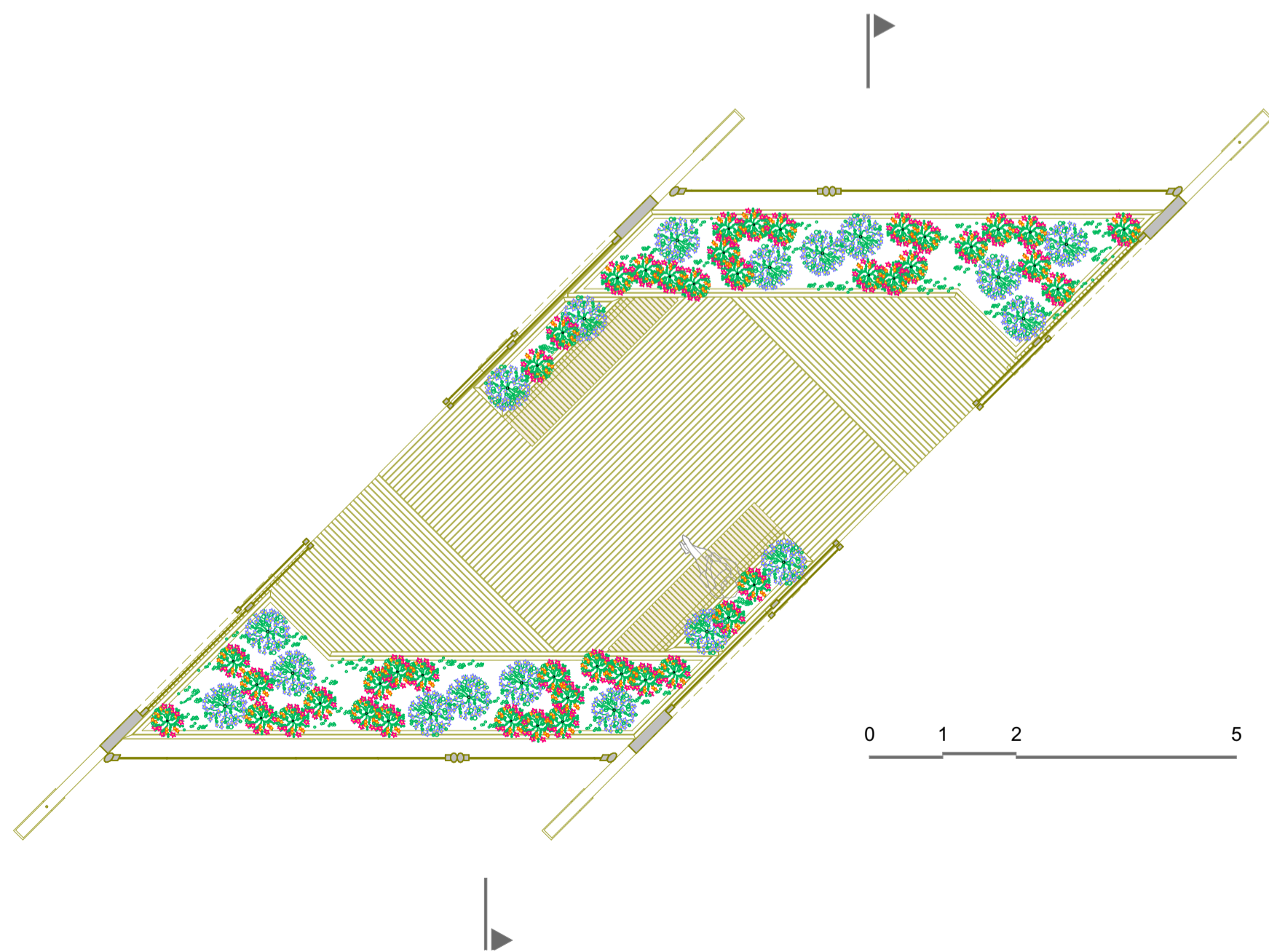
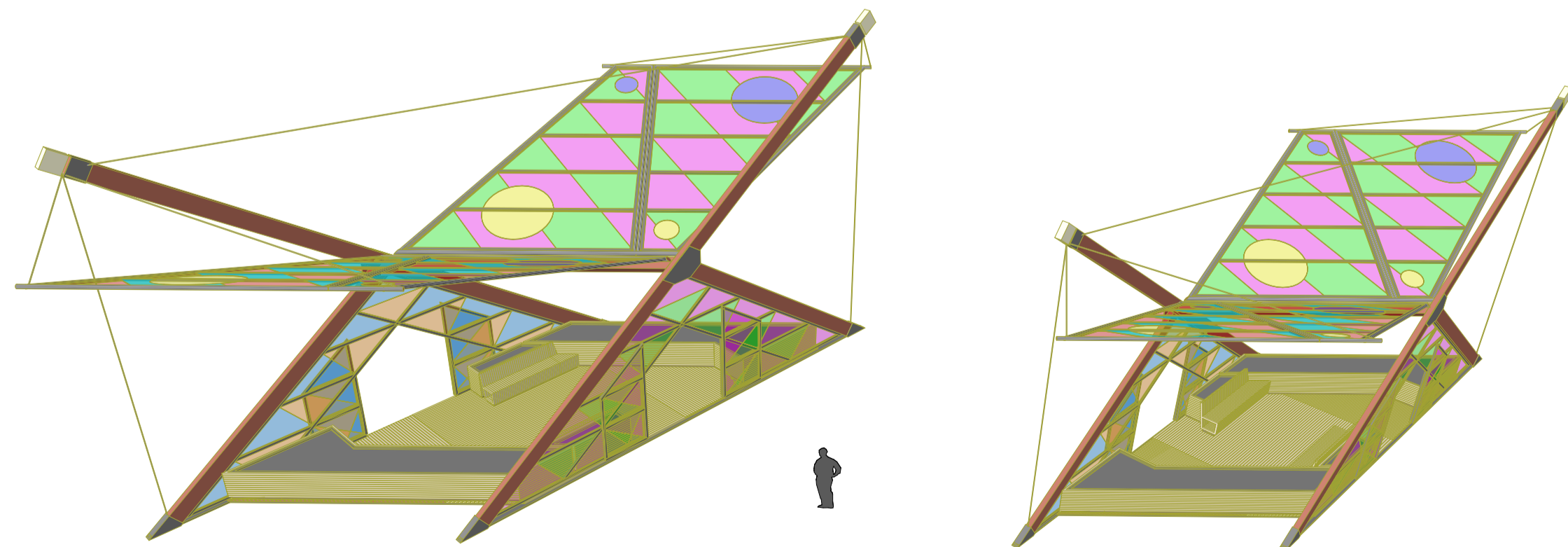


Plan projection



Modularity and scalability

The Installation can be easily scalable, depending on the availability of space and the needs of those who wish to own it. The picture shows, as an example, a model reduced which permit to adapt it to a domestic garden.



Sustainability factors

Harnessing the sun as the main source of renewable energy on the planet  
 In two main ways, the use of renewable energy sources is foreseen through the proposed Installation:  
 - From the use of photovoltaic panels shaped through the technology known as Dye - Sensitized Solar Cells (DSSC)  
 - Indirectly, by means of the microclimate generated inside the Facility due to the effect of lowering the 'wings' of the butterfly.

Dye - Sensitized Solar Cells (DSSC)  
 According to the publication A FIELD GUIDE TO RENEWABLE ENERGY TECHNOLOGIES , the technology for the production of DSSC is simple and the materials are very low cost, which makes it competitive, despite its lower energy yield than other photovoltaic cell technologies.  
 According to the Guide, DSSC also has the advantage of being semi-transparent, flexible and very durable.

In particular, it is foreseen to apply for the Installation a nanophotonic coating called Selectively Modulated Aesthetic Reflector Technology (SMART), outlined in the document: Colored solar cells with spectrally selective photonic crystal reflectors for application in building integrated photovoltaics, by [Anishkumar Soman](https://www.sciencedirect.com/science/article/abs/pii/S0038092X19300702) & [Aldrin Antony](https://www.sciencedirect.com/science/article/abs/pii/S0038092X19300702)  
<https://www.sciencedirect.com/science/article/abs/pii/S0038092X19300702> & [Aldrin Antony](https://www.sciencedirect.com/science/article/abs/pii/S0038092X19300702)  
<https://www.sciencedirect.com/science/article/abs/pii/S0038092X19300702>

