

# Rhizoscape

## Unveiling the Subterranean Architecture of Connectivity

Project by: See Kar Kit, UWE Bristol.

“Rhizoscape is an intriguing exploration of architecture that delves beneath the surface to reveal layers of connectivity and complexity. This concept embraces rhizome-thinking, inspired by the interconnected root systems in nature, by creating multi-connected pathways within the Arnolfini space and the broader society of Bristol. Central to this project is the use of slime-mold simulation, which plays a crucial role in designing these pathways.

Slime molds are fascinating organisms known for their ability to form efficient networks. In this project, I manipulate slime-mold simulations based on the population density of Bristol. By adjusting the parameters of the simulation to reflect human movement and density patterns, the project organically determines the most efficient and interconnected pathways throughout the space. This process acts as a form of deterritorialization, symbolizing nature's ability to reclaim and reconfigure urban environments, blurring the boundaries between human-made and natural spaces.

By weaving these nature-inspired pathways through the building and along the harbourside, the project offers numerous perspectives of both the exhibition and the harbour. This design fosters a philosophy of interconnectedness, encouraging visitors to experience the space from multiple angles and perspectives. The pathways were influenced by the population-

adjusted slime-mold simulation, to create a dynamic and fluid environment that reflects the complex and adaptive nature of the programme as an artistic ecosystem.

This innovative approach not only enhances the experience of the exhibition but also strengthens the bond between architecture and society. By integrating natural processes into the design, the project highlights the importance of connectivity and adaptability, paving the way for a more interconnected and dynamic urban environment. The slime-mold simulation provides a practical and symbolic method for creating these pathways, illustrating how nature can inspire and inform architectural design based on human density and movement patterns.

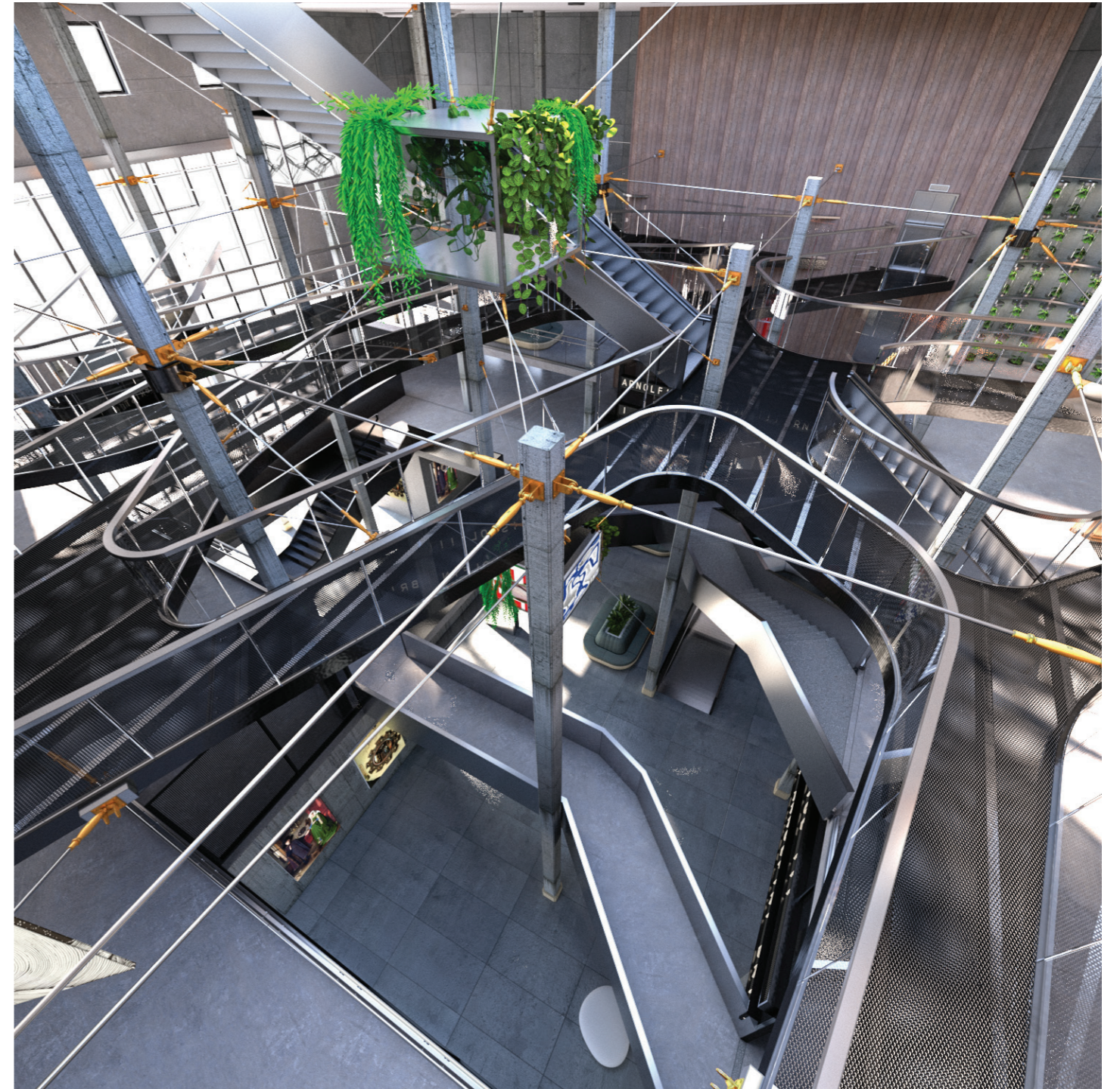
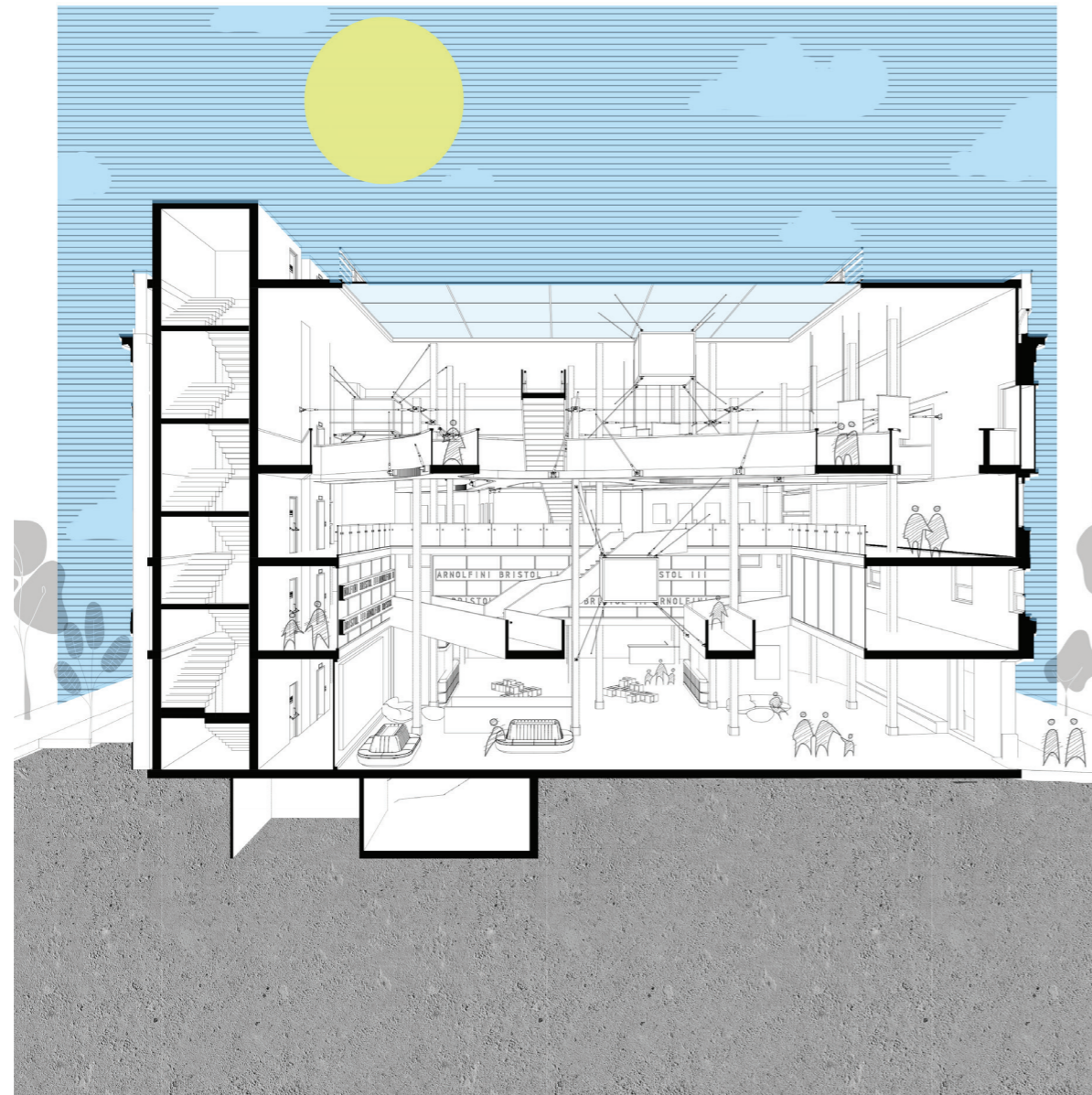


*Interior perspective.*

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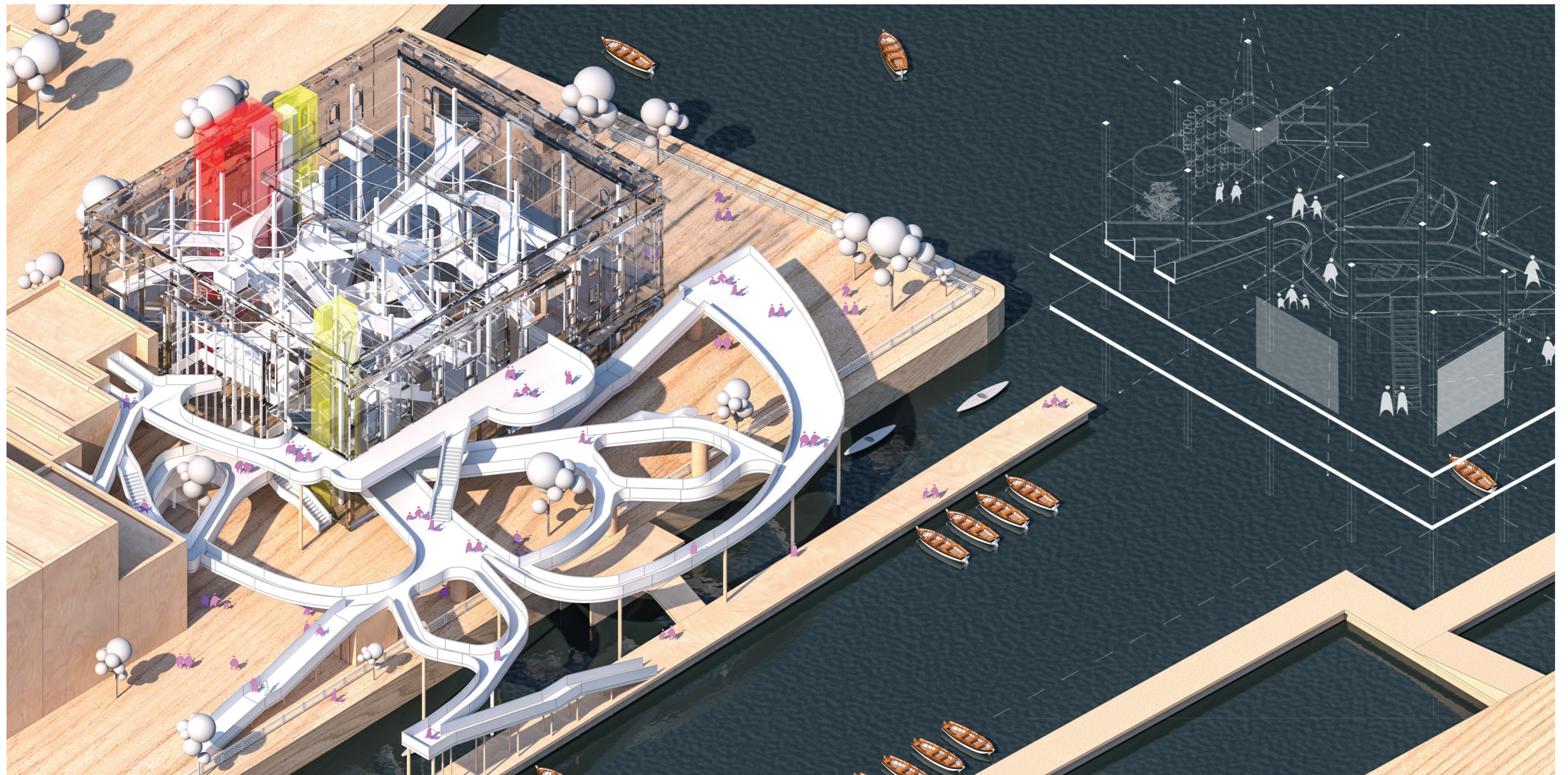


Left: Section through gallery platforms.  
Right: Top-down view of the interior.

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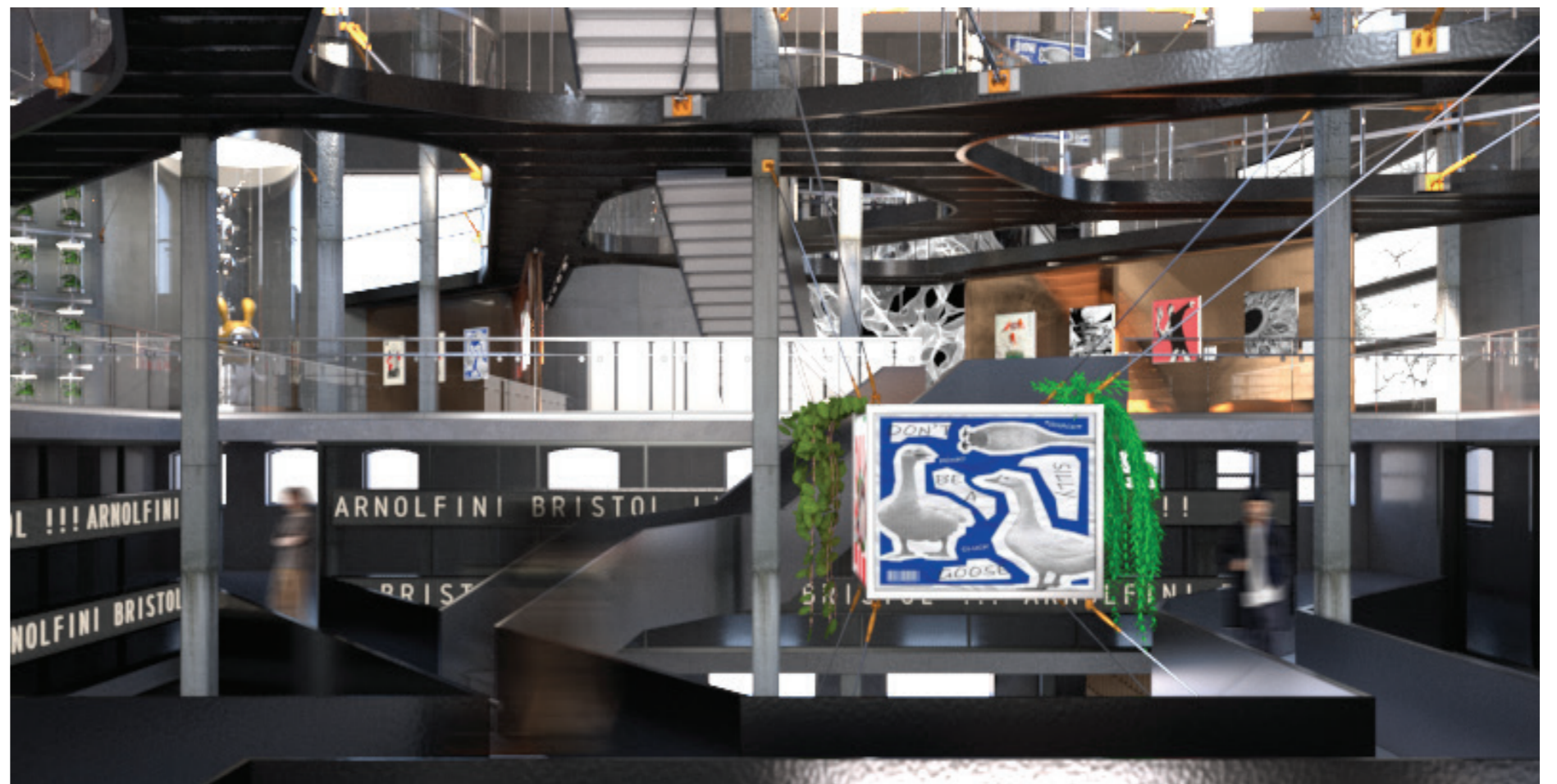


*Rhizoscape: Unveiling the Subterranean Architecture of Connectivity, collaged autocad drawing with 3D render of the design*

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*Interior perspectives of the upper and middle levels.*

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Above section through gallery platforms,  
below interior renders of  
spaces created.



Interior perspectives of the ground level.