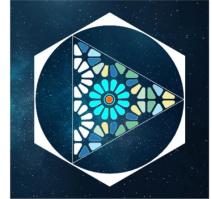


Reconfigurable Building Systems for a Circular Built Environment

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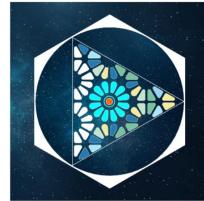


Modular, circular building systems designed for
adaptability & reuse
across places, uses, and time



Most modular construction systems are not designed for true reconfiguration.

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- Modules can be reused, but geometry and function are typically locked early
- Adapting systems to new uses often requires redesign or new components
- This limits circularity and slows replication across different applications

A reconfigurable shell system built from a minimal set of modules

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- A geometric shell building system designed around two repeatable core modules, plus dedicated foundation and interior modules
- Modules are designed for fast assembly, disassembly, and reuse, enabling multiple configurations without redesign
- Geometry and connections are intentionally designed for change over time, not fixed layouts

Efficiency comes from geometry & minimal module count

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- Geodesic shells achieve structural efficiency, but usable space and adaptability are constrained once built
- Parametric free-form shells offer design freedom, but typically require many unique parts, increasing production and assembly complexity
- Our approach combines shell efficiency with few repeatable modules, shifting efficiency from custom fabrication to simpler production, assembly, and reuse

Proving the system through low-risk, real-world entry points

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- The system is first deployed through pavilions and living labs, where adaptability and reconfiguration are critical
- These entry points allow technical, operational, and user validation without the regulatory burden of housing
- Early deployments test assembly, reconfiguration, and reuse, with insights informing system refinement before replication across larger sites and applications

Early proof through pilots, partners, & peer validation

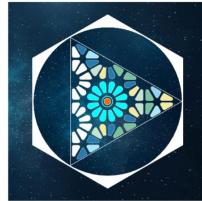
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- Two pilot projects in preparation to validate assembly, reconfiguration, and reuse in real-world conditions
- Institutional support and early capital from Climate-KIC, Autodesk Foundation (Technology Impact Program), and Rabobank support system validation and deployment.
- Peer validation through accepted presentations at Earth & Space 2026 (ASCE, Texas) and Space Resources Week 2025 (Luxembourg)

Scaling through licensing & partner-led deployment

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- The system is commercialized through licensing of design software, production hardware, and assembly methods
- Industrial partners lead manufacturing, deployment, and market access, reducing capital intensity
- Pilot projects validate system performance before replication across sites and applications
- This model enables rapid geographic and sectoral scaling without centralized production or ownership

System-level IP designed for licensing & replication

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- The system is protected through a combination of design IP, geometric logic, and assembly methods
- Defensibility comes from the integration of geometry, module interfaces, and reconfiguration rules, not from individual components
- System-level design IP supported by registered design rights and a registered trademark

From system validation to scalable deployment

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- Complete pilot deployments to validate assembly, reconfiguration, and reuse in real-world conditions
- Refine system design and interfaces based on pilot feedback and measured performance
- Formalize licensing frameworks for design, production, and assembly partners
- Prepare replication across larger sites and applications, informed by validated system behavior

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11 SUSTAINABLE CITIES
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12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



17 PARTNERSHIPS
FOR THE GOALS



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