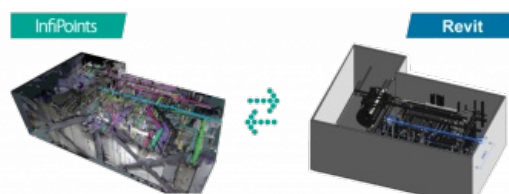# InfiPoints 6.0: Modelling Directly from Laser Scans to Autodesk Revit

Elysium has developed an advanced functionality to model piping and structures from 3D laser scanned point clouds into Autodesk Revit. This new capability is included in Elysium's point cloud utilization software, InfiPoints 6.0, which has been release on 30 September.

The new feature allows Revit users to reduce their modelling time significantly. There is no need any more to create models of existing facilities from scratch. Furthermore, the CAD data extracted from point cloud data in InfiPoints is automatically imported into Revit to add finishing touches.

Lidar technology

Industry pioneers and some service providers have recently begun employing 3D laser scanners – also known as Lidar technology – to capture the on-site environment more completely and accurately. But subsequent modelling of the environment without the right point cloud software can be labor intensive and time consuming.

InfiPoints can automatically extract pipes and planes from point cloud data captured from 3D laser scanners. Users can then create CAD models with a few simple mouse operations.

3D data utilization

In the new 6.0 version, the InfiPoints Revit Plug-in enables the direct connection of this advanced point cloud solution to Revit users. InfiPoints exports the CAD geometry extracted from the point cloud parametrically, which enables flexible editing of the extracted model. Non-geometrical information such as piping standards and attributes is also delivered to Revit, adding value to communication with contractors for maintenance and construction.

"Revit has been a de facto standard BIM software throughout the world," states Atsuto Soma, CTO of Elysium. "We believe that the newest feature will spur greater adoption of Elysium's 3D data utilization technology to BIM modellers globally and contribute to streamlining workflows in the MEP industry."

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