SMARTX
Community Exchange

Smart Mobility

Traffic Control and EV Guidance

A transformative approach to smart mobility and energy optimization

www.SmartCommunityExchange.com

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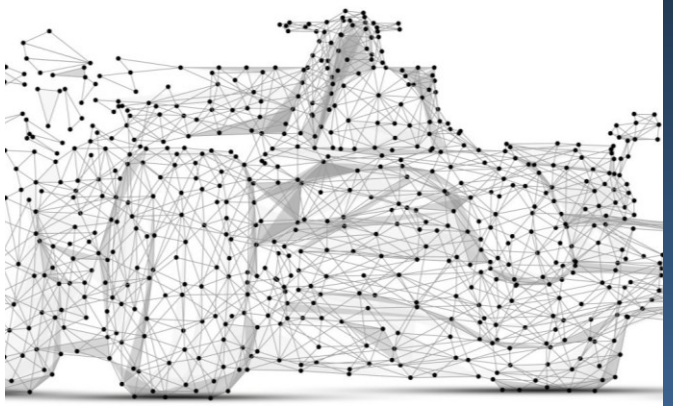
Introduction

The Personal Intelligent Access Node (PeAN) is a next-generation communication and computation device designed to provide decentralized, real-time, and adaptive control across connected networks



In transportation, PeAN enables a cooperative, data-driven environment between vehicles and infrastructure, offering major improvements over traditional GPS-navigation systems.

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Traffic Control and Congestion Reduction

PeAN nodes act as localized communication hubs between vehicles and infrastructure,

Collect data and coordinate traffic in real-time, reducing congestion by up to 40% through route optimization, entry/exit ramp management, and predictive rerouting.

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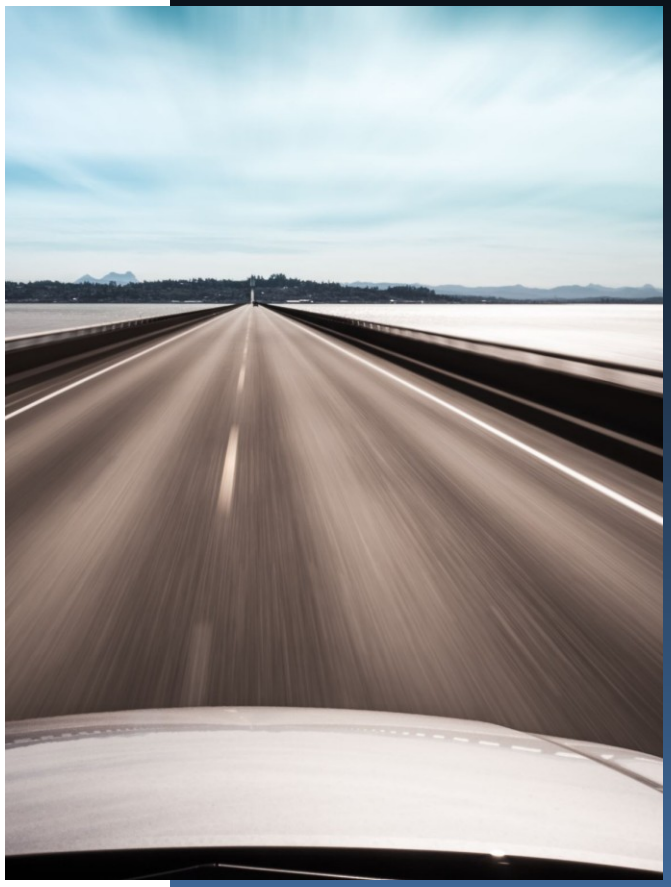
Road Safety Enhancements



PeAN enhances safety by delivering proactive driving assistance, alerting drivers to upcoming hazards, optimizing lane changes, and supporting emergency response with instant data transfer and GPS precision.

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Smart EV Charging Guidance

PeAN can calculate exact range and identify optimal charging stations in real-time

It creates charging schedules tailored to EVs' needs and ensures charging stops are efficient, avoiding range anxiety and unnecessary delays.

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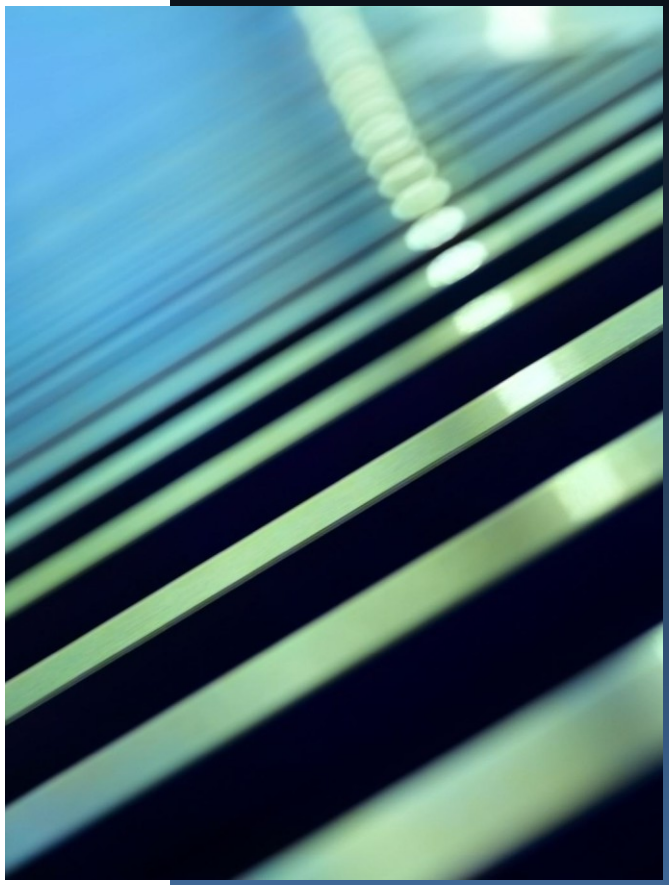
Comparison with Traditional Systems

PeAN outperforms centralized systems by providing decentralized, low-latency, vehicle-integrated decision-making

It personalizes driving, charging, and stopping decisions, enhancing real-time responsiveness and user satisfaction.



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User Experience and Behavioral Impact

PeAN encourages energy-efficient and stress-free driving, offers gamified feedback, and supports predictive and adaptive travel planning, especially beneficial for EV users.

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Conclusion

PeAN is a transformative solution for vehicle traffic and EV ecosystems

It surpasses Google Maps with real-time, decentralized intelligence, leading to safer, more efficient, and smarter road usage.

Next Steps

Deployment Scenarios

Initial deployments in smart cities and EV-dense regions are recommended,

Future integration includes **autonomous vehicle systems** and collaboration with **infrastructure providers**.