**PHASE 4 PROJECT**

**PUBLIC TRANSPORT OPTIMISATION**

**IMPLEMENTATION OF THE PUBLIC TRANSPORT OPTIMISATION:**

**. Smart and connected vehicles**:

IoT enables vehicles to be equipped with sensors, communication devices, and embedded systems that collect and transmit real-time data. This connectivity allows vehicles to communicate with each other and the surrounding infrastructure, improving road safety, traffic management, and efficiency.

* **Intelligent traffic management:**

IoT helps optimize traffic flow by collecting data from various sources, such as GPS devices, traffic sensors, and surveillance cameras. This data can be used to monitor traffic conditions, identify congestion areas, and improve overall traffic management.

* **Fleet management and logistics:**

The integration of IoT in [fleet management](https://scand.com/industries/logistics/fleet-management-software/) enables operators to track and manage their vehicles with exceptional efficiency. By utilizing sensors and GPS devices, fleet managers can receive real-time information on vehicle location, fuel consumption, engine performance, and maintenance requirements**.**

* **Intelligent infrastructure**:

IoT technology can be integrated into transportation infrastructure, such as roads, bridges, and traffic lights. Thisintegration enables real-time monitoring of infrastructure conditions, including structural health, traffic patterns, and environmental factors. By collecting and analyzing this data, authorities can make informed decisions regarding maintenance, repairs, and infrastructure improvements.

* **Passenger experience and safety:**

IoT technology plays a crucial role in enhancing the passenger experience by providing real-time information on arrival and departure times, delays, and alternative routes. In addition, passengers can stay consistently informed and up-to-date with the help of user-friendly mobile apps or convenient in-vehicle displays**.**

**WEBSITE LINK:**

**https://publictransportoptimisation.mydurable.com/**