

AI IN



12 MINUTES FOR TRANSPORTATION



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MOTIVATION - WHY AI?

Optimizing route planning

Enhancing safety features

Reducing operational costs

Improving customer experience

Facilitating autonomous vehicle development



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2/24 INDUSTRY

Public Transit Systems
Freight and Logistics
Automotive Manufacturers
Aviation Industry
Maritime Transportation



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STRATEGIC TRENDS

Autonomous vehicles

AI in traffic management

Drone delivery services

Electric vehicle integration

Predictive maintenance

AI in logistics optimization

Smart public transit systems

AI-powered navigation apps

Sustainable transportation technologies

Enhanced aviation safety with AI



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WHY CHANGE?

Urban congestion
Environmental concerns
Safety improvements
Efficiency demands
Technological evolution



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LEADING THE CHANGE

Tesla (Autonomous electric vehicles)

Waymo (Self-driving technology)

Maersk (AI in shipping logistics)

DHL (AI in freight logistics)

Boeing (AI in aviation systems)



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DIGITAL TRANSFORMATION

Self-driving cars and trucks
AI in traffic flow optimization
Predictive maintenance in aviation
AI-driven route optimization
Smart ticketing systems
AI in maritime navigation
Real-time tracking in logistics
AI for enhanced in-flight experiences
Drones for delivery and surveillance
AI in train scheduling



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AI DISRUPTION

Autonomous vehicles reducing accidents
AI for dynamic routing in logistics
Real-time traffic prediction and management
AI in predictive vehicle maintenance
Enhanced flight safety systems
AI in efficient public transit planning
Personalized travel experiences
AI in cargo loading optimization
AI for fuel efficiency in aviation
AI-assisted parking solutions



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GREAT EXAMPLES OF AI

Tesla's Autopilot for self-driving
Uber's AI algorithms for ride-hailing
Google Maps' AI for traffic prediction
Kiva robots in Amazon warehouses
Rolls Royce's AI in ship management
Airbus's AI for flight operations
Hyperloop's AI in high-speed transit
Skywise by Airbus for maintenance optimization
DJI drones for logistics and surveillance
AI in Singapore's smart public transit

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9/24 ECOSYSTEM REQUIREMENTS

Robust digital infrastructure
Policy and regulatory frameworks
Public-private partnerships
Skilled workforce in AI and transportation
Collaboration between tech and transport sectors

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AI  SUSTAINABILITY

Lower carbon emissions with AI efficiency

AI in optimizing fuel consumption

Reduced traffic congestion

AI for efficient public transit systems

Enhancing electric vehicle adoption



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NEW RISKS - ETHICAL, LEGAL, SOCIAL

Cybersecurity threats in autonomous systems
Ethical concerns in AI decision-making
Job displacement in traditional roles
AI reliability and safety in transport
Data privacy in passenger information



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AI MISUSE EXAMPLES

AI-driven autonomous vehicle hacking
Misleading AI in ride-hailing pricing
AI biases in traffic management systems
Unauthorized surveillance using drones
Manipulation in AI-based logistics



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THREE AI DILEMMAS

Should AI fully control autonomous vehicles?
How to balance AI efficiency and job impacts?
Ensuring fair AI access in public transportation?



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ORGANIZATIONAL REQUIREMENTS



Strategic vision for AI integration
Investment in AI technology and research
Skilled personnel for AI development
Strong cybersecurity measures
Collaborative ecosystem with tech partners

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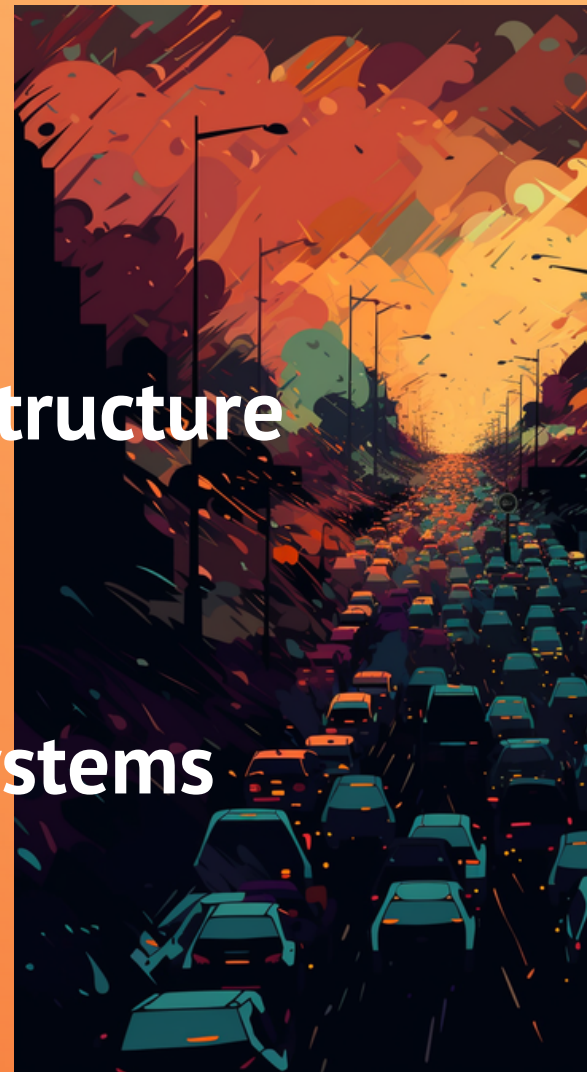
15/24 STEP BY STEP APPLICATION

Identify AI use cases in transport
Invest in AI technology and infrastructure
Train staff on AI tools and ethics
Implement AI solutions in phases
Regularly assess and update AI systems

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BEST PRACTICES

Prioritize safety in AI applications

Focus on customer-centric AI solutions

Collaborate with AI and transport experts

Gradual implementation with constant feedback

Uphold ethical standards in AI use



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AI TOOLS & MODELS

Machine learning for traffic prediction
Neural networks in autonomous driving
AI algorithms for dynamic routing
Reinforcement learning in drone navigation
Predictive analytics in fleet management



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18/24 USEFUL DIGITAL TWINS

Digital twins of vehicles for testing
Virtual models of traffic systems
AI-based airport operation simulations
Digital replicas of logistics networks
Virtual shipping routes and port models

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COOL

NORWEGIAN CASES

Imove: Subscription-based EV services.

Meshcrafts: Smart EV charging platform.

Easee: Manufactures smart EV charging robots.

Hy5: Innovates with hydrogen power solutions.

Voi Technology: Urban electric scooter sharing.

Nabobil: Peer-to-peer car sharing service.

Hyre: Electric car rental platform.



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GLOBAL LEADERS

- United States (Autonomous vehicle technology)
- China (High-speed rail, electric vehicles)
- Germany (Automotive innovation)
- Singapore (Smart public transit)
- Japan (Advanced robotics in transportation)



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FUTURE JOBS

AI transportation system analysts
Autonomous vehicle safety specialists
AI-driven fleet management coordinators
Urban mobility planners
AI ethics officers in transportation



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THE FUTURE OF AI

Full autonomy in vehicles
AI-integrated public transit systems
AI in reducing transportation emissions
Global AI-driven logistics networks
Enhanced safety features in transport



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RECOMMENDED READING

"Autonomy" by Lawrence D. Burns

"Traffic: Why We Drive the Way We Do" by Tom
Vanderbilt

"The Big Data-Driven Business" by Russell Glass,
Sean Callahan

"Machine Learning and AI for Healthcare" by
Arjun Panesar

"The Master Algorithm" by Pedro Domingos

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GOOD TED TALKS

"How autonomous cars will reshape cities" by
Wanis Kabbaj

"The future of flying robots" by Vijay Kumar

"The ethical dilemma of self-driving cars" by
Patrick Lin

"How AI can save our humanity" by Kai-Fu Lee

"How we're teaching computers to understand
pictures" by Fei-Fei Li



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



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