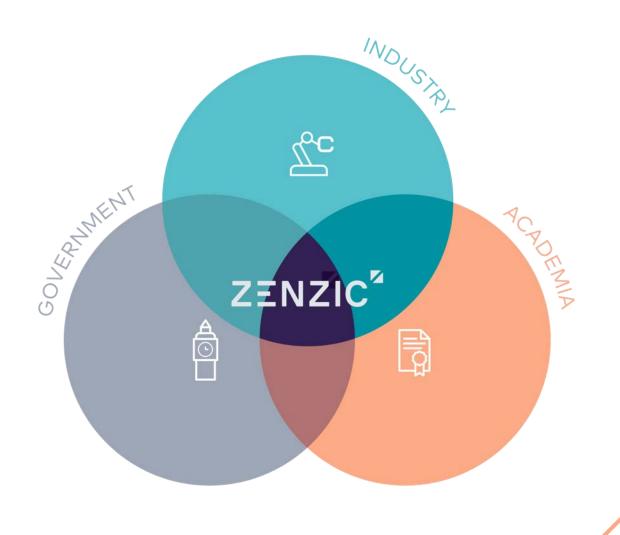




Championing the UK connected and automated mobility (CAM) ecosystem





CAM Testbed UK

- HORIBA MIRA-Coventry
 University CAV Testbed
 Urban parking
 Limit of controllability
 Connected and configurable
- Midlands Future Mobility
 Highly connected
 real-world and digital
 environments
- Convex
 Data
 Virtual

- CAVWAY
 Configurable junctions
 Flexible connectivity
- Millbrook-Culham
 Urban Testbed

Secure site Controlled and semi-controlled

Smart Mobility
Living Lab
Public and private
London roads
Digital and
real-world testing



















Data

Parking

Rural

Highways

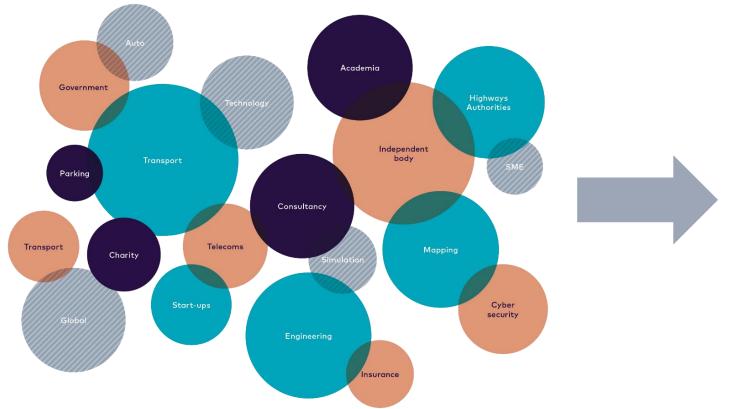
Urban

Physical

Virtual

Coordinating a cross-sector ecosystem towards long-term benefits

Cross-sector ecosystem



Successful at-scale deployment of CAM













The Roadmap provides direction for businesses, investors and policy makers for the mobile future. It is a tool, created by and intended for multiple sectors, forging new relationships and achieving collaboration across industries.



Collaborative view



Reduction of risk



Insights



Shared vision

"By 2030, the UK is benefitting from proven connected and automated mobility, with an increasingly safe and secure road network, improved productivity and greater access to transport for all.

Next-generation services and technology are designed and developed in the UK, powered by high value skills and a strong supply chain, and driven by public demand, we are a world leader."

2030 Vision

THEME

People

STREAM

Vehicle Approvals

Licencing and Use Legislation and Insurance

Public Desirability

Investment

Skills

WC

Major Milestones

2020 – Advanced trials approval process in place

Common

standards Safety data

standards

2021

Human interaction research

Low cost high precision

sensor development

Establish investor

forums

2021

Local codes of conduct

for services

Common risk and

liability understanding

Increasing dialogue with the public

2023

2023

Alignment with the wider

future of mobility

Data sharing

2024

Visible CAM benefits deliver

on investor confidence

2024

2024 – Nationwide licencing approach for CAM services 2025

Medium complexity design domain

TRANSITION PHASE

2025

National licencing scheme

for CAM services

Changes in legislation

Increasing public experience

National approval scheme

2026

Legacy fleet connectivity

Intuitive HMI and CAM vehicle design

Improvement of skills pipeline

2026

2025 – National vehicle approval scheme in place 2028

High complexity design domain

Enhanced sensor development

Ubiquitous cooperative communication

High utilisation vehicle design

SCALE-UP AND REALISATION OF BENEFITS

Agile and adaptive development of CAM service regulation

Insurance policy refinements and lower premiums

2028

2029 2030

Widespread acceptance

and use of CAM

CAM is a high value, low risk

investment at scale

Sustaining skills pipeline

2029

International approval harmonisation

2030

Automated Driving System

Connectivity

Ergonomics and Design

Sensors

Major Milestones

NOW

NOW

2021 – Data sharing agreements in place

TRIALS, DEVELOPMENT AND ENABLING

2022

Advanced trial approvals

Structural changes

to scale-up funding

Establish skills centre of excellence and pipeline

2022

Low complexity design domain

Cooperative data sharing

validation methodology

Common HMI guidance

Deliver initial sensor

Deliver full sensor

validation methodology

2027

2027

Desirable mobility

2027

Grow FDI and export

markets for CAM

2028

2027 – Safety vehicle connectivity

2030

2030

Communications

Digital

Roads

Intelligent Network Management

Test and Development

Major Milestones

Refresh Testbed UK

NOW

Personal Mobility

Freight and Logistics

Inclusive Transport



2021 2022 2023 2024 2025 2026 2029 Agree communications approach High connectivity across Plan coverage and rollout Deploy CAM road safety infrastructure at a national level the road network Virtual road environments for Define data governance Develop virtual road National operational Deploy virtual road environments for CAM environments for CAM and ownership data hub operational management New planning and investment guidance Digitisation of signage assets Digitisation of road rules Repurpose infrastructure Understand new travel demands through trials Define new operational models Deploy new operational models Increase network efficiency Cyber centre of excellence Deploy virtual test environments Develop automated validation 2020 - Testbed UK live 2024 – UK-wide virtual environments for test and development 2027 – Roadside signage no longer needed 2024 2021 2022 2023 2025 2026 2027 2028 2029 CAM preferred in public Demonstrator Deployments plugging Small scale passenger deployments trials mobility gaps service contracts New freight policy Small scale Last mile CAM delivers productivity benefits Low complexity trials developments Understand how CAM can improve access to transport Trials and pilots Commercially viable service deployment Sustainable and inclusive CAM services 2021 - First commercial pilot deployment of CAM 2028 – CAM services are preferable in contracts







The Roadmap is a toolkit

What are the Roadmap tools?

Interactive Roadmap

Roadmap report

Roadmap overview

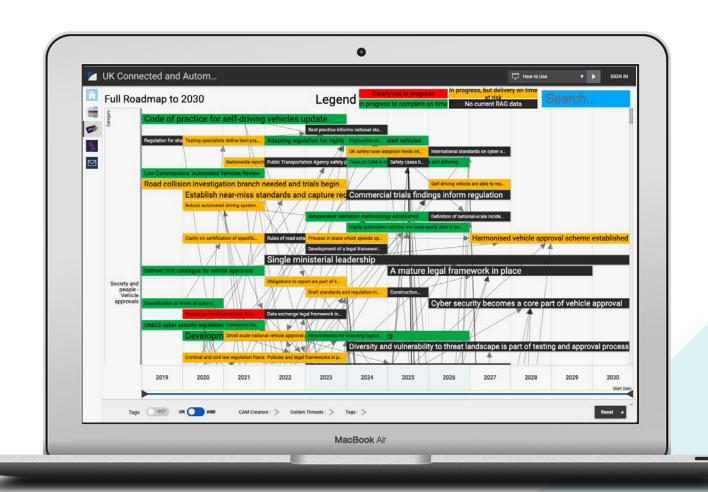
Insight workshops



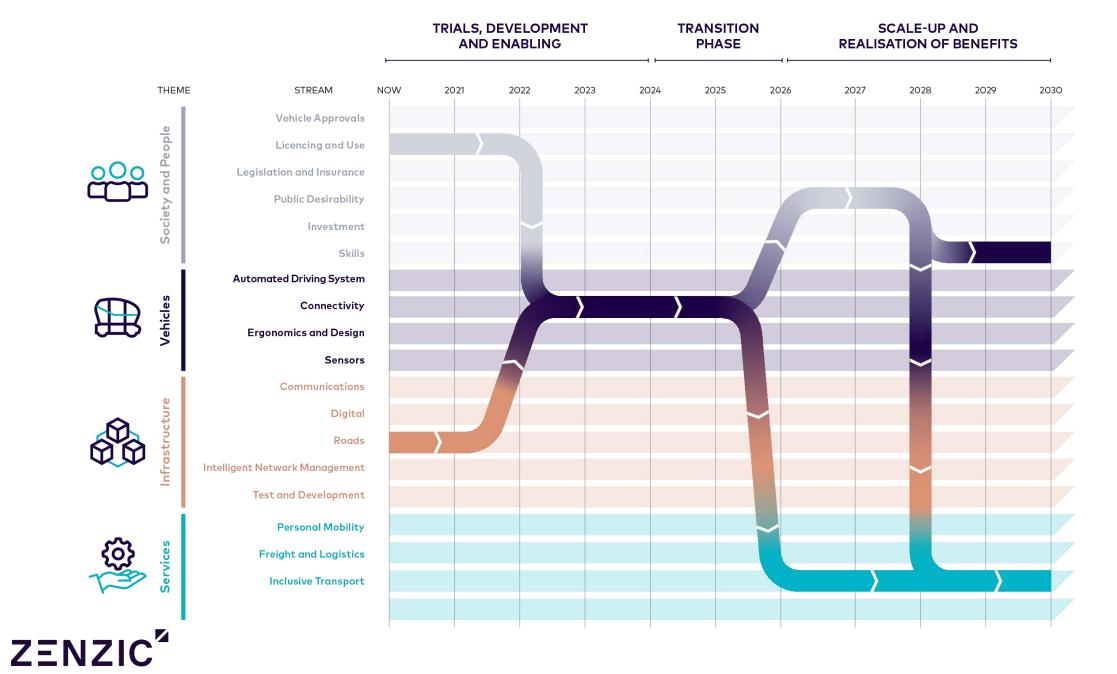


The interactive Roadmap - Home to the

Roadmap's rich activity and relationship data





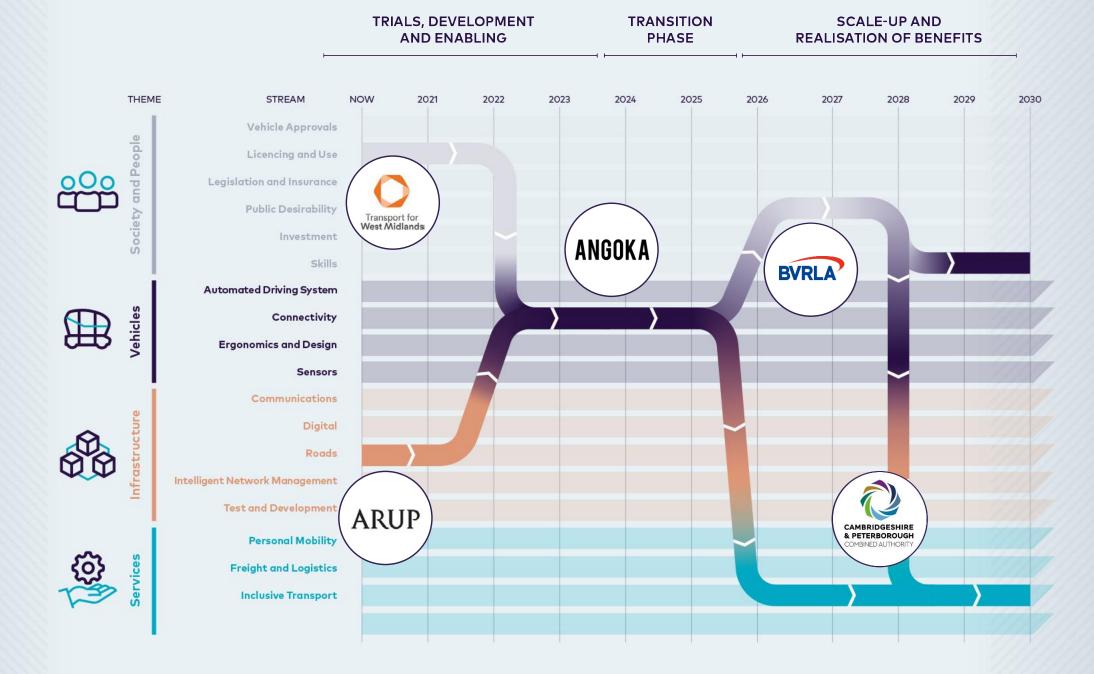


The CAM Creators Update

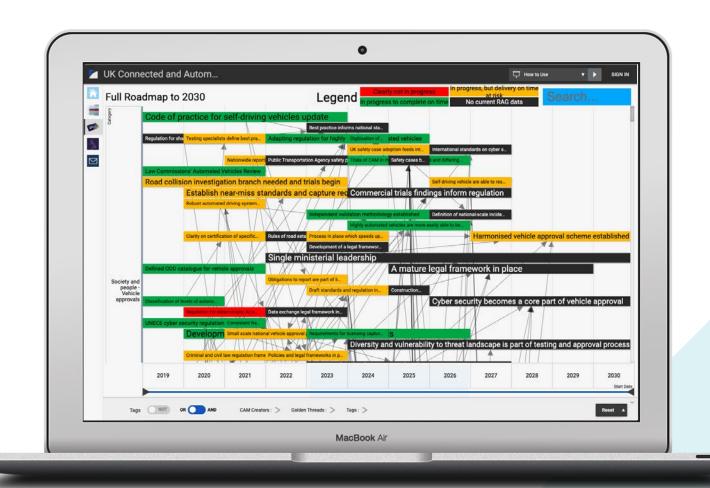
The Roadmap and CAM ecosystem working together



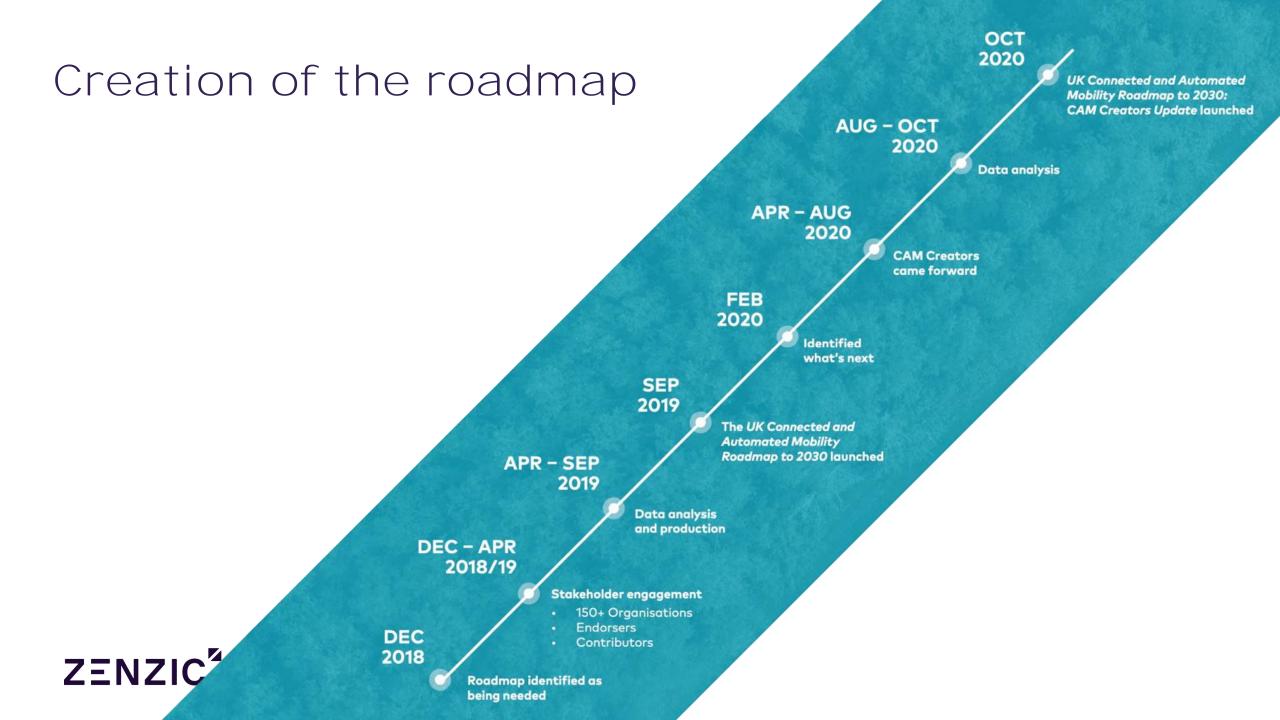
By ensuring real-world progress is reflected in the Roadmap, and vice versa, we can sharpen consensus and accelerate progress.



The interactive Roadmap - Home to the **Roadmap's** progress data







200+ Organisations

117 CAM Creators



300+

Individuals

250 +

Milestones in Action







Loughborough

University













Driver & Vehicle Standards Agency































































































Foundation

















ERTRAC

























council

automotive 2



AFFIVAL













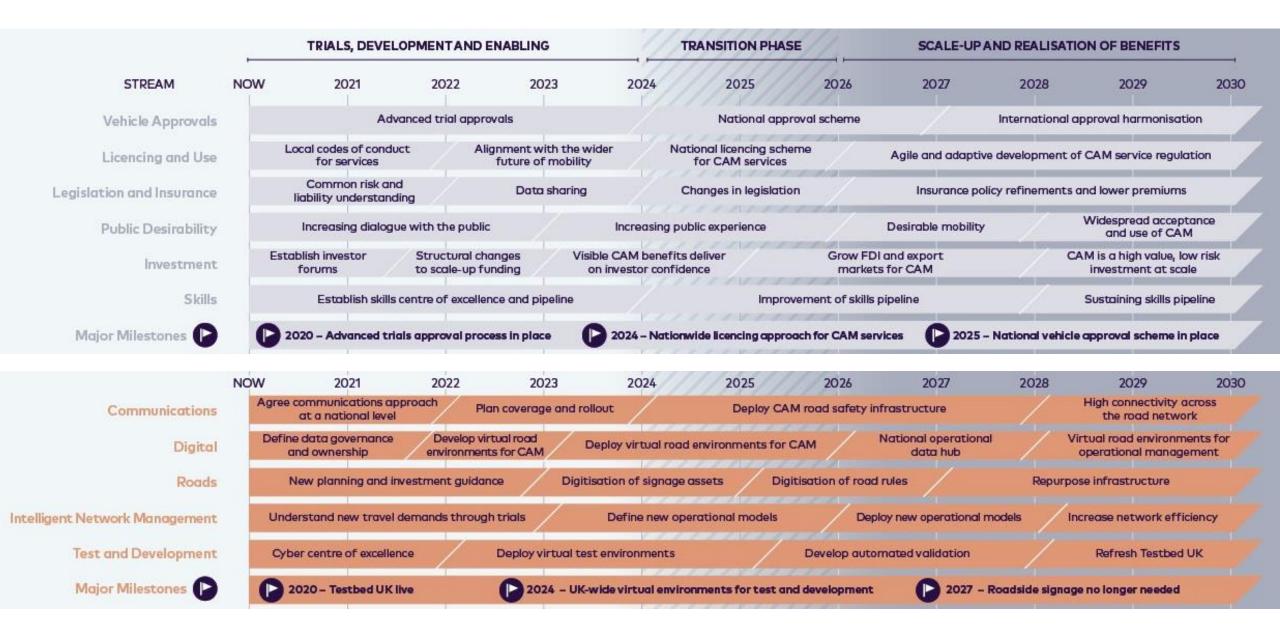










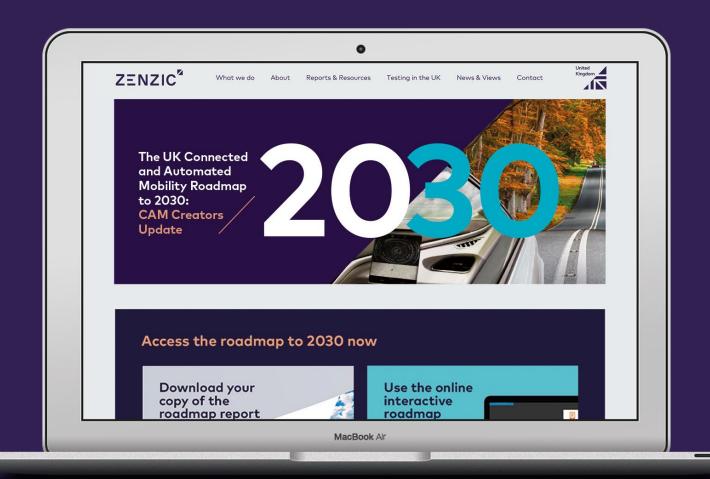




Want to find out how the Roadmap can benefit your organisation and CAM projects?

Access the interactive Roadmap at zenzic.io/roadmap

Contact Zenzic info@zenzic.io



Thank you