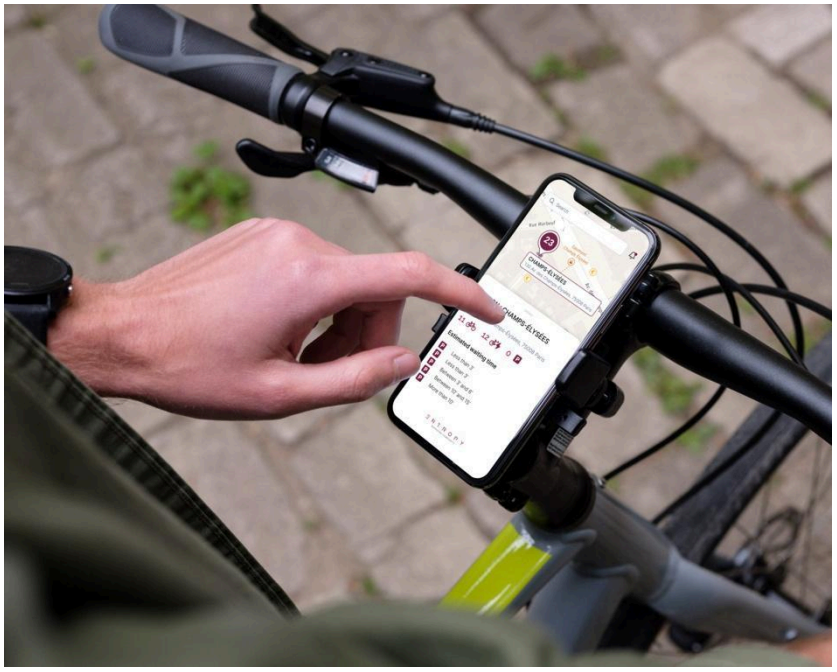
CES 2025: Entropy Transforms Urban Mobility with Azoth, the AI That Sees the Future of Every Journey

Imagine a future where every trip is anticipated, bike stations are never empty, and users always find the perfect mode of transport at their fingertips. That future starts now!

Experience Azoth by Entropy at CES
Venetian Expo, Hall G - 60615 (Location here)



- **24 hours ahead**: Azoth predicts user demand and needs for every station and network, enabling proactive management.
- **98% accuracy**: Forecasting vehicle and parking space availability within 5 minutes.
- **73%**: Gain in prediction precision, for a better fleet management.
- **92%**: Operational performance improvement through accurate demand predictions.
- **Fewer unnecessary trips**: Lowering CO2 emissions.

What if transportation services could anticipate users' needs before they even arise? Entropy, a leader in everyday mobility analytics, introduces Azoth—a groundbreaking AI platform redefining urban flow prediction based on a predictive AI model. Powered by the *Infinite Transformer*, Azoth analyzes real-time data such as vehicle geolocation, weather, trip history, and local events to forecast passenger movements up to 24 hours in advance. Say goodbye to wasted trips, empty or overcrowded stations. This cutting-edge technology transforms fleet management into an exact science, revolutionizing mobility by making it seamless, cost-effective, and eco-friendly.

Azoth: A Smart Solution to Critical Mobility Challenges
Empty stations, inefficient trips, long waits—anticipating user demand is undoubtably one of the biggest challenges for mobility services. For example, 20% of shared bike stations are empty when

needed, while others remain underutilized. These inefficiencies are costly for operators and frustrating for users.

Azoth addresses these challenges with its predictive AI model, capable of delivering precise forecasts 24 hours in advance for every station and network. Learning from past patterns and external factors like weather and local events, Azoth leverages billions of data points to predict demand based on its future environment.

Seamless Mobility Without the Wait
No more frustrations or delays! Azoth ensures an unparalleled customer experience, where services arrive exactly when needed. It also eliminates endless searches for parking. This solution unveils exactly when and where a spot will be free, or when a vehicle will be available. Azoth's predictive capabilities provide 98% accuracy for availability forecasts within the next 5 minutes, helping users manage their time efficiently with reliable trip information.

This isn't just a transport service; Azoth reimagines mobility, making every trip smooth, predictable, and perfectly synchronized with the users' true needs—regardless of the transportation mode that they use.

Unmatched Profitability for Operators…
Azoth transforms fleet management by offering unprecedented precision in demand anticipation. Thanks to its predictive AI model, operators can know exactly how many users will be at a station, when they'll arrive, and where to allocate resources to meet demand.

By reducing uncertainty by **73%**, Azoth eliminates guesswork, ensuring optimal resource allocation. The result? Fewer unnecessary trips, improved vehicle availability, and reduced operational costs. Fleets are utilized more efficiently, maximizing performance and cutting superfluous expenses.

With Azoth, every decision is guided by accurate, reliable data, enabling operators to surpass traditional planning limits, enhance customer satisfaction, and maximize profitability. Each journey is transformed into a perfect economic operation.

…And a Lower Carbon Footprint for Both Operators and Cities
Beyond operational performance, Azoth is a game-changer for environmental sustainability. Its AI optimizes trips to reduce unnecessary travel, cutting energy consumption and CO2 emissions. Operators can achieve a perfect balance between economic efficiency, customer satisfaction, and ecological impact.

For local governments, Azoth is a strategic tool for achieving climate goals by easing transportation flows and reducing urban congestion. Its data also supports better infrastructure planning, contributing to the ecological transition of tomorrow's cities.

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To access the press kit, please click here.

About Entropy

Entropy has developed mobility knowledge solutions combining massive data fusion and Artificial Intelligence. Its aim is to provide a decision-support service for the design, adaptation and regulation of mobility-related services. The models developed by Entropy are based on real multi-source data such as GPS data, sensors, cartography, population knowledge, satellite imagery and meteorology. Entropy develops unique deep learning algorithms that enable robust modeling of mobility by integrating a heterogeneous data set on which it learns the deep structures of movements. The result of 4 years of research work at the VEDECOM institute, the Entropy team founded the company in 2019. Since then, Entropy has become a member of the Réseau Entreprendre Yvelines, has been awarded and classified Deeptech by BPI France, and is also the 2020 winner of the Ministry of Research's I-lab prize, which rewards the most promising and innovative startups in the French ecosystem.
In 2023, Entropy was the winner of the AI for Urban Mobility Challenge organized by the Greater Paris Region.

https://entropy.sc/en/

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