

5G Use Case: Connected Intelligence Infrastructure Monitoring (CiIM)



The Scotland
5G Centre

**Dundee City
Public 5G Broadcast**
sends and receives
data at high speed

Why 5G?

The ability to transmit the LIDAR Sensor Data across the city in near-real time will enable Digiflec to provide a much more accurate image of the city's traffic and inform better council led decision making in road management in Dundee. The 'Mobile' nature of 5G will enhance the agility of Digiflec allowing them to model the city's needs across multiple locations without the need for intensive fixed installations.

LiDAR sensor

1. 3D LiDAR uses light to create a real-time distance map of objects, which provides their accurate location.
2. Software detects and classifies road users, and gathers information about their speed, dimensions and direction.
3. CiIM refines this data, offers insights, and sends notifications. This can be used for intelligent transportation systems, smart city solutions, and urban/transport planning.

LiDAR sensor

