

Kraków - Poland

E-Cargo Bikes & E-Bikes Demand and Monitoring



Code: KR-UC01-B

Brief: Drone- and AI-based monitoring of bicycle traffic to support data-driven optimisation of traffic flow, intermodal connections between regional rail and bike-based transport, and urban mobility safety.



Key Urban Challenges Addressed:

- **Support climate goals** by promoting cycling and cargo bikes.
- **Provide data for urban logistics and infrastructure planning.**
- **Manage congestion and encourage modal shift.**
- **Improve safety and data-driven mobility policies.**

Goals & Anticipated Benefits:

- **Increase bicycle and cargo bike traffic.**
- **Improve cyclist and cargo bike user satisfaction.**
- **Create data-driven maps for safer, efficient routes.**

Ownership:

- **MobiLysis** will develop a system based on the analysis of data collected using drones.

Infrastructure:

- **Drone-based mobility monitoring system** with AI analytics.
- **No physical infrastructure required.**
- **Software platforms for drone coordination, data analysis, and dashboards.**
- **App-based research on user mobility behaviour.**

Location:

The solution is deployed in central Kraków, with a focus on the Grzegórzki district and its surroundings, including the UNESCO-listed Historic Centre and the SOR (Restricted Traffic Zone – Strefa Ograniczonego Ruchu). The system is designed to be mobile and modular, enabling the placement of distributed monitoring points across key urban locations.



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