

Living facades improve more than our comfort and enjoyment in cities, they contribute to better public health and ecological wellbeing. Promising improved biodiversity, air quality, and reduced urban heat island, living facades are highly potential.

However, less than 1% of our buildings use living facades and that is because today's technologies are inefficient and hard to maintain. Their little soil, and plastic materiality acts against the ambitions of the system, however, the living lattice confronts these issues with its innovative design that focuses on what matters: resilience, material, and quality.



### Self-Sustaining

With 10x more soil and water retention than typical living walls, the living lattice acts more akin to a forest floor than a typical living wall.



### Bio-diverse

A single teaspoon of soil can contain billions of microorganisms, and is a keystone element for several endangered flora and fauna.

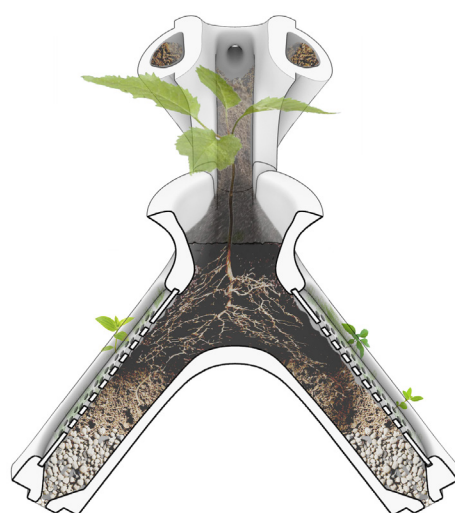


### Organic

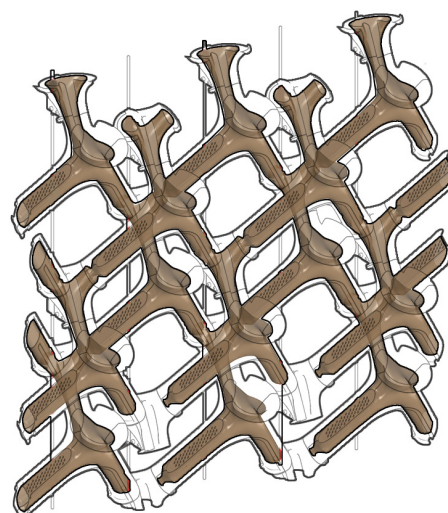
The living lattice is made of Cork, an all natural, rot-resistant material, utilizing cutting edge digital manufacturing techniques.

### A Lattice-like Network of Living Soil and Vegetation

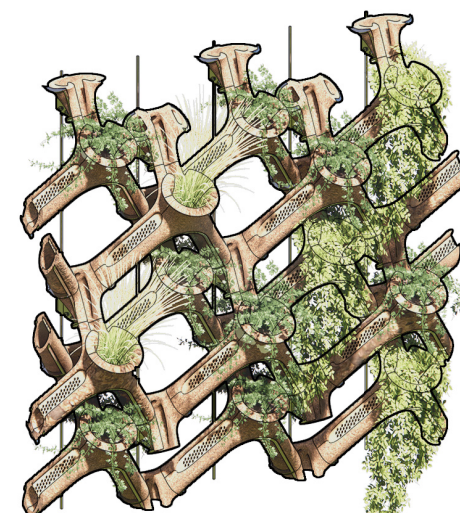
Using robust diagrid forms, the hollow cork modules are filled with fertile soils, and tessellate to create a continuous ecological network. The system has select openings to allow for the entry of vegetation and various animals and insects, while hosting a rich subterranean network of living soils.



Cross section through module



Network view showing soils



Network view



Prototype, shown at the 2022 Lisbon Triennale



Exterior View



Interior View