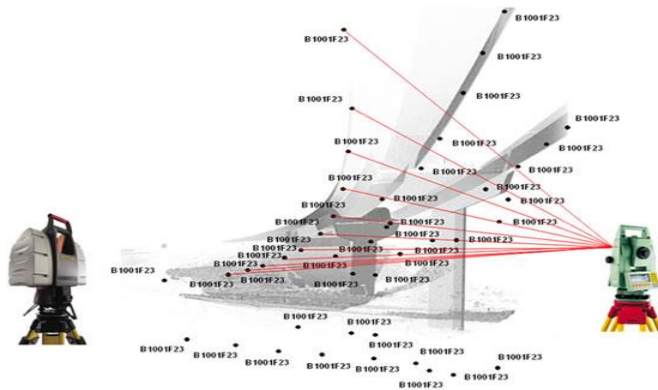
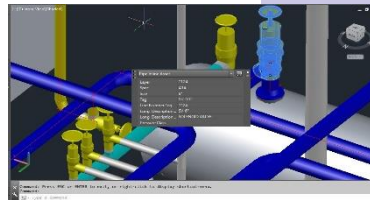
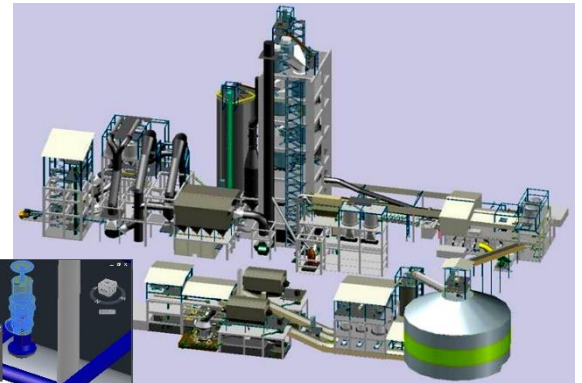


# Laser scanning & 3D modelling

Looking for high precision, as build 3D model of your plant/asset?

Go for laser scanning. You get high accuracy, 3D, portable models. Typical uses are –

- High accuracy documentation of assets.
- Accurate representation of brown field plants
- Overview training, safety trainings
- Important link to asset management systems.



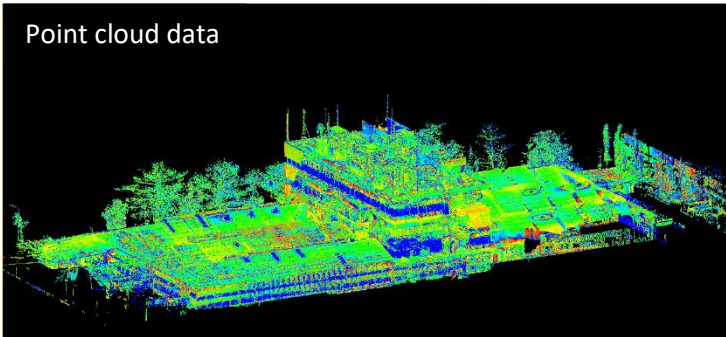
What is laser scanning & 3D modelling?

Intrinsic safe, high precision laser scanners are used to scan surroundings.

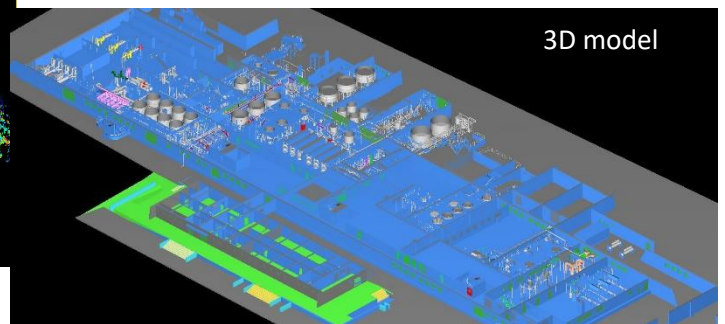
These scans are then “stitched” together to get a combined point cloud data.

This data is used to build 3D models of the facility. Models are imported into any design software like autocad, PDMS, Cadworks, etc for further use.

Point cloud data

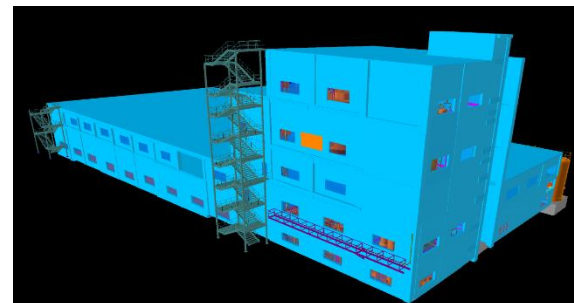


3D model



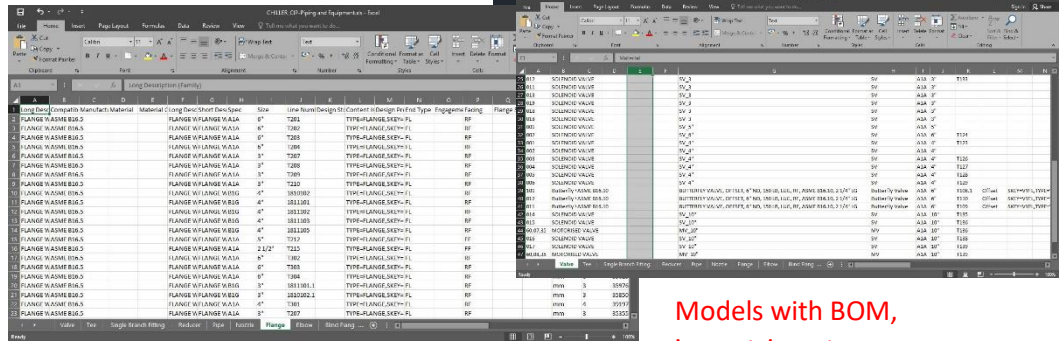
What type of models?

- Non-intelligent models –  
 These give GA drawings of plant / site, 3D surface models & Dimensional details.  
 These are used for facility familiarization / overview training, walk through, etc.  
 Extensively used in architectural, heritage site scanning, plant overview, etc.



# Laser scanning & 3D modelling

- b) Intelligent models –  
 The output is – Equipment GA drawings, layouts, elevation drawings, 3D model, piping layout, piping isometric, tie-in, piping specifications, Bill of material, etc.  
 These models can be used for discrete and realtime simulation & further linked to asset management software.



Models with BOM, isometrics, etc.

### Value addition

- As-built models of existing plants, heritage sites, infrastructure projects.
- Overview trainings, field operators trainings, competency programs.
- An important milestone in asset management programs
- Vendor trainings before issuing PTW

- Save costly engineering resources,
- Save time,
- Accurate models,
- Accurate documentation
- Asset monitoring
- Trainings & competency
- Multiple uses.....

Contact us for your Laser scanning & 3D modelling needs

<p><b>Contact</b>                  RD industrial solutions pvt ltd.                  ( A subsidiary of Ennovate Software Consulting)                  Flat no 5, Puroshattam apartment, lane no 3 of                  Bhandarkar road, Pune - 411004                  India  <a href="http://www.ennovateindia.com">www.ennovateindia.com</a></p>	<p><b>Authorized representative</b></p>
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