

AI IN



**12 MINUTES FOR
LOGISTICS**



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MOTIVATION - WHY AI?

Enhancing supply chain efficiency

Predictive analytics for demand forecasting

Automated warehouse operations

Real-time tracking and delivery optimization

Reducing operational costs



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2/24 INDUSTRY

Supply Chain Management
Warehouse Operations
Freight Transportation
Inventory Management
Last-mile Delivery Services



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STRATEGIC TRENDS

AI-driven supply chain optimization

Autonomous delivery vehicles

Drone technology in logistics

Blockchain for transparency

Internet of Things (IoT) integration

Predictive analytics for inventory

Robotics in warehouse operations

AI in route planning

Sustainable logistics practices

Data-driven customer service



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WHY CHANGE?

Customer expectation growth
Global supply chain complexity
Efficiency in operations
Sustainability demands
Competitive advantage



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LEADING THE CHANGE

Amazon (Advanced logistics technology)

DHL (AI in supply chain)

UPS (Logistics and package delivery)

FedEx (Courier delivery services)

Maersk (Global shipping logistics)



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DIGITAL TRANSFORMATION

Autonomous trucks and drones
AI in global route optimization
Robotics for warehouse automation
Machine learning in demand forecasting
IoT for real-time tracking
Blockchain for supply chain transparency
AI-driven inventory management
Smart sensors for cargo monitoring
AI in logistics data analytics
Electric vehicles for sustainable delivery

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AI DISRUPTION

Self-driving vehicles in delivery

AI for optimized warehousing layouts

Predictive maintenance of logistics vehicles

AI in efficient route planning

Drone-based delivery systems

AI for real-time supply chain adjustments

Robotics in picking and packing

Data analytics for customer insights

AI-driven logistics management platforms

AI in cross-border trade facilitation



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GREAT EXAMPLES OF AI

Amazon's AI-driven logistics management

UPS's ORION system for route optimization

DHL's robotics in warehouses

Alibaba's AI in global trade facilitation

FedEx's autonomous delivery robots

Kiva Systems (Amazon Robotics) order fulfillment

ClearMetal's AI in supply chain optimization

Einride's autonomous electric trucks

JD.com's drone delivery service

Ocado's AI-powered grocery fulfillment

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ECOSYSTEM REQUIREMENTS

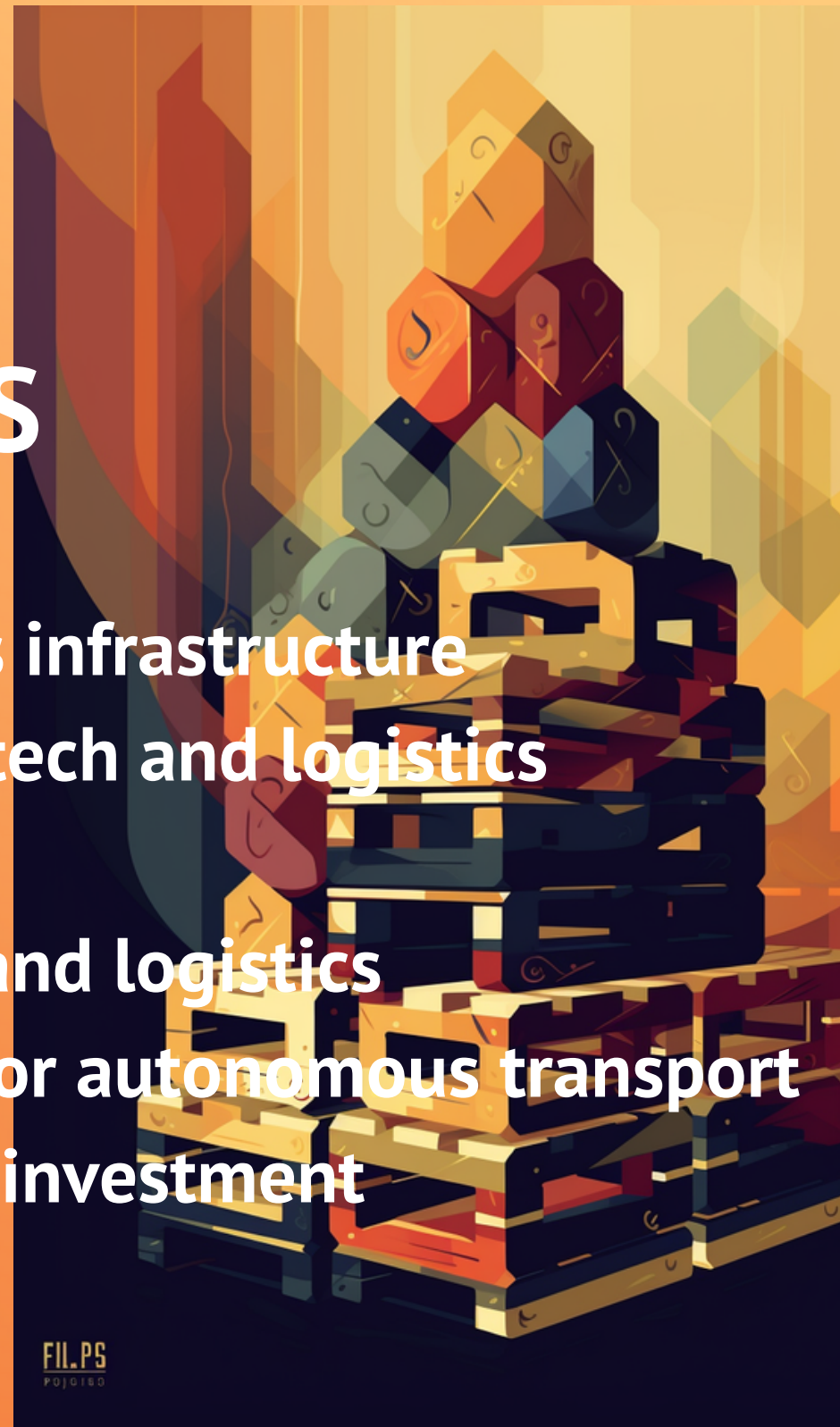
Advanced data analytics infrastructure

Collaboration between tech and logistics
companies

Skilled workforce in AI and logistics

Regulatory framework for autonomous transport

Sustainable technology investment



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AI SUSTAINABILITY

Reduced carbon emissions with AI efficiency

AI in optimizing delivery routes

Sustainable warehousing operations

Waste reduction in supply chains

Eco-friendly packaging with AI analysis



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NEW RISKS - ETHICAL, LEGAL, SOCIAL

Cybersecurity threats in automated systems

Job displacement concerns

Dependence on AI for critical decisions

Data privacy in logistics operations

AI biases affecting supply chain decisions



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AI MISUSE EXAMPLES

AI-driven unfair competitive practices

Unauthorized surveillance in logistics

Manipulation of AI for illicit trade

Biased AI in logistics decision-making

Over-reliance on AI predictions



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THREE AI DILEMMAS

AI automation vs. human employment in logistics?

Balancing efficiency with environmental impact?

Ensuring data privacy in AI-driven logistics?



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ORGANIZATIONAL REQUIREMENTS

Leadership commitment to AI integration

Continuous investment in AI technology

Collaboration between logistics and tech sectors

Skilled personnel for AI operations

Strong focus on cybersecurity and data privacy

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15/24 STEP BY STEP APPLICATION

Identify AI applications in logistics
Invest in appropriate AI technology
Train staff in AI and logistics
Implement AI tools in operations
Regularly assess and adapt AI solutions



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BEST PRACTICES

Start with pilot AI projects

Prioritize data security in AI applications

Engage stakeholders in AI initiatives

Continuous monitoring and adaptation

Foster a culture of innovation and sustainability



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AI TOOLS & MODELS

Machine learning for demand forecasting

Neural networks in route optimization

AI algorithms for inventory management

Predictive analytics in fleet management

Decision trees for logistics problem-solving



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18/24 USEFUL DIGITAL TWINS

Digital twins of logistics networks
Virtual models of warehouses
AI simulations for supply chain management
Digital replicas of transport vehicles
Virtual last-mile delivery scenarios



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COOL

NORWEGIAN CASES

Oda: Online grocery logistics.

Dropr: Last-mile delivery solutions.

ShipMonk: Maritime logistics digitalization.

Porterbuddy: Same-day delivery service.

Mixmove: Cloud-based logistics optimization.



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GLOBAL LEADERS

United States (Innovative logistics technologies)

China (Massive e-commerce logistics)

Germany (Efficient supply chain management)

Singapore (Hub for global trade logistics)

Netherlands (Advanced transportation and logistics)



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FUTURE JOBS

AI logistics strategists

Autonomous vehicle operators

Supply chain data analysts

Sustainability managers in logistics

AI technology specialists in logistics



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THE FUTURE OF AI

Fully autonomous logistics operations
AI-driven global supply chain networks
Advanced AI in sustainable logistics
AI for real-time demand-response logistics
Enhanced customer experience with AI

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RECOMMENDED

READING

"The New (Ab)Normal: Reshaping Business and Supply Chain Strategy" by Yossi Sheffi

"Supply Chain Management: Strategy, Planning, and Operation" by Sunil Chopra, Peter Meindl

"Logistics & Supply Chain Management" by Martin Christopher

"The AI Advantage" by Thomas H. Davenport

"AI Superpowers" by Kai-Fu Lee (Perspectives on AI's impact)

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GOOD TED TALKS

"What intelligent machines can learn from a school of fish" by Radhika Nagpal

"The future we're building — and boring" by Elon Musk (AI and future of transport)

"How supply chain transparency can help the planet" by Markus Mutz

"The mind behind Tesla, SpaceX, SolarCity..." by Elon Musk

"How AI can help shatter barriers to equality" by Jamila Gordon



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**WHAT WOULD
YOU ADD?
*LET ME KNOW!***



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