

# Strategies to Build Resiliency into Your Supply Chain

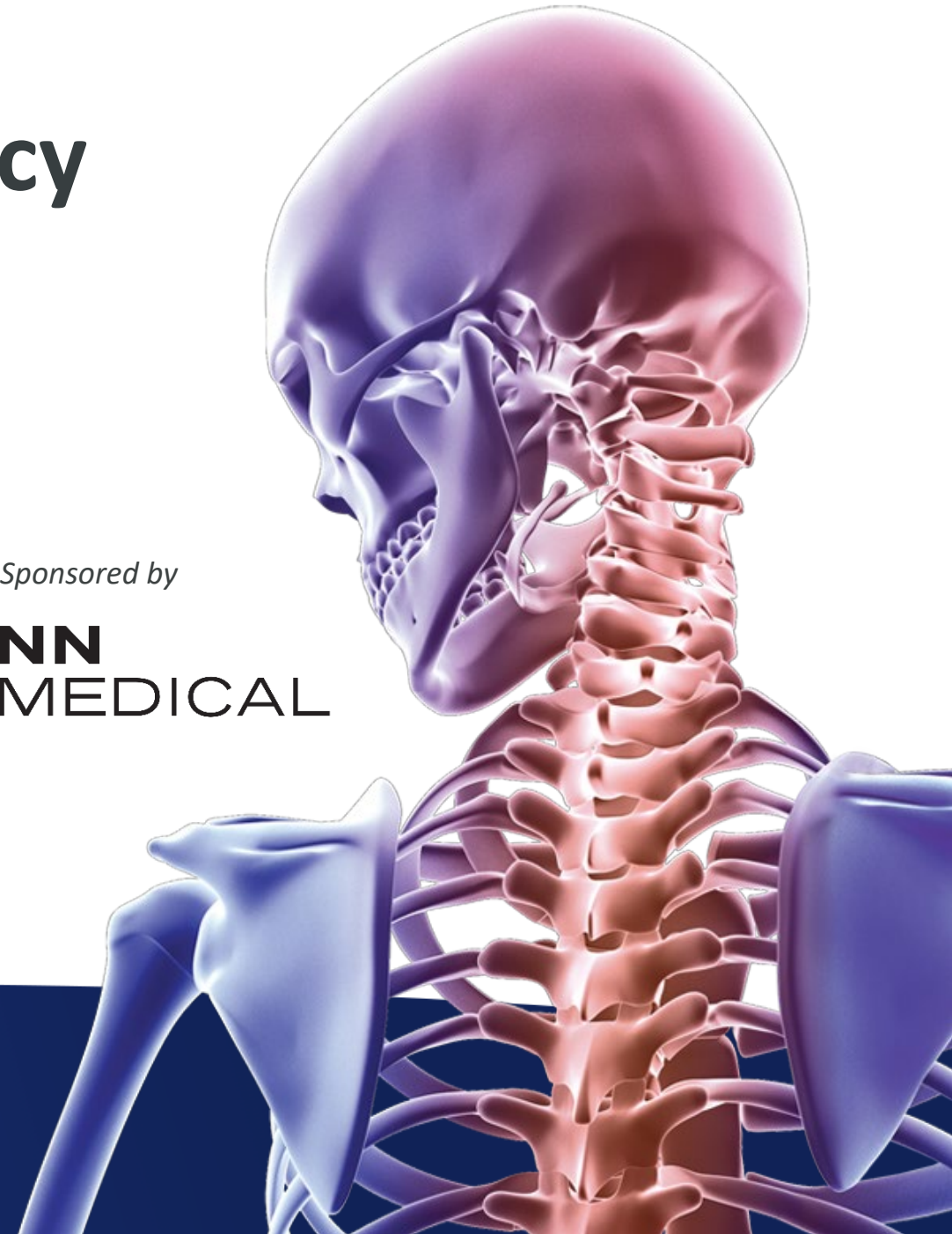
Jeff Bell, Dominican University

Edward Pound, Operations Science Institute

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**NN**  
MEDICAL



# BREAKOUT

Break into groups

Answer the questions—

How do you define supply chain resiliency?

What issues have you faced in supply chain resiliency?

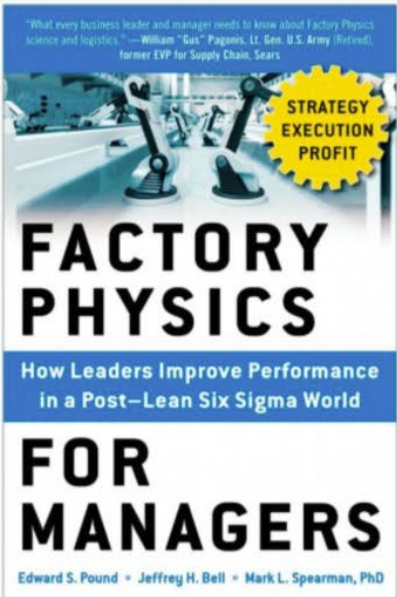
# REPORT OUT

## FDA DEFINITION

The U.S. FDA defines medical supply chain resiliency as the ability to foster processes that minimize disruptions and the capacity to withstand and mitigate those disruptions when they occur.

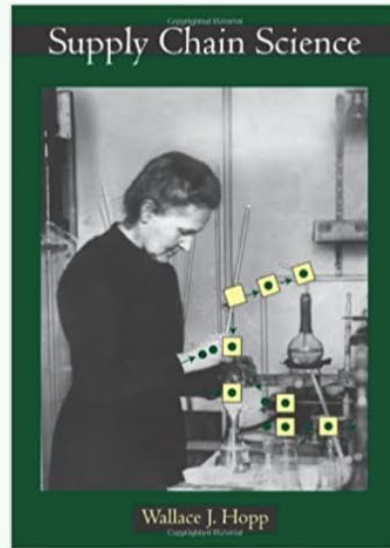
How to manage variability?

# OPERATIONS SCIENCE BASICS



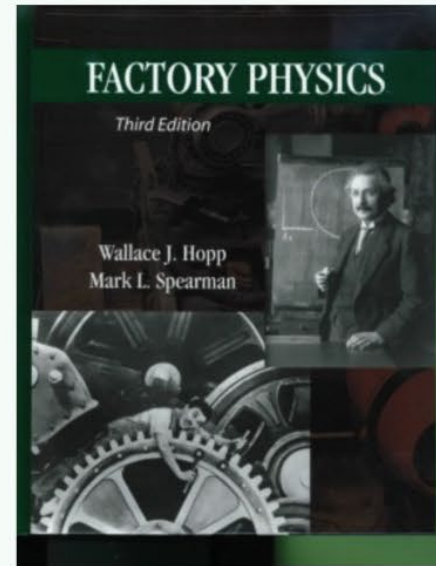
## A Manager's Handbook

Practical operations science concepts and practice for any operations manager



## A Supply Chain Primer

A high level discussion of operations science in the context of supply chains



## The Textbook

Original source for the inventive concepts of operations science

Operations Science Applied  
Scheduled for publication late 2024



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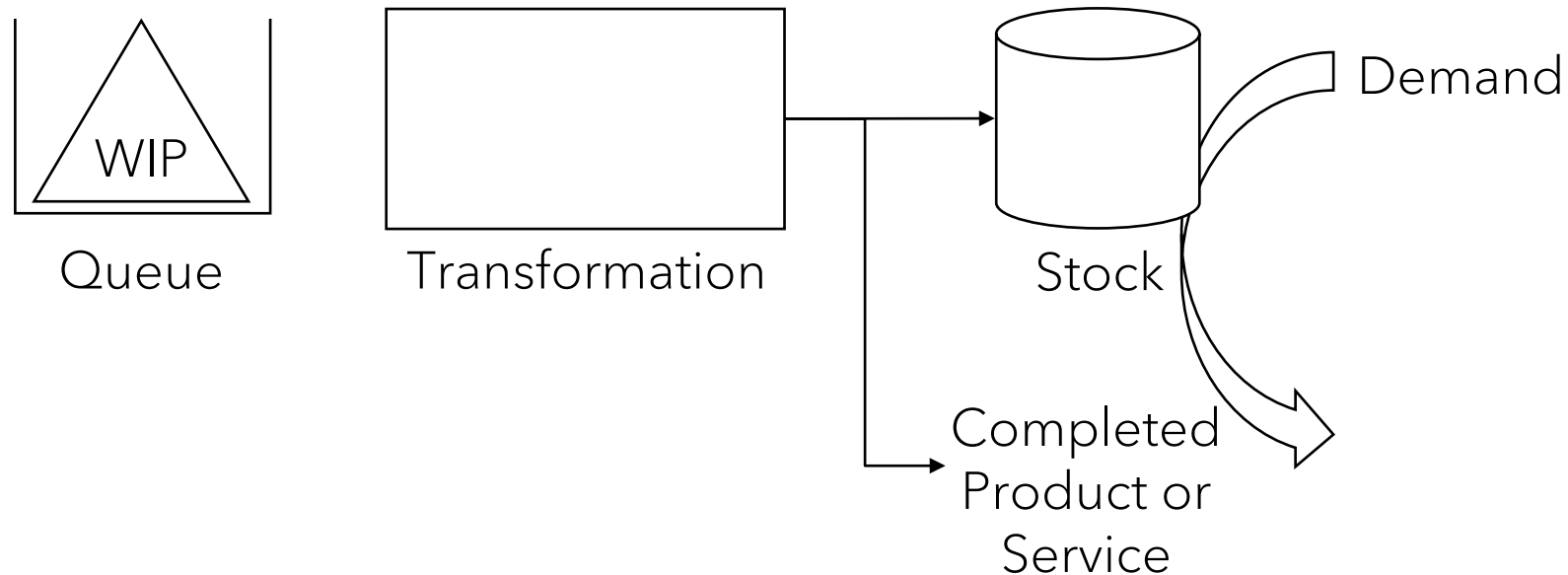
# WHAT IS OPERATIONS SCIENCE?

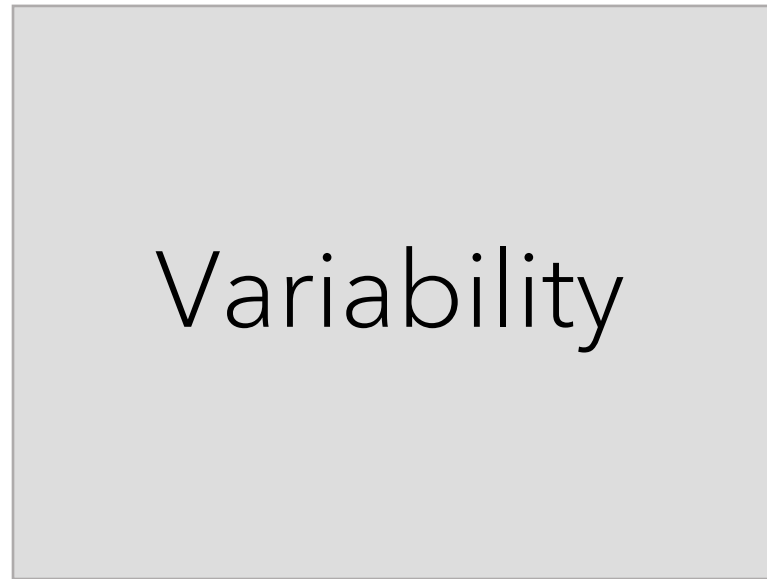
Operations Science is the study of transformation of resources to create and distribute goods and services

Operations Science (OS) focuses on the interaction between demand and transformation and the variability associated with either or both



# THE BASIC OPERATIONS ELEMENTS OF A SUPPLY CHAIN





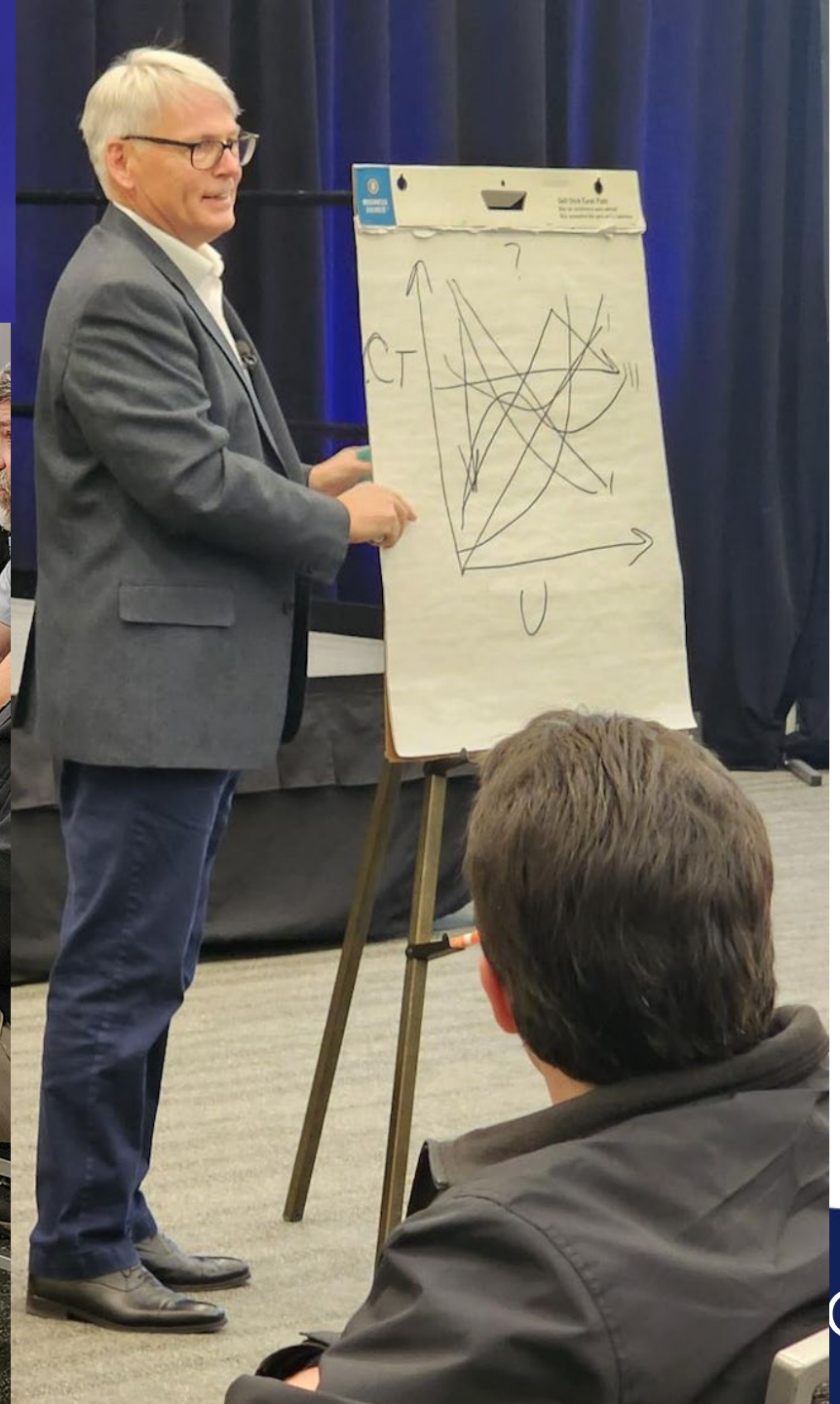
Capacity Buffer

Inventory-Time Buffer

# BASIC RELATIONSHIPS



# COMMON UNDERSTANDING



# BREAKOUT

Break into groups

Answer the question—

What approaches have you tried, or might you try to improve supply chain resiliency?



# REPORT OUT

Solutions?

Principles for supply chain resiliency?

- Appropriate planning horizon across entire supply chain
- Variability must be buffered



GOOD WORK!

Jeff Bell

[jeff.bell@arc-precision.com](mailto:jeff.bell@arc-precision.com)

Ed Pound

[espound@opscience.org](mailto:espound@opscience.org)

# THANK YOU

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