

Smart Park and Ride Management

Who will use it:

It helps city planners, parking management companies, and drivers by providing real-time parking availability. It improves urban mobility, optimises operations, and aids journey planning, reducing the time spent searching for parking spaces and ensuring a seamless transition to public transportation.

What could be the impact?

Drivers and commuters experience reduced stress and time savings as they can easily find available parking spaces, leading to smoother journeys and less congestion. A key component of this solution is the integration of park and ride areas, which are essential for urban mobility. These facilities allow commuters to park their vehicles on the outskirts of cities and use public transportation to reach their destinations. This approach significantly reduces traffic congestion in city centres, lowers emissions, and promotes the use of public transport. Overall, Yunex's solution, combined with the strategic implementation of park and ride areas, promotes smarter city planning, better resource utilisation, and a more seamless driving experience, contributing to a more efficient and sustainable urban environment. For city planners and municipalities, it enhances urban mobility by providing data-driven insights.

Development & testing in SPINE:

One year of parking data from the city of Valladolid is processed, and the parking analytics are provided as a containerised microservice to Konnecta for integration into the Spine's DT platform. Other Spine cities, like Barreiro, Gdynia and Zilina are in the process of recording one year of data.

Can it be transferred?

Cities need a parking monitoring system that collects data about the occupancy rate throughout a whole day over a period of one year. Having this data, the data can be processed, dockerized into a container and provided to Konnecta. Users can start the data query from the DT platform.

What's next:

Testing the integration of the dockerized container in the DT platform will be necessary to ensure that the entire system works seamlessly together. After the project, users like cities and drivers can still make use of the service.



About

The smart park and ride management solution offers a containerised microservice integrated into a hosting provider's system, like the Spine's DT platform, to deliver estimated parking occupancy levels. This service provides insights into parking patterns, aiding efficient management, and it delivers hourly occupancy averages based on historical data. Hosted in the DT platform, developed by Konnecta, it leverages Data Space capabilities. Users can query occupancy statistics by day and location, where the primary output is the number of available parking spaces, crucial for journey planning.

Key Features



Integrates a containerized microservice into hosting systems like the DT platform



Provides hourly occupancy updates based on historical data



Allows users to query parking availability by day and location for efficient journey planning, especially at park and ride areas.

