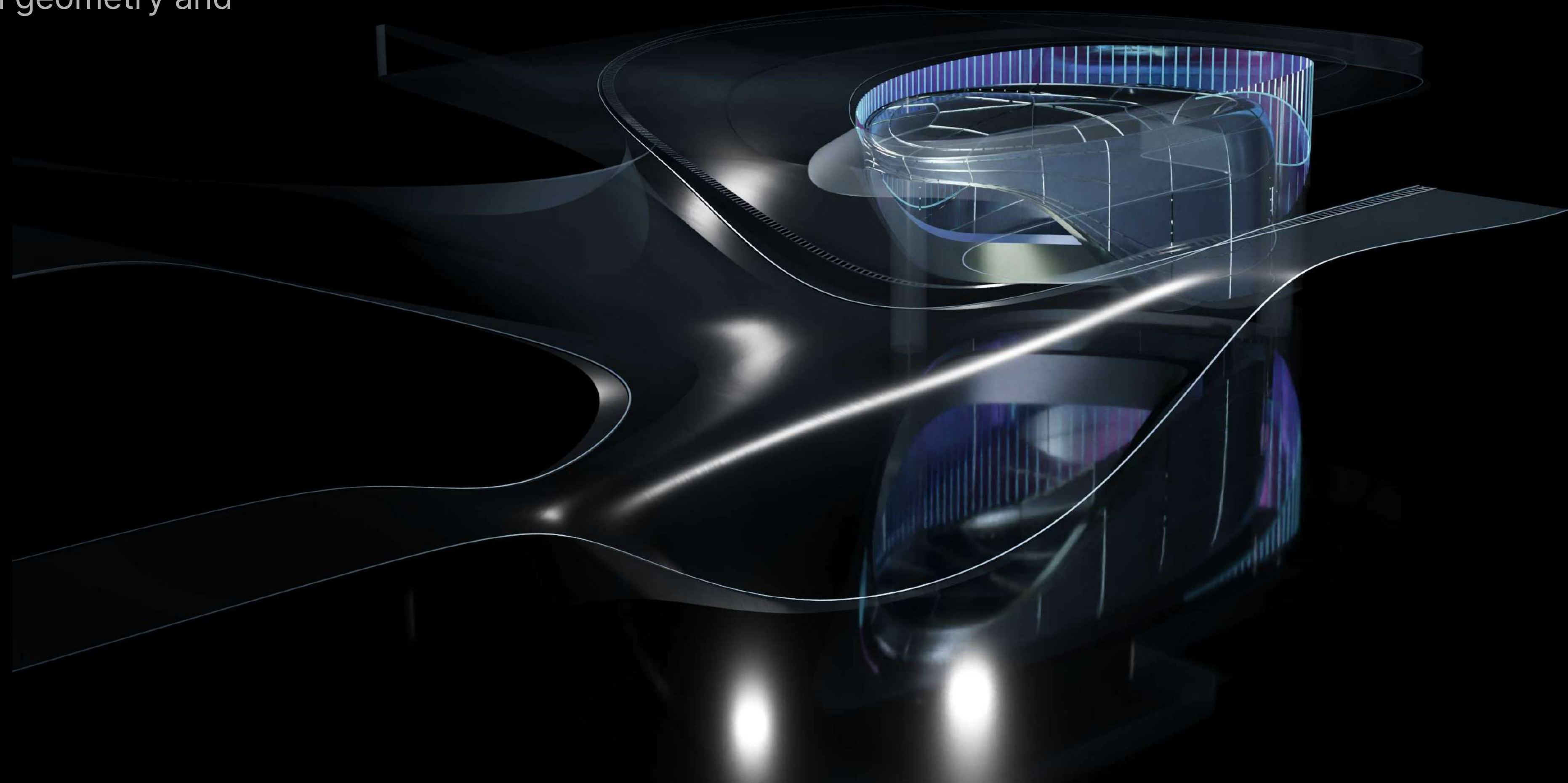


FUZES/ARCH

**3D geometry modeling
for architects and engineers.**

Construction-facing BIM geometry and
computational delivery.

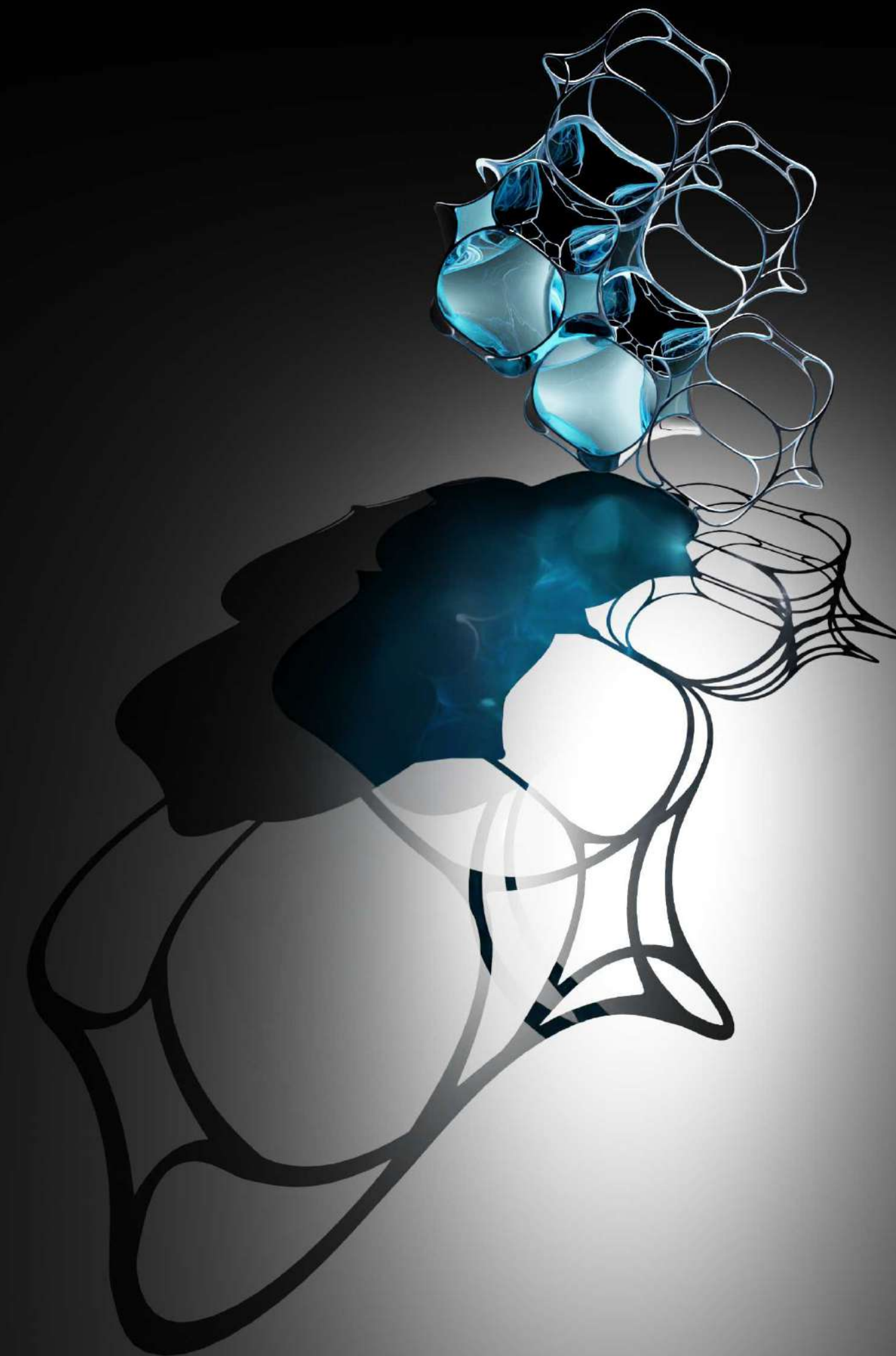


Modeling.

High-precision BIM 3D geometries from early massing to manufacturing-ready details and validated drawing output.

Algorithms.

Additional support with custom C# plugin development to accelerate delivery. Plug-and-play modules.



Targets.

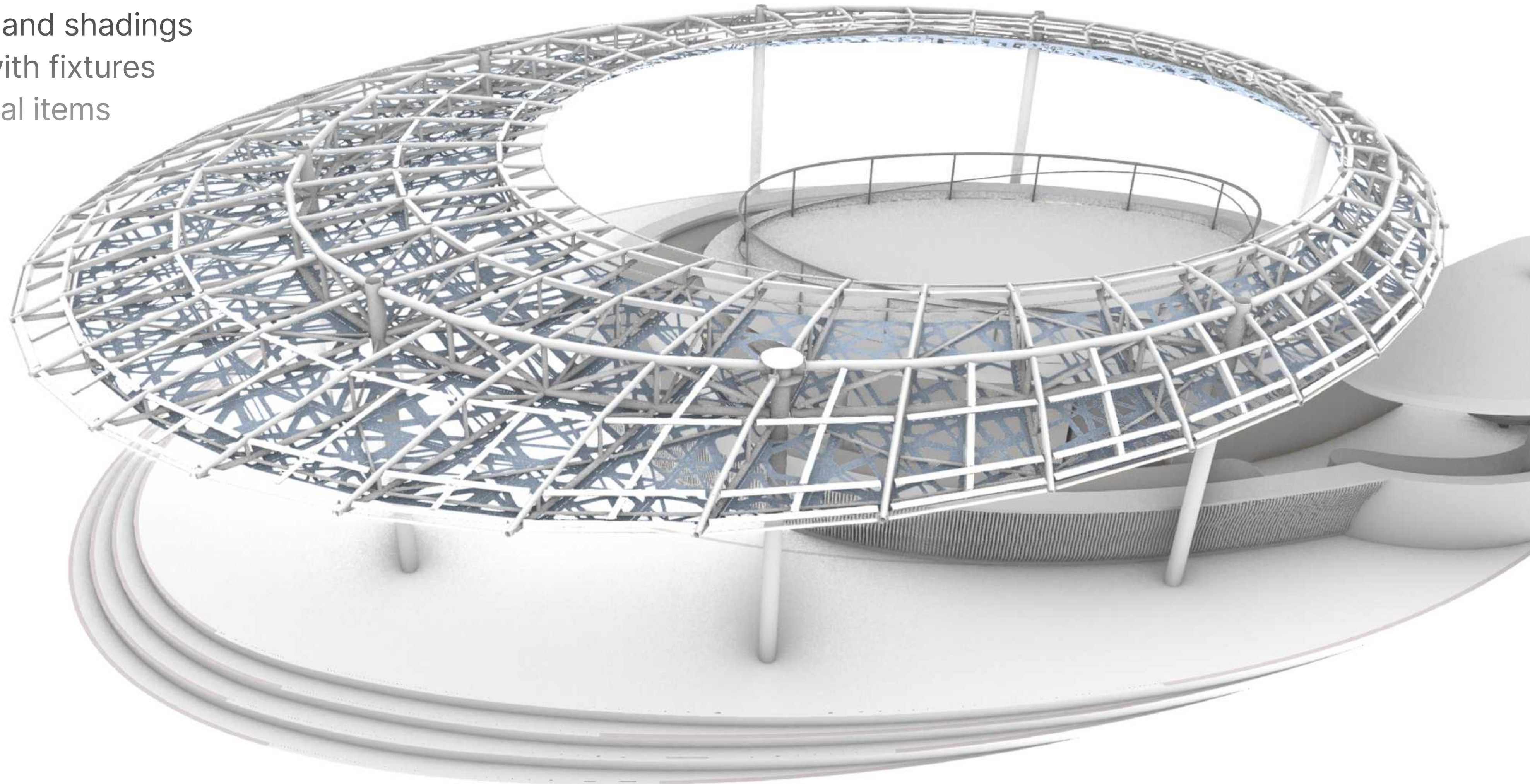
Volumetric building shapes

Facade systems and skins

External envelopes and shadings

Interior claddings with fixtures

Singular or sculptural items

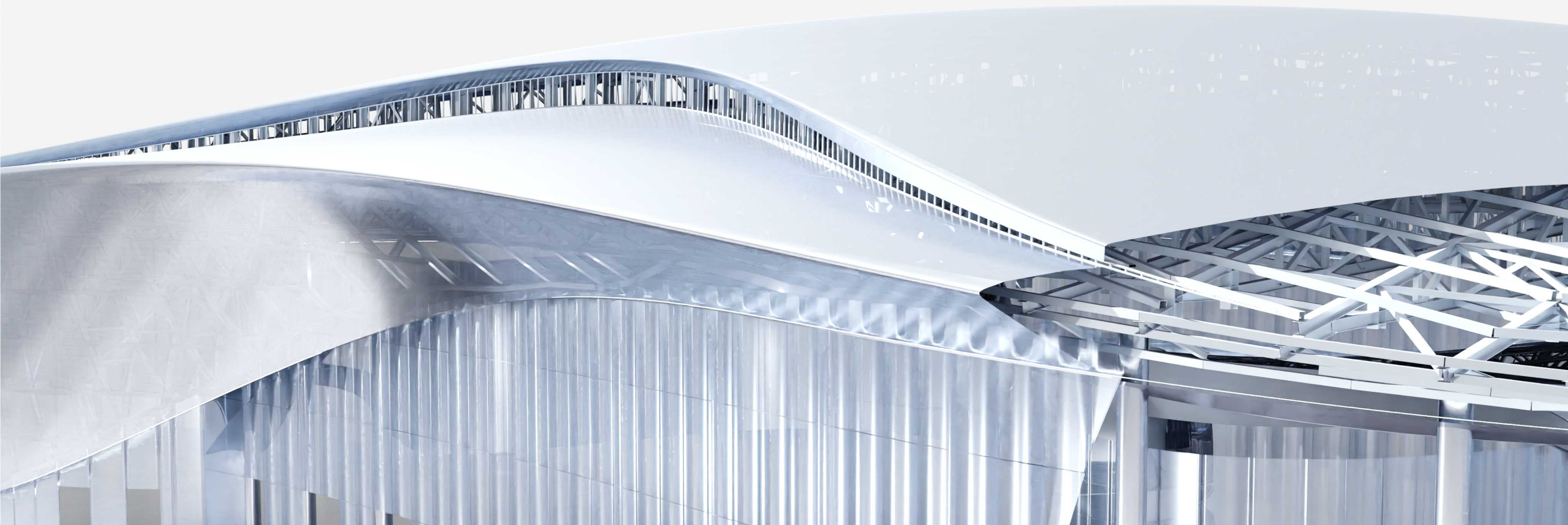


Platforms.

Rhino McNeel models with full programmatic control

Autodesk Revit Families up to LOD 400

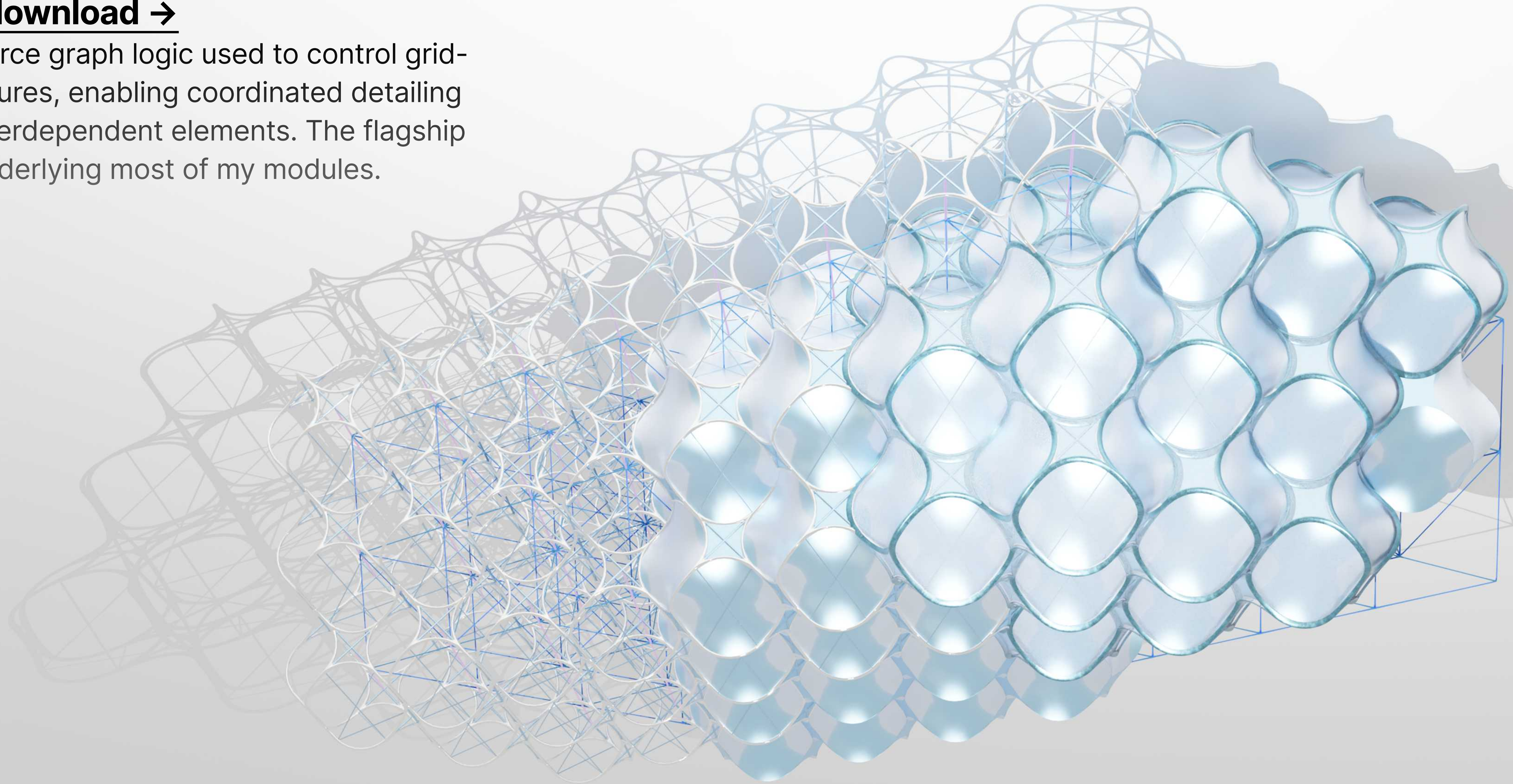
Graphisoft ArchiCAD data transfer via *tAPIr*



PORTIA / Graph

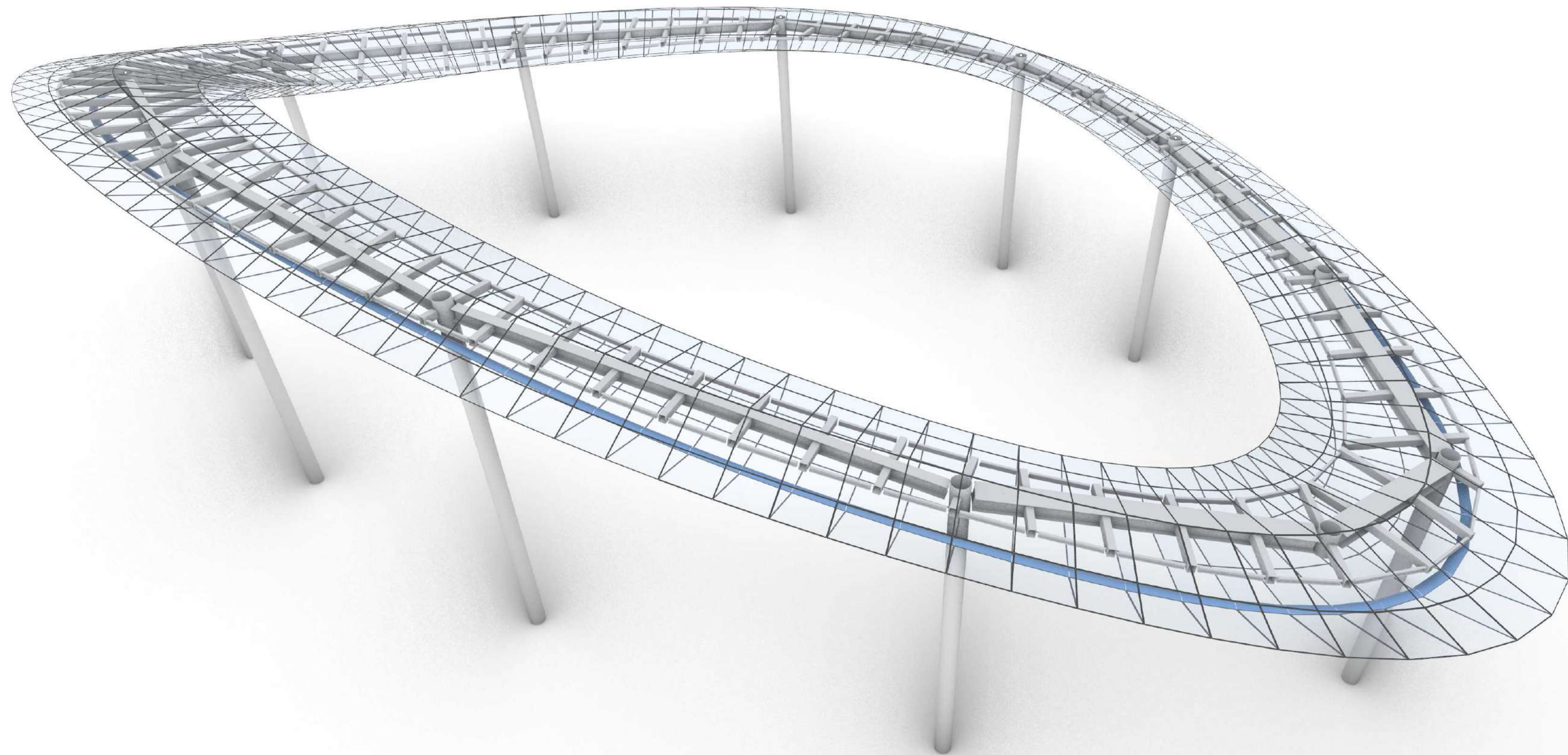
Link to download →

Open-source graph logic used to control grid-like structures, enabling coordinated detailing across interdependent elements. The flagship engine underlying most of my modules.



Optimization.

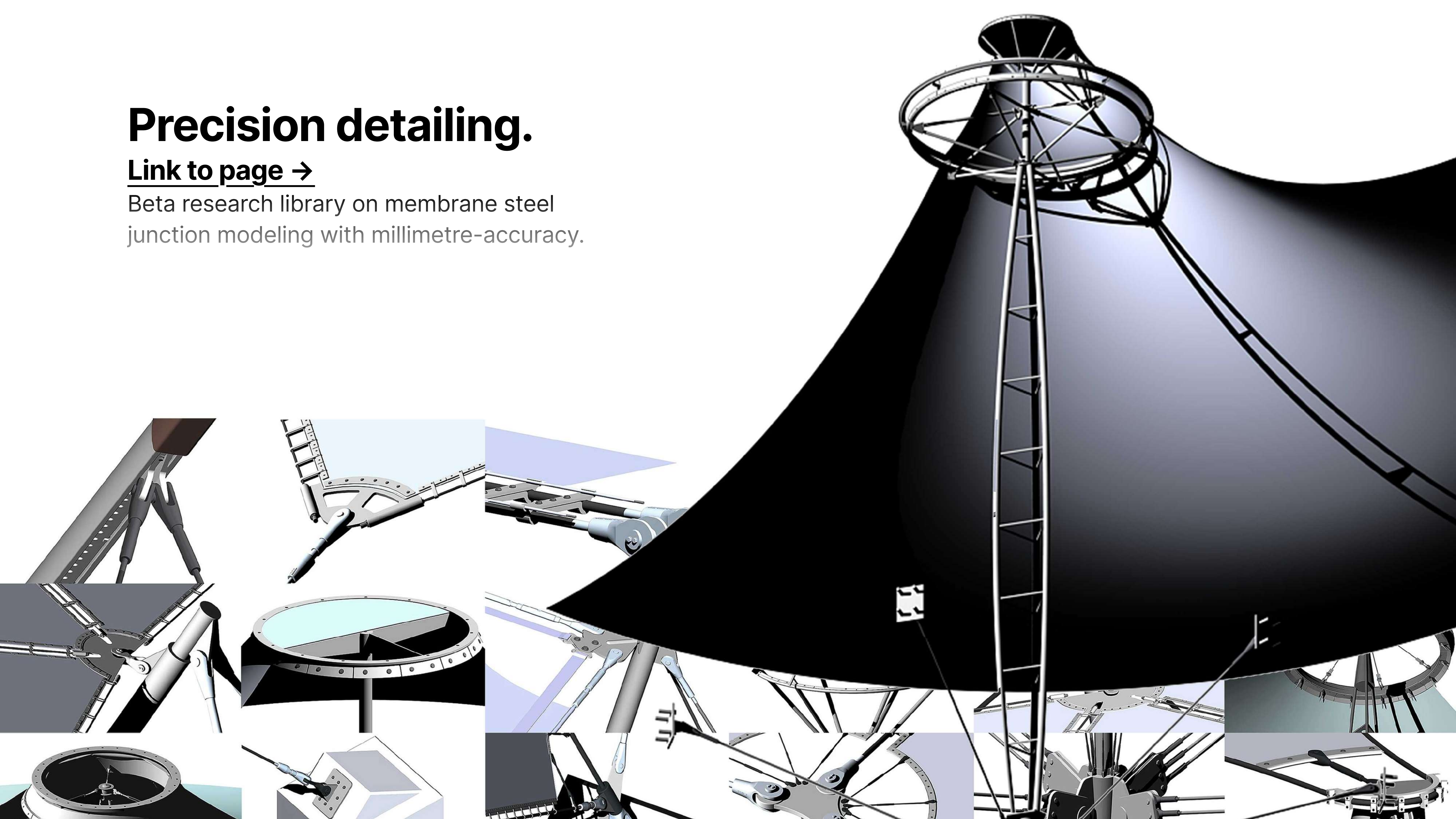
Any parametric logic with changing values can be extended by optimum searches - minimizing, maximizing or balancing the *dominant performance values*. Genetic search and evaluation loops can be applied to real project constraints with a surprising ease. Example: panel unification logic for floating canopy.



Precision detailing.

[Link to page →](#)

Beta research library on membrane steel
junction modeling with millimetre-accuracy.



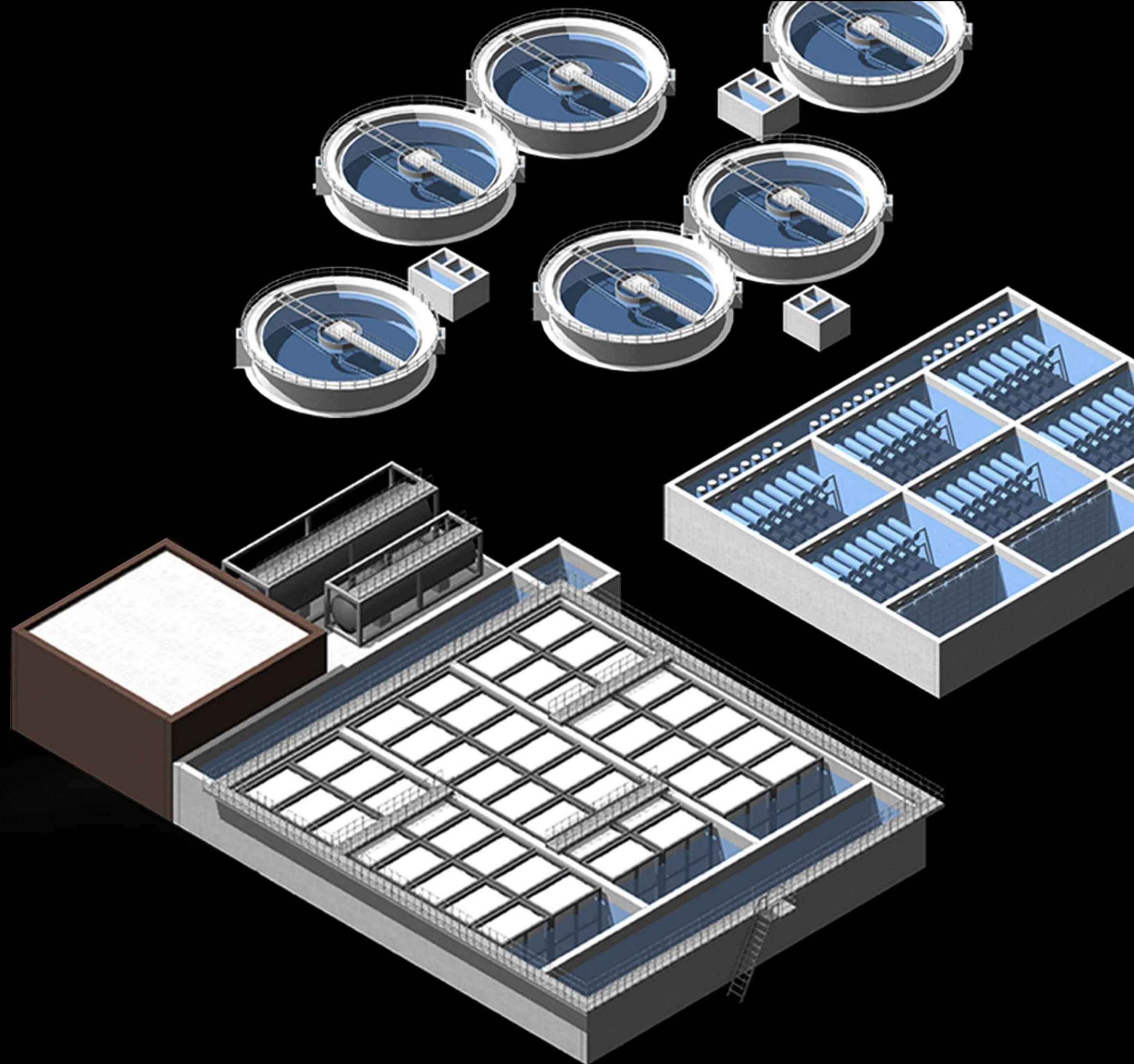
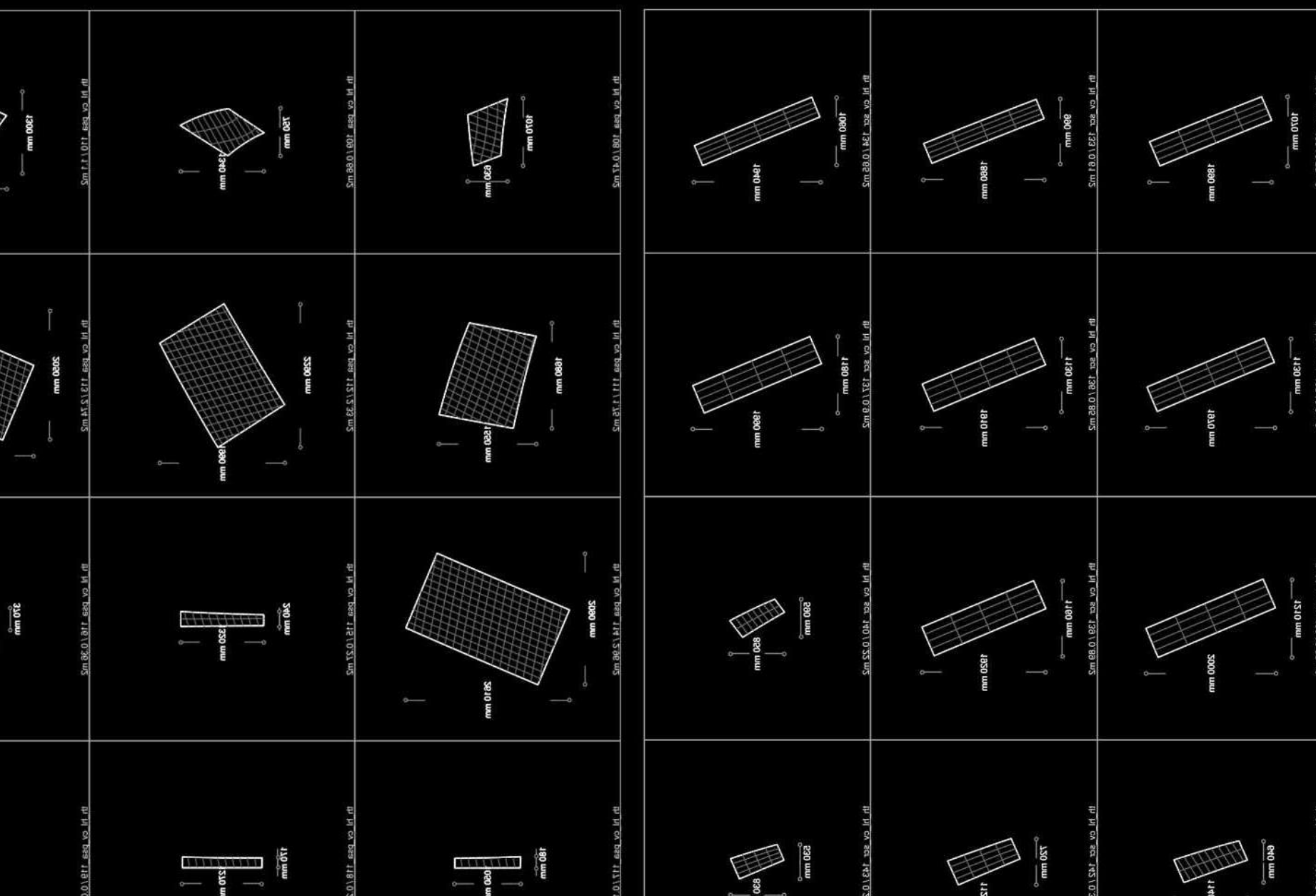
Documentation.

Automatic sheet organization

Real-time viewport PDF exports

Item indexing and tagging by code

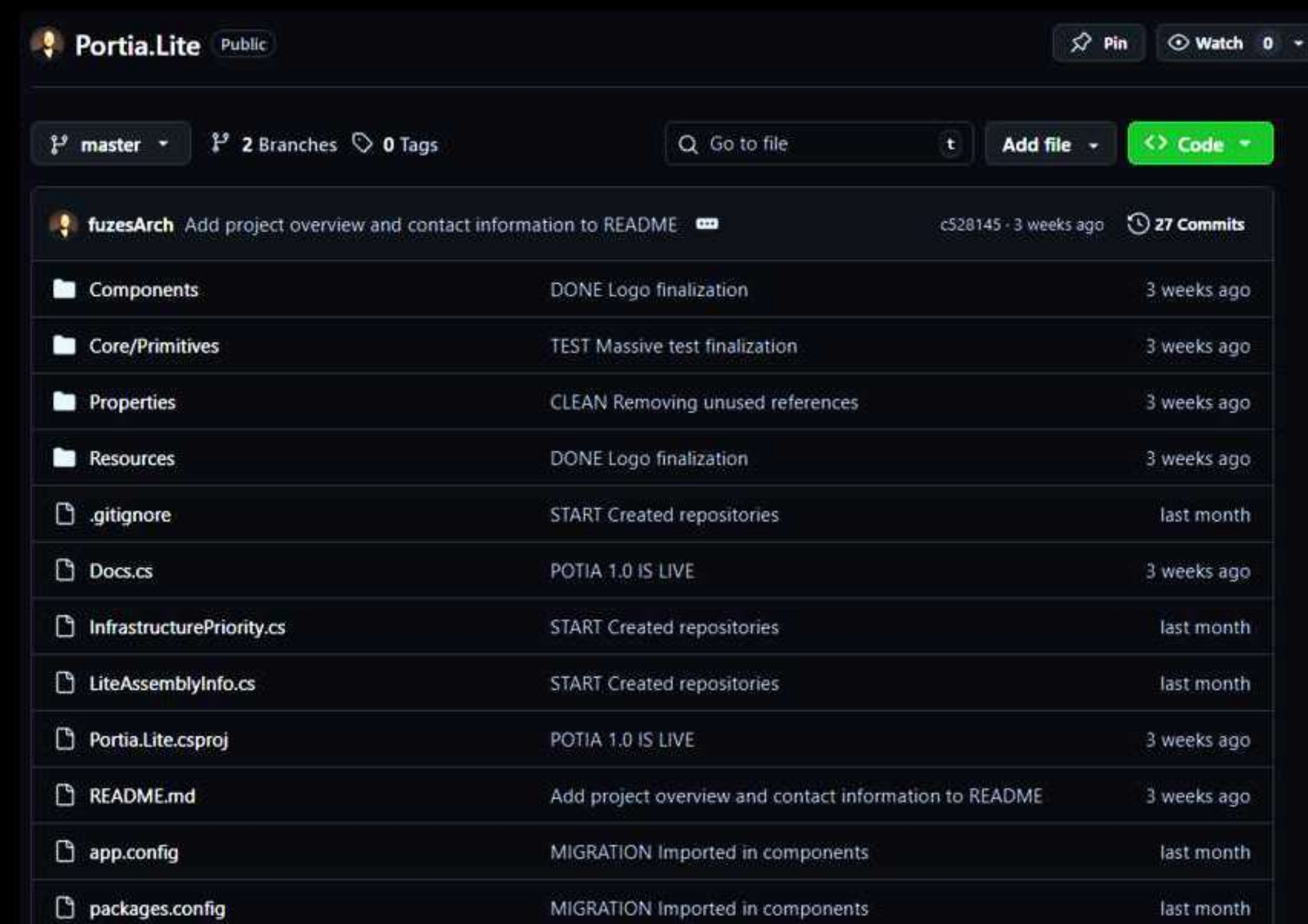
Dynamic grouping and view creation



.NET C# development

Rhino plugins.

Easily activated Grasshopper components designed for absolute clarity and repeatable use. *Zero coding knowledge* is required upon project integration.



Revit commands.

Custom BIM logic for reliable model operations, validation, and controlled data handling. Family-based transactions, automated schedule setup, error messaging and queries - based on the Revit API.

```
2 references
public class FitnessSettingsValidator : FlatMixCoreBaseValidator<FitnessSettings>

private static readonly FitnessSettingsValidator instance =
    new FitnessSettingsValidator();

1 reference
public static FitnessSettingsValidator Instance { get; } = instance;

1 reference
private FitnessSettingsValidator()
{
    RuleFor(x => x.BestPopulationCount)
        .Must(value => 0 <= value)
        .WithMessage(nameof(FitnessSettings.BestPopulationCount) +
            " must have a non-negative value.");

    RuleFor(x => new List<double>() {
        x.AreaWeight,
        x.OrderWeight,
        x.CountWeight,
    })
        .Must(value => value.All(x => 0 <= x && x <= 10))
        .WithMessage(
            nameof(FitnessSettings.AreaWeight) + ", " +
            nameof(FitnessSettings.OrderWeight) +
            nameof(FitnessSettings.CountWeight) +
            $" must all be between 0 and 10.");
}
```



Partners.

Group Dyer

Banati + Hartvig Studio

Paulinyi & Partners Ltd.

TranscendWater

Equinox International Ltd.

...

Bálint Füzes.

MSc Architect and certified software developer.

multi-year partnership on full-scope planning
co-competition and ongoing in-house developments
multi-year plugin development collaboration
software team member
competition collaboration

Awards.

Special prize 2017 National Scientific Conference
of Student Research

1st prize 2014 Genoa ACCROSS International Idea
Competition

10th prize 2008 German language National
Scientific Competition of Students

Collaboration.

<https://www.fuzesarch.com>

balint@fuzesarch.com

[linkedin](#)

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Driven by a deep passion for geometry, I welcome any project scale and type — from standard residential to complex industrial buildings.

Let's connect if our capabilities align; I offer entirely flexible setups, including support for capacity surges, direct module deployments, project collaborations, or even complete team embedding.

