



5GAA TECH DEMOS: BROCHURE

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DRIVING THE FUTURE OF AUTOMOTIVE CONNECTIVITY

Welcome to the 5GAA Live Technologies Demonstrations in New Delhi!

This half-day, in-person event offers a unique opportunity for policymakers, regulators, industry representatives, and mobility stakeholders to engage directly with over 100 leading voices from the automotive, telecommunication, and technology sectors in India and worldwide.

8 LIVE DEMOS	12 MEMBER COMPANIES	3 TECHNOLOGY TRACKS
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From connected safety applications and software-defined vehicles to satellite connectivity and 5G- powered services, these technology demonstrations show how next-generation communications technologies are making mobility safer, smarter and more connected.



WHO MADE IT HAPPEN - 5GAA MEMBERS

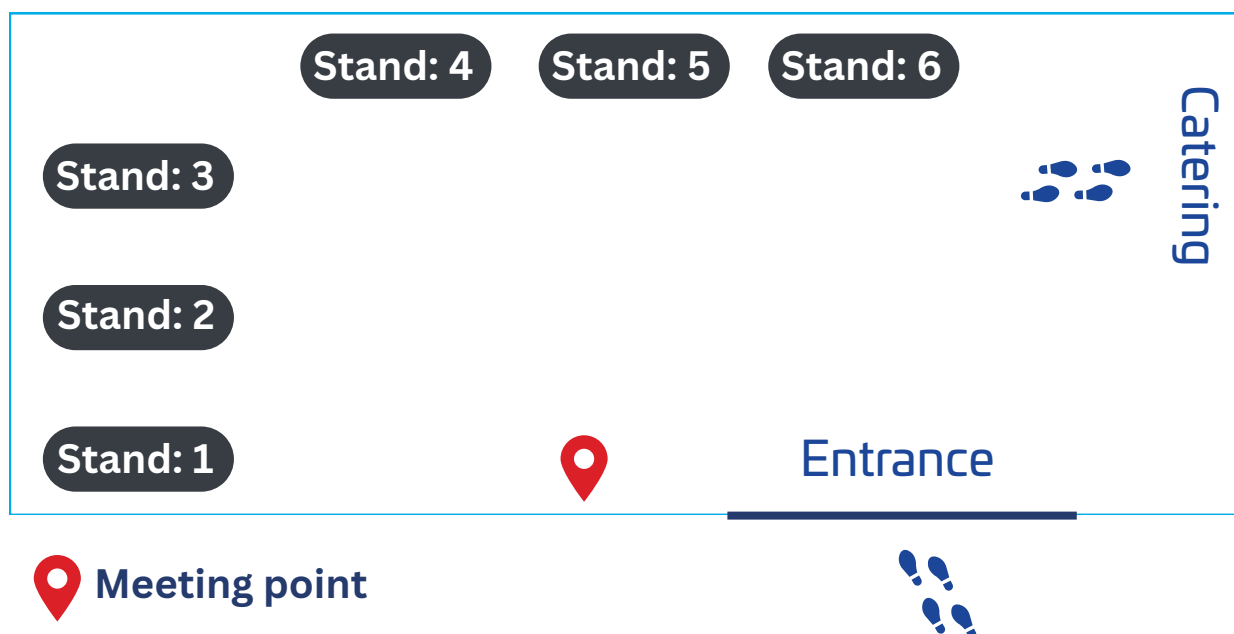


Discover our
members



PROGRAMME OVERVIEW

Regency I Room | Floor: -1



NON-TERRESTRIAL NETWORK

Satellite Voice Calls Integrated with MVNO Networks

Stand: 1

This stand is showcasing Viasat's capabilities in **satellite-enabled voice communications**, which can enable drivers and passengers involved in a breakdown or road traffic incident to stay connected even when outside of terrestrial coverage. This includes the ability to **switch between terrestrial and non-terrestrial networks**, as demonstrated by Viasat's collaboration with Cubic3.





SAFETY SERVICES

V2X Network Situational Awareness

Stand: 2

This demo showcases how **Vehicle-to-Everything (V2X)** network technology enhances driver awareness by sharing real-time information between vehicles and road infrastructure. Using existing **connected vehicle capabilities**, drivers receive alerts about traffic lights, roadworks, emergency braking events, reversing vehicles and other potential hazards, helping them anticipate risks, react earlier and drive more safely.



C-V2X Cooperative Safety Applications

Stand: 3

This demo showcases **three vehicle-to-everything (C-V2X)** safety applications designed to help drivers anticipate hazards beyond their line of sight. Electronic **Emergency Brake Light Warning (EEBL)** alerts drivers of a sudden braking event ahead, **Intersection Collision Risk Warning (ICRW)** warns of potential conflicts at intersections, and **Slow Moving Vehicle Alert (SMVA)** notifies drivers of unexpectedly slow vehicles on the road. By enabling vehicles to share real-time information, these applications give drivers more time to react, helping reduce collision risks and improve road safety.

**BOSCH****TATA.CARS**
NOTHING'S TOO FAR



NETWORK CAPABILITY

Smarter Connected Vehicles Powered by 5G APIs

Stand: 4

This demo shows how **5G Network Exposure APIs** (CAMARA/Network as Code) enable the vehicle platform to interact directly with the mobile network. By using location, connectivity, and Quality on Demand, vehicles can automatically trigger software updates, optimise connectivity and adapt operational policies based on real-time network conditions. The demonstration highlights how network intelligence can support more efficient, automated and reliable vehicle operations.



Accelerating ADAS and SDV Validation in the Cloud

Stand: 5

This demo showcases how virtual **ECU**, **Software-in-the-Loop environments**, and **cloud-based tools enable ADAS and software-defined vehicle functions** to be tested before their incorporation into vehicles. By automating and repeating complex scenarios in the cloud, the approach increases test coverage, improves software quality and accelerates time to market.



Hybrid emergency call device verification

Stand: 6

This demonstration shows the sequence of operations when an **emergency call** (eCall) is activated by the **In-Vehicle System** (IVS) after an accident, and enables TCU vendors, vehicle OEMs, and network operators to verify the correct function of hybrid eCall devices. Initially, the IVS attempts to establish a **Next Generation** (NG) **eCall using 4G/5G connectivity**, in accordance with the NG eCall mandate. If NG eCall coverage is not available, the system automatically falls back to legacy eCall via 2G/3G to ensure continuity of service. Additionally, the demo verifies correct operation from the physical RF layer through the protocol and end-to-end application layers. It also demonstrates how **NR-Non-Terrestrial Networks** (NR-NTN) can make **Third-Party Service** (TPS) eCalls available in regions with limited or no cellular coverage, such as remote roads, rural areas, or other underserved locations. It reflects our active research and roadmap work toward TPS eCall over NR-NTN as a complement to NG eCall over terrestrial networks.





OUTDOOR AREA - FLOOR 1

Queue Warning & Hit-from-Behind Prevention

This demo shows how **V2X Direct Communication** can help prevent rear-end collisions by warning road users of traffic queues ahead. When a vehicle detects that it is at the end of the queue, it broadcasts a warning message to approaching vehicles and vulnerable road users. Drivers and riders receive an early alert, enabling them to slow down safely, reduce the risk of collisions, and improve safety in congested traffic.



C-V2X Vulnerable Road User Protection

This demo showcases how **C-V2X technology** helps protect vulnerable road users, including motorcyclists and other two-wheelers. Through real-world traffic scenarios, vehicles and road users exchange safety messages over LTE-V2X to identify potential collision risks and trigger timely alerts. The demonstration highlights how connected mobility can improve situational awareness and help prevent accidents in complex urban environments.



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CONNECTED MOBILITY FOR PEOPLE, VEHICLES, AND TRANSPORT INFRASTRUCTURE

The 5G Automotive Association (5GAA) is a global coalition of automotive, technology and telecommunications companies driving the deployment of smarter, safer, and more sustainable mobility and transportation services.

5GAA actively promotes the adoption of C-V2X (or cellular vehicle-to-everything) as the critical technology to deliver full connectivity and be a disruptive force in the automotive market.

Quickly evolving in Europe, the US, and Asia, C-V2X is already revolutionising the mobility ecosystem and how drivers interact with the world.

It provides real-time, highly reliable, and actionable information flows to improve the overall transport experience for vehicles, road users, and the surrounding infrastructure.



Members in
2026



of the top
15 automakers



of the top 10
mobile operators



top smartphone
vendors





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