

The Benefits of BIM for Plant Design

Insights on the value of
BIM from Revit and
AutoCAD Plant 3D
customers

IMPROVED PROJECT OUTCOMES FOR TURKEY'S FIRST BIM-BASED WATER TREATMENT PLANT

“Using Revit and other Autodesk BIM solutions for our design, **we are delivering a higher quality design and enhancing our firm’s communication with our client.**”

Gökmen Tuna Becerik, Su-Yapi
Engineering & Consulting Inc.





DESIGN OIL RIGS MORE QUICKLY AND ACCURATELY WITH BIM

“As a company, we are always looking for ways to increase efficiency, productivity, and quality.”

“We saw a number of advantages right away with AutoCAD Plant 3D. **We can have a project up and running in about an hour these days.**”

Stephen Brechin, RDS



DESIGN BIOMASS PLANTS FASTER WITH BIM

“Among the things that appeal to us is *the possibility to construct, visualize, and simulate our models in AutoCAD Plant 3D*. Because of this, **serious errors can be avoided...**”

[Claus Bach Nielson, Aalborg Energie Technik](#) →

A photograph of an industrial facility, likely a natural gas processing plant. The image shows large, horizontal pipes with several large, circular handwheels for valves. The pipes are painted a light grey or blue. In the background, there are more pipes, valves, and a window with horizontal blinds. The lighting is bright, coming from overhead fluorescent lights.

STREAMLINE WORK FOR NATURAL GAS DESIGN

“The AutoCAD Plant 3D toolset allows us to do the work of two or three people at times because we’re able to utilize certain features that really just streamline so much of the process.”

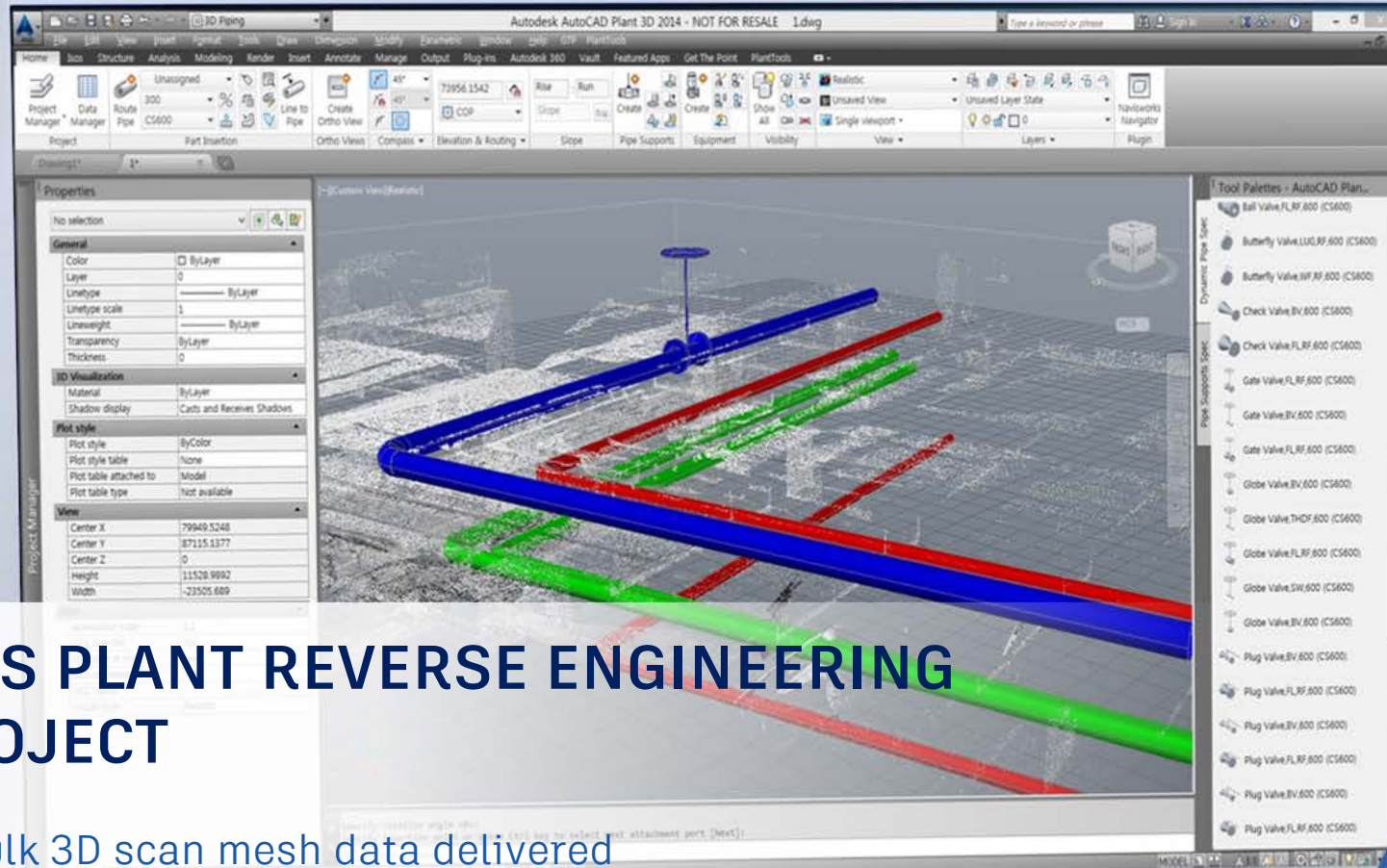
[Bob Gilbert, Process Pipeline Services](#) ➔

A detailed 3D BIM rendering of industrial machinery, featuring complex piping, valves, and structural frames. The image is split into two color-coded sections: a blue-tinted left half and a dark grey/black right half. The machinery is shown in a perspective view, highlighting its intricate design and scale.

DELIVER MORE ACCURATE DOCUMENTATION WITH BIM

“When we design in 3D, we have more confidence that everything will work—and it’s where it should be. **The risk of inaccuracy is lower.**”


Guido Glantz, DELTA Gruppe GmbH ➞



BIM STREAMLINES PLANT REVERSE ENGINEERING AUTOMATION PROJECT

Automated modeling of bulk 3D scan mesh data delivered **modeling time savings of up to 50%**, and the **whole process time was reduced by as much as 70%**.

[Pipeline Management Engineering Automation Project, Chahoo](#) →

A 3D BIM rendering of a wastewater plant expansion project. The image shows a complex network of pipes, valves, and structural elements in various colors (yellow, orange, blue, green) against a dark background. The rendering is semi-transparent, allowing the background image of the actual plant to be seen. The text is overlaid on a blue diagonal band.

“Large, complex projects progress with fewer issues when you use BIM.”

Paul Heath, Atkins →

ATKINS IMPROVES EFFICIENCY ON MAJOR WASTEWATER PLANT EXPANSION

“Working in 3D became the norm for the team very quickly. We estimate that it has **helped to save hundreds of hours on design alone.**”



Image courtesy of Galliford Try Costain Atkins



BIM LEADS TO SIGNIFICANT TIME AND COST SAVINGS

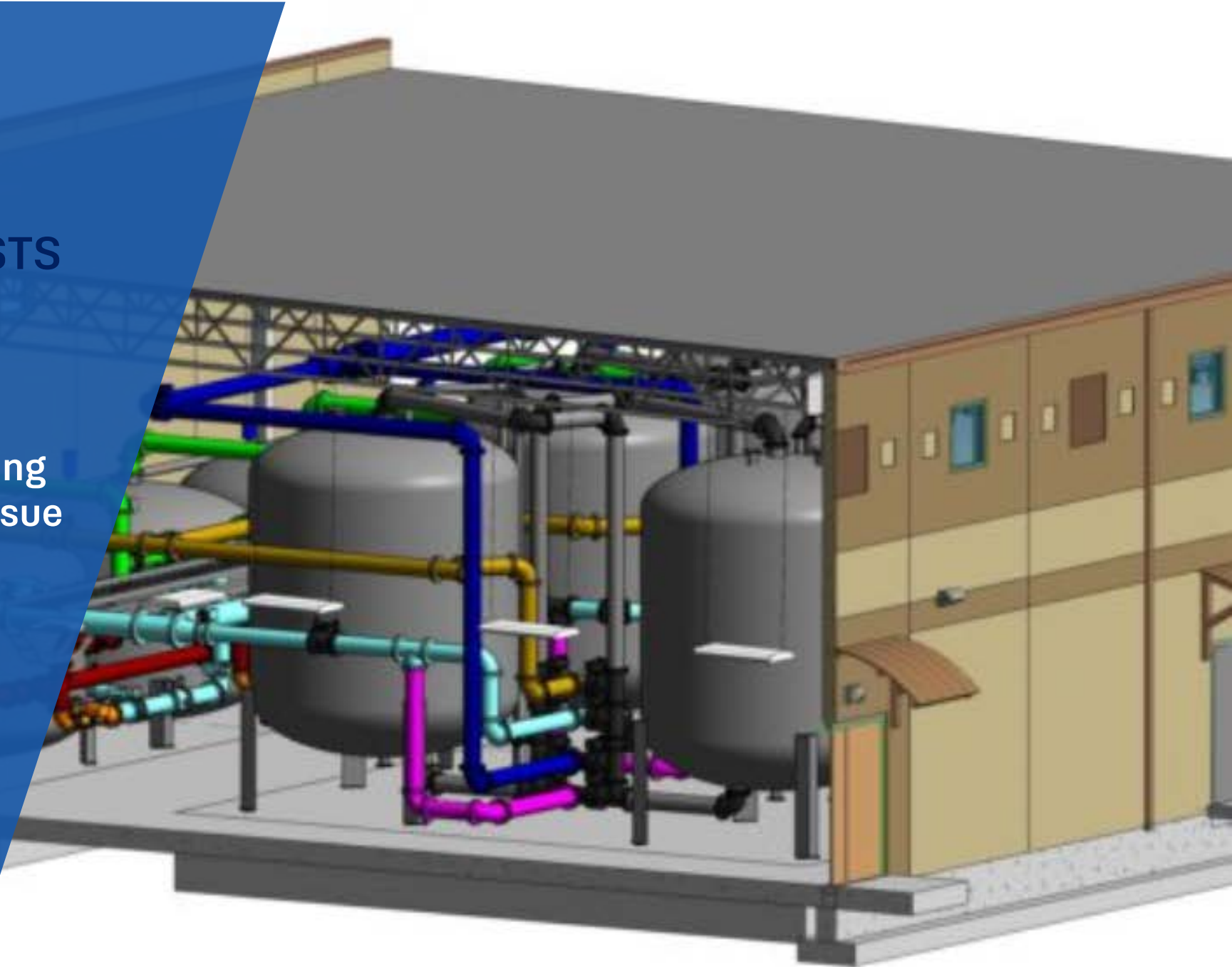
“The model helps us design for improved constructability and more efficient operations and maintenance.”

Matt Lees, Atkins →

BIM HELPS DELIVER IMPROVEMENTS AND COSTS SAVINGS ON WATER TREATMENT PLANT

Revit played a key role in helping
HMM reduce a \$100K design issue
to 1/4 the cost.

[New Jersey American Water Project,](#)
Hatch Mott McDonald



IMPROVE DESIGN & COLLABORATION ON WATER TREATMENT PLANT WITH BIM

Improved coordination between offices and disciplines led to **increased efficiency, saving time and money during design and construction.**

Huntsville Utilities Water Treatment Plant, Tetra Tech



Learn more about Autodesk BIM for Plant design

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