Case Study – Mechanical Design Aerospace – Floor Beam Analysis
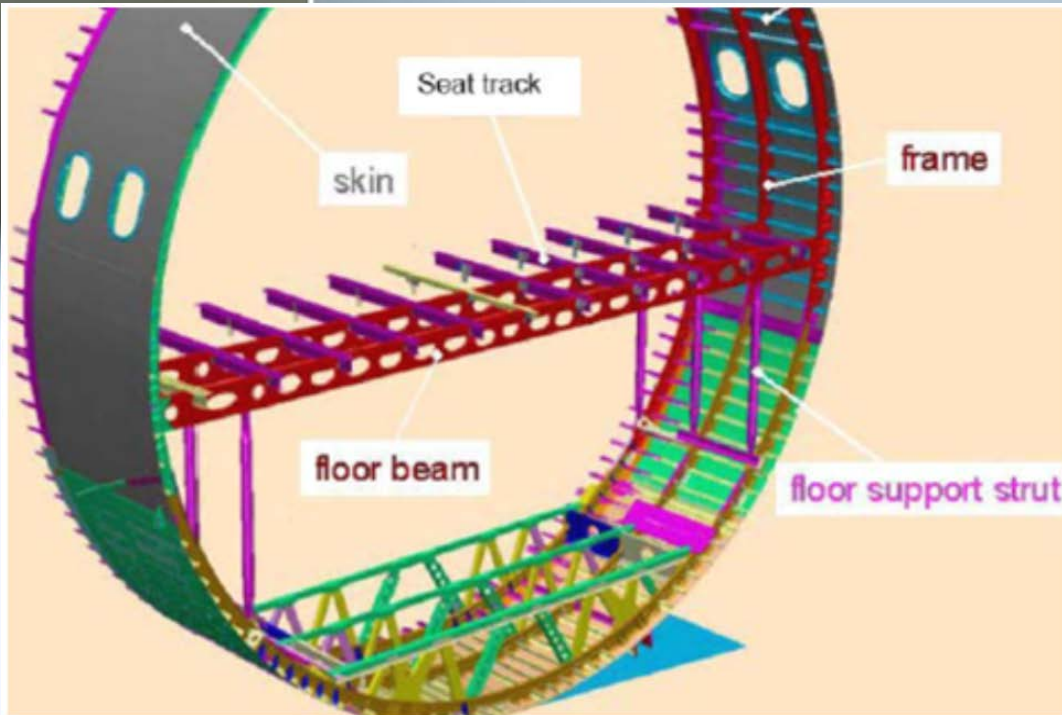

Floor beam Analysis of a commercial Aircraft for a leading Aircraft OEM	
Geometry Extraction	Floor beam has been divided in to **number of bays** and geometry corresponding to all the components are extracted
Load extraction	Loads are extracted from **Global FE** model using **FEDAMS** at the Floor Beam middle nodes and **critical loads** are identified.
Beam Identification	**Shear Resistant (SR)** or **Intermediate Diagonal Tension (IDT)**. Calculation of Critical Shear, bending and compression buckling stress and Identification **of IDT factor "K"**

Engineer the future