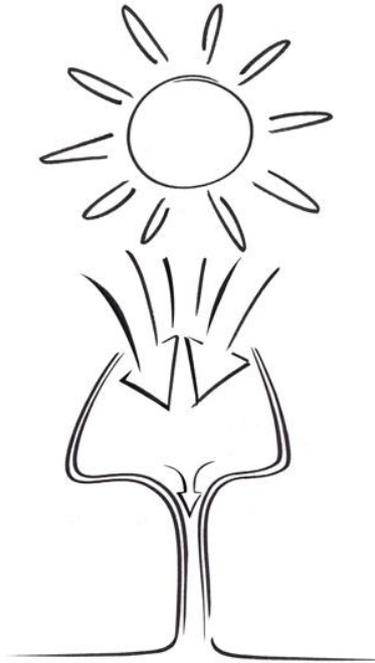


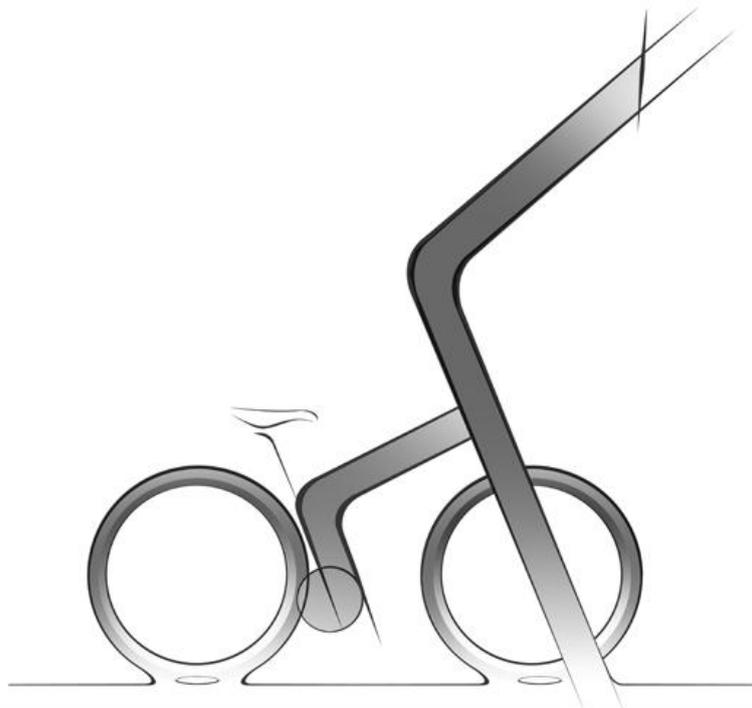
210778

## Boomerang Transportation System

The concept was born to create a solution that integrates, in an elegantly way, an electrically assisted bicycle with a photovoltaic shelter, limiting the minimum interaction with the user.



The photovoltaic shelter and bicycle side view have the same iconographic image (boomerang) that conveys a sense of dynamism and hardy.

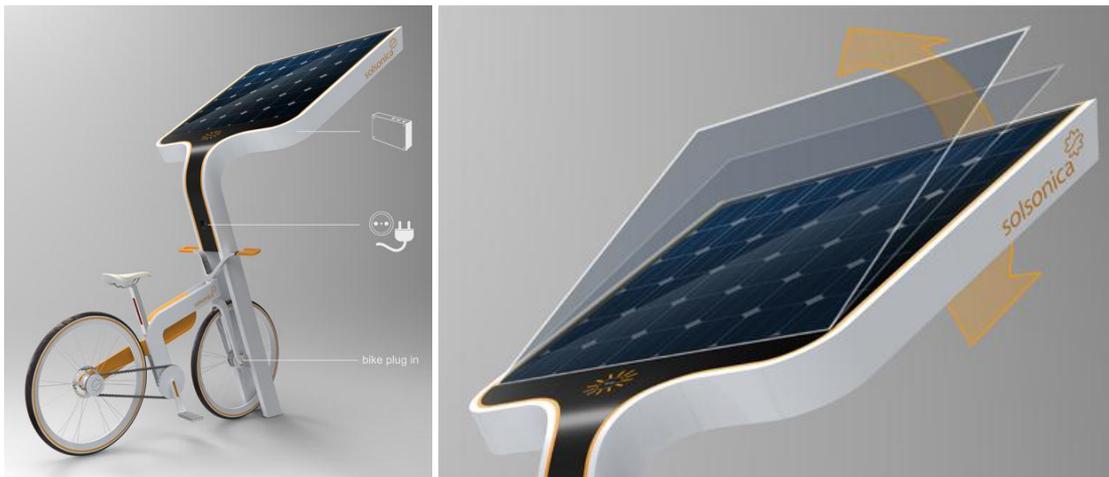


## Photovoltaic shelter

Photovoltaic shelter is the connection between the sun and the bicycle, the central element, with a strong symbolic character, inspired by a funnel that collects, processes and canalize the solar energy to the bicycle.

A "totem" with a strong symbolic character, transmitting conveyed intelligence values of Solsonica, applied to technological solutions.

The photovoltaic shelter has two charging points, the first is for the bicycle and the second is a conventional electrical outlet to plug any wire rechargeable object.



The photovoltaic panel can be adjusted depending on the position of the sun

The box for the electrical connections is positioned at the lower end of the solar panel just below the interface.



## Bicycle

The bike has a clear aesthetic relationship with the recharging station, reinforcing the concept of global solution.



A frame with a "boomerang" shape holds the removable battery pack, placed between the two wheels, gives balance to the bike, with an optimal delivering of weights.



The handlebar, like the whole design, has a smooth image, simple and dynamic, where the different technical elements (fists, crowbars, battery level indicator, etc.) are integrated in harmony.

The frame of the bike is carbon fiber, a material that combines strength and lightness.



LED lights integrated in the wheels create an iconic image of the bike during usage and increase the visibility of the bike at night



## Use mode

The usage is simple, direct and without manipulation of the system by the user. The bicycle support system also integrates the plug to recharge the battery.

Placing the front wheel of the bicycle at the base of the photovoltaic shelter, automatically starts the process of recharging the battery. The plug in is placed in the front fork.



## Interface

The interface is characterized by its simplicity and ease reading. In the photovoltaic shelter the level battery charging is indicated by a pictogram inspired by the energy source (the sun).



## Dimensions

**Photovoltaic shelter:** 2140 height x 1015 width x 1050 depth

**Bicycle:** 1200 height x 1800 width x 500 depth. Wheels: 26"