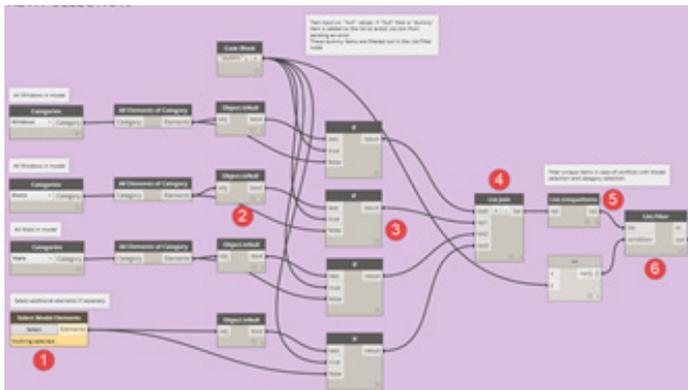


## Optimised Logistics Management Utilising Revit and Dynamo

The way everyday items - from chairs to cars to power tools - are made is being reimagined through a new process called generative design.

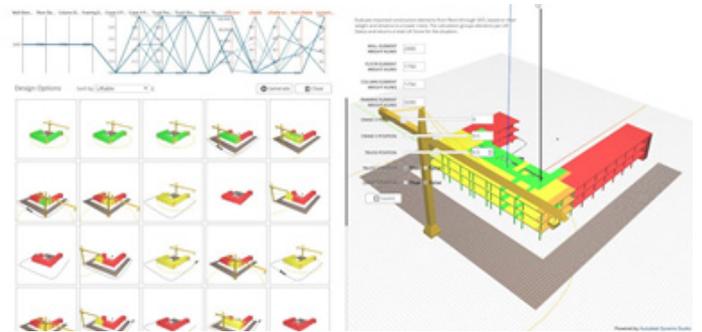
Using Artificial Intelligence (AI) software and the computing power of the cloud, generative design enables engineers to create thousands of design options by simply defining their design problem, inputting basic parameters such as height, weight it must support, strength, and material options.

Generative design leverages machine learning to mimic nature's evolutionary approach to design. Designers or engineers input design parameters (such as materials, size, weight, strength, manufacturing methods, and cost constraints) into generative design software and the software explores all the possible combinations of a solution, quickly generating hundreds or even thousands of design options. From there, the designers or engineers can filter and select the outcomes to best meet their needs.



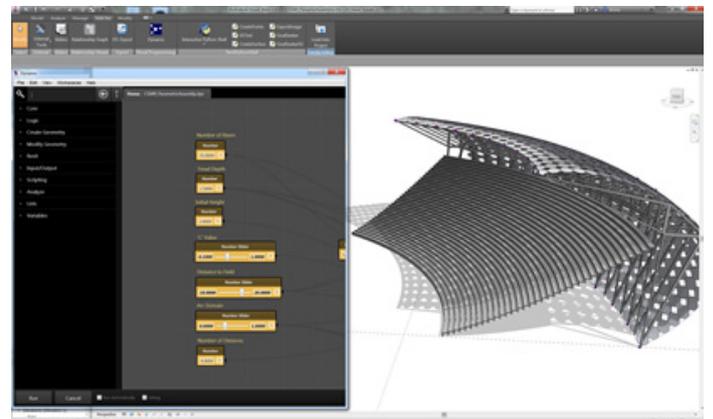
Autodesk have produced a solution set, that provides a platform that addresses Generative Design. Utilising Autodesk Revit, Dynamo and Refinery (a Dynamo plug-in), users can now easily and quickly identify and analyse optimal locations for both assets and activities.

This provides an ideal platform to analyse locations for temporary works items such as lay down areas, access points, portacabin locations and crane locations.



Traditionally, this exercise has been done manually and was long winded and time consuming and ultimately not always providing the optimal solution. The more intricate and tighter the site, the more complex the temporary works logistics becomes. This is further compounded by the need to analyse and relocate as the site develops.

This technology is only limited by our imagination. Autodesk Refinery can be used for any task that requires any form of iterative optioneering/optimisation, to generate models that have complex geometry or simply to automate, alleviate and speed up repetitive tasks.



For more information on our construction services please call 01992 807 444 or email [marketing@excitech.co.uk](mailto:marketing@excitech.co.uk).

### Features and Benefits of Optimised Logistics with Revit and Dynamo

- Huge savings on time compared to traditional or manual methods
- Optimised layouts from hundreds of options
- Easy to learn
- Greater planning visibility
- More informed decision making
- Increased efficiency
- Better coordination for tasks with parent/child relationship