European Commission

ECAVA | European Connected and Autonomous Vehicle Alliance

ECAVA is a flagship action in the Automotive Action plan launched in 2025.

ECAVA brings together European manufacturers, suppliers, technology providers, startups and Member States to accelerate the development and deployment of connected and autonomous vehicle technologies, reinforcing the competitiveness of the European automotive sector in a context of geopolitical tensions, protectionism and the need to diversify critical supply chains.

Industry-led | **EU-supported** | **Future-focused**

WHY AUTONOMOUS DRIVING MATTERS

Safer roads
Reducing human error through driver assistance and automation.

Better mobility
Expanding transport options for people with limited access.

Innovation & sovereignty
EU know-how in AI, chips, and mobility software to reduce reliance on non-EU technologies.

Future-ready jobs
Shifting skill demand from driving towards digital, engineering, maintenance, and operations roles.

ECAVA STRUCTURE

Steering Committee
15 – 20 high-level industrialists oversee the Alliance and sets the strategic direction.

Working Groups
Four thematic groups turn priorities into concrete roadmaps and actions.

Alliance Forum
An open forum for ECAVA members and international partners to exchange views and align priorities.

Secretariat
Organises ECAVA's operations, meetings and working groups.

ECAVA'S FOCUS IN THE 4 WORKING GROUPS

Software-Defined Vehicles:
Common AI-enabled software tools and open-source building blocks for digital vehicles.

AI and Data:
Data pooling, foundational AI models and a European autonomous driving stack.

Automotive Hardware:
High-performance computing platforms, AI accelerators, chiplets and open-source standards

Autonomous Vehicle Deployment:
Cross-border piloting and real-world deployment on European roads.

Key deliverables:
The working groups deliver yearly technology, implementation and business roadmaps, endorsed by the Steering Committee, with recommendations that champion industry-driven innovation and foster alignment with the EU and Member States on investment needs and regulation.

BUILDING ON EXISTING STRENGTHS

Software defined vehicles:
Joint investments by the EU, Member States and industry under the Chips Joint Undertaking are now entering series development in European original equipment manufacturers.

Artificial intelligence and data:
Automotive companies develop data sharing concepts supporting federated learning for autonomous driving AI models, enabling collaboration without centralising sensitive data.

Automotive hardware:
European integrated device manufacturers and the automotive industry are co-developing chiplet-based, next-generation chips and chiplets for autonomous vehicles under the Chips Joint Undertaking.

Autonomous driving deployment:
European autonomous driving technologies are being tested in large scale pilots under the European CCAM partnership, and prepared for deployment at scale in the ADACities initiative, moving from research to real world deployment.

WHAT NEEDS TO BE IN PLACE

Safety rules:
Testing, approval and monitoring.

Data protection:
Responsible use of vehicle and user data.

Cybersecurity:
Protection against hacking.

Trust:
Clear rules and reliable performance.

PART OF EUROPE'S TECH SOVEREIGNTY PUSH

ECAVA is part of the wider EU Technological Sovereignty Package, which aims to strengthen Europe's capacity in semiconductors, AI, cloud and open source.

It supports Chips Act 2.0 demand-side measures for automotive chips and aligns with the EU's Open Source Strategy and investments in interoperable European vehicle software, hardware and AI.

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