

CHAPTER 1 - Model Building

• What is Operations Research?

↳ First official use initiated by England during WW II
↳ used to assess the best use of war materials based on scientific principles rather than ad hoc rules.

- Today, the methods are adopted to civilian life.
 - ↳ Queuing, Scheduling models (General logistics)
 - ↳ Inventory or Budgeting models
 - ↳ Blending / Refining models

• The type of model dictates the solution methods.

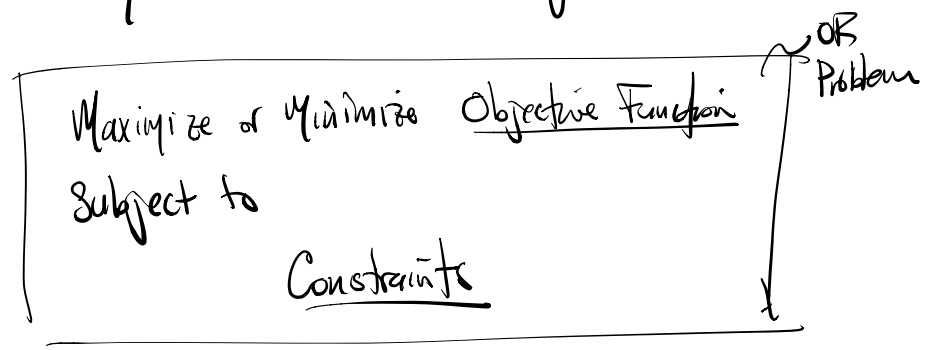
↳ Most Important (Difficult) Part:

Defining the problem correctly!

ie. Formulating the mathematical model. (LP)

• We'll be dealing mostly with Linear Programming Problems.

• Every OR problem has the general structure:



[WS] #1-2 work on basic OR problems, introduce terminology.