## **Shipbuilding Dimensional Control Software**



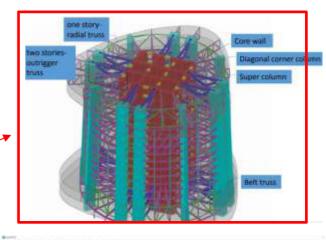


### **China Shanghai Tower**

- World's 2<sup>nd</sup> highest building with the shape of Dragon ascending into Sky
- To express atypical building structures, accuracy control of internal steel module and Joint between modules were critical
- SAMIN provided tools for all accuracy verification needs

#### Shangahai Tower Structure Component





Colum Location

## **Shipbuilding Dimensional Control Software**

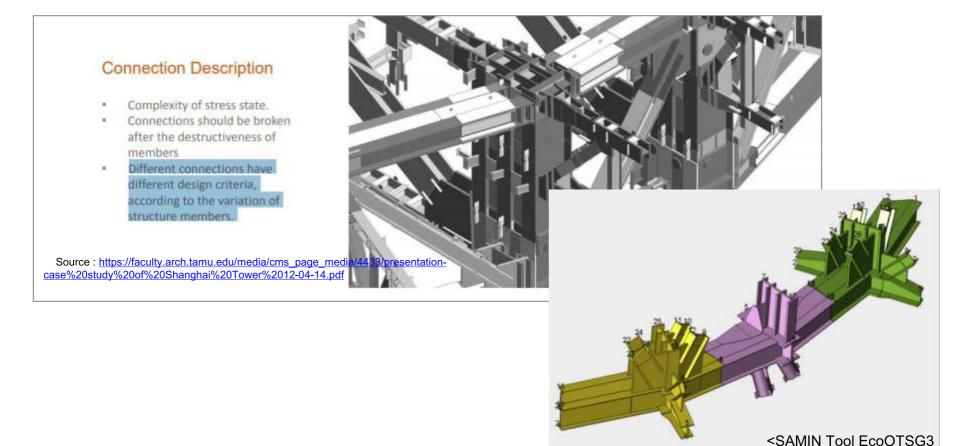


Black Number=As-Built Measurement Point>



#### **China Shanghai Tower**

- Many Joints exists with different axis standard, requiring for 'Relational' Dimensional Control in consideration from Module Fabrication to Joint Connection
- SAMIN Tool provided different axis based dimension quality check and hook-up simulation



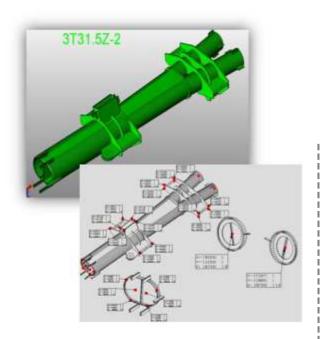
# **Shipbuilding Dimensional Control Software**





### **China Shanghai Tower Dimensional Control Work Process**

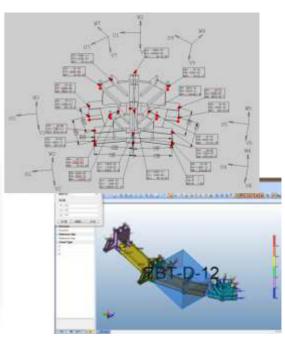
### Check Sheet Measurement Analysis/Simulation



- Import 3D Model.
- Create Control Point.
- Make a check sheet.



Measure each point based on the check sheet.



- Error analysis using different angle orientation
- Installation Simulation using different angle orientation