

# Transportation

Solve the following optimization problem

There are  $i$  factories and  $j$  demand points. The question is how to produce and transport the goods from factory to the demand points.

$$\min_x \sum_{i,j} x_{i,j} D_{i,j} + \sum_{i,j} c_i x_{i,j}$$

$$\forall i \quad S_i^{\min} \leq \sum_j x_{i,j} \leq S_i^{\max}$$

$$\forall j \quad \sum_i x_{i,j} \geq Demand_j$$

