Why modeling? What is its importance

① Analysis the Problem domain

— simplify reality
— Capture requirements
— visualize the system in its entirety
— specify the structure/ behaviour of the system

① Design the solution.

Principles of modeling

choose your model well — The choice of model Profoundly impacts the analysis of problem & the design sol.

Every Model may be expressed at different level of Precision: — The same model can be Scaled up (or down) to different granularites.

) The best model are conneted to reality: simplify the model, but don't hide important details.

No single model is sufficient: — a set models is needed to solve any non trival system.