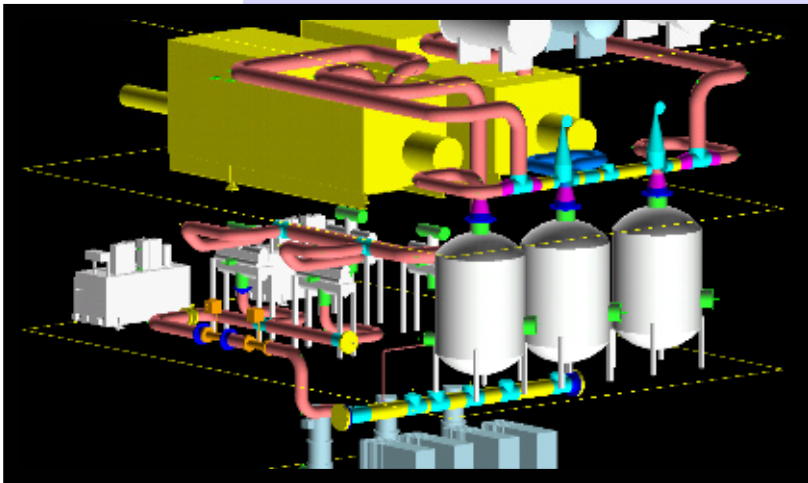




# Structures / Piping / Equipment Design and Configuration for Offshore Platforms

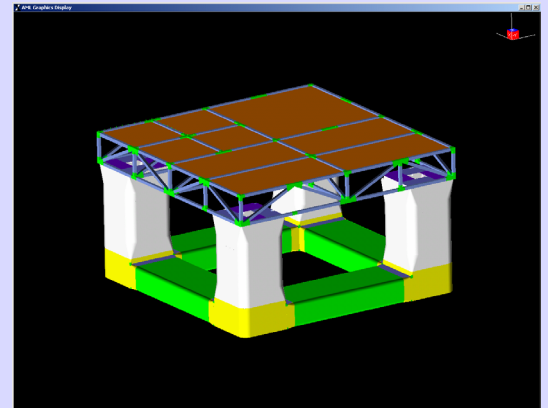
In collaboration with strategic partners from the oil and gas processing industry, TechnoSoft, Inc. has developed a knowledge-based engineering software framework to improve product quality while minimizing engineering time and cost. This enables re-use and automation in development projects for tailor-made facilities. Based on the platform independent, web-enabled and distributed open architecture of the Adaptive Modeling Language (AML), this framework provides the following capabilities:

- Product generation based on design and fabrication knowledge that capitalizes on industry standard rules and specifications determining the relationships between attributes of objects in the model



- Automated parametric relationships between attributes in the model capturing and propagating dependencies as required
- Automated regeneration of affected geometry, data tables, drawings and production plans upon demand of the user or model
- An efficient environment for the definition of product configurations with deck and truss planes that form the top level of a multidisciplinary model

- Automated detailing capabilities of beams and connection nodes of main structures, as well as load bearing structural decks and bulkheads of secondary structures



- Fully parameterized equipment and the ability to import equipment from a library based on XML standards
- Efficient relational positioning functionalities that yield placement of equipment and components by exercising embedded two-way logical and physical connections to piping systems
- Piping space management and layout that uses automated pipeline routing inside corridors based on design knowledge and industry standards
- The ability to select components and fittings from piping libraries

