

AirWay

Smarter Traffic. Cleaner Air.

presented by Zohre Afshar

Pitch DEck Competition 2025 Powered by Catharsis.



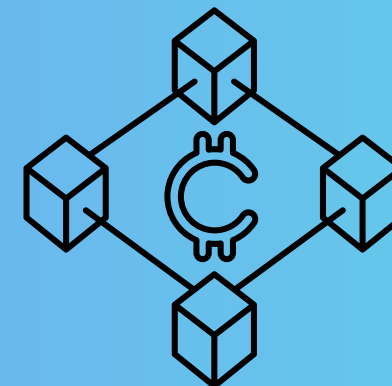
Innovative Technologies to Combat Climate Change Challenges



Leveraging AI traffic to prevent from climate changes,



Utilizing Satellites for real-time environmental monitoring



Implementing Blockchain for transparent carbon credit tracking

Technological Milestones in Climate Innovation



AI Integration

AI improves data analysis for climate monitoring.



Satellite Deployment

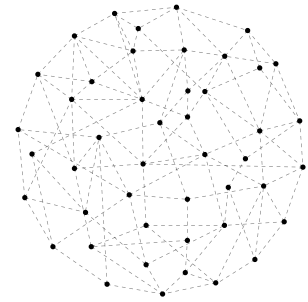
Satellites provide real-time Traffic controlling



Blockchain Implementation

Blockchain ensures transparency in the safety of traffic monitoring.

AI Traffic Solutions



Data Analysis

Leveraging AI algorithms to analyze traffic patterns for efficient traffic light management.



Predictive Modeling

Using AI to forecast traffic congestion and optimize routing decisions.



Blockchain Efficiency

Transparency

Blockchain ensures clear visibility of all transactions.

Security

Every transaction is securely recorded on the chain.

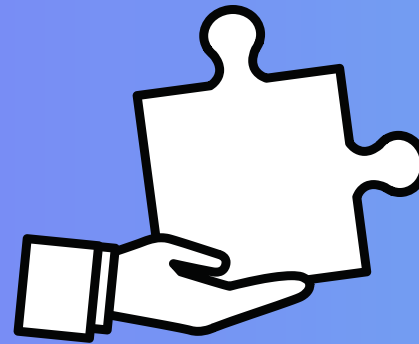
Traceability

Easily track the origin of data and assets.

Collaboration

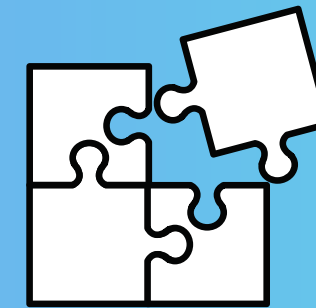
Facilitates real-time sharing of information among stakeholders.

Satellite Solutions



Data Accuracy

- Real-time updates
- Enhanced precision



Connectivity Improvements

- Global reach
- Increased bandwidth



3 million vehicles

Impacting urban air quality



40% reduction

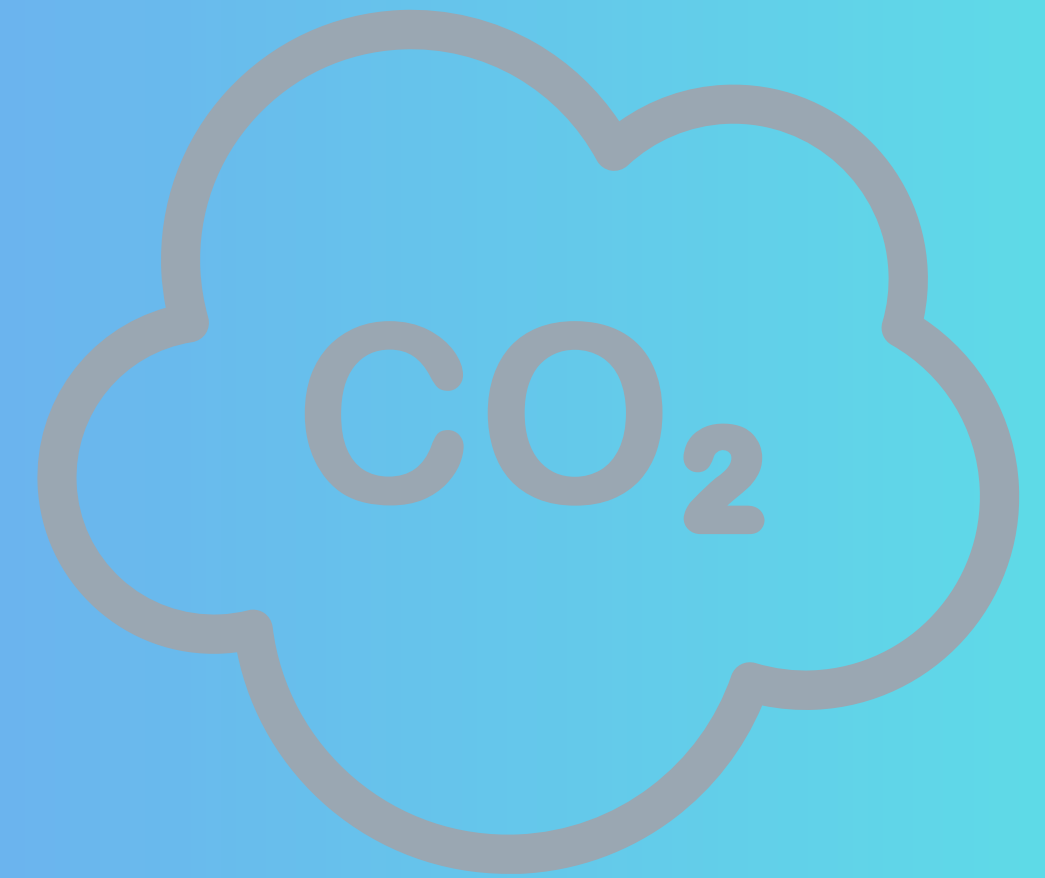
In traffic-related emissions



500 cities monitored

For improved traffic
management

Innovative Traffic Management Solution



🚗 1 idling car = ~ 0.3 kg CO_2 /hour

🚦 Avg intersection = 5000 cars/day $\rightarrow$ 166 idle hours

🌍 ~ 50 kg CO_2 /day saved per intersection

🌳 40% cut = 20 kg CO_2 /day $\rightarrow$ 20 tons/day across 1,000 lights
= Planting 1,000 trees daily

Technology Stack

Explore the **future of transportation** through innovative technologies designed to enhance connectivity, reduce congestion, and create sustainable urban environments for all users.

AI/ML

- Reinforcement learning, predictive models

Satellites + IoT

Real-time city-wide visibility

Blockchain

Secure, auditable decision logging

Cloud/Edge

Low latency, scalable infrastructure

Time line of AirWay



- Q2 2025: AI model trained on 1 urban district
- Q3 2025: Blockchain prototype and pilot in partnership with a city
- 2026: Expand to major cities, integrate with public transport and EV networks
- 2027: Offer carbon credit tracking + eco-driving incentives

Smart Transport

Innovative technologies are transforming urban mobility, enhancing efficiency and sustainability in transportation systems worldwide.

Autonomous Vehicles

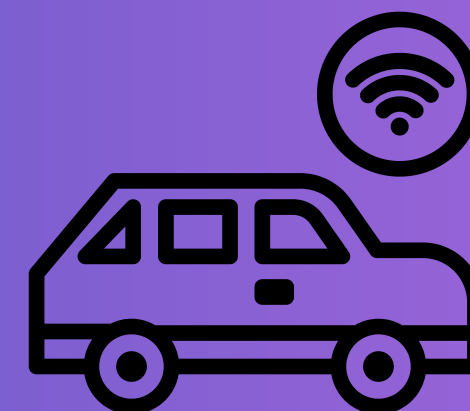
Self-driving cars enhancing road safety

Mobility-as-a-Service

Integrated transport solutions for users

Smart Traffic Management

Data-driven systems optimizing traffic flow



Mobility

Exploring layered diagrams of smart mobility systems

Autonomous Vehicles

- Self-driving technology
- Enhanced safety features
- Efficient route optimization

Public Transport

- Integrated systems
- Real-time tracking
- Eco-friendly options

Mobility as a Service

- Subscription-based models
- Seamless user experience
- On-demand transport solutions

Smart Infrastructure

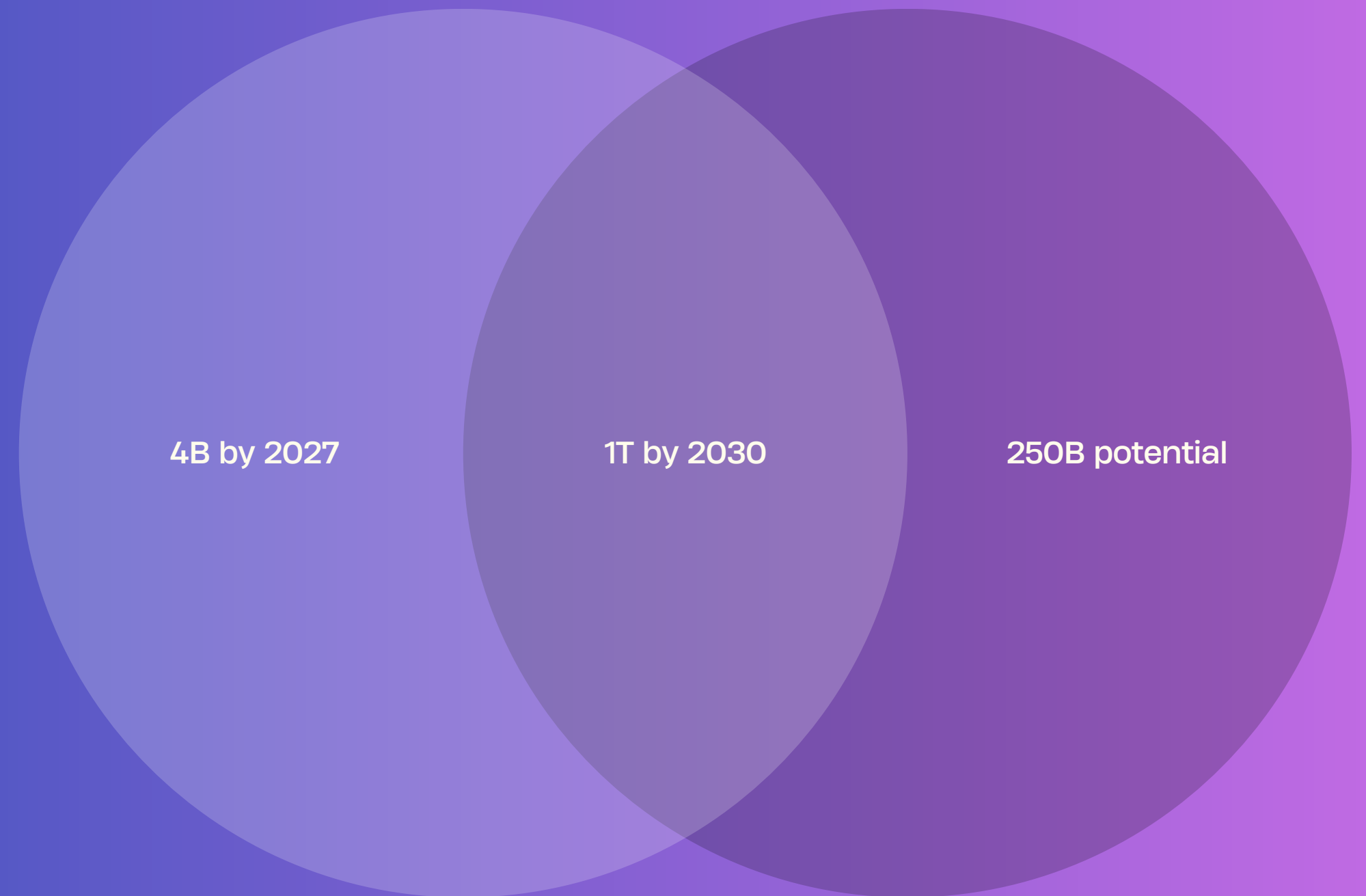
- Connected traffic signals
- Data-driven insights
- Improved urban planning

Electric Vehicles

- Sustainable energy sources
- Reducing emissions
- Incentives for adoption

Market Size

- Smart Traffic Market: \$4B+ by 2027
- Global Smart Cities Market: \$1T+ by 2030
- Carbon Credit Market: \$250B+ potential

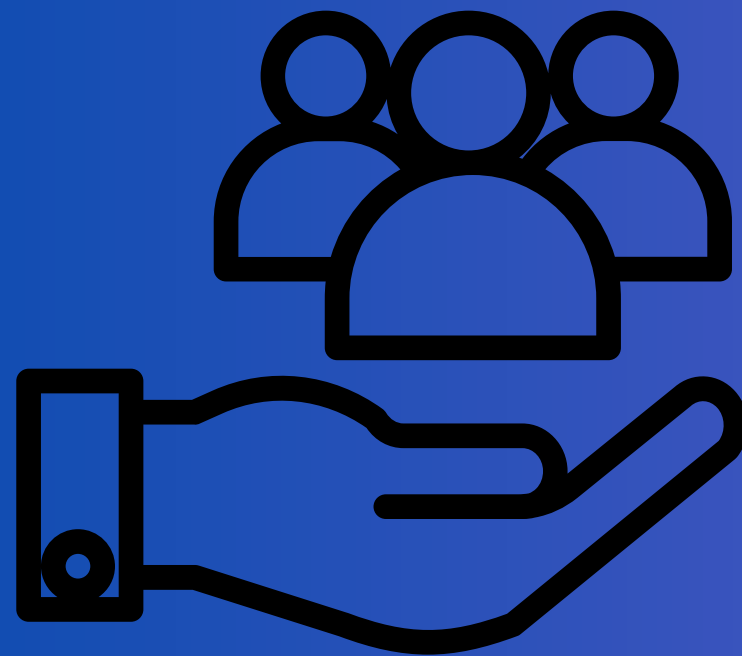


Revenue stream



- **Smart City Contracts:** Municipalities pay subscription fees for AI-powered traffic optimization (SaaS model)
- **Licensing:** Licensing AI + blockchain platform to traffic system providers
- **CO₂ Offset Tracking:** Earn carbon credits from verified emissions reductions
- **Data-as-a-Service:** Sell aggregated traffic and environmental data to researchers, insurers, urban planners

Potential Customers



- **City Governments (smart city initiatives)**
- **Transport Authorities**
- **Private Infrastructure Firms**
- **Climate-Focused NGOs**
- **Insurance Companies & Fleet Managers**
- **Carbon Credit Marketplaces**

Profit Potential Example



- **Mid-sized city with 500 intersections:**
- **\$1,000/month/intersection SaaS fee = \$6M/year revenue**
- **CO₂ reduction of 3,000 tons/year = eligible for carbon credits worth ~\$100K+**