

## **The Millennium Project**

### **BACKGROUND AND APPROACH**

Valladolid bought the dome of the Expo Zaragoza, with a decision to revive, recycle unprecedented architecture, to do better in its urban fabric. Valladolid with the Millennium Project makes "urban acupuncture" promoted by Jaime Lerner, Urban Affairs Advisor director in the UN. That means injecting synthetically added value in a deteriorating urban fabric. The project integrates the square with the banks of the river. The water is closely linked to it appearing alive and as a productive element. The performance contains elements such as fountains, springs, geysers and water curtains. Environmental concerns and sustainability are the foundation of our approach of projecting, and are the premise for the implementation of any design criteria.

### **REGENERATION OF BRIDGE ISABEL THE CATHOLIC**

We visited the place, a city landscape of the 80's, cars, pollution, lack of respect for the environment, a city with its back to the river, an old concrete engineering infrastructure, no energy plan, mobility, not public and meeting space. . . We lightened the bridge deck to expand the pedestrian area, allowing to integrate a bike lane. Pedestrians and vehicles traveling at different levels. The bridge exterior is covered with photovoltaic panels. 10 generators are installed along the bridge. Their energy can illuminate the intervention zone, making Valladolid in a pioneer town.

### **THE MILLENNIUM PLAZA, URBAN LANDSCAPE**

The Millennium Project is a square and a pavilion, and an urban space, and riparian forest, and mobility bike, and public space pacification, and noise reduction, and improvement of pollution, and lower power consumption and reduced footprint, and light metal, and recycled materials and certified wood, low lighting and LEDs, and micro wind production, and a new ETFE membrane, and more natural and less artificial light, and space to create culture, action, sports, events, and more contact with the river, and trees, and oxygenate the river, and biodiversity, and better environment for residents, and new center. . .

So it's not a square and a pavilion, right?

## ECOLOGY AND SUSTAINABILITY

We committed from the start in making a sustainable plan that uses runoff rainwater in non-potable uses. We use concrete made with gravel excavation. We use technological wood, we avoid 50% of installed electrical power and generate some of the energy we consume.

Incorporate the project management and habitat restoration to improve its quality. Respect to vegetation has been extreme, using native species chosen for their low water demand. Irrigation was performed with natural water from the river, which functions as a large cistern. The vegetation invades the urban space increasing biodiversity. The oasis of peacefulness that is generated will encourage the public experience of the square.

Produce environmental quality and function as a sink for CO<sup>2</sup>, We made the management of biomass from mowing and pruning for later use as fertilizer.

We designed a selective demolition plan for the recovery of the construction elements at the end of life that includes innovative strategies, such as the cutting of the walls and concrete slabs for the production of reusable blocks.

The project performance is sensitive to accessibility issues. Each and every one of the areas of intervention are accessible for disable, and there are Braille signs on the bridge and underground parking.

Innovation leadership

Valladolid today marks the roadmap of the micro wind energy in Spain, with 10 mills Urban Green Energy, world leaders in the sector.

Behind him there are others being planned city San Sebastian, Zaragoza, Barcelona, . . .