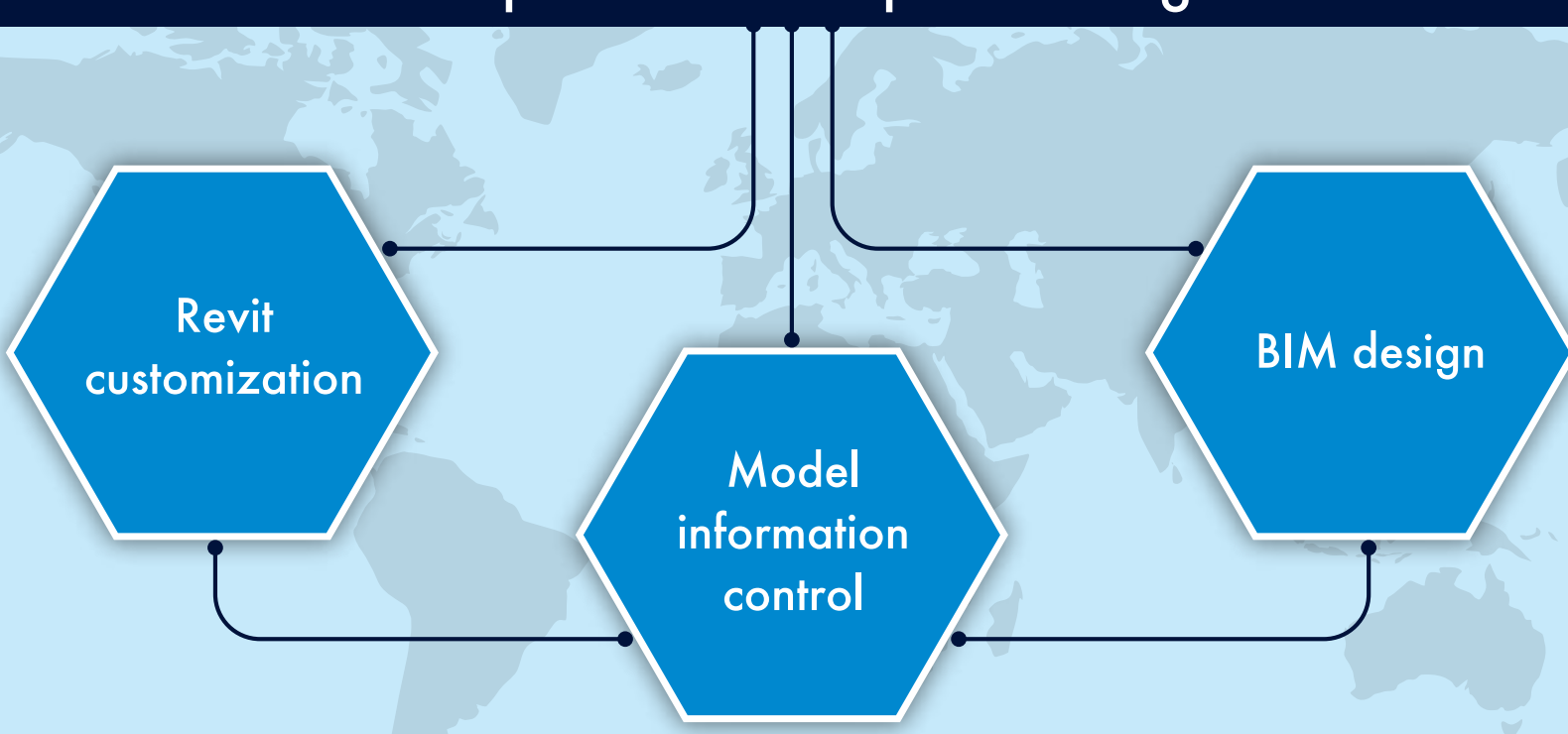# INTEGRATING DYNAMO

into BIM workflow

Accelerate modeling. Enhance design processes and workflows with a visual programming tool.
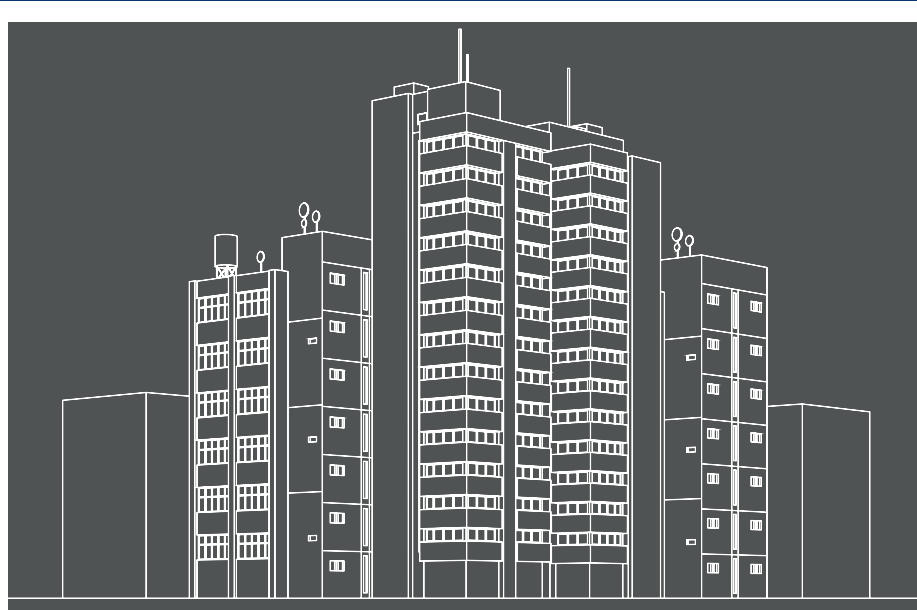
Dynamo extends Revit capabilities to improve design efficiencies through

- Revit customization
- Model information control
- BIM design

Challenges Faced with Revit BIM Modeling

1. Tedious and inaccurate modeling geometries lead to rework
2. Time consuming repetitive tasks
3. Design performance issues

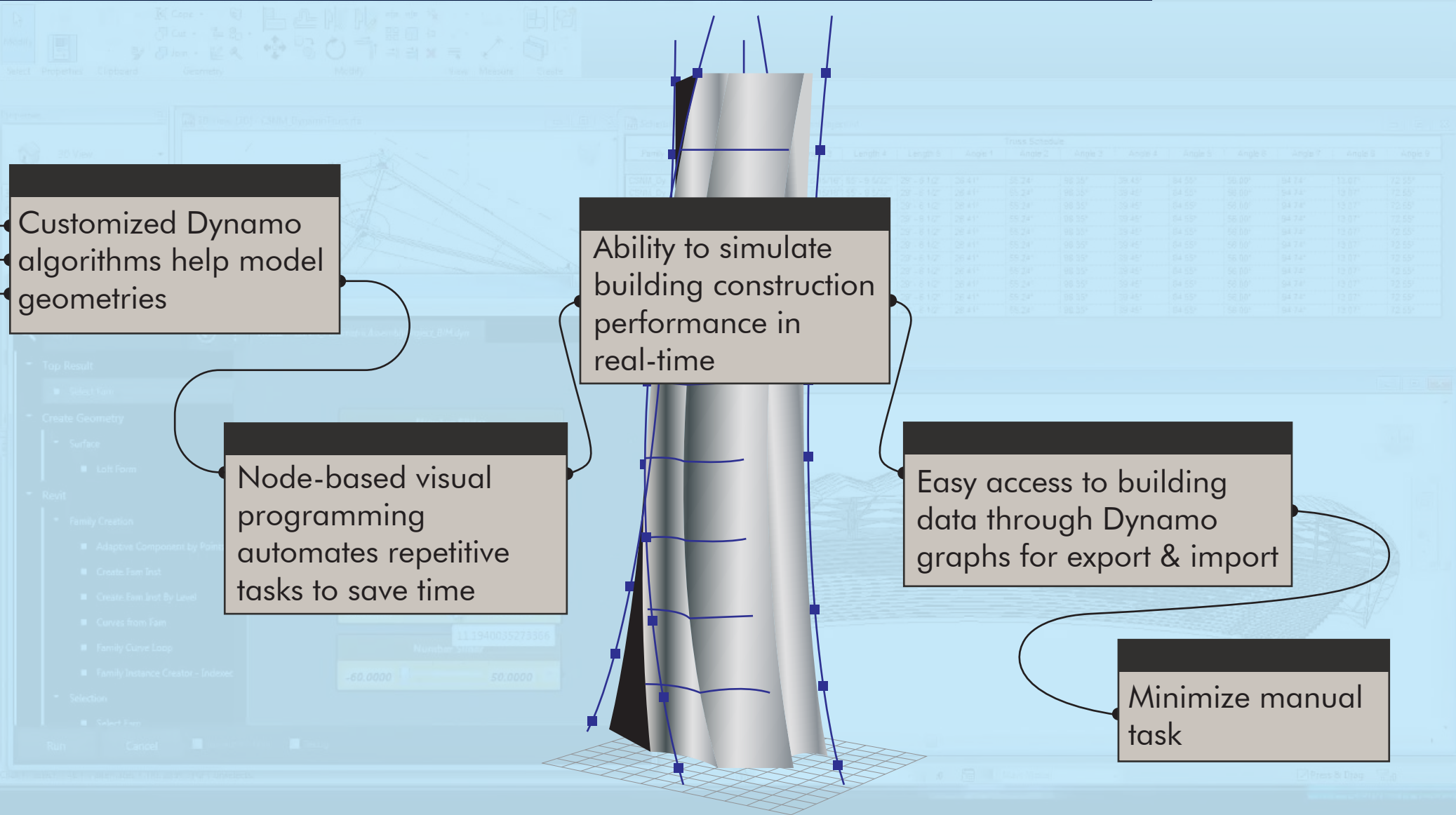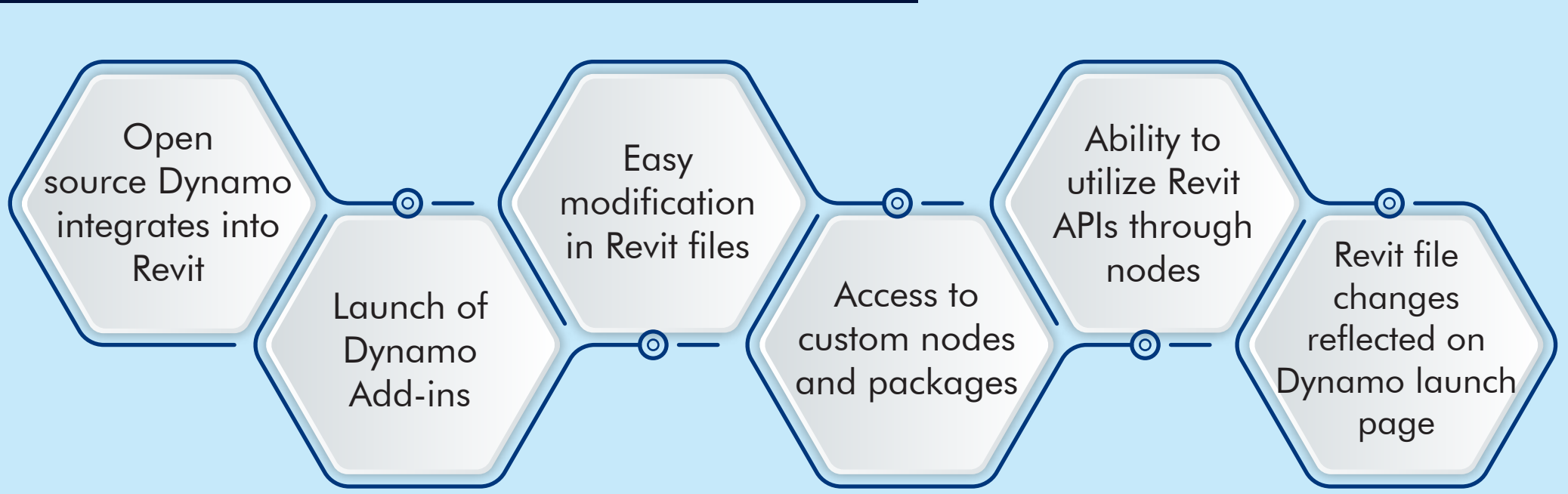## Automated Dynamo Scripts can Save

- Up to **50%** modeling and design time
- Up to **18%** modeling cost
- More than **200** hours for projects/yearly
- Rework with **100%** QC

Benefits of using DYNAMO for your BIM workflows

- Customized Dynamo algorithms help model geometries
- Ability to simulate building construction performance in real-time
- Node-based visual programming automates repetitive tasks to save time
- Easy access to building data through Dynamo graphs for export & import
- Minimize manual task

Winning partnership of Revit-Dynamo

- Open source Dynamo integrates into Revit
- Launch of Dynamo Add-ins
- Easy modification in Revit files
- Access to custom nodes and packages
- Ability to utilize Revit APIs through nodes
- Revit file changes reflected on Dynamo launch page

Success Story Showcasing the Capabilities of Dynamo

Integration of Dynamo with Revit helps a European company gain 50% time savings and 18% cost savings for 13,000 housing units.
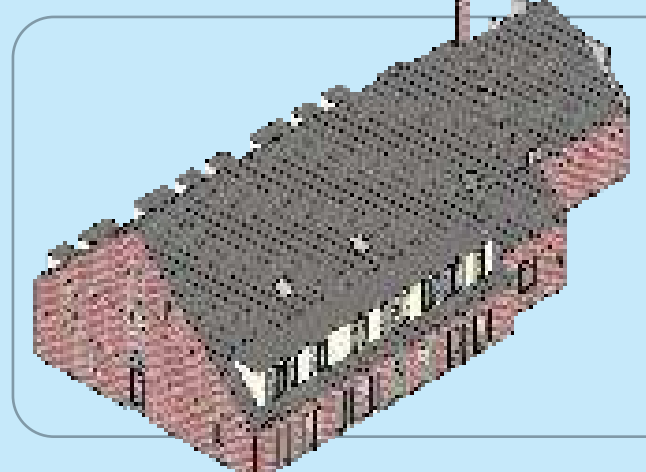
Business need

Build a digitized portfolio of 13,000 housing units for ease of maintenance and management.
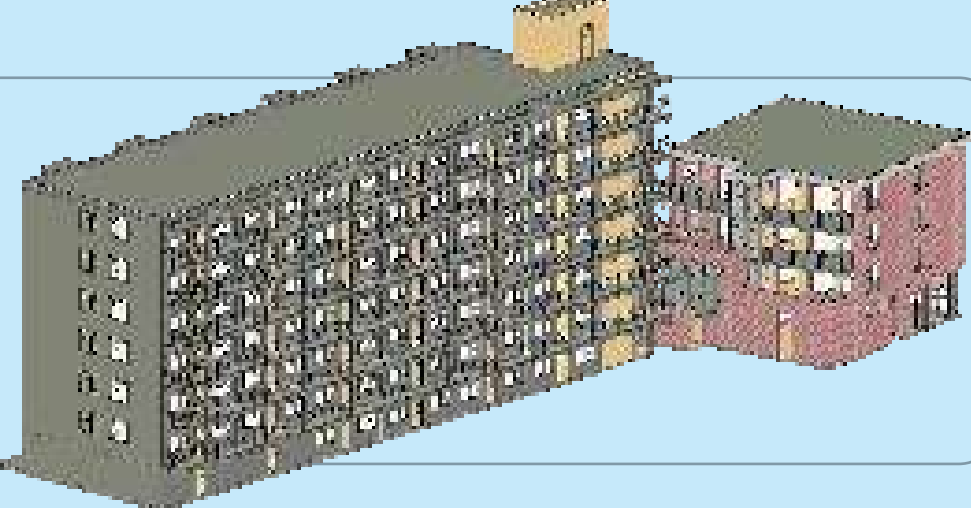
R AUTODESK REVIT   Dynamo

Approach

- 2D drawings and data of 13,000 building units were assessed thoroughly
- A 3D model prototype was generated of the first building with façade views, BOQs, and floor plans
- The model was validated against established parameters using Revit APIs
- GIS data was linked to each of the 13,000 BIM models

Result

- Achieved 100% accuracy with high-quality deliverables
- 50% time savings and 18% cost savings
- Improved BIM model management through property digitization