

CCAM R&D&I Ecosystem in United Kingdom



As a Horizon Europe associated country, the UK is actively embedded in the European Connected, Cooperative and Automated Mobility (CCAM) landscape, collaborating to advance road safety, traffic efficiency and automated vehicle (AV) technologies. Through national CAM testbeds, including initiatives in London, and coordinated efforts led by organisations such as Innovate UK Business Connect and Zenic/APC, the UK aligns

with EU-wide, user-centric and sustainable mobility objectives. A strong emphasis is placed on public trust, safety, skills development and inclusive, socially responsible transport solutions and local input to automated passenger services' ensuring that CCAM deployment responds to societal needs while contributing to Europe's long-term vision of a fully connected and efficient transport system by 2050.

Main Stakeholders, Pilots & Deployments

- Deployments
- Pilots



POLICY

- Regulation and Legislation: Centre for Connected and Autonomous Vehicles (CCAV)
- Industrial Strategy and R&D funding: Automotive Unit, Department for Business, Science Innovation and Trade (BIST)

R&D PILOTS

- CAVForth, Edinburgh Scotland (2019)
- SAMS, Sunderland (Jan – Mar 2025)
- Harlander, Belfast (Mar 2023 – Mar 2026)
- StreetCAV Plus, Milton Keynes (Jul 2025 – Mar 2026)
- SCALE 2, West Midlands (Jul 2025 – Mar 2026)
- P-CAL, Tyne (2025-2026)

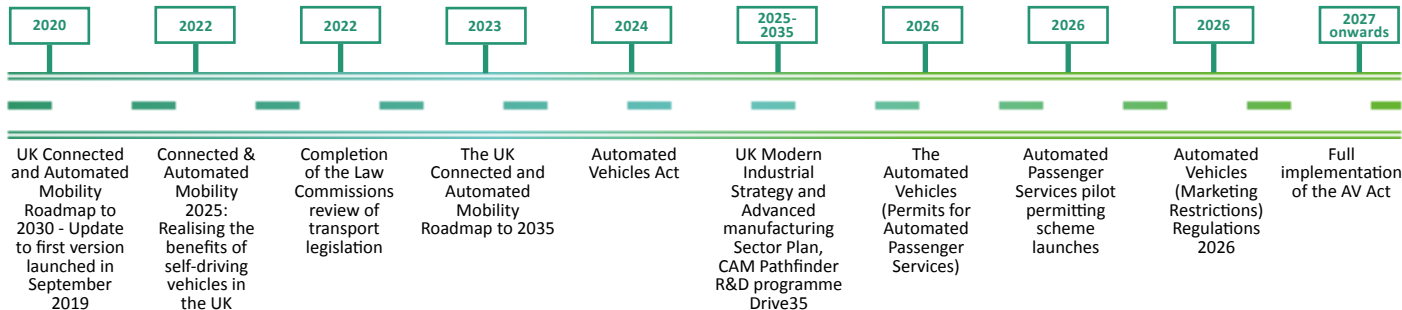
INDUSTRY



DEPLOYMENT



National CCAM Timeline



Primary R&D Topics

- Automated Driving Systems (ADS), drive by wire, radar and digital twins
- Large-scale demonstrations & testing
- Trustworthy AI & cybersecurity
- Human-centred design & societal readiness
- Intelligent Transport Systems (ITS)
- Data governance & management
- Environmental impact & efficiency
- Benchmarking safety frameworks, societal benefits, legal framework
- Accessibility and safeguarding

Relative Fleet Sizes

🚗 = 50

Waymo (100)



Oxa (off-road) (80)



Baidu (Uber/Lyft) (50)



Wayve (Uber) (50)



Cambridge Connector (5)



Nissan (small specific fleets)

Building Block Index

Successful implementation of CCAM depends on a combination of regulatory, organisational, technical and societal conditions that enable automated mobility solutions to move beyond pilot projects and into everyday operation. Europe has identified the following key Deployment Building Blocks (DBBs) to support this transition: Vehicle (inside the vehicle), Person (users, citizens, workforce), Physical & Digital Infrastructure (communication, roadside, server), Business, Design and operations (operational challenges, lessons learnt, integration into public transport) and Regulation. A qualitative assessment by the CCAMBassador team to see to what extent these building blocks are addressed in the various regions around the world led to the following insights / relative ranking. In the United Kingdom the most mature building blocks are Regulation, Vehicle and Business, followed by Physical & Digital Infrastructure, Design and operations and Person.

This factsheet is based on publicly available information, input from CCAMBassador experts and relevant national stakeholders. Despite best efforts to ensure accuracy and completeness, it should not be considered authoritative or exhaustive. Suggestions or remarks? Contact info@connectedautomateddriving.eu

