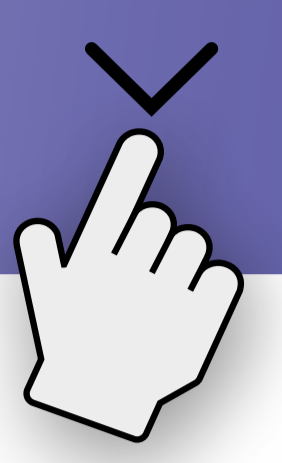


Hit fast-forward on early-stage design

The Transcend Design Generator (TDG) is a generative design platform that allows you to **create detailed water and wastewater facility designs in a matter of hours.**

Deliver the best possible options to clients by letting engineers explore dozens of different possibilities in a fraction of the time required by traditional methods.

How generative design can transform your workflows



1

Input your facility parameters

Using desired outcomes such as effluent quality and site constraints, the TDG runs a full wastewater treatment process simulation. It then selects the most appropriate equipment and layout that will effectively reach the outcomes with pinpoint accuracy.

Supplemented by proprietary databases, junior engineers can own this process without relying on senior oversight as all input data is cross-checked for validity. If desired, the option to override or apply more specific, custom input parameters is available.

No Yes

Water quality data ▾

Site info/mapping ▾

CAS ▾

CAS
MBR
MBBR
MBBR-IFAS
SBR

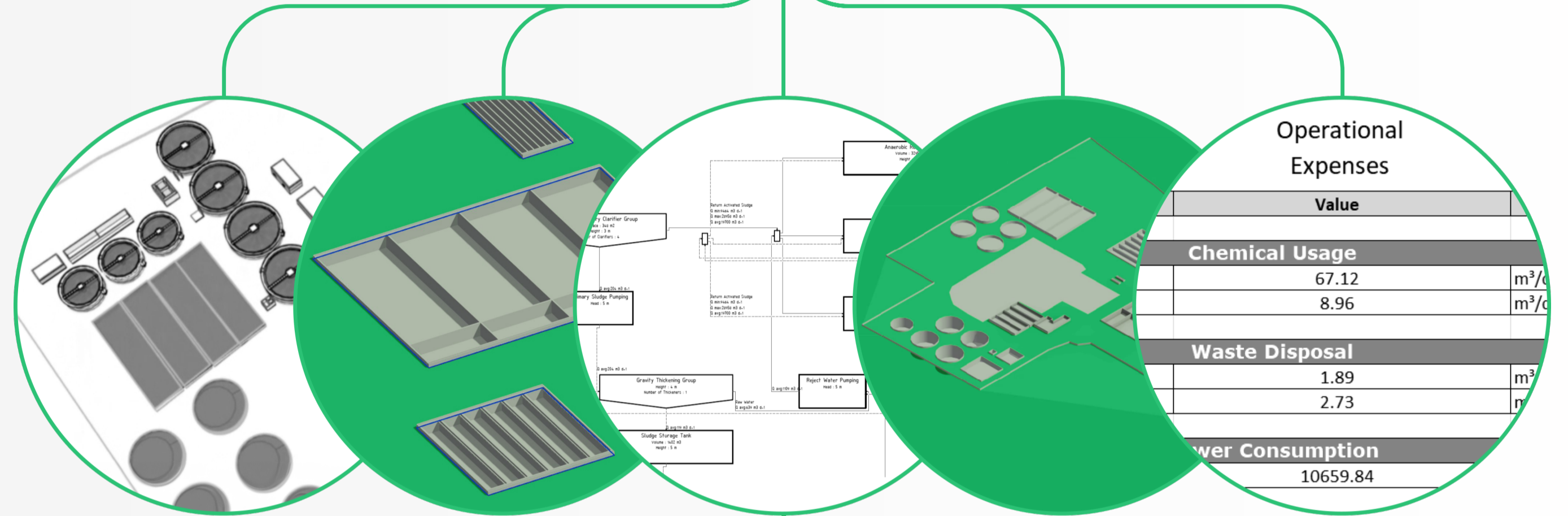
Technology selection ▾

Explore different options and scenarios

You can go from inputs to preliminary designs in only a few clicks, and explore dozens of options in the time that traditional methods would take weeks to create even one.

This frees you to investigate how different designs would be affected by criteria such as population growth, stricter effluent limits, or climate change. You can even iterate and generate different concepts to evaluate the effectiveness and OpEx implications of new technologies.

2



3

Select designs to develop further

With this accelerated workflow, you can transition from 2D to 3D far earlier, moving shortlisted designs into software like Revit or AutoCAD Plant 3D. This speed helps you to deliver multiple unique, fully realized designs that serve different aspects of a project brief.

Each design you generate comes supported with a full suite of documentation that is automatically generated—from full BIM files to BOQ/BOMs—saving engineers the countless hours of manual work that would otherwise be required.

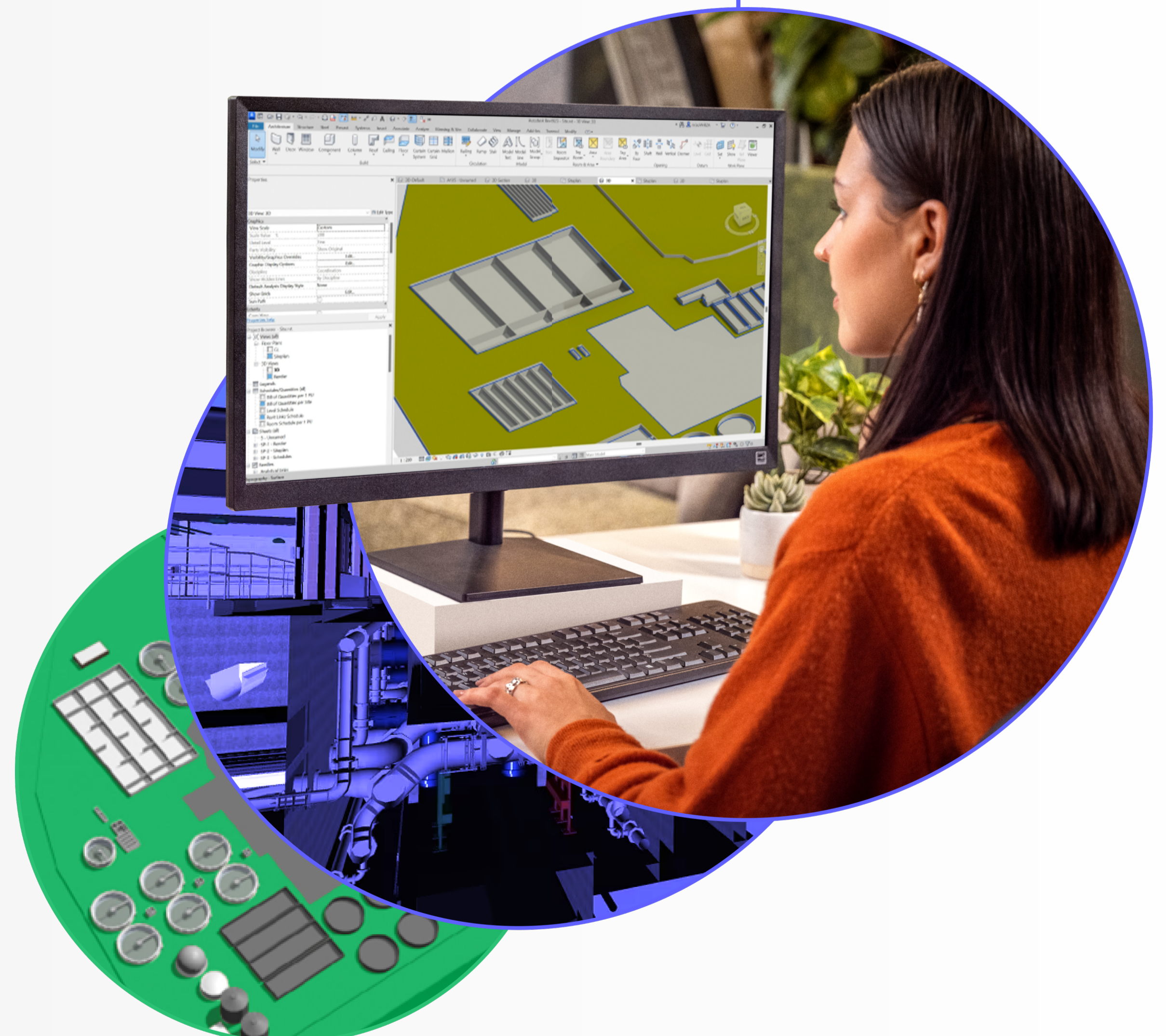


Deliver enhanced conceptual designs

The time you save with the Transcend Design Generator allows you to refine designs further and push them to greater depth and accuracy ahead of deadlines. This makes the concepts you present to stakeholders more robust and better tailored to project requirements.

Consequently, less revision and rework is necessary and the iteration process is significantly shorter—driving costs down and winning clients over. You can use the TDG to establish an outcomes-led process that frees designers from formulaic work and positions you perfectly to launch straight into detailed design.

4



Want to increase the depth of your design processes without impacting budgets and timelines?

Try the Transcend Design Generator