



SYNCHROMODE

Case Study Locations

Our mission is to reshape traffic management using data-driven solutions. Imagine a toolbox filled with cutting-edge services, all tested in three real-world case studies.

We are utilizing our remarkable case study locations to create a toolbox with three game-changing services for transport network management. This toolbox optimizes short and medium-term operations for passengers and freight, fostering collaborative excellence among traffic managers, transport operators, infrastructure providers, and more. Our locations will contribute to revolutionizing urban transport, managing traffic for large events, and bridging mobility and logistics.



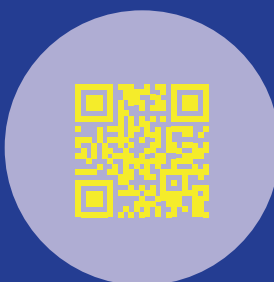
More Information

Contact us:
info@synchromode.eu

Contact the project coordinator:
Evangelos Mitsakis
emit@certh.gr

Visit our website and follow us on social media:

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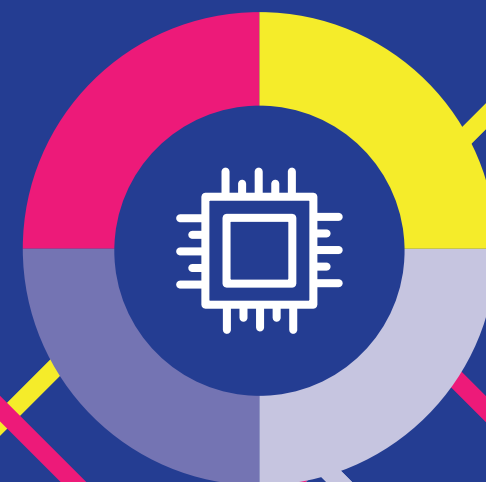


Our Partners:



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**Advanced traffic
management solutions
for synchronized and
resilient multimodal
transport services**



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SYNCHROMODE

Our Objectives

To develop advanced multi-actor cooperation models for multimodal mobility service operation, network and traffic management.

- Gathering data from all traffic network players – road operators, service providers, and you – to develop new multimodal network solutions. This includes defining data standards, reconstructing mobility patterns, and spotting bottlenecks with varied data sources.
- Introducing advanced simulation models for assessing network-wide traffic scenarios, predicting real-time traffic behavior, and addressing issues proactively for smooth travel, even during unexpected events.



- Creating a transport network optimization module for current and future mobility solutions, such as shared transit, public transport, and autonomous vehicles. This module optimizes multimodal transport networks efficiently using cutting-edge techniques.
- The centerpiece is the SYNCHROMODE toolbox – an innovative platform for traffic management authorities. This toolkit utilizes data from multiple sources to aid in incident monitoring, traffic control, and travel guidance. With AI capabilities, it forecasts and strengthens network resilience, resulting in smoother and safer commutes.
- Going beyond the current state-of-the-art, the project develops passenger-centered performance metrics and overall system indicators. It establishes data collection and storage guidelines. By factoring in behavioral impacts on demand and supply, the project enhances the accuracy of traffic predictions, addressing complexity and data volume. Combining data-driven and simulation approaches improves incident response and bottleneck identification across diverse scenarios and directions using real-time methods.



Our Services

Advanced traffic management solutions for synchronized and resilient multimodal transport services SYNCHROMODE aims to deliver a suite of services for improving the overall transport network management, fostering the coordination of different agents involved in the provision and control of the transport services.

These services are:

1. Transport network-wide data exchange and integration system
2. Cooperative dashboard for real-time monitoring and prediction of network-wide multimodal transport and traffic
3. Resilient multimodal transport network and traffic management support tool

Our dynamic consortium includes 16 partners across 7 countries, each bringing unique expertise. Leading the charge is CERTH, a trailblazer in advanced transport modeling and optimization. We're the experts in making transport smarter.

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