CORK INSTITUTE OF TECHNOLOGY
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Computing@CIT

DECISION ANALYTICS.

Lab10: Transportation problem

BACKGROUND.

In this exercise you will implement a transportation problem model as linear program.

Task 1.

Let's assume there are two energy suppliers connected to the grid delivering the following amount of energy

	Supply
Supplier A	6
Supplier B	9

This energy is to meet the consumer demand as follows

	Demand
Consumer A	8
Consumer B	5
Consumer C	2

Let's further assume the DSO of the electricity grid charges the following transmission fees

	Consumer A	**Consumer B**	**Consumer C**
Supplier A	**5**	**5**	**3**
Supplier B	**6**	**4**	**1**

Define a linear program that optimises the transmission costs between energy suppliers and consumers and determine the optimal energy mix for each consumer.