

ENGINEERING AS EXPERIMENTATION

- Engineering involves development of product or project, and as a whole it can be considered as an experiment.
- To manufacture a product, or to provide a project, we have to go through some iterative steps. Like
 - several assumptions and trials.
 - Design and redesign. Etc....

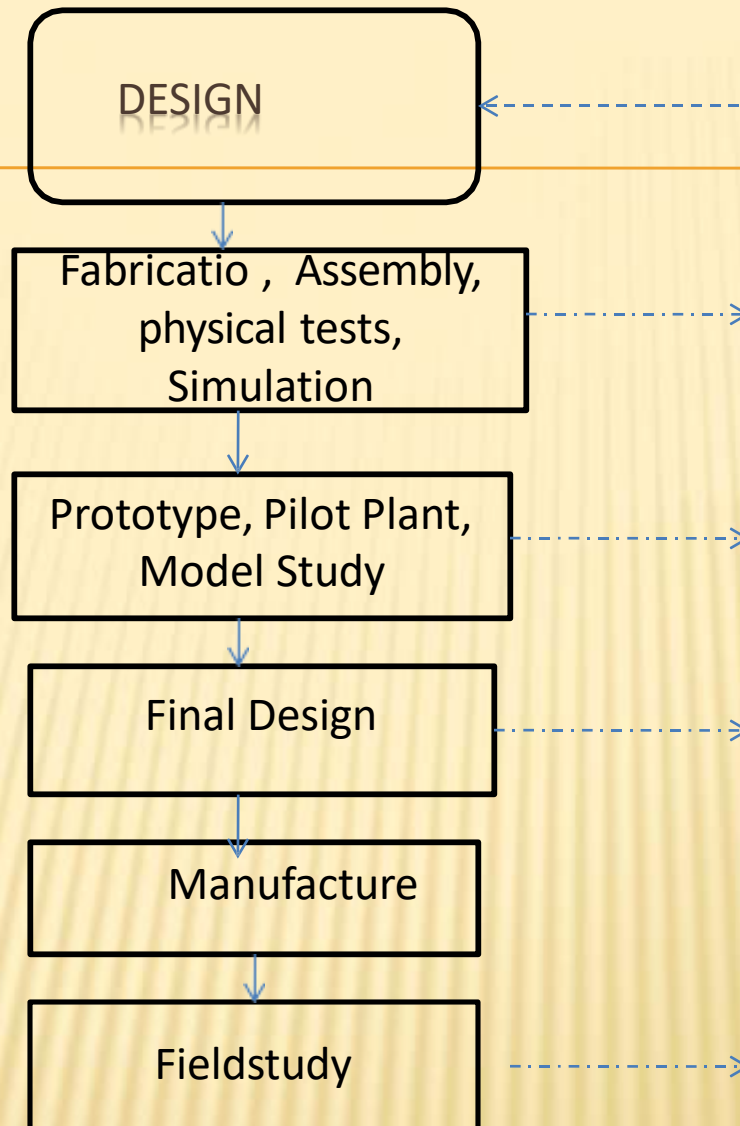


Fig1. Design as an interactive process

Engineering Project Vs Standard Experiments

Lets identify the similarities and contrasts

Similarities

- Partial ignorance
- Uncertainty
- Continuous monitoring
- Learning from the past

CONTRASTS

The scientific experiments in the laboratory and the engineering experiment in the field exhibit ever contrasts as given below...

- Experimental control
- Humane touch
- Informed consent
- Knowledge gained