HELIX is a diffuse furniture system that generates a continuous interior space by adapting simultaneously to any vertical and horizontal surface while defining an immersive spatial atmosphere. It’s form recalls a natural system that emerges from the structure beneath.

HELIX is modular and can be aggregated in different forms following the logic of spatial branching and growth. The spatial pattern is generated through the repetition of vertical zones (A and B) of the same base module that generates the 3D macroaggregated surface cutting through planes that emphasize the perspectival views of the sequence from the corridor to the interior space. The system morphs the space allowing the viewer to follow the visual continuous trajectory generated by the wrapper (wall + ceiling). The aggregate surface adapts in response to the specific site conditions and programmatic requirements with each module shaped by scripted rules.
It is manufactured through iterative procedures guided by a 5-Axis CNC wire cut able to carve out the modules from a solid mass of material. HELIX is made of EPS, expanded polystyrene obtained by corn; it is completely recyclable, and the manufacturing process helps to reduce CO2 emissions allowing the project to be completely executed through fully sustainable processes. The structure is lightweight yet highly resistant due to the resin finish.

The project has been exhibited at the 2014 Milan Design Week and in particular installed on a site that needed a spatial connection between the street, the semi-private corridor, and the interior space. HELIX investigates the notion of space-atmosphere, adaptability, reuse, and sustainable manufacturing processes.
OSW–OPEN SOURCE WORKSHOP is a networked office based in New Orleans (USA) and Milan (Italy). They operate through an expanded platform that combines design practice, research, and teaching as the core of their interdisciplinary experimentations. The group is interested in working through multiple scales that encompass design, architecture and the urban scale. The office operates as a permanent workshop looking at architecture as an inclusive practice. Their work concentrates on the support and implementation of open source and network systems applied to the scale of design focusing on generative models of collaboration and sharing.