

# Information Session:

## Supply Chain Analytics Professional Certificate Program

## Course instructors



Darrell Kent



Matt Chamberlain

# Supply Chain Analytics Professional Certificate Program



Transforming  
Supply Chain  
Management and  
Performance  
Analysis



Creating Business  
Value with  
Statistical Analysis



Machine Learning  
Applications for  
Supply Chain  
Planning



Supply Chain  
Optimization and  
Prescriptive  
Analytics



# Program Delivery Format



**THIS IS A FULLY ONLINE  
(LIVE / VIRTUAL) PROGRAM**



**ATTENDANCE AT EACH  
LIVE WEBINAR IS REQUIRED**

# Planning Challenges

## Strategic

meet long-term goals

Supply Chain Design

Warehouse Design

Factory Layout

## Tactical

Policies and procedures to support the strategy (mid-term)

Product Recommendations

Cost to Serve

Customer Churn

Revenue Management

## Operating

Carrying out the policies and procedures that support the strategy (short-term)

Inventory Management

Performance Analysis / Supply Chain Visibility

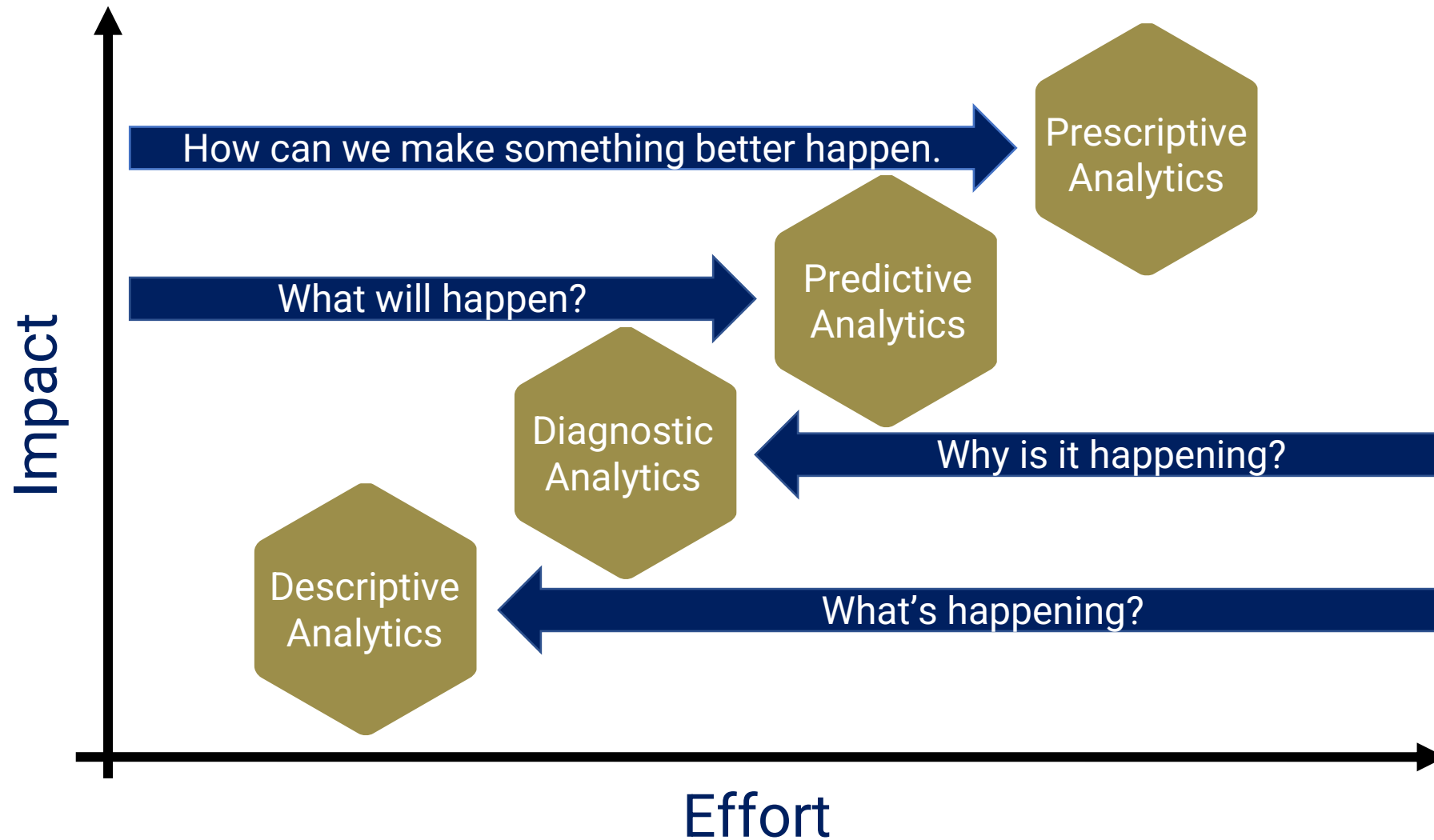
Production Planning

Predictive Maintenance

Route Optimization

Workforce scheduling

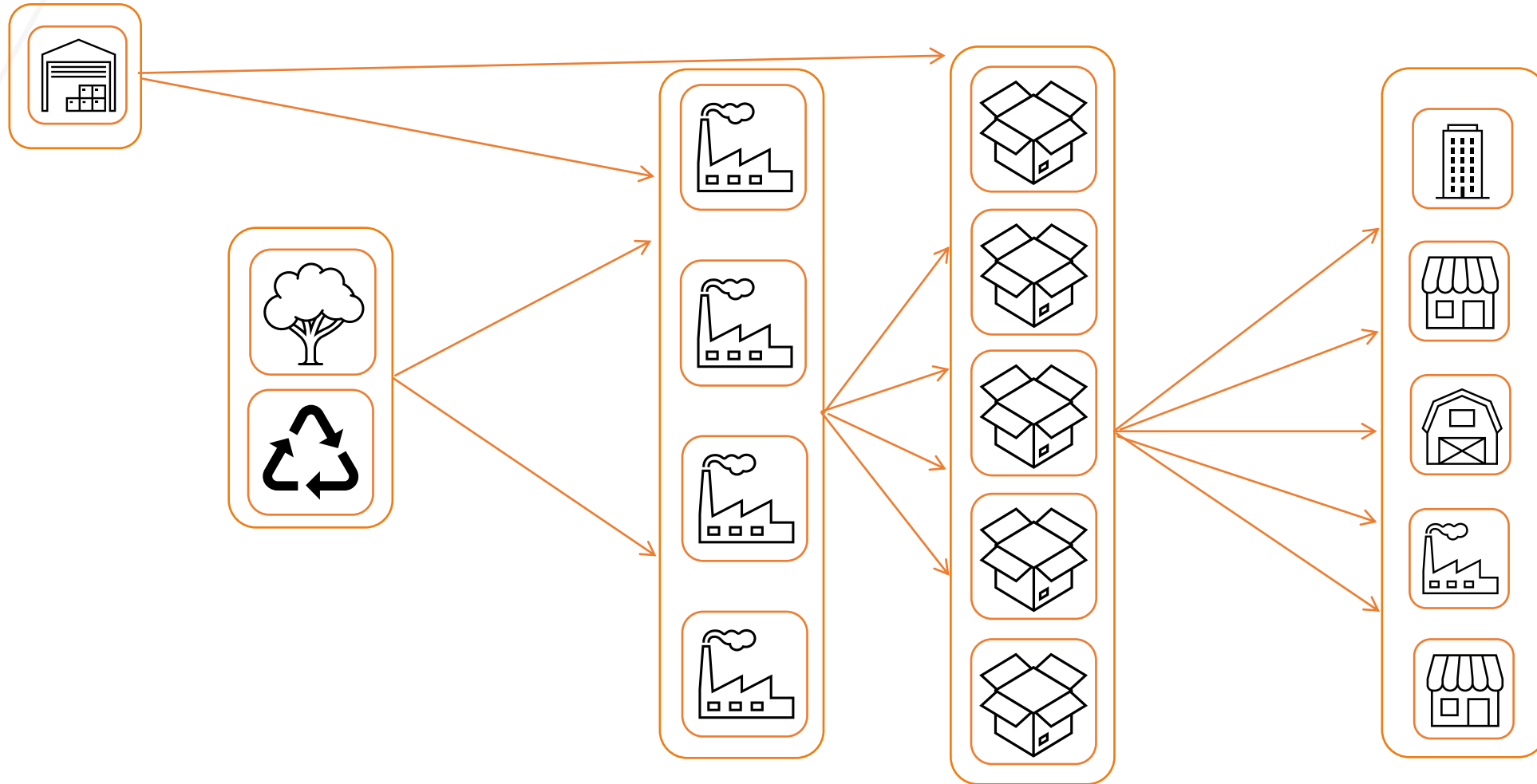
# Analytics Continuum



# CBC: The Cardboard Company



# The CBC Supply Chain Network





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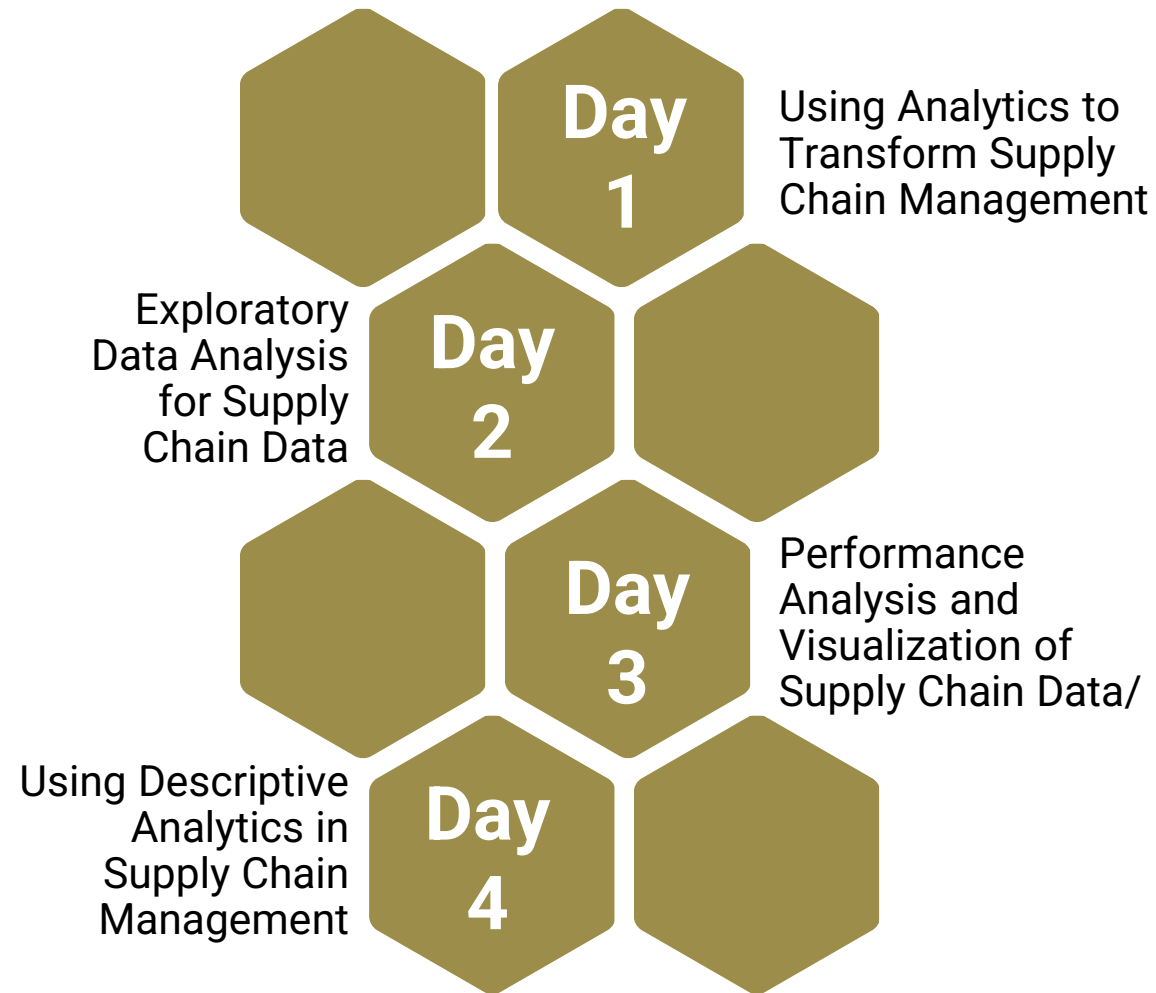
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# Transforming Supply Chain Management and Performance Analysis



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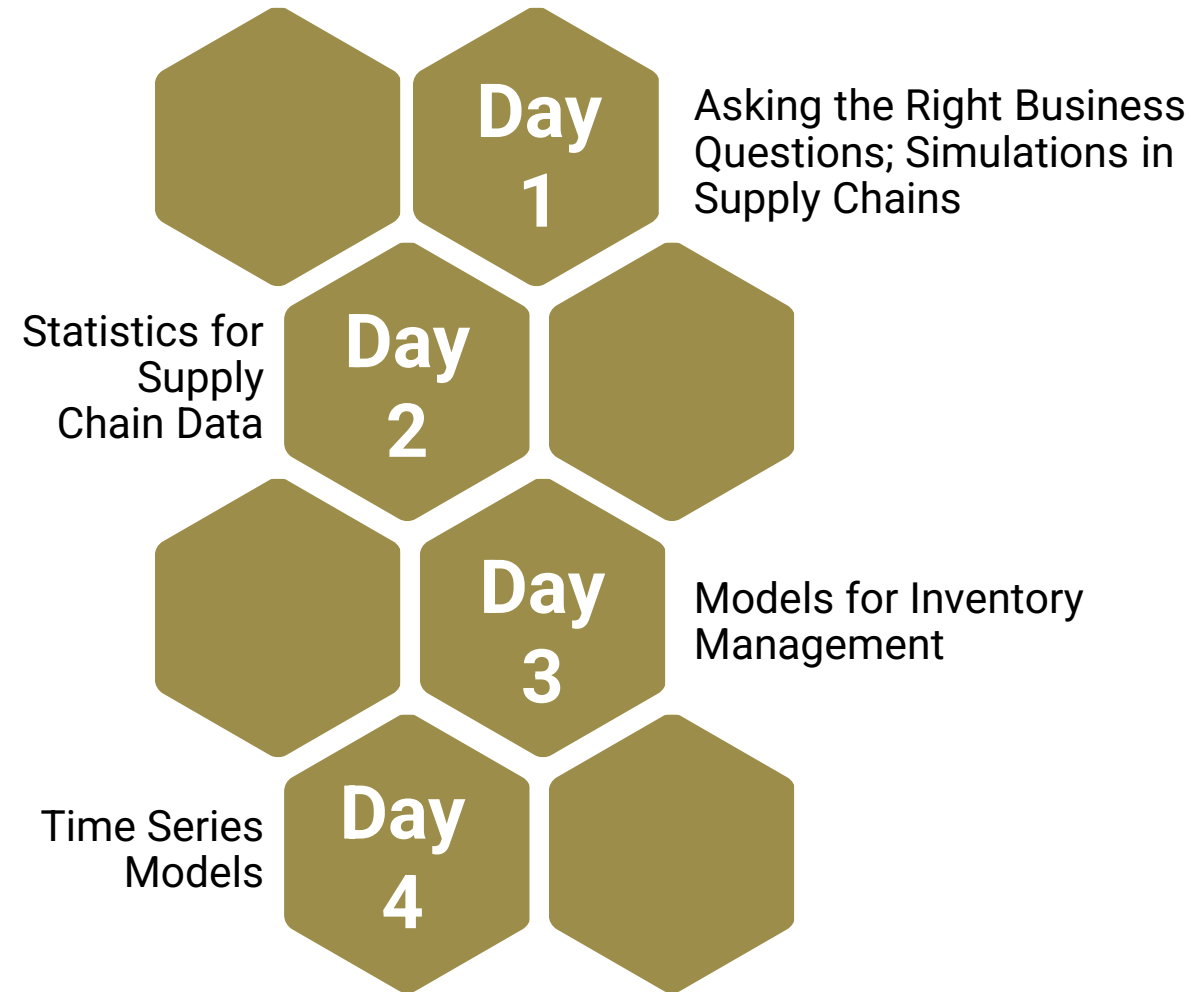
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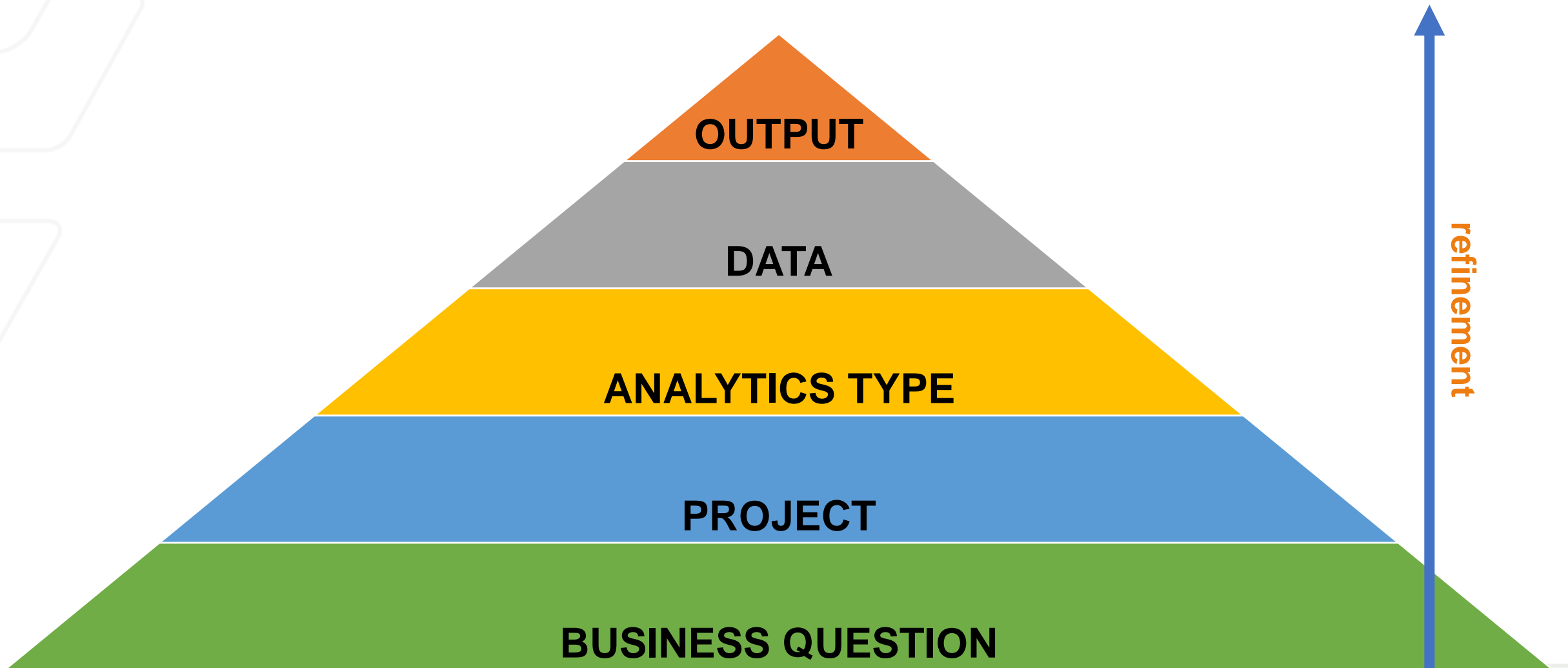
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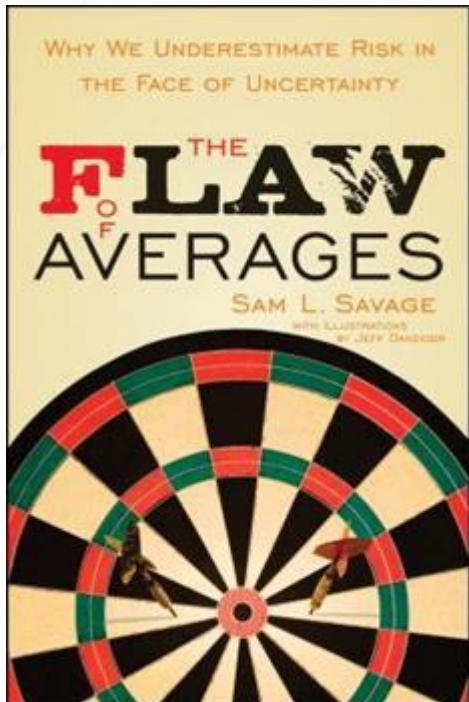
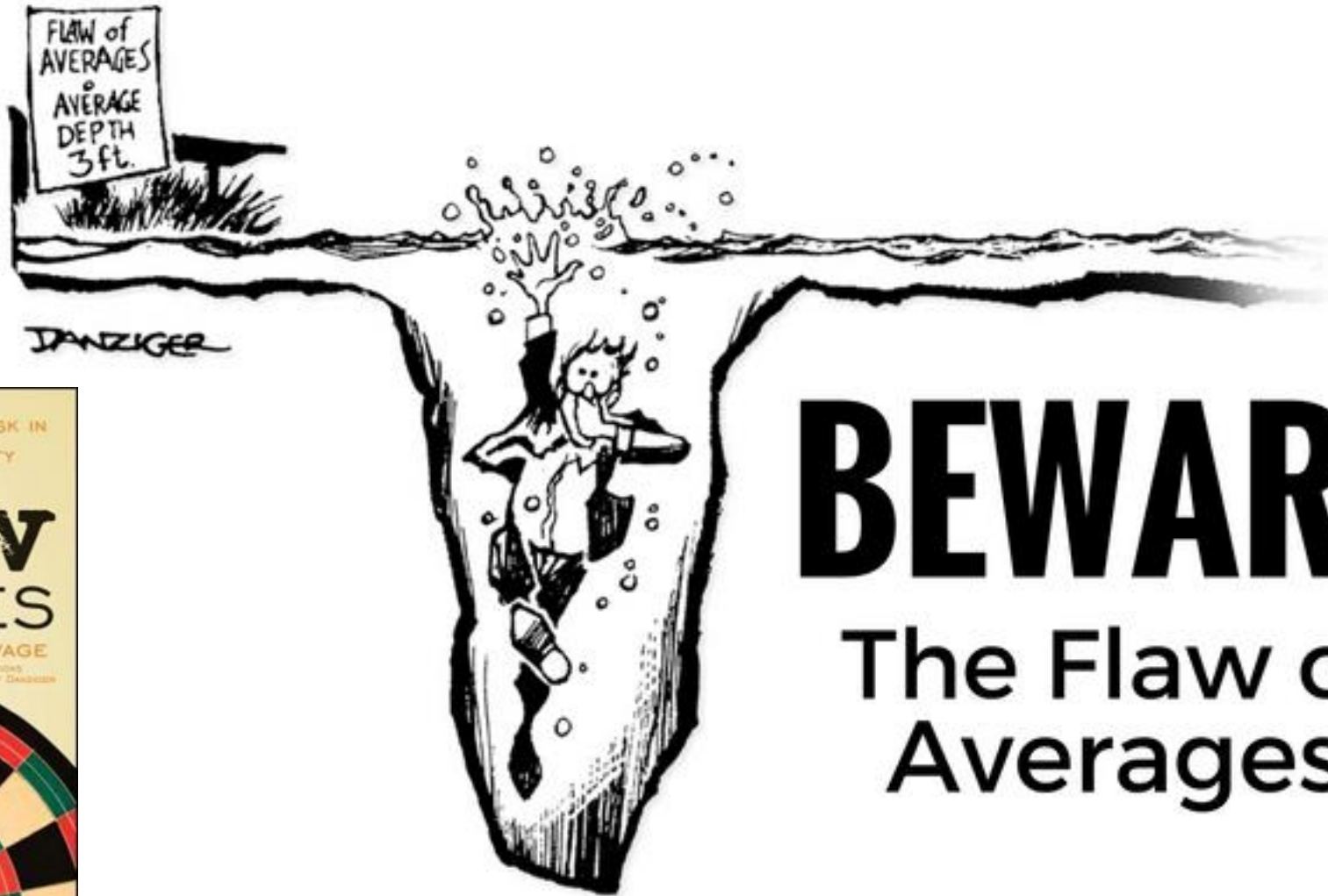


# Creating Business Value with Statistical Analysis



# Analytics Question Framework





# BEWARE

## The Flaw of Averages

# Inventory Policy: Overview



## Inventory Management

What inventory levels should we maintain?

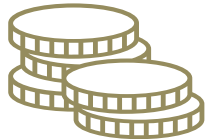
How much safety stock do we need?

What level should we refill to?

How much storage space do we need?

Which products are easily forecastable?

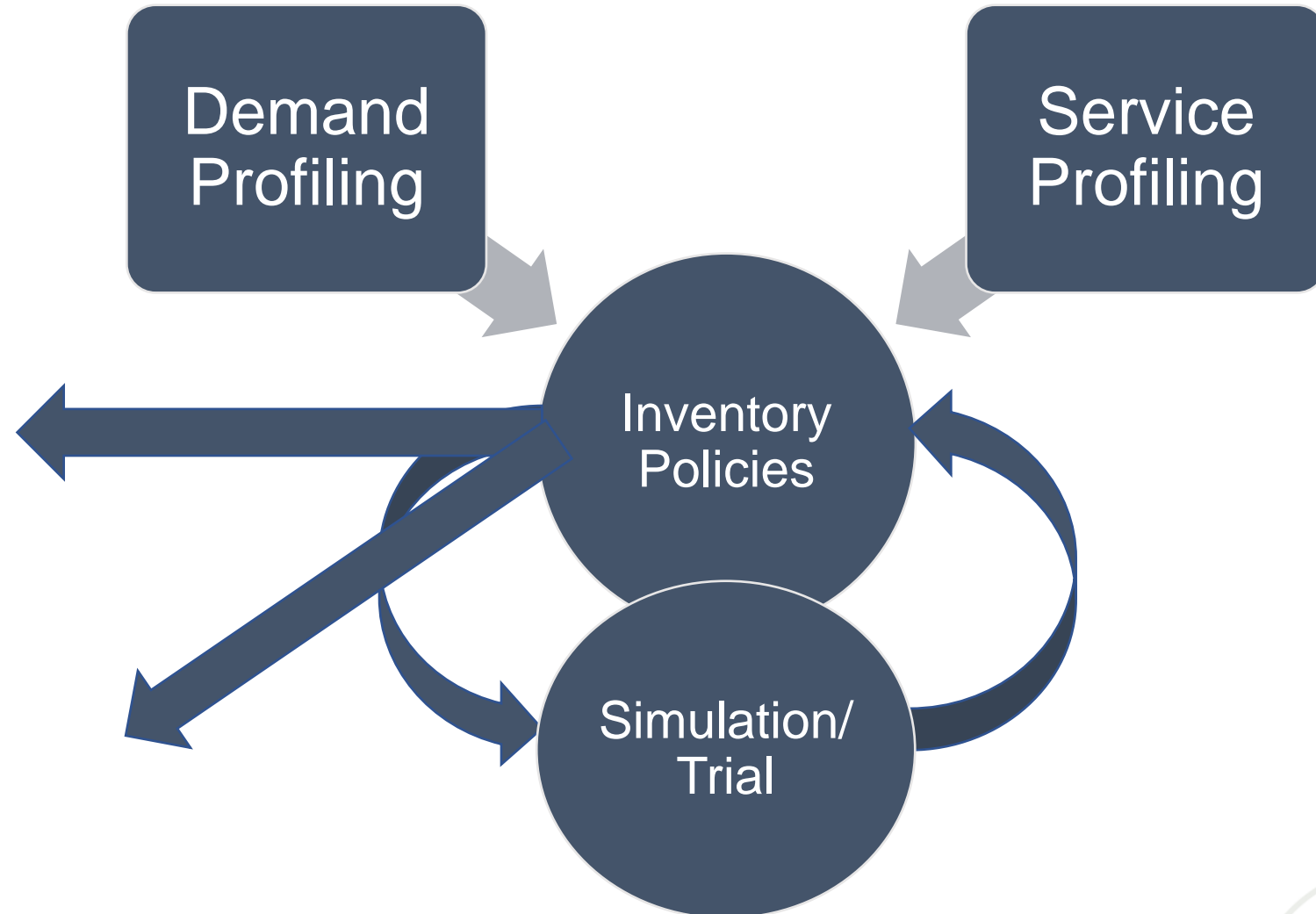
Which products are current/future issues?



Profitability and Cost Efficiencies



Customer Service and Satisfaction



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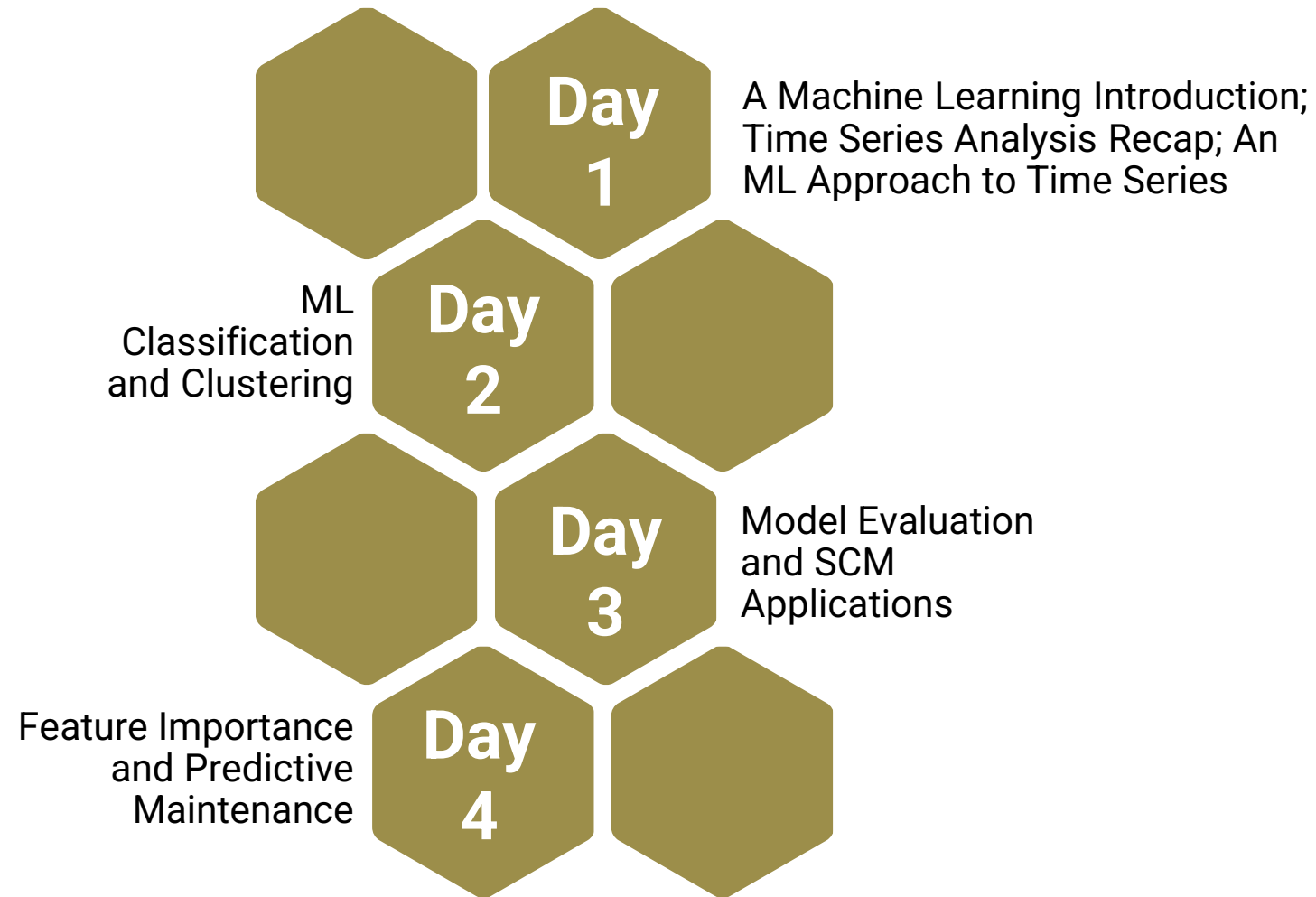


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# Machine Learning Applications for Supply Chain Planning



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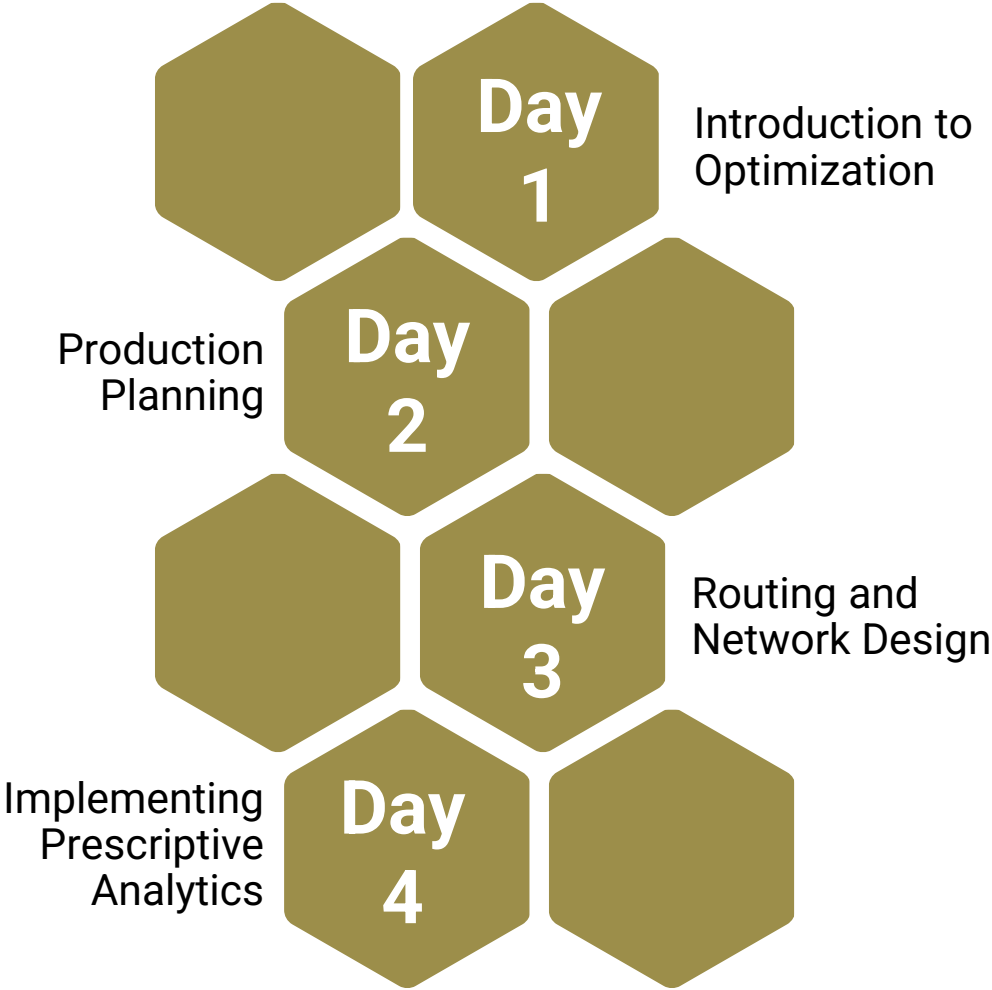
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# Supply Chain Optimization and Prescriptive Analytics



# Daily Schedule

## 12:45pm – 1:00pm ET

- Instructors join the webinar to answer questions

## 5:00pm - ?

- Instructors stay on the call to answer questions

## 1:00pm – 5:00pm ET

- Webinar with lectures, discussions, and small group activities
- Two 15 minute breaks

## All other times

- Instructors available via email for questions and scheduling individual sessions

# Assignments



## Day 1:

- Attend webinar
- Group Discussion

*Knowledge check questions*



## Day 2:

- Attend webinar
- Group Discussion

*Knowledge check questions*



## Day 3:

- Attend webinar
- Group Discussion

*Knowledge check questions*



## Day 4:

- Attend webinar
- Knowledge check questions*

- Final assignment
  - Final assessment
- Feedback survey*

*Assignments are meant to help reinforce what you have learned. Not all assignments are mandatory. Discussions, attendance, the final assignment with explanations, and the final assessment are mandatory.*

# Before, During and After

## Before the course

- Pre-course webinar
- 1-on-1 meetings
- Student survey

## During webinars

- Zoom
- Canvas LMS
- Python via Google Colab
- Miro
- GT speakers

## Outside of course

- Online discussions
- Makeup and review sessions
- Assignment help
- Anonymous survey

# Prerequisites

Basic understanding of SCM

Basic understanding of statistics and probability

Basic Python coding skills

Basic Microsoft Power BI skills

# Upcoming Dates and Tuition

## Courses

1. **Transforming Supply Chain Management and Performance Analytics**  
March 6–9, 2023
2. **Creating Business Value with Statistical Analysis**  
May 15–18, 2023
3. **Machine Learning Applications for Supply Chain Planning**  
July 10–13, 2023
4. **Supply Chain Optimization and Prescriptive Analysis**  
Oct. 9-12, 2023

## Course Tuition

- Standard: \$1,100.00/course
- Georgia Residents with GA AIM code (SCL\_GAAIM): \$550.00/course  
\*proof of residency required when registering

## Certificate Tuition

- Standard total: \$4,400.00
- Georgia residents with promo code **SCL-GAAIM** (proof of residency required) total: \$2,200.00
- Non-Georgia residents with 17% full-series enrollment discount (promo code **SCL-Cert**) total: \$3,652.00



For more information, please visit:

**Georgia Tech Supply Chain and Logistic Institute**  
[scl.gatech.edu/education/professional-education](https://scl.gatech.edu/education/professional-education)

**Supply Chain Analytics Professional Certificate**  
[pe.gatech.edu/supply-chain-analytics-professional-certificate](https://pe.gatech.edu/supply-chain-analytics-professional-certificate)

**For program and certificate questions, email us:**  
[info@scl.gatech.edu](mailto:info@scl.gatech.edu)

**For questions about courses, email us:**  
[course@scl.atech.edu](mailto:course@scl.atech.edu)