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GLT Prefabricated Solutions：Pioneering new Mechanical Constructions Methods

$\square$he integration of BIM，building engineering，and contemporary construction practices presents significant opportunities for the construction industry
in Europe to minimise expenses，reduce project durations，and enhance the quality of building projects．This convergence allows construction companies to prefabricate building components in advance，optimising the construction process．
Leading this transformation is GLT Delta，which specialises in prefabricating mechanical systems，expediting construction and reducing labour necessities by leveraging state－of－the－art BIM practices．

Through its pioneering construction methodology GLT Delta fabricates prefabricated mechanical systems utilising superior quality materials in a fraction of the time and at considerably lower costs than traditional methods．Employing oint cloud laser scanning，GLT Delta constructs models with millimetre precision by measuring buildings and conducting connection and collision tests to detect and circumvent potential obstacles．The company utilises BIM at LOD 400 enerating accurate models that facilitate the col sems without disturbing
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Each system component is bespoke，designed for individual clients，and manufactured in a factory setting．Pipe systems and metal structures undergo robotic welding，cutting and painting，which leads to reduced material waste and cost savings for clients．
System components are marked with labels and colour corresponding to their positions in the modelled plan， simplifying on－site assembly．Due to prefabrication，only few workers are needed on－site，minimising labour requirements and streamlining the construction process．Upon assembly completion，GLT Delta conducts regular maintenance and suarantees prompt systems repairs in case of malfunctions， irrespective of warranty status

We are transforming the vision of our clients into project every day and executing it with precision，from beginning to end，＂says András Cserkúthy，CEO of GLT Delta．
The construction process is digitalised，enabling worker to access BIMs via a cloud platform on mobile devices， accelerating construction．This platform allows clients to monitor their projects＇progress and remotely inspec

oded to represent the project＇s completion level，offering a comprehensive understanding of updates．

A case study showcasing GLT Delta＇s service competence A collabortion with Ge berital The proct lanning prefabieting and 7 MW ooling ystem comprising approximately 27,000 distinct parts and a ne－kilometre pipe．Initially the construction time scheduled for comptive in in seven weeks on the construction site．

GLT Delta＇is ar － 1 d f exp．Its extensive geographical proficiency and 30 yea humerous satisfied cli

Ulimately，GLT Delta＇s offerings revolutionise the dustry by streamlining construction processes．The company educes labour demands，simplifes system assembly，and ost－effective and efficient services will persist in serving Europe＇s construction sector for years to come．If

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The annual listing of 10 companies in Europe that are at the forefront of providing Building Information Modeling services and impacting the marketplace

