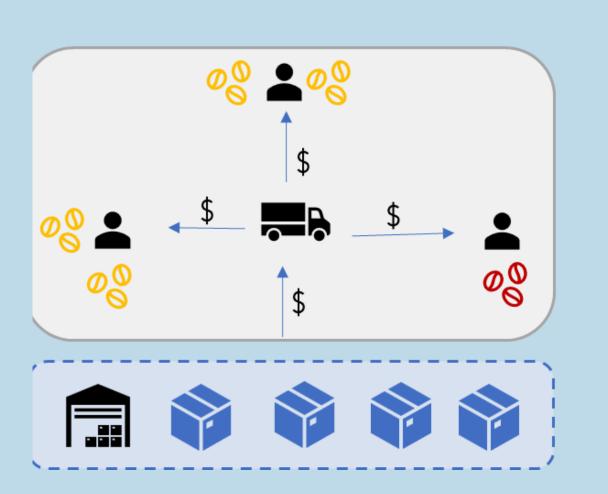
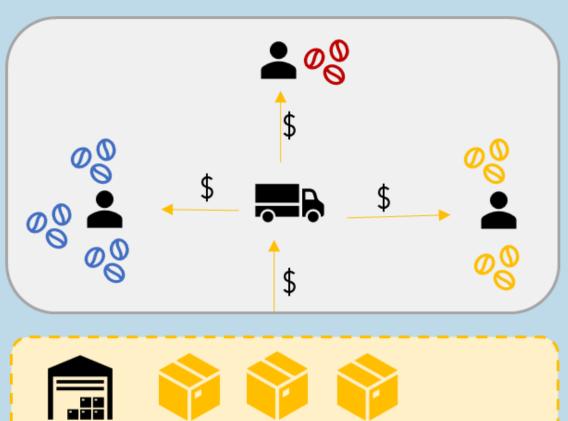
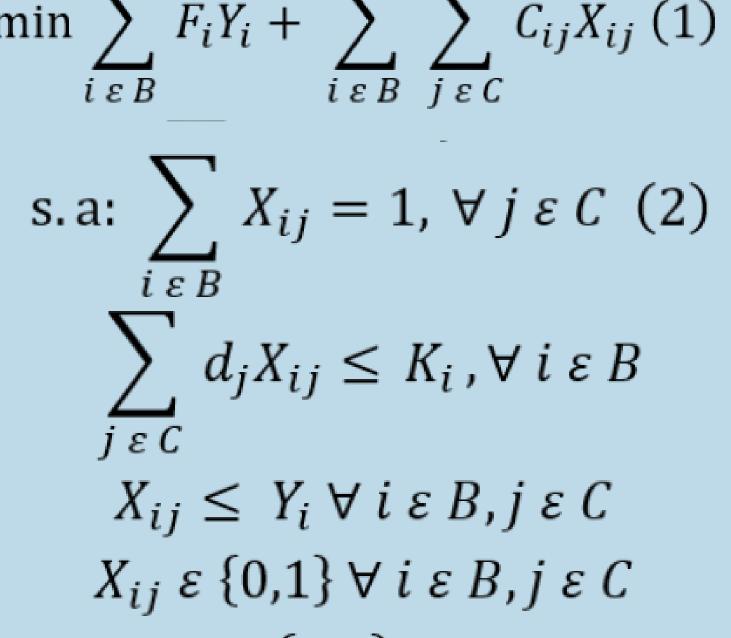
# OPTIMIZING DISTRIBUTIONS NETWORKS FOR OPTICOFFEE SOLVING LOGISTICAL CHALLENGES WITH OPTIMIZATION AND SIMULATION

## PROBLEM DESCRIPTION

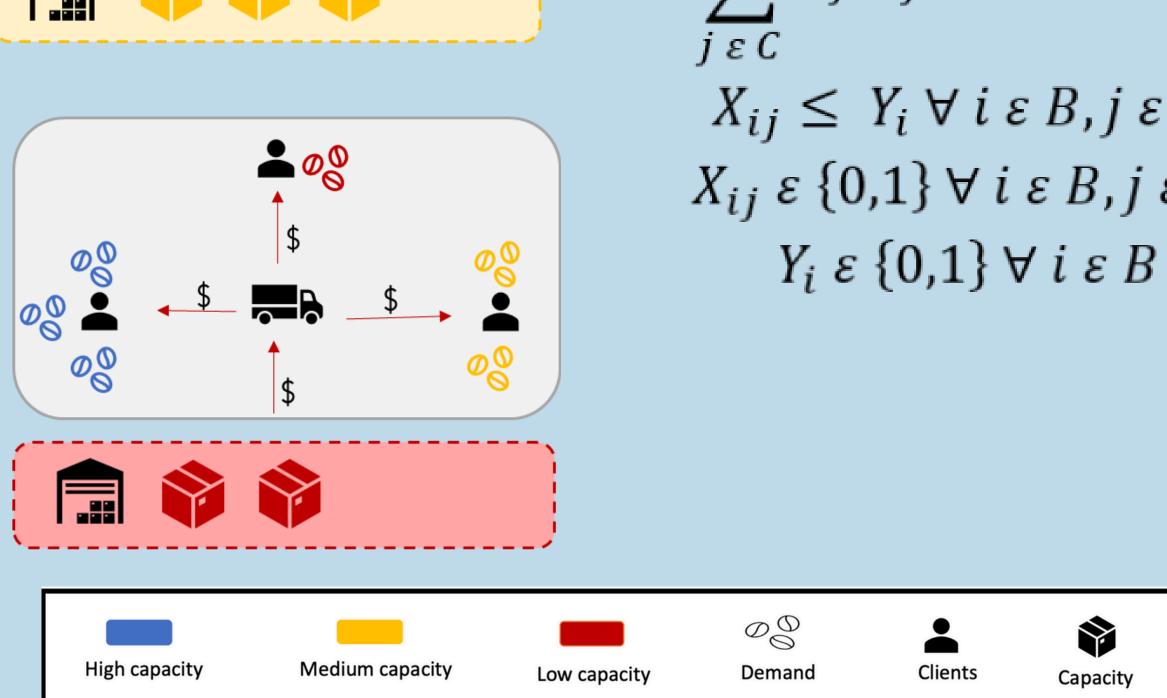
OptiCoffee is looking to expand its operations in Bogotá and needs to choose the right warehouses for storing and transporting coffee. The goal is to achieve a profitable expansion that meets customer demand and ensures warehouse capacity.



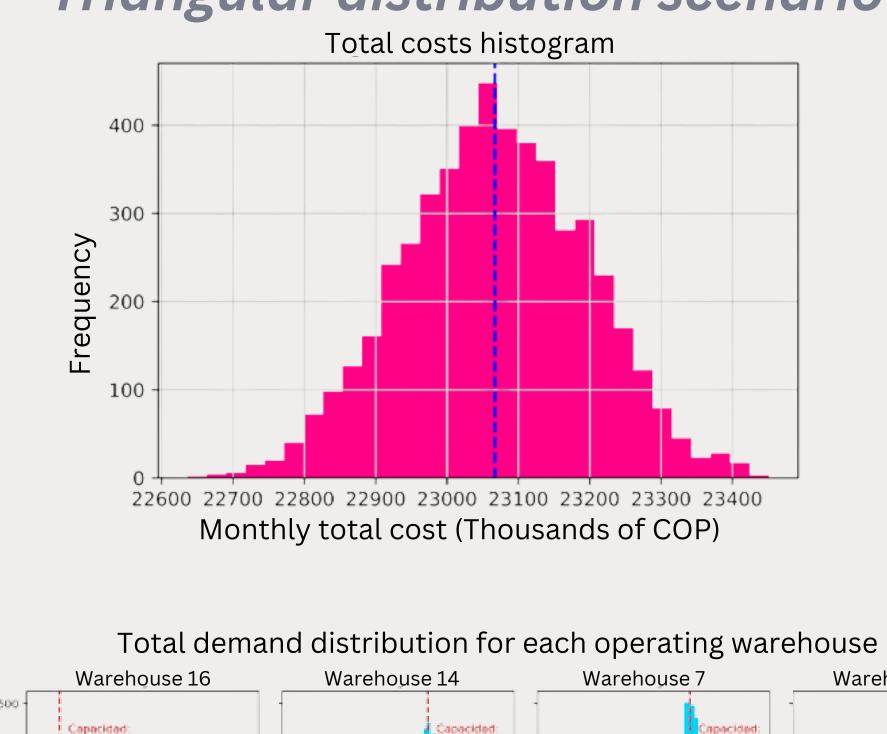


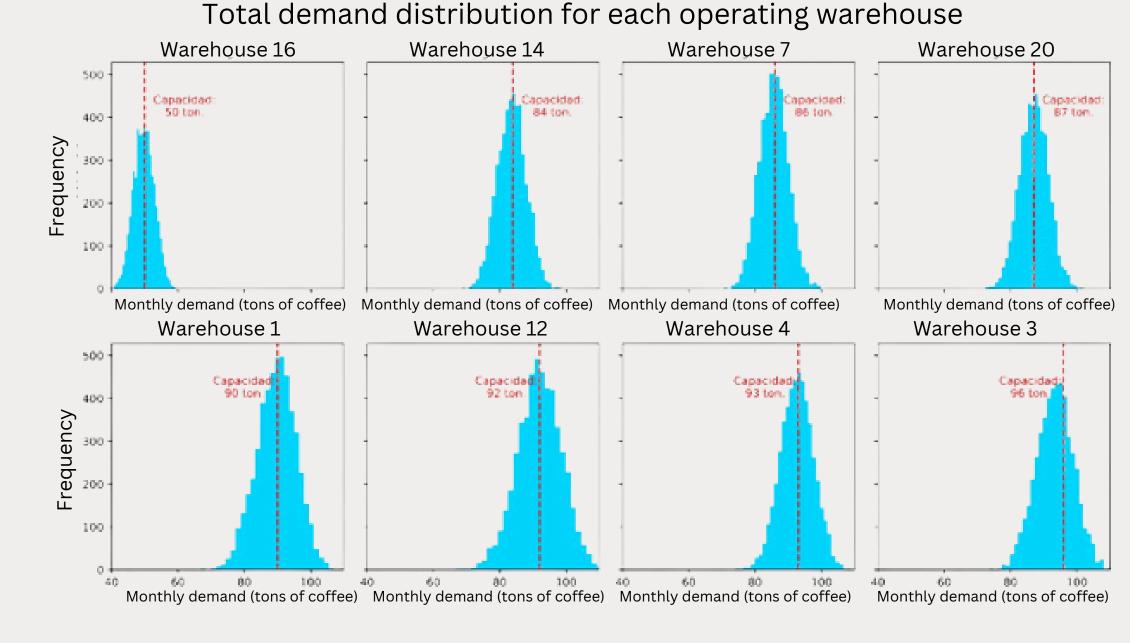


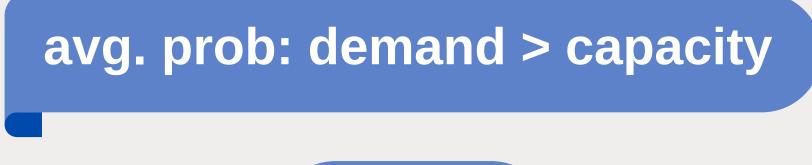
Capacity



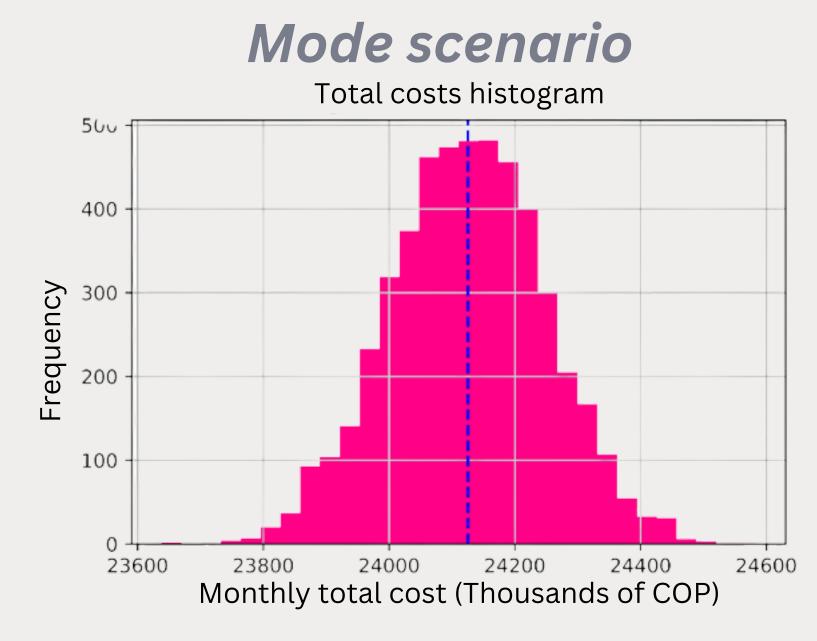
# RESULTS Triangular distribution scenario

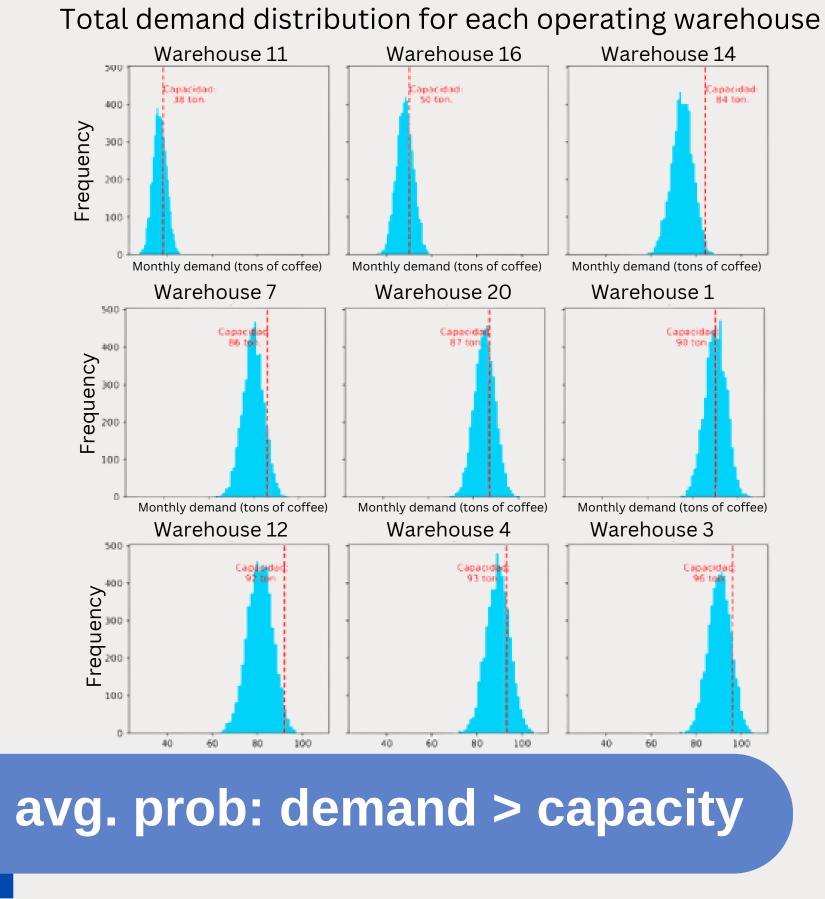






46.16%





21.97%

### CONCLUSION

When estimating demand using the expected value, the cost and probability of meeting demand are low. However, when estimating demand using the mode (the most frequently requested value), the cost is higher, but the probability of meeting demand increases.

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