

CONNECTING THE MOBILITY
WORLD WITH 5G-V2X



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Opening speech by Thierry E. Klein, PhD

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- Head of Disruptive Innovation, Nokia Bell Labs

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Connected mobility for vehicles, people and transport infrastructure

5GAA brings together the automotive and telecommunications industries to accelerate the global deployment of Cellular Vehicle-To-Everything (C-V2X) as a first step towards a fully integrated intelligent transport system with 5G



AUTOMOTIVE INDUSTRY

Vehicle Platform, Hardware
and Software Solutions



TELECOMMUNICATIONS

Connectivity and Networking
Systems, Devices and Technologies

5GAA unites 110+ members* from around the world working together on all aspects of C-V2X including technology, standards, spectrum, policy, regulations, testing, business models and go-to-market

AIRBUS ANALOG DEVICES ALPINE AMERICAN TOWER Anritsu envision: ensure Airgain)) B 宝能 BAONENG AT&T Audi 北汽集团 BAIC GROUP Bai 百度 Bell BlackBerry

BMW GROUP BOSCH 大唐电信 CETECOM 千方科技 CHINA TRANSINFO 中国移动 China Mobile commsignia China unicom 中国联通 Cohda Wireless Continental The Future in Motion DANLAW DEKRA DAIMLER

DENSO ERICSSON Faraday Future FEV Ford GEELY gemalto GM Gotell 果通科技 EQUINIX FAREASTONE 远传 Fraunhofer Dt&C HITACHI Inspire the Next

Hirschmann Car Communication TE HYUNDAI MOTOR GROUP HONDA HUAWEI HYUNDAI MOBIS infineon intel INTERDIGITAL JAGUAR LAND ROVER JUNIPER NETWORKS KDDI KEYSIGHT TECHNOLOGIES kt Laird

NAVINFO Europe NISSAN MOTOR CORPORATION SKYWORKS SUMITOMO ELECTRIC A1 Telekom Austria Group docomo LEAR CORPORATION LG GROUPE RENAULT MAGNETI MARELLI qorvo MITSUBISHI ELECTRIC Changes for the Better

muRata proximus noris network TERRANET Neusoft 东软 NIO lmt PSA GROUPE Panasonic P3 orange OKI NOKIA

SGS T Telefonica SoftBank SMART MOBILE LABS SK telecom 东方·上海国际汽车城 SAVARI SAMSUNG SAIC 上汽集团 ROHM SEMICONDUCTOR RÖHDE & SCHWARZ QUECTEL Build a Smarter World QUALCOMM

ZTE T TELUS TÜVRheinland Precisely Right. Valeo VENIAM THE INTERNET OF MOVING THINGS verizon VIAVI vodafone VOLVO iDIRECT Volkswagen WNC Watron NetWeb Corp. ZF swift ai applied



EATA



Ecosystem Cooperation



VDT
Alliance



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5GAA Priority Areas



New Radio

“Define the next step” -
accelerate definition of **5G-
V2X** based on 5G New
Radio



Push V2N

Ensure functional rollout of
V2N based applications
in order to reach broad
penetration fast



Joint Ecosystem

Create a joint eco
system between
**car – smartphone -
home**



Vehicle to Smart Device

**V2X-based vehicle
interface** for
smartphone controlled
functions



Edge Computing

Undertline Edge
Computing as one of the
**key elements of the
connected future**



Interoperability

Ensure **cross OEM** cars and
cross operator networks can
“speak” with each other



CONNECTING THE MOBILITY
WORLD WITH 5G-V2X



C-V2X
Technology

Standards and
Ecosystem

Worldwide
Trials and
Deployments

Business
Opportunities

Societal Impact
and Benefits

Pioneering digital transformation
in the automotive and transportation industries

www.5gaa.org

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Thank you!