

New SPaT Algorithm and Project Synergy

Project Synergy

As part of Project Synergy (established in 2019 and funded by Innovate UK) to test autonomous vehicles, Yunex Traffic and Transport for Greater Manchester completed a Connected Mobility trial on a challenging busy junction on Manchester Airport Relief Road / Styal Road (A555).

Aiming to provide traffic signal information to equipped vehicles, Yunex Traffic provided the turnkey solution:

- Producing V2X Map (MAP Message) for the proposed junction using MAP2X Tool.
- Developing and testing a **New Flexible SPaT** algorithm for this use case.
- Suppling an **ESCoS RSU** (which enables two-way vehicle to infrastructure communication).
- Generating and distributing **4 types of IVI messages** (In-Vehicle Information).
- Integrating SPaT/MAP messages with a third party OBU



V2X Map for A555 Airport Junction using MAP2X



New SPaT Algorithm

The New SPaT Algorithm was developed to bring **efficiency** and **flexibility** as well **new and improved features** for the next generation of Connected Mobility projects to provide the following benefits:





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