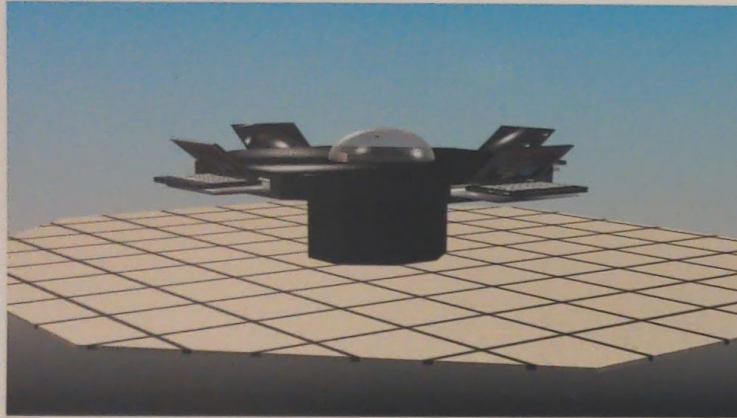




Dual Degree
Engineering Dept.

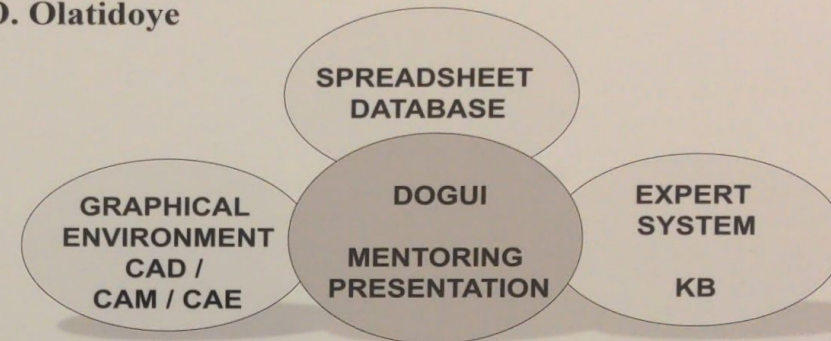
DESIGN ORIENTED INTELLIGENT SYSTEM ENVIRONMENT (DOISE)

Dr. O. Olatidoye

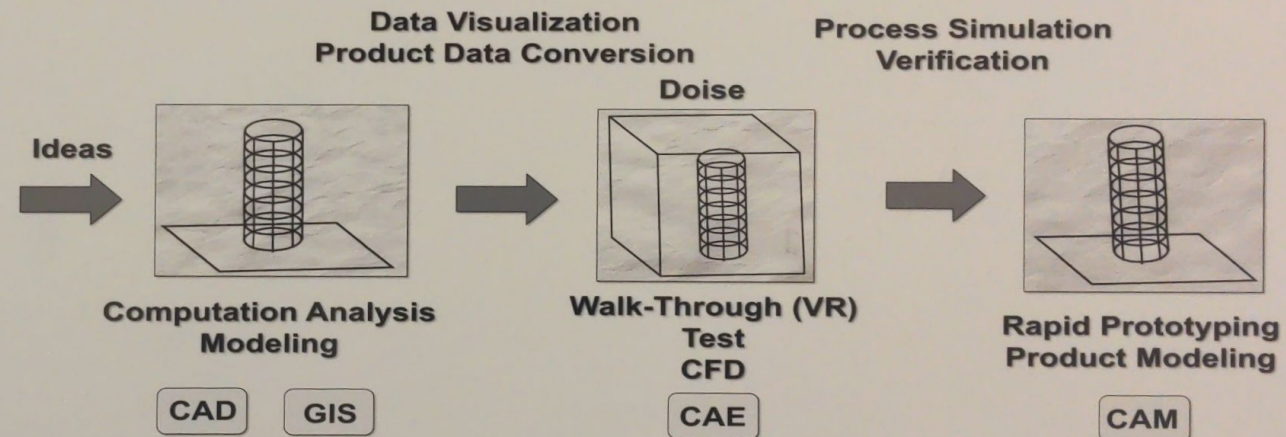


Functional Components

- Modeler (CAD / CAM / GIS)
- Analyzer (CAE)
 - Conduct engineering studies (FEM, Shape Optimization etc.)
- Simulation (VR)
 - Allows the study of system behavior in real-time
- Expert System (COACH)
 - Maintain and modify the design
 - Rule based design decision making assistance
- Design Engine
 - Central control of the overall system
- Data Exchange (PDCSF)
 - Allows smooth transfer of data among the different components / storage
- Graphical User Interface (VR)
 - Provide intuitive, friendly, interface for the human operator



DOISE PROCESSES



DOGUI COMPONENT INTERACTIONS

