



# Business Solutions in Urban Mobility: Innovations and Impact

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# Agenda

1. The role of artificial intelligence (AI) and data science for sustainable mobility innovation
2. Business solutions in urban mobility
3. Your customers' needs and problems
4. Open discussion



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# **The role of artificial intelligence (AI) and data science for sustainable mobility**



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What do you think is the role of AI and data science in increasing road safety and moving towards sustainable mobility and development in our cities.

Give me the top 5 topics that are relevant. And give a 1 sentence summary for each.

Here are the top 5 relevant topics on the role of AI and data science in increasing road safety and promoting sustainable mobility and development:

1. **Predictive Traffic Management:** AI and data science enable real-time optimization of traffic flows and predictive analysis of congestion and accidents, improving road safety and reducing traffic-related emissions.
2. **Autonomous Vehicles:** AI-driven autonomous vehicles promise to reduce human error in driving, enhancing road safety while supporting sustainable mobility through integrated, shared transport systems.
3. **Smart Infrastructure:** Data-driven smart infrastructure, including connected roadways and adaptive traffic signals, enhances safety by responding dynamically to real-time conditions and supporting sustainable transport modes.
4. **Optimized Public Transportation:** AI optimizes public transport systems, improving efficiency, reducing wait times, and encouraging a shift from private vehicles to more sustainable public transport options.
5. **Data-Driven Urban Planning:** AI and data science support sustainable urban development by simulating the impact of various mobility strategies, informing policies that balance safety, efficiency, and environmental goals.

SG What do you think is the role of AI and data science in increasing road safety and moving towards sustainable mobility and development in our cities. Give me the top 5 topics that are relevant. And give a 1 sentence summary for each.

Here are the top 5 topics relevant to AI and data science in increasing road safety and promoting sustainable mobility and urban development, along with a one-sentence summary for each:

1. **Intelligent Traffic Management Systems Summary:** AI-powered traffic management systems analyze real-time data to optimize traffic flow, reduce congestion, and improve overall road safety in urban areas.
2. **Predictive Maintenance for Infrastructure Summary:** Data science techniques enable predictive maintenance of roads and transportation infrastructure, enhancing safety and reducing long-term costs.
3. **Autonomous Vehicle Integration Summary:** AI and data science are crucial in developing and integrating autonomous vehicles into urban environments, potentially reducing human error-related accidents and improving mobility efficiency.
4. **Smart Public Transportation Optimization Summary:** AI algorithms can optimize public transportation routes and schedules based on usage patterns, encouraging sustainable mobility options and reducing private vehicle dependence.
5. **Pedestrian and Cyclist Safety Systems Summary:** AI-powered computer vision and sensor technologies can enhance the safety of vulnerable road users by alerting drivers and adapting traffic signals in real-time.



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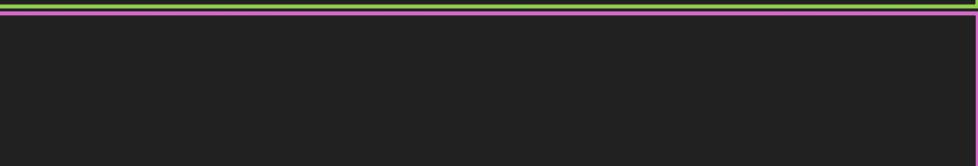
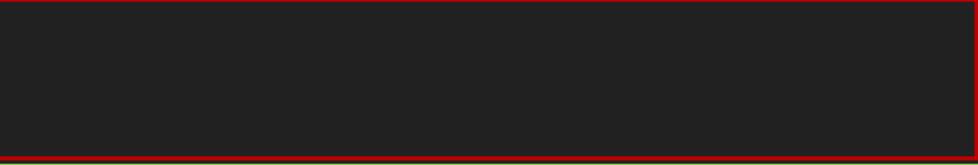
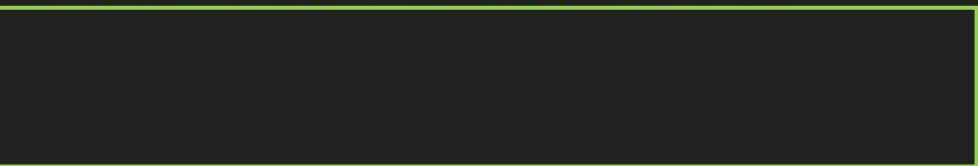
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5. **Data-Driven Urban Planning:** AI and data science support sustainable urban development by simulating the impact of various mobility strategies, informing policies that balance safety, efficiency, and environmental goals.

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Here are the top 5 topics relevant to AI and data science in increasing road safety and promoting sustainable mobility and urban development, along with a one-sentence summary for each:

2. **Predictive Maintenance for Infrastructure** Summary: Data science techniques enable predictive maintenance of roads and transportation infrastructure, enhancing safety and reducing long-term costs.



5. **Pedestrian and Cyclist Safety Systems** Summary: AI-powered computer vision and sensor technologies can enhance the safety of vulnerable road users by alerting drivers and adapting traffic signals in real-time.



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faster better data  
**collection**

faster scientific  
**analysis**

faster data-driven  
**actions**



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# People as the metric in the age of AI



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**Our mobility problem is a space (re-)allocaiton issue**

**20000-100000 people per day**



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# **450000-550000 people per day**



**~20% of space**



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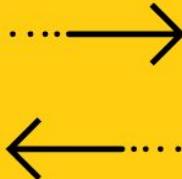
**Connected**



**Accessible  
/ Attractive**



**Reliable**



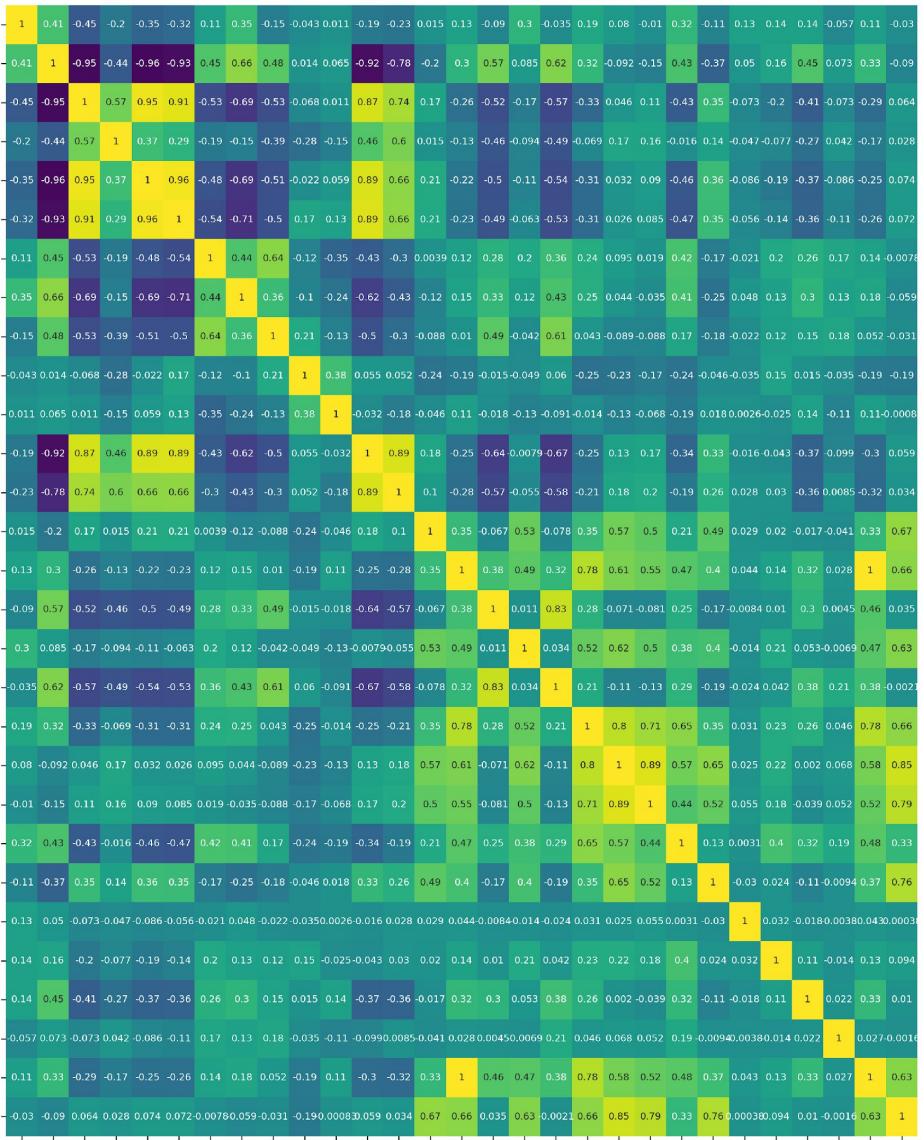
**Direct**



**Safe**



Attributes related to infrastructure supply, traffic demand, transportation supply, environmental factors, social factors, economic factors, and other relevant factors



Attributes related to infrastructure supply, traffic demand, transportation supply, environmental factors, social factors, economic factors, and other relevant factors



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## Business solutions in urban mobility



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## Automotive



WAYMO



## Mobility Services



ANGKAS



## Delivery Services



## Planning Tech



**Mobility Vision+**  
ENHANCING YOUR FUTURE OF URBAN MOBILITY

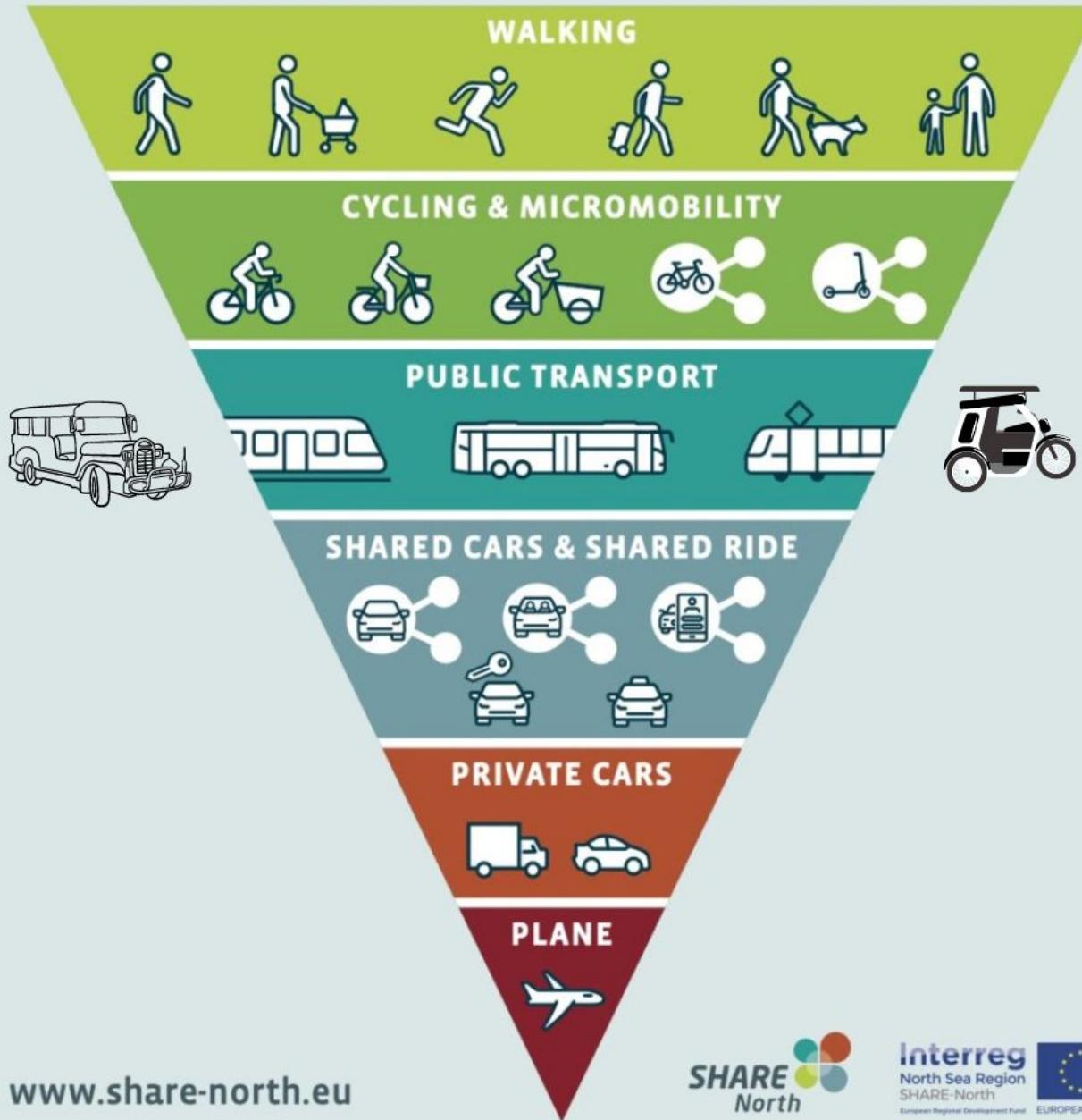
## Infrastructure Tech



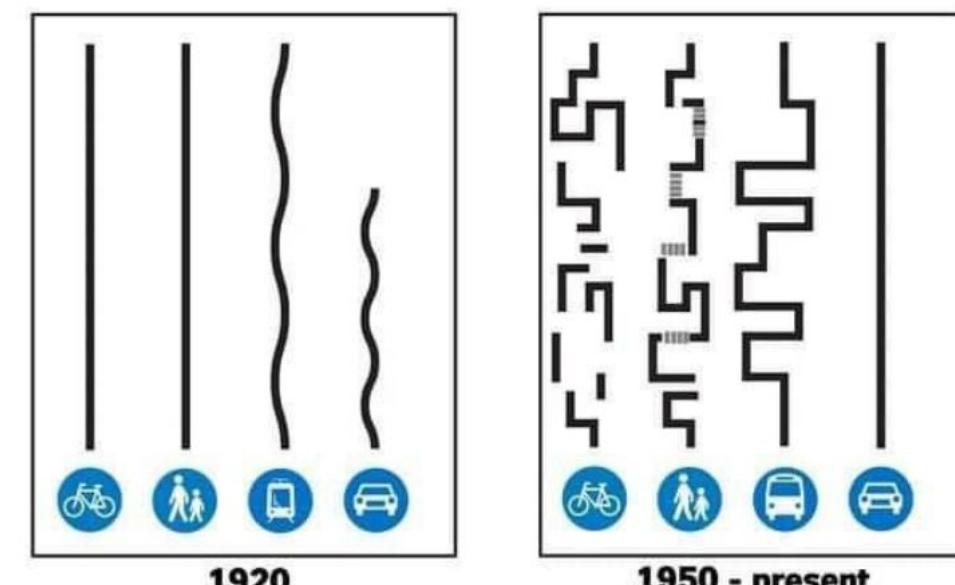
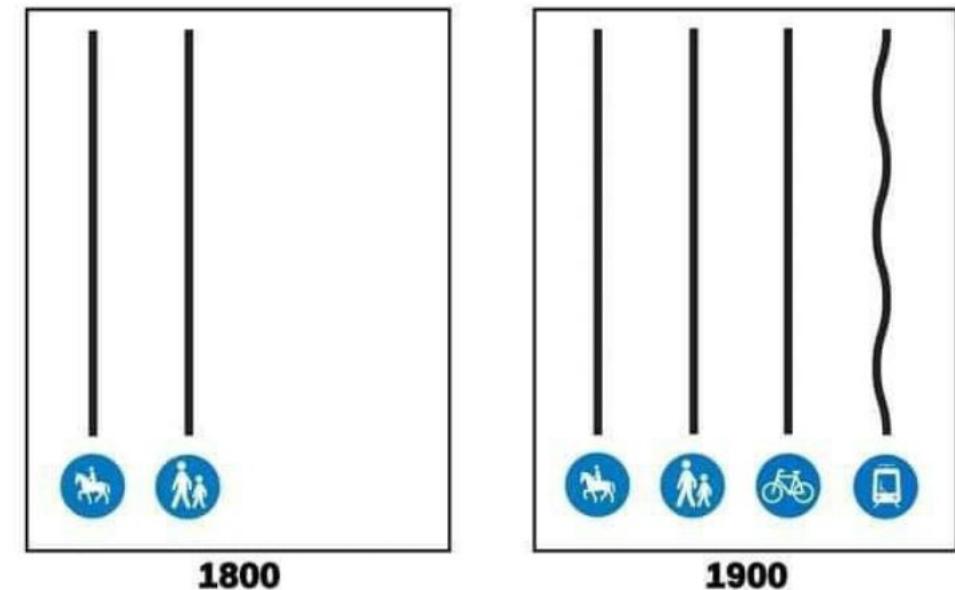
Sustainability in business



# MOBILITY PYRAMID



## A Short History of Traffic Engineering



**3**

**The goal of your innovation:  
Your customers' problems and  
needs**



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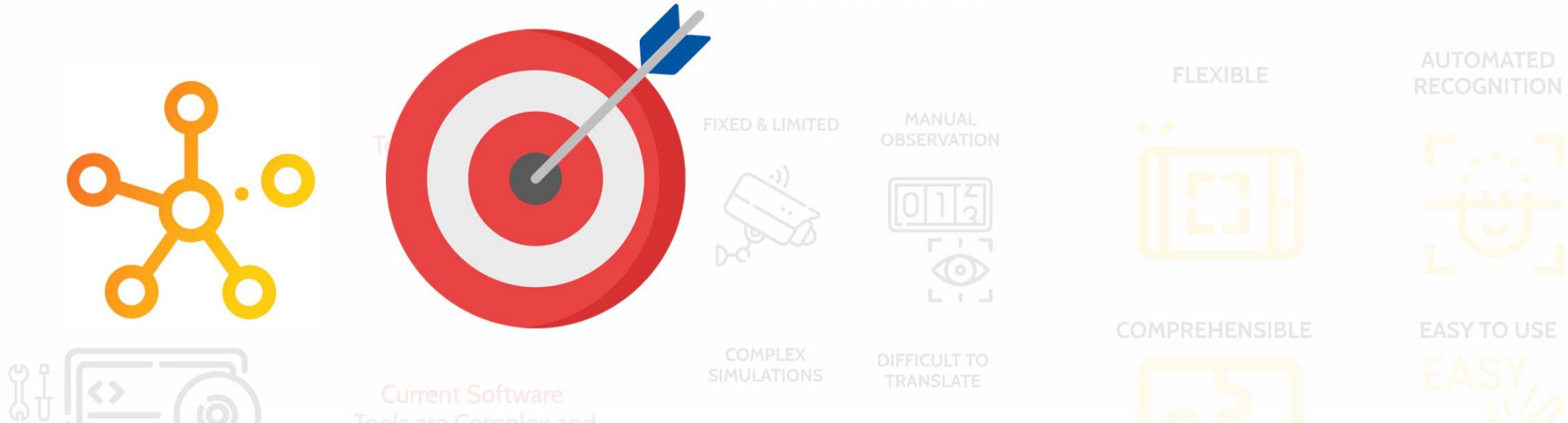
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# The MoVi+ Solution



## Cut Sustainable Mobility Planning Time from Years to Hours



Decision-Making is  
Complicated and  
Often Unguided



## Final advice

**Charge what you are worth**



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# Mobility Vision+

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