

University of **Salford** MANCHESTER

Connected Autonomous Vehicle

Project overview

Areas of interest & research

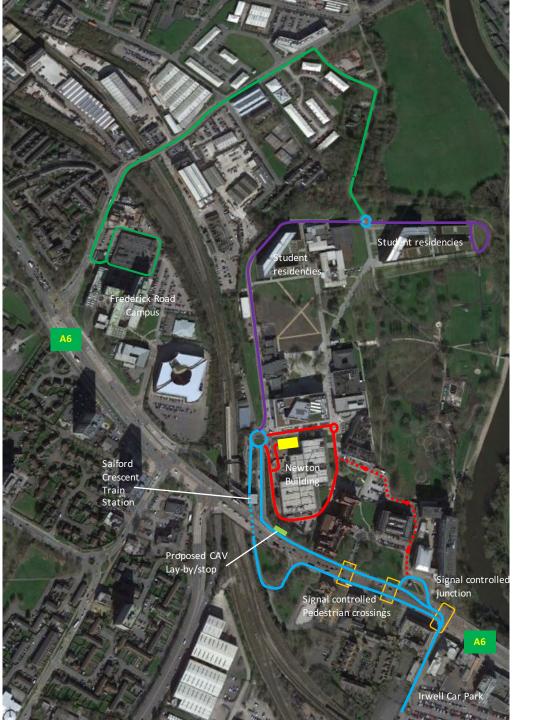


- Industry collaboration & partnerships
- Autonomous Systems
- Real-world deployment
- First mile last mile evaluation
- Cyber Security
- Behavioural Psychology
- Industry/academic research
- Curriculum development (in partnership with industry)

CAV test facility



- Provide a mixed environment CAV test facility
- Support CAV testing & deployment with academic research
- Phased deployment: private and public roads
- Links to public transport (train and bus)
- Vehicle to Infrastructure (V2i), Vehicle to Vehicle (V2V), (V2X)
- Working in partnership with industry



Proposed phase 1 route

Red lines. Will include the blue roundabout on University Road (public road).

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Proposed phase 1a route

Phase 1 route plus purple lines including the two blue roundabouts on University Road.

Proposed phase 2 route

All blue lines are public roads. This route includes the Bus lanes on the A6 and navigating traffic signals (V2i).

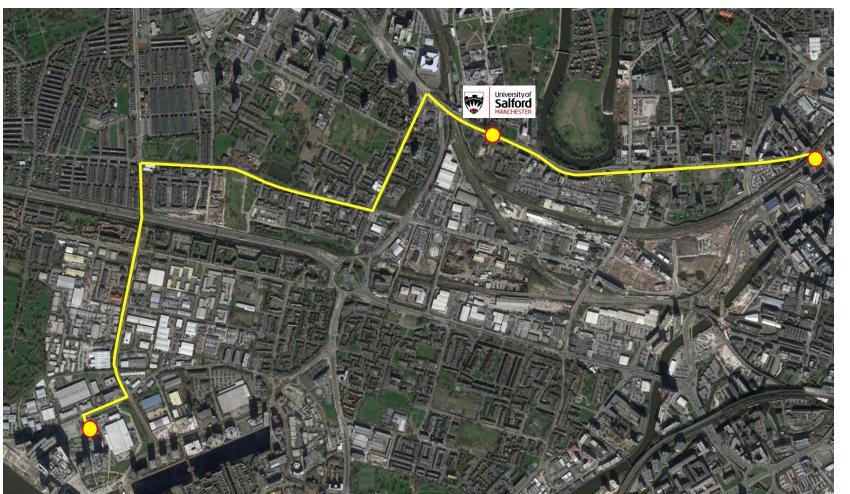
Proposed phase 2a route

This route (green) would see the Peel campus linked to Frederick Road campus. This route will require crossing traffic with no traffic control.

The yellow rectangle is the AAVT facility

Potential future expansion





Salford Central Train station

University of Salford Media City campus

Strategic focus



- University commitment and investment
 - Level 4 autonomous vehicle
- Building on establish areas of excellence
 - Computing, Data Analytics, Cyber Security, Autonomous Systems, Built Environment, etc.
- Alignment with UK Industrial Strategy
 - Future of mobility, clean growth, aging society, etc.
- Establish exceptional and mutually beneficial partnerships
 - TfGM, Salford City Council, NAVYA, and more (please contact us).



Salford City Council

NAVYA – Autonom Shuttle

Faith Centre





Challenges



- Vehicle registration
- Insurance (secured)
- Health & Safety
- Risk assessments (public roads)
- Campus development
- GPS Antenna (range)
- Route mapping & commissioning

Next Steps



- Route mapping (campus roads) October 8th (completed)
- Vehicle commissioning October 10th, 11th, 12th (completed)
- Staff training October 15th, 16th, 17th (completed)
- Initial test run before end of October (completed)
- Initial testing November 2018
- Regular testing January 2019 onwards
- Phased expansion of test route February 2019
 - Pending success of previous tests routes

Questions?