

# M9L4. Amazon.com Supply Chain

*Slide #1*



The slide cover is divided into two main sections. The left section has a dark background with white and yellow text. It features the Texas A&M University Engineering logo at the top, followed by the title 'Amazon.com Supply Chain' and the presenter's name 'Dr. Xiaomin Yang'. At the bottom, it lists the course 'TCMT 612' and 'Technical Management Decision Making', along with the program 'MASTERS OF ENGINEERING TECHNICAL MANAGEMENT'. The right section is a grayscale image of a person standing with their back to the camera, looking at a large, complex network diagram that represents a supply chain. The diagram consists of numerous nodes connected by lines, with several hexagonal callouts containing smaller icons related to data and technology.

TEXAS A&M UNIVERSITY  
Engineering

Amazon.com Supply Chain

Dr. Xiaomin Yang

TCMT 612 | Technical Management  
Decision Making

MASTERS OF ENGINEERING TECHNICAL MANAGEMENT

## Slide #2

### Digital Transformation for Integrated Planning and Operations Capabilities

o9 Solutions offer AI and knowledge-powered planning & decision-making platform, enabling a truly Integrated Business Planning (IBP) capability for driving supply chain agility, revenue growth, and optimal financial performance.



Amazon has long been regarded as a leader in supply chain innovation, constantly pushing boundaries and exploring new ways to improve its operations.

o9 Solutions is a leading provider of an AI and knowledge powered planning and decision-making platform for businesses.

With its integrated business planning, IBP capability, o9 Solutions empowers companies to enhance their supply chain agility, drive revenue growth, and achieve optimal financial performance.

By leveraging advanced technologies and data-driven insights, o9 Solutions enables businesses to make informed decisions, optimize their planning processes, and align their operations with market demands.

With a focus on driving efficiency and effectiveness, o9 Solutions helps organizations streamline their operations and achieve better outcomes in today's dynamic and competitive business landscape.

### Slide #3

## Digital Transformation for Integrated Planning and Operations Capabilities

Supply chain management: computers record the location of goods and map out routes for shipment and delivery.

- Trucking
- Warehousing
- Air



Over the years, the company has made significant advancements in its trucking, warehousing, and air capabilities, revolutionizing the way it manages its supply chain.

## Slide #4

### Digital Transformation for Integrated Planning and Operations Capabilities

Trucking: Amazon's expansion of its fleet of delivery trucks has led to:

- reduced reliance on third party carriers
- more control over delivery process
- improved profitability
- enhanced customer experience



In terms of trucking, Amazon has been expanding its private fleet of delivery trucks to reduce its reliance on third party carriers such as UPS and FedEx.

By developing its own trucking network, Amazon gains more control over the delivery process, improving profitability, and enhancing the customer experience.

Additionally, the company has taken steps to explore more sustainable options for its truck fleet, including the use of natural gas and electric vehicles.

This commitment to reducing carbon emissions demonstrates Amazon's dedication to environmental sustainability.

## Slide #5

### Digital Transformation for Integrated Planning and Operations Capabilities

Warehousing: Amazon operates various types of warehouses, including

- Sortation centers
- Pantry and fresh warehouses
- Prime Now facilities
- Delivery stations



In the realm of warehousing, Amazon has invested heavily in its logistics network, striving to move items quickly and efficiently.

The company operates various types of warehouses, including sortation centers, pantry and fresh warehouses, prime now facilities, and delivery stations.

These warehouses serve different purposes, such as sorting packages, storing grocery items, or facilitating last mile delivery.

By strategically placing warehouses in different locations, Amazon aims to speed up delivery and provide a seamless customer experience.

## Slide #6

### Digital Transformation for Integrated Planning and Operations Capabilities

Amazon Air cargo airline and drone delivery program has been remarkable.

The acquisition of cargo planes and the ongoing development of its air hub demonstrate the company's commitment to building a robust and efficient air transportation network.

Amazon has also obtained regulatory approval from the FAA to operate commercial deliveries with drones, indicating its ambition to revolutionize last-mile delivery with autonomous flying vehicles.



Amazon's venture into the air domain through its Amazon Air Cargo Airline and Drone Delivery Program has been remarkable.

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Amazon has also obtained regulatory approval from the FAA to operate commercial deliveries with drones, indicating its ambition to revolutionize last mile delivery with autonomous flying vehicles.

By investing in trucking, warehousing, and air capabilities, Amazon has created a network that can handle its exponential growth while enhancing sustainability and customer experience.

However, it is crucial to strike a balance between technological advancements and the well-being of employees, ensuring that human workers remain valued and supported within Amazon's supply chain operation.

***Slide #7***



As Amazon continues to expand and adapt to future challenges, it will be fascinating to witness the evolution of its supply chain and the role it plays in shaping the future of e-commerce and logistics.

Amazon's supply chain innovation has had a profound impact on the company's ability to meet customer needs, streamline operations, and embrace sustainable practices.

As Amazon continues to expand and adapt to future challenges, it will be fascinating to witness the evolution of its supply chain and the role it plays in shaping the future of e-commerce and logistics.