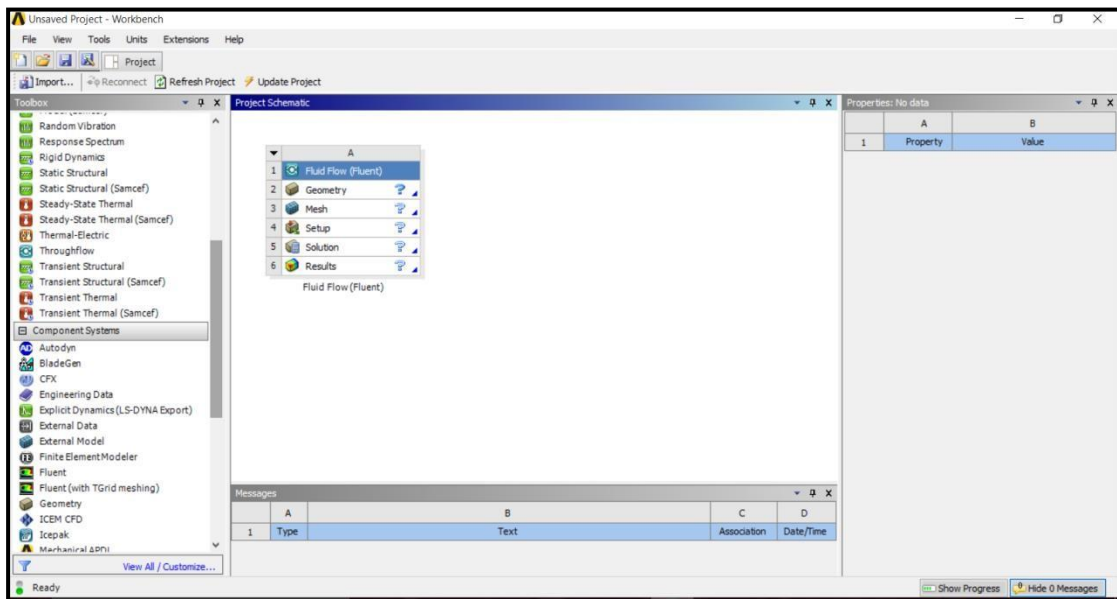




## Chapter 1

### 1- Define of ANSYS Workbench:

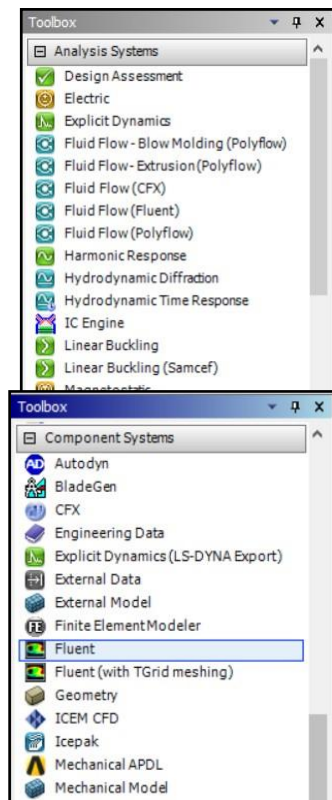
It is a project-management tool. It can be considered as the top-level interface linking all our software tools. Workbench handles the passing of data between ANSYS Geometry / Mesh / Solver / Postprocessing tools. This greatly helps project management.



### 2- Toolbox

**2-1 Analysis Systems** are ready made stencils that include all the individual systems (applications) needed for common analyses (for example Geometry + Mesh + Solver+ Post-Processor).

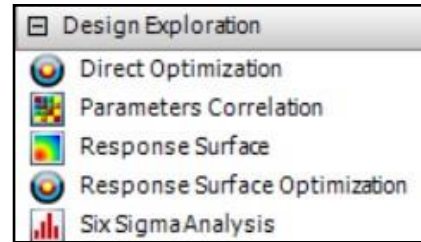
**2-2 Component Systems** are the individual building blocks for each stage of the analysis.





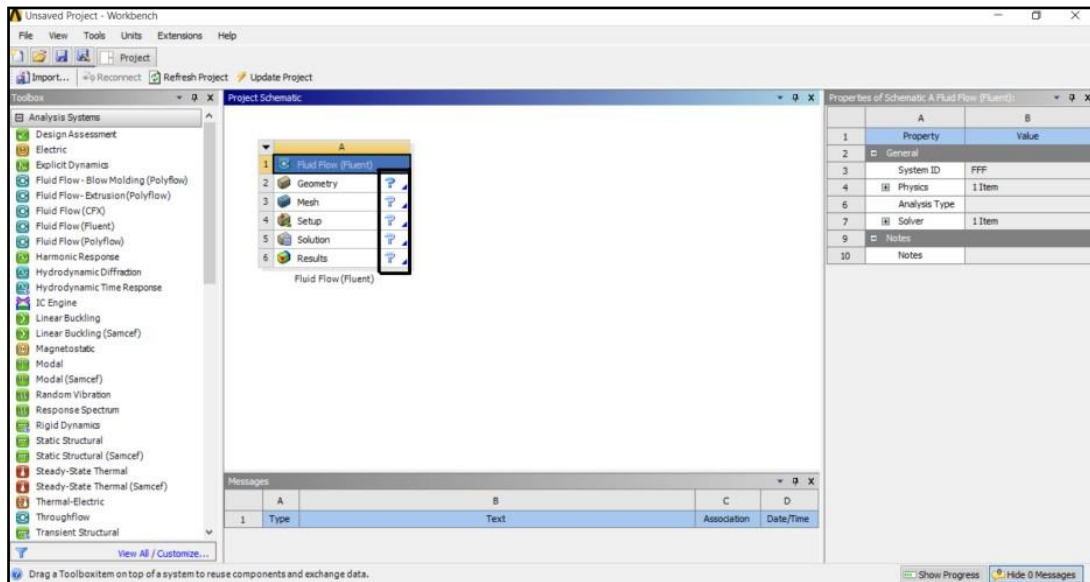
## 2-3 Design Exploration

It provides tools for optimizing designs and understanding the parametric response.



## 3- Dragging an Analysis System

On the Project Schematic, a workflow is laid out, comprising all the steps needed for a typical analysis. The workflow is from top to bottom. As each stage is complete, the icon at the right-hand side changes.



However, an analysis could equally well be prepared by selecting the individual Component Systems that are needed for this analysis, and then linking them together with connectors.

**TIP:** There are two ways to create the connectors between the systems:

- 1) Use the mouse to draw a line (e.g. A2 to B2, B3 to C2 etc).
- 2) Or, simply drop the new system on the cell of the upstream one and the link will be generated automatically.

