROUGH TRADITIONAL AND MODERN ARCHITECTURE, URBANISM AND TECHNOLOGY KNOWLEDGE.

Destination Name: CORGUINHO/ MATO GROSSO DO SUL

Country: BRAZIL

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Submission category: *(Please check one of the boxes that indicates the focus of your story)*

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- Governance, Reset & Recovery
- Nature & Scenery
- Environment & Climate
- Culture & Tradition
- Thriving Communities
- Business & Marketing

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DESCRIBE YOUR GOOD PRACTICE STORY

Address each aspect of your good practice story in the different sections being specific including relevant quantitative and qualitative information.

Issues faced

What was the problem/issue solved with the good practice?

In the early 1990s, Urandir Fernandes de Oliveira (president of Dakila Pesquisas) and a group of pioneers began to realize the need to put the information they were discovering into practice, and felt the need to build a place that represented the purpose of the work they were doing and would still do. It was then in Corguinho, Mato Grosso do Sul, that they began to formulate the guidelines and norms for the project of what is now understood as Cidade Zigurats. A short time later, the founder was already looking for partnerships, giving presentations to raise funds for the construction of the city. In 1997, construction began. Ziggurats is considered the city of the future. The choice of site construction is no accident. That's because the terrain lies on the parallel that is 19 degrees south of the Earth's equatorial plane. According to its creators, the location is "one of the most powerful vortexes of energy", in which many appearances of unnatural phenomena occur. The expectation of creating a city was to show people what they are, what they thought about building, what they research, is to take their knowledge and their history. They dreamed of providing tourists with a different view of the world and experience tourism, being something unique and innovative. Show that the City is a place of study, work and also housing, and in a very sustainable way to receive people and leave them. Living in harmony with nature, the community considers itself sustainable, given that they use solar energy and the food comes from the residents' own plantations or purchased from quilombola neighbors.

Methods, steps and tools applied

How was the good practice implemented?

In 2001, the construction of its own independent city began, which aims to be a legacy of knowledge for future generations.

The city Zigurats presents, in each building or tourist spot, a new concept in architecture and urbanism. As beautiful as its buildings is its history. It doesn't just have beautiful landscapes, delicious food and comfortable accommodation: it is an experience that enriches beyond the five senses.

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Also, with places for classes, lectures, seminars, dynamics, training and meetings. Finally, with all the necessary structure to receive and allocate hundreds of people, in addition to planned trails and circuits, with breathtaking views!





There are several stone plateaus, curious round craters with water, unusual circular marks on the rocks and archaeological sites with stones of unconventional formation: spherical, discoid and octahedral. Other special attractions are the rare clay deposits, underground galleries, caves, rivers and waterfalls. Those who visit the place will also come across a Center for Scientific and Technological Innovation, CICTEC, which has the first astronomical observatory in Mato Grosso do Sul.

There are many other elements to discover, turning this place into pure inspiration for the search for knowledge.

A fertile field for the development of projects and partnerships with institutions and people, which distributes information and technologies throughout the world.

It has igloo-like houses, with rounded metal roofs, a technology that supports winds of up to 500 kilometers per hour. On top of the roof, in most houses there is a silver asphalt blanket that serves to waterproof the house and also to reflect some of the radiation of sunlight. The most interesting is at night, when the moonlight is reflected and from afar it looks like the city is full of lit streetlamps. The advantages, according to those responsible, would be environments with great acoustics, lighting and greater perception of the surrounding environment, culminating in highly positive frequencies, stabilization of the magnetic field, personal development and energy resources. The site is also home to a large stepped pyramid.

Key success factors

What helped you tackle the issues?

A city was created totally different from the already established standards in every way. It is unique from the shape of the houses, based on research in architecture, engineering, mathematics and bio-construction, to the way of eating or generating energy, with research in the areas of electromagnetic grid, free energy, agriculture and nutrition.

It is also a social “experiment”, where it is verified how innovations in ST&I could positively impact the development of a society.

For the construction of round houses with vaulted roofs, specialized labor was needed and it is not easy to find professionals who work with this type of construction. It was then that they got a master builder and with the support of the few resident residents and in a collective effort they built the first houses. The first models built still in Havalon, were experiments for the construction of the current houses.

According to research carried out by the Ziggurat scientists themselves, the constructions of round houses with vaulted roofs are safe, comfortable and offer very accurate results in scientific terms, as they have air resistance and an excellent distribution of forces, capable of withstanding strong winds and earthquakes, adapting well to more drastic climate scenarios.





Through these studies, they arrived at a differentiated architecture, bringing the rescue of archaeological and anthropological research, with more modern concepts, which follow the geometric patterns of nature and are made to inhabit for the next 3,600 years or more.

Zigurats was very well planned that values the well-being of the residents, the quality of life, prosperity, growth and evolution.

Lessons learned

While implementing the Good Practice what challenges were faced, and how were they overcome?

The first challenge was access, as there are just over 86 km on the MS 080 and approximately 40 km of dirt road, in terrible traffic conditions. The solution was a partnership between the City Hall and Dakila, research that to solve common problems, as the same road gives access to the Black Community of Furnas de Boa Sorte, where 80 quilombola families live, joint actions are carried out that enable the realization of recovery services.

Building a city takes a lot of building materials, and in the case of Ziggurats, where round houses are built with ceramic bricks, this material is essential. There was an old abandoned pottery in Corguinho's headquarters, sunk in debt, and the group acquired this company and put it to work again. Thus, it supplied the demand for bricks for the construction of houses and monuments in Ziggurats and supplies the region with a brick of excellent quality. This action still had a very strong social bias, as with the return of ceramic activities, it generated more than 25 direct jobs, benefiting many families. The company Cerâmica BKC, located in the Centro neighborhood, in Corguinho-MS was founded in 2015.

Another difficulty was the hiring of specialized labor to build the round houses, since only the residents of the black community of Boa Sorte would not meet the need, the solution was to offer jobs to residents in the municipalities of Rochedo, Corguinho, Terenos, Rio Negro, Campo Grande and others, promoting economic development throughout the region.

Another problem that needed a solution would be the facilitation of the purchase of construction materials, since each associate is responsible for the construction of his house. The distance and the difficulty of access for the delivery of these materials by secular companies made it difficult for the construction to progress. It was then that the members themselves organized a building materials warehouse that sells these materials in the city itself.

To coordinate, organize tourist visits and sell packages, Ziguratur was created, a tourism agency for Cidade Zigurats and the first one created in the municipality of Corguinho. The objective when creating the agency was to facilitate the tourist development of the city and initiate the regulation of the activity in the place, to materialize more tangible partnerships, with public and private institutions that drive the development of the tourist sector and the strengthening of joint actions with the various actors of the trade.





They also created ZGA Enterprises to contribute to the development of the Zigurats City in all its pillars, for that they structured seven areas of work, namely tourism and accommodation, food, construction, education, services, finance and exports.

Results, achievements and recognitions

What were the qualitative and quantitative results of the good practice?

Today the group has:

- Partnerships with 27 Brazilian Federative Units
- 728 thousand people involved
- Already had visitors from 15 different countries
- A history of nearly three decades
- There are more than 80 families living in the city, who have sought to improve their mental, intellectual and emotional quality of life.

More than 9 million people follow the activities and publications of research produced by Dakila.

The association is made up of hundreds of researchers in different areas of knowledge such as geology, biology, geography, physics, archaeology, chemistry, astronomy, genetics, among others.

Own Economic System

With all the exchange rate war and the questions about the world economic order, a financial system of its own was created, independent of the arrangements of the great states in the center of world power.

Thus, the entire business ecosystem was created based on the Worldwide Golden Bonus (BDM), which increasingly gains international trust and continues to be the fastest growing means of payment in the world; in Zigurats everything can be purchased with the BDM!

Tourism and Sustainability

Nature is an incredible wonder that inspires us all. It sustains the economy, society and our very existence.

The forests, rivers, mountains and soils of the Zigurats provide food, air to breathe, water to irrigate crops and energy to reconnect to something greater.

Tourism in this city is based on what nature offers and we encourage the insertion of people in the promotion of conservation and appreciation of our city.

Residents of Zigurats are serious about sustainability. In addition to avoiding the consumption of industrialized products as much as possible, they say they make an effort to grow their own food or buy it from the three quilombola communities in the region, which produce a variety of foods without pesticides or other chemical products.

Solar roofs help to save energy, organic waste is separated for composting and the rest is sorted for recycling





In Zigurats, its residents produce their own food, use a lot of coffee grounds, eggshells, stone dust and clay, which are rich in minerals and help in the growth of the plantation. The more enriched the food that is produced and eaten, the less supplementation and medicines we will need to take and thus the more health and vitality we will have.

There, when they produce in excess, there is also barter, that is, the exchange of products between residents and friends.

The municipality of Corguinho is part of the tourist route "Caminho dos Ipês" that aims to connect the actors of the South Mato Grosso tourist chain through training in nature tourism and sharing knowledge that can develop the potential of each destination, expanding and improving products and services and this strengthens tourism actions in Zigurats.

In Zigurats, environmental preservation is one of the biggest concerns and the place is a reference model when it comes to sustainability.

Among the practices adopted by the destination are control of the number of people per tour, sustainable hotels and inns, conscious and responsible use of natural resources in attractions and development of local businesses. In addition to the environmental education proposed by some attractions, such as trails, waterfalls, mountains and are just some of the activities that tourists can enjoy there while getting to know its nature in a sustainable way!

Additional references

Provide links to further information. Pictures and videos should be available for download either from YouTube, Vimeo or other Cloud-based (Google/ One Drive) download URL (not WeTransfer).

<https://cidadezigurats.com.br/>

<https://g1.globo.com/ms/mato-grosso-do-sul/especial-publicitario/dakila-pesquisas/dakila-pesquisas-o-comeco-do-futuro/noticia/2021/09/06/casas-redondas-de-zigurats-chamam-atencao-de-turistas-que-visitam-a-cidade.ghtml>

<https://www.youtube.com/watch?v=MmKHR3Zcc7A&t=7s>

<https://www.youtube.com/watch?v=Wf1cLbkNhU0>

<https://www.youtube.com/watch?v=mVAx1fEJfo>

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<https://g1.globo.com/ms/mato-grosso-do-sul/especial-publicitario/dakila-pesquisas/dakila-pesquisas-o-comeco-do-futuro/noticia/2021/09/06/populacao-de-zigurats-produz-proprio-alimento-e-fortalece-a-qualidade-de-vida.ghtml>

<https://we.tl/t-y1dZr8iDho>



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