



IIT ROORKEE



NPTEL ONLINE
CERTIFICATION COURSE

SUPPLY CHAIN ANALYTICS

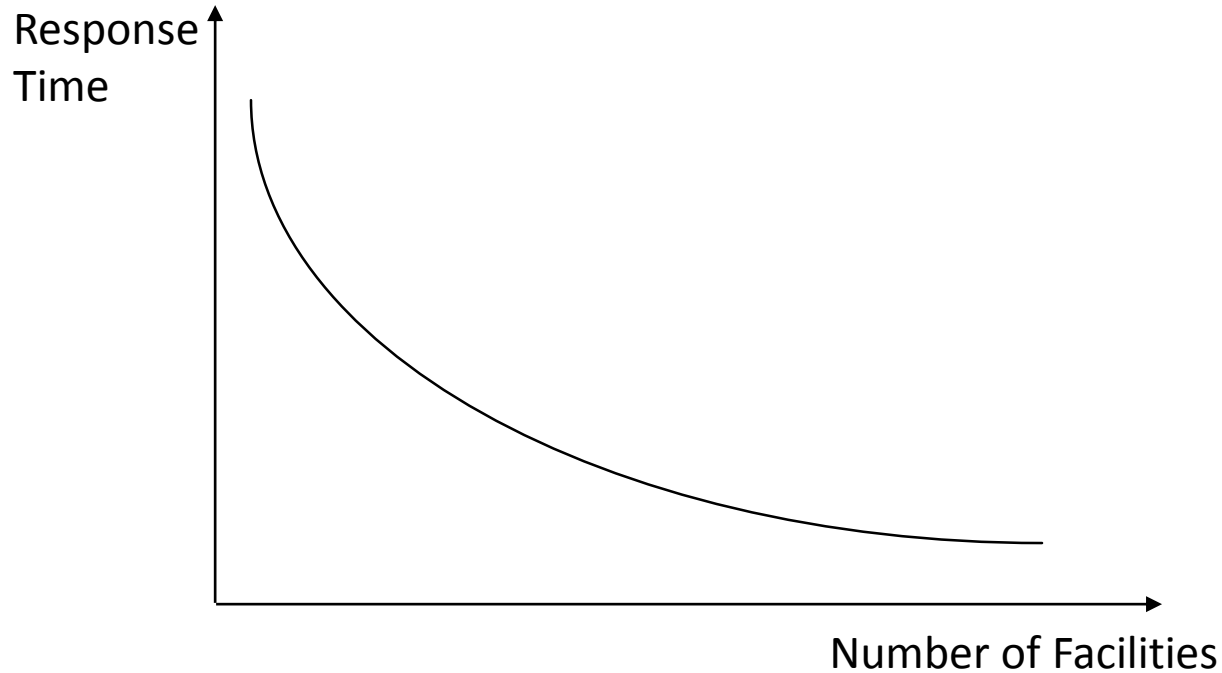
Network Design of Global Supply Chain

Dr Rajat Agrawal

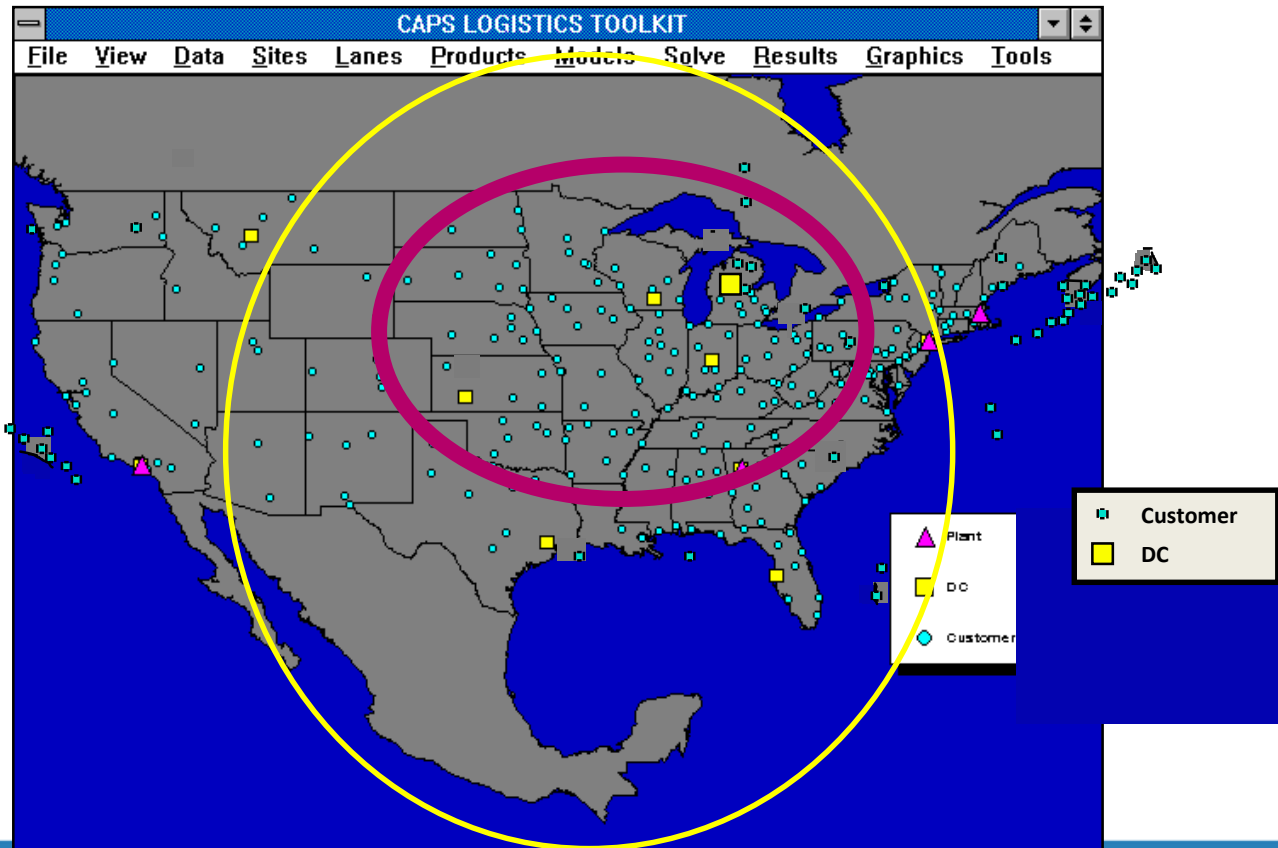
Department of Management Studies



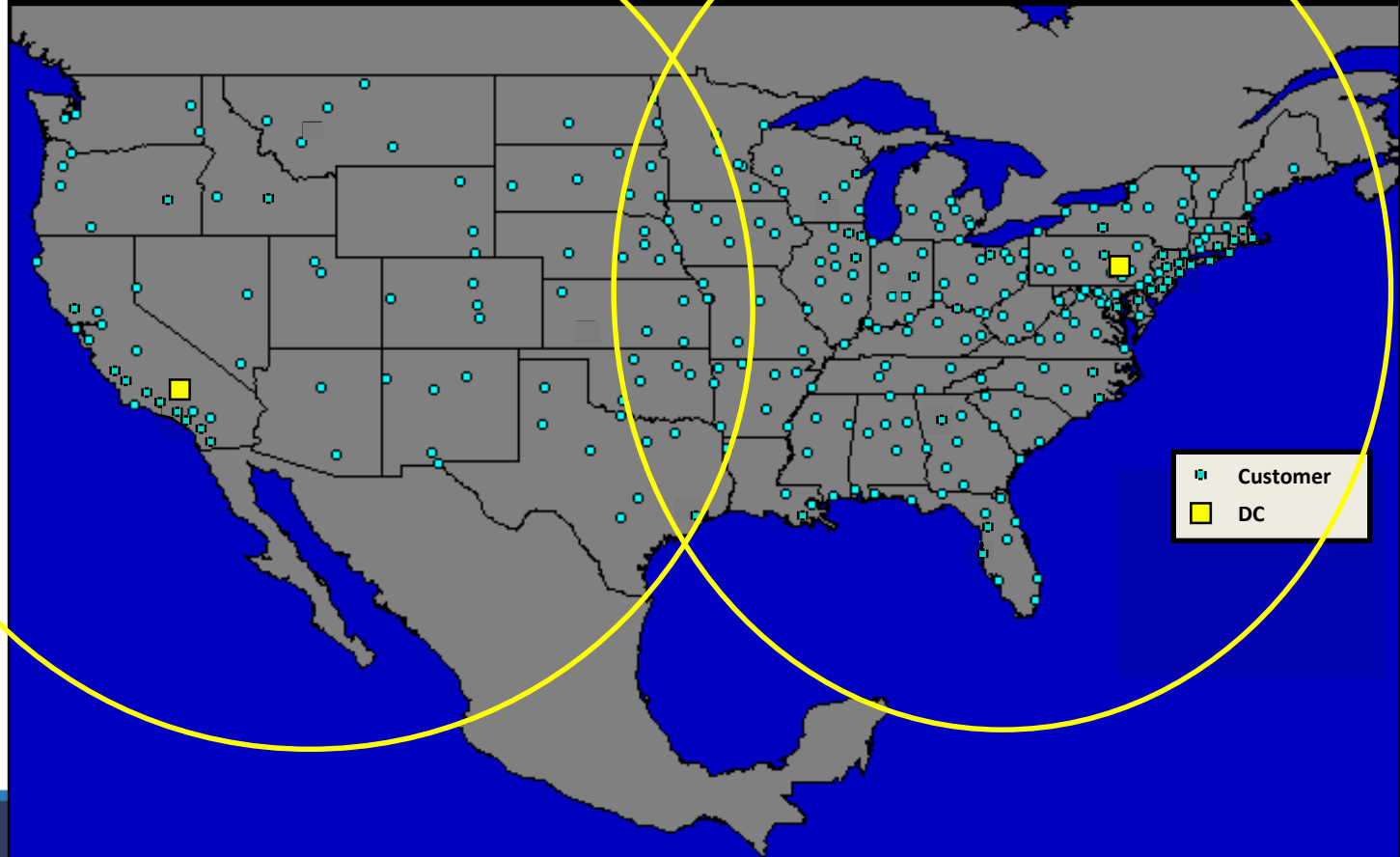
Service and Number of Facilities



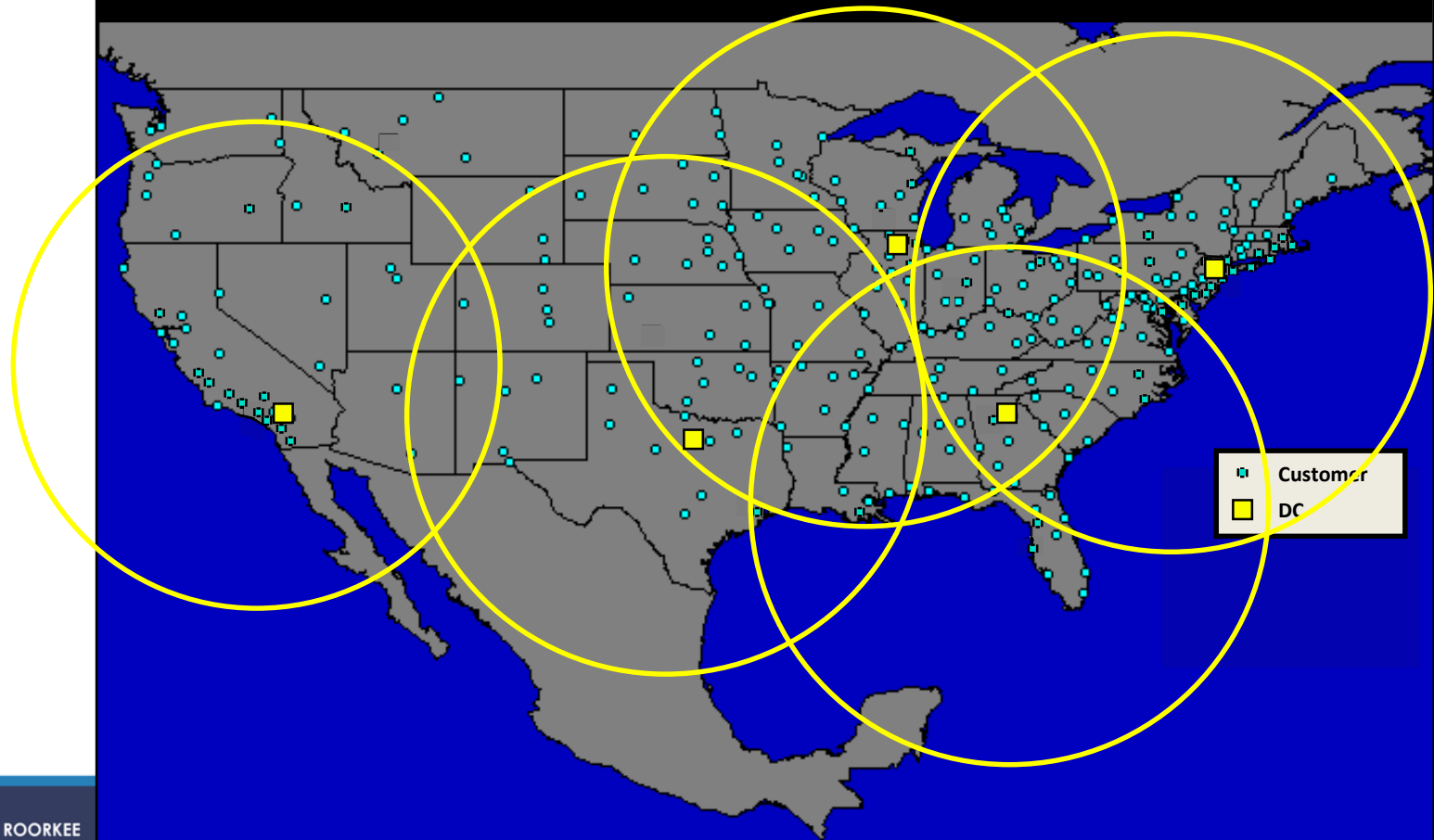
Where inventory needs to be for a one week order response time - typical results --> 1 DC



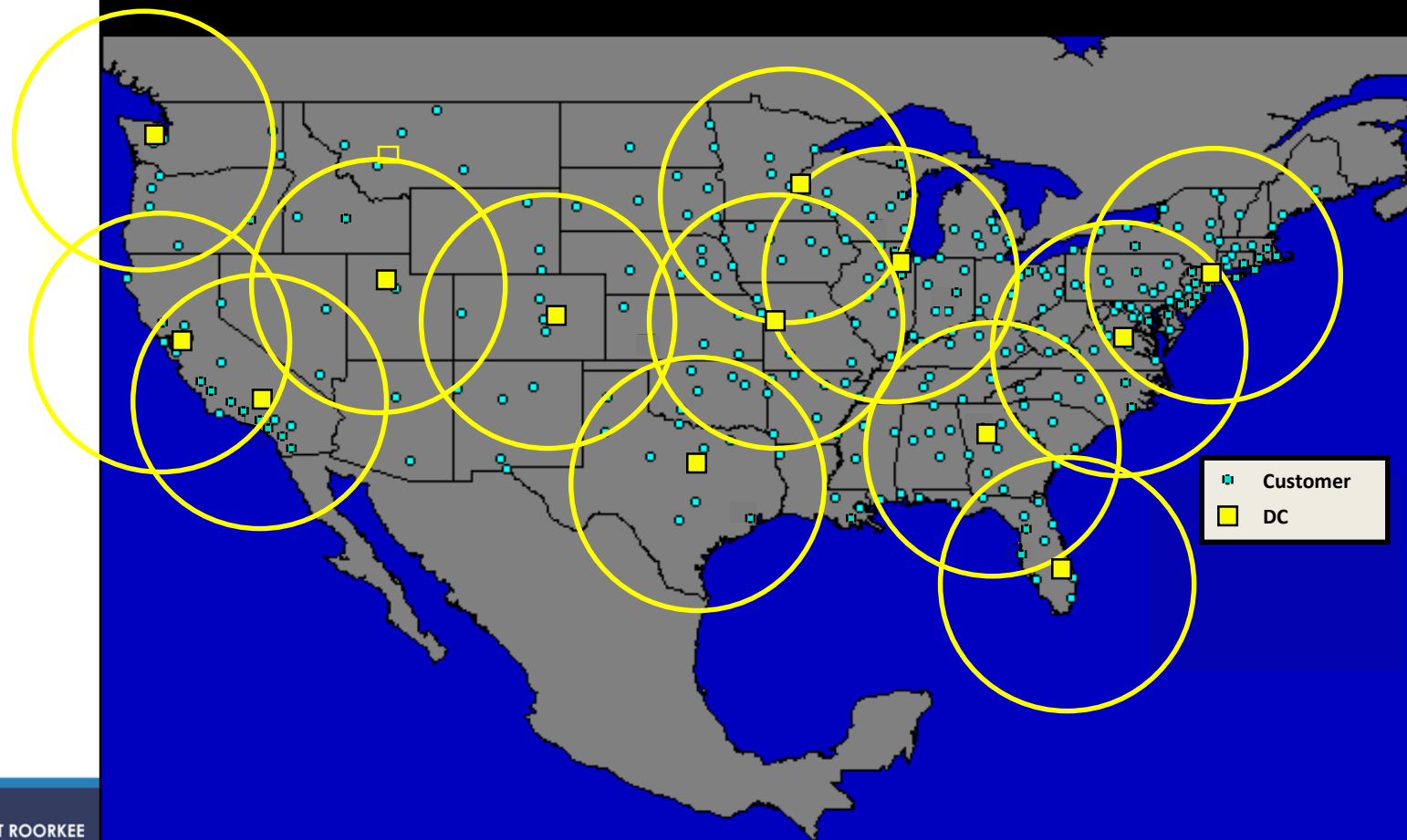
Where inventory needs to be for a 5 day order response time - typical results - > 2 DCs



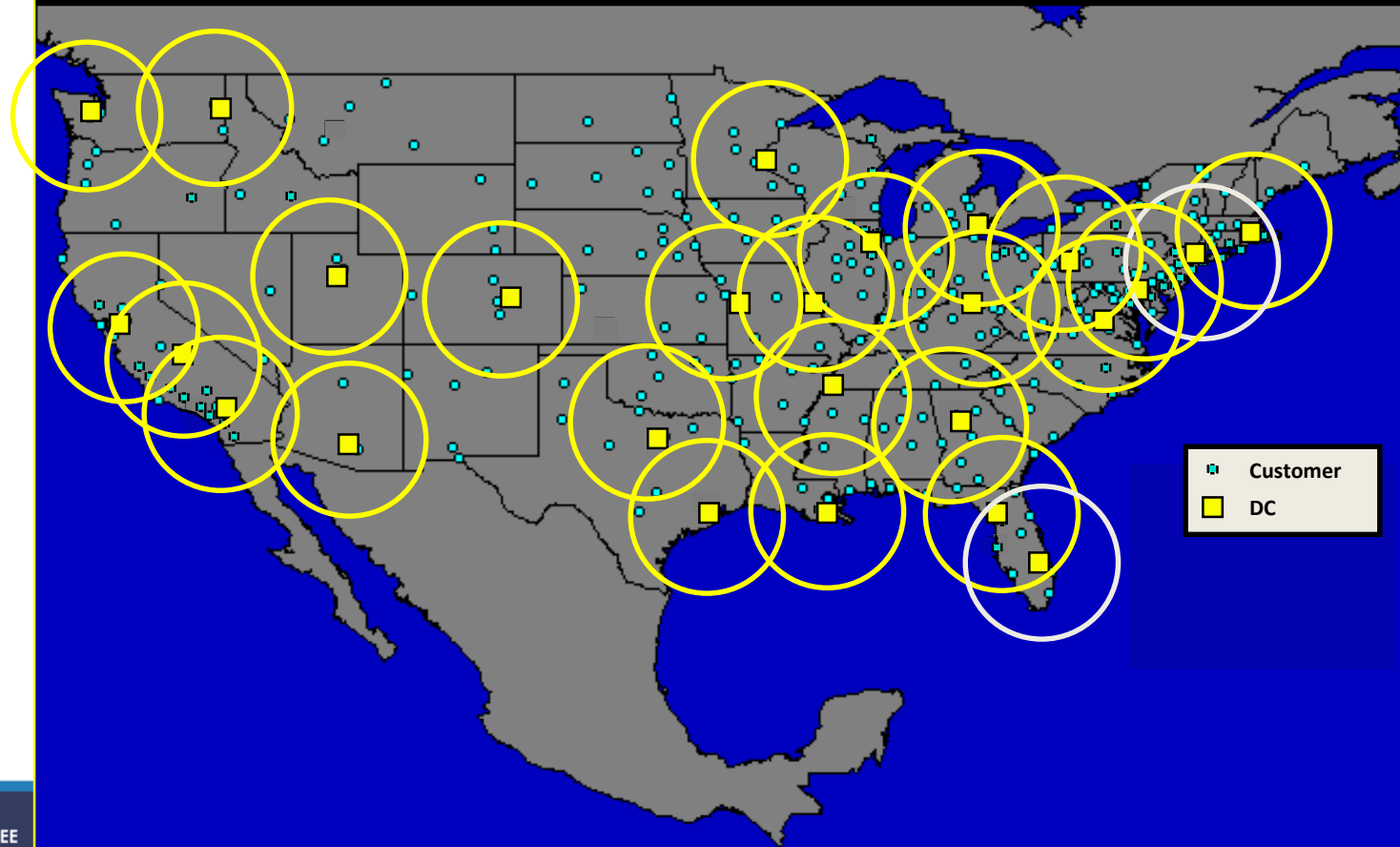
Where inventory needs to be for a 3 day order response time - typical results --> 5 DCs



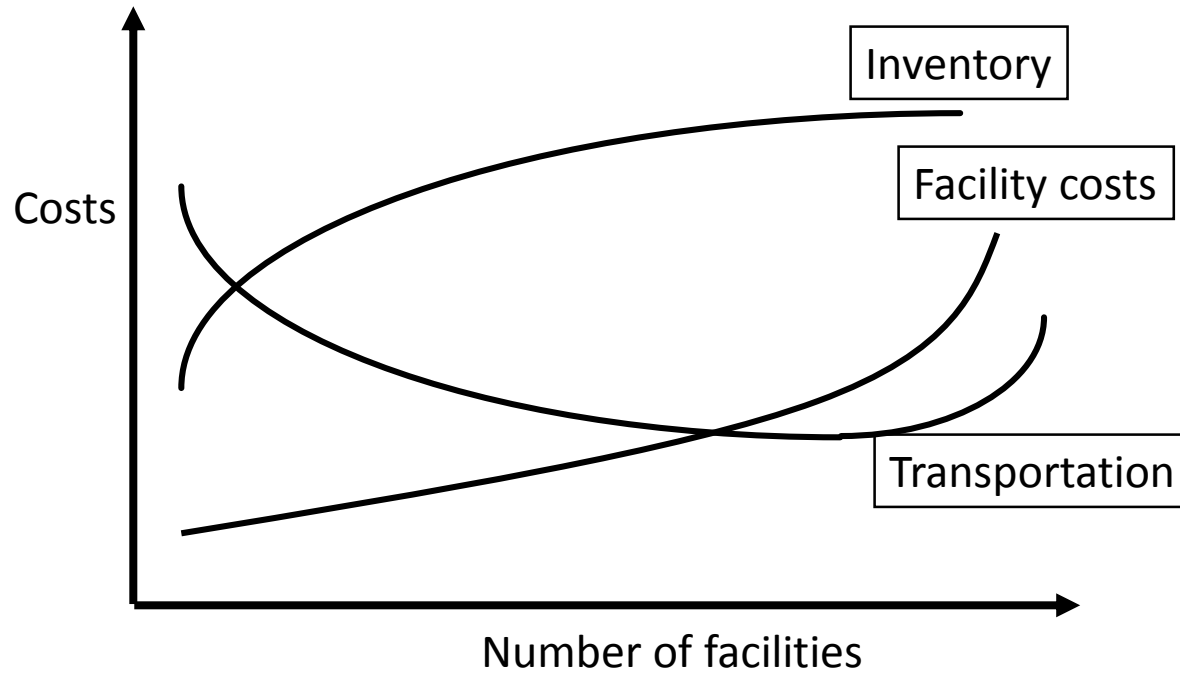
Where inventory needs to be for a next day order response time - typical results --> 13 DCs



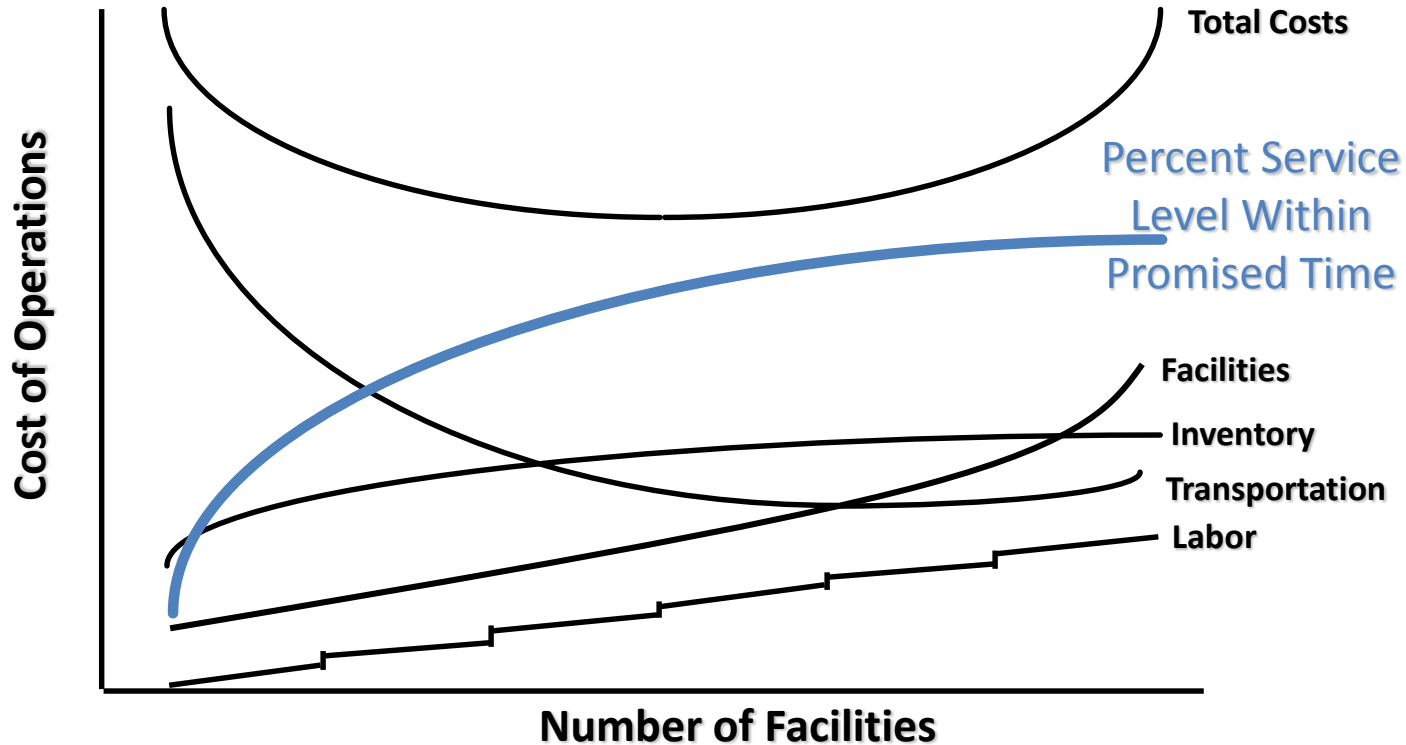
Where inventory needs to be for a same day / next day order response time - typical results -->
26 DCs



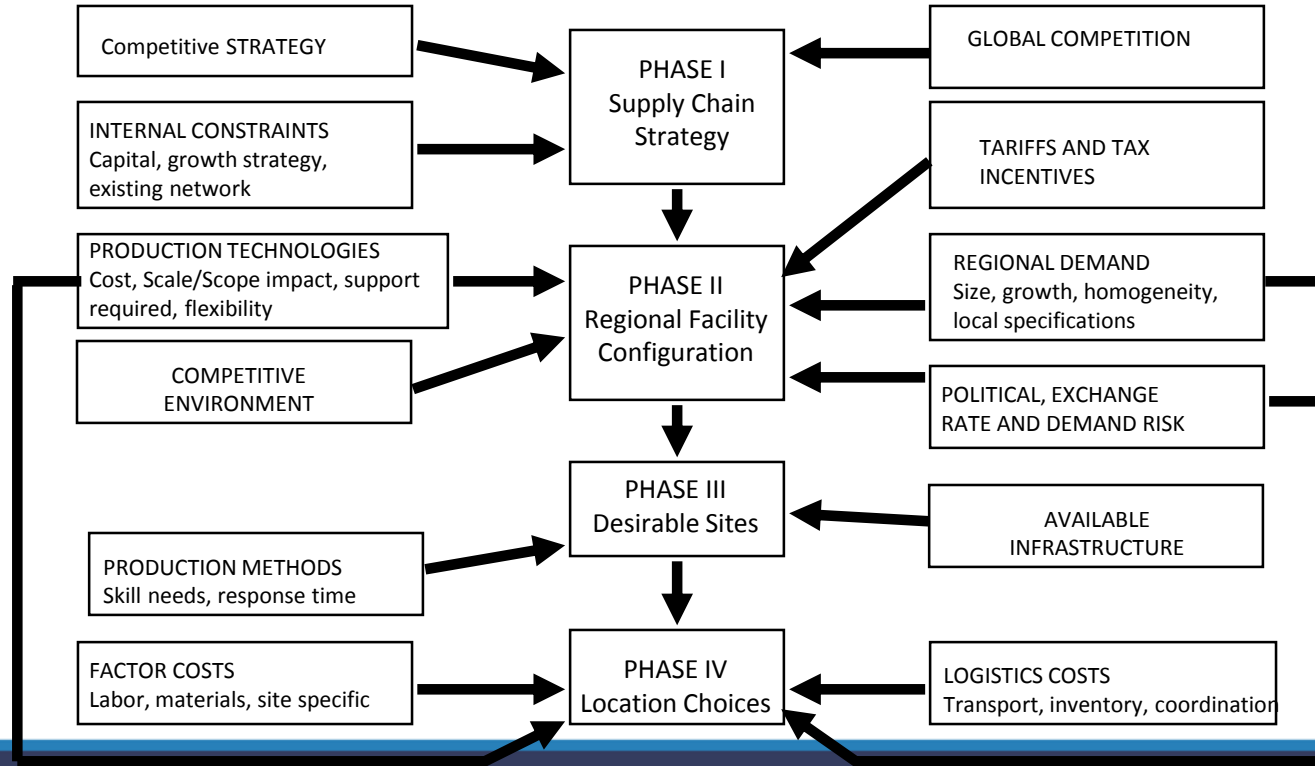
Costs and Number of Facilities



Cost Buildup as a Function of Facilities



A Framework for Global Site Location



THANK YOU

