



# The 1<sup>st</sup> European Conference on 'Connected and Automated Driving'

*Together, Shaping the Future*

参加報告



2017年4月10日

国際連携WG 主査

天野 肇



**Carlos Moedas**

European Commissioner for  
Research, Science and Innovation  
(RTD)

- 自動車交通の安全と環境保全のブレークスルーの3要素 (destructive triangle)  
1) Autonomous drive、2) Connected cars、3) Electric vehicles
- 社会参加の拡大などの社会的効用の期待大
- 自動運転実用化の課題  
1) Technologies : 従来のロボットと異なり、人の近傍での自動化  
2) Jobs : 運転手の雇用環境への懸念、新たな雇用創出の政策  
3) Regulations : アムステルダム宣言に掲げた欧州共通の制度導入
- 多様な連携の強化が鍵  
1) 情報の共有、2) 通信業界と自動車業界の連携、3) 欧州連合加盟国間の連携



**Violeta Bulc**

European Commissioner for Mobility  
and Transport (MOVE)

- 自動運転、サプライチェーン、デジタル技術、Mobilityの概念、輸送の価値、雇用などにおいて交通の大きな変革の時。
- 自動運転に関しては、G7、国連欧州経済委員会、EU (DG-RTD、DG-MOVE、DG-CONNECT) などで重要テーマとして連携。
- 欧州では、26,000人/年の交通事故死、全体の1/4を占める CO<sub>2</sub>排出、10億Euro/日の渋滞損失などの課題を解決し、同時に社会変革をもたらすことを期待。
- そのために、多様な交通手段を融合した新たなコンセプトに基づき、統合的な組織体制の下で、標準化やデータのオープン化を進め、独占を排除した健全な競争環境を創出し、社会的な仕組みとビジネスモデルを構築。



**Melanie Schultz van  
Haegen-Maas Geesteranus**  
Minister of Infrastructure and the  
Environment, The Netherlands

- 昨年4月にEU加盟国交通大臣がAmsterdam宣言を採択し、C-ITSのロードマップ策定、各国(ドイツ、フィンランド、フランス、スウェーデン、オランダ)の制度改革など活発化。
- 2月に定期的な高官級会合が始まり、自動車の型式認定の改定や自動車業界と通信業界の連携や官民データの共有などの議論が進展。
- ジュネーブ条約やウィーン協定など国際議論も進展、Global Forum for Road Traffic Safety (UNECE WP. 1) は2週間前に人の運転操作の役割を見直す方向性を提示。
- 自動運転を含めた多様な交通手段を統合した、新たな交通サービスの創出のために、すべての交通手段を統一的に扱うための法制度の整備が必要。Mobility-as-a-Serviceという概念でフィンランドが先駆的に推進。
- 多数の小規模行動実験が実施されているが、国境をまたぐ協調型自動運転の大規模実証実験が必要。ローマで開催されたEU60周年記念式典に際し、EUのリーダーが「Letter of Intent」に署名し合意した。
- 協調型自動運転の2019年実現に向けた動きが加速しており、関係者の一層の連携に期待する。



# Plenary Sessions



## Plenary panel discussion



**Violeta Bulc**  
European Commissioner for Mobility  
and Transport (MOVE)



**Håkan Samuelsson**  
President & CEO, Volvo Cars,  
Sweden



**Roberto Vavassori**  
President, CLEPA (European  
Association of Automotive Suppliers)



**Bruno Jacobfeuerborn**  
Chief Technology Officer (CTO),  
Deutsche Telekom AG, Germany

## Research and Innovation Challenges of Connected and Automated Driving



**Clara de la Torre**  
Director, DG Research and Innovation  
(RTD), Transport Directorate,  
European Commission



**Dr. Carlo JT van de Weijer**  
Director Smart Mobility, Technical  
University of Eindhoven, The  
Netherlands



**José Manuel Viegas**  
Secretary-General, International  
Transport Forum, OECD



**Dr. Josef Affenzeller**  
ERTRAC (European Road Transport  
Research Advisory Council)  
AVL List GmbH, Germany





# Plenary Session



## EU Member States programmes on connected and automated driving



**Antti Vehviläinen**  
Director General, Finnish Transport  
Agency, Finland



**Jean-François Sencerin**  
Programme Director, Autonomous  
Vehicle PFA/NFI, France



**Hamid Zarghampour**  
Programme Officer, Swedish  
Transport Administration, Sweden



**Ian Forbes**  
Head of the Centre for Connected and  
Autonomous Vehicles, Department for  
Transport, The United Kingdom



**Henriette Spyra**  
Strategic Coordinator Mobility  
Transformation & Transport, Austria



**Jaime Moreno García-Cano**  
Deputy-Director General for Mobility,  
Directorate General for Traffic, Spain



# Plenary Sessions



## Cooperative ITS deployment towards connected and automated driving



**Claire Depré**  
Head of Unit, DG Mobility and Transport (MOVE), European Commission



**Joël Valmain**  
Adviser for European and International Affairs, Ministry of Interior, France



**Dr. Teodor Buburuzan**  
Leading Communication Engineer, Volkswagen AG, Germany



**Martin Böhm**  
Head of Mobility Systems & ITS Deployment, Austriatech, Austria

## Digital technologies enabling Connected and Automated Driving



**Roberto Viola, Director-General**  
DG Communication Networks, Content and Technology (CONNECT), European Commission



**Despina Spanou**  
Director for Digital Society, Trust and Cybersecurity, DG CONNECT, European Commission



**Nadine Leclair**  
Senior Vice President, Global Expertise Management & Member of the Board of Directors, Renault, France



**Professor Ralf Herrtwich**  
Head of Automotive Business Group, HERE, Germany



**Matteo Gatta**  
Director Tech Strategy & Innovation, PROXIMUS, Belgium



# Plenary Session



## Which policy and regulatory EU frameworks for connected and automated driving



**Gwenole Cozigou**

Director, Industrial Transformation and Advanced Value Chains, DG Internal Market, Industry, Entrepreneurship and SMEs (GROW), European Commission



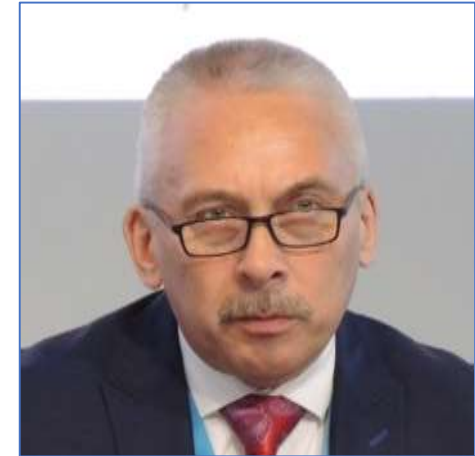
**Edwin Nas**

Dep. Project Leader Connected and Automated Driving, Ministry of Infrastructure and The Environment, The Netherlands



**Joost Vantomme**

Smart Mobility Director, ACEA (European Automobile Manufacturers' Association)



**Ferry Smith**

Director Public Affairs, ANWB (Royal Dutch Touring Club), The Netherlands

## International cooperation on connected and automated driving



**Dr. Gereon Meyer**

Dept. Future Technologies and Europe, VDI/VDE-I&T, Germany



**Seigo Kuzumaki**

Programme Director of SIP-adus, Chief Safety Technology Officer Secretary, Toyota Motor Corporation, Japan



**Lam Wee Shann**

Group Director, Technology and Industry Development, Land Transport Authority, Ministry of Transport, Singapore



**Dr. Steven Shladover**

California PATH Programme Manager, University of California Berkeley, USA





## Shared and automated mobility services for our cities



**Siegfried Rupprecht**  
RUPPRECHT CONSULT - Forschung  
& Beratung GmbH, Germany



**Dennis Potter**  
Senior advisor, Program Manager  
Rivium-Campus, Gemeente Capelle  
aan den IJssel, The Netherlands



**Koen De Broeck**  
Manager mobility & market research,  
De Lijn, Belgium



**David O'Neil**  
Head of the Political Service  
Department, Syndicat des Transports  
d'Ile-de-France (STIF), France



**Yann Leriche**  
Chief Performance Officer,  
TRANSDEV, France



**Professor Masayuki Kawamoto**  
Co-Chair, Next Generation Transport WG,  
SIP-adus  
University of Tsukuba, Japan



**Mikael Ivari**  
Senior Advisor, Development &  
International, City of Gothenburg,  
Sweden





# Breakout sessions



## Vehicle Validation / certification Roadworthiness testing



**Margriet van Schijndel**  
Secretary General, European Automotive Research Partners Association (EARPA)

**Arjan Van Vliet** Senior Advisor, RDW (National Road Traffic Agency), The Netherlands

**Richard Schram**  
Technical Manager, EuroNCAP

**Takahiko Uchimura**  
Senior Vice President, ITS Japan, Japan

**Dr. Adrian Zlocki**  
Senior Manager Driver Assistance, IKA GmbH, Germany

## Socio-economic Impact of connected and automated driving



**Satu Innamaa**  
Principal Scientist, VTT (Technical Research Centre of Finland Ltd), Finland

**Scott Smith**  
Senior Operations Research Analyst, Volpe National Transportation Systems Center, US DOT

**Professor Hiroaki Miyoshi**  
Doshisha University, Japan

**Professor Bart van Arem**  
Transport Modelling, TU Delft, The Netherlands

**Torsten Geissler**  
Scientific Officer, BASt, Germany



**Physical & Digital Infrastructure**

**In-vehicle technology enabler**

**Digital IT Infrastructure & Connectivity**

**Shared Economy – Automation & Electro-mobility**

**Big Data, IoT, AI, Deep Learning**

**Human Factors & User awareness**



# Wrap up session: report from organisers of the breakout sessions



**Vincent Blervaque**  
Advisor, VEDECOM, France



**Risto Kulmala**  
Principal Advisor on ITS, Finish  
Transport Agency, Finland



**Alessandro Coda**  
Chief Technology Officer, CLEPA  
(European Association of Automotive  
Suppliers)



**Alvaro Arrue**  
Project Manager, IDIADA Automotive  
Technology, Spain



**Bastiaan Krosse**  
Research Manager - Integrated Vehicle  
Safety, TNO, The Netherlands



**Emma Johansson**  
Human Factors specialist, Volvo  
Group Truck Technology, Sweden



**Steve Phillips**  
General Secretary, CEDR (Centre for  
Effective Dispute Resolution),  
United Kingdom



**Satu Innamaa**  
Principal Scientist, VTT (Technical  
Research Centre of Finland Ltd),  
Finland



**Dr. Gereon Meyer**  
Dept. Future Technologies and  
Europe, VDI/VDE-I&T, Germany





**Paraskevi Michou**  
Deputy Secretary-General,  
European Commission

- 欧州の将来像の進展に関して連携の成否に応じた5つのシナリオ、協調型自動運転に関して言えば、EUが60年間育み、29ヶ国が署名したLetter of Intentにあるような連携を継続することができれば、協調型自動運転は社会や産業の発展に大きく貢献。
- 欧州委員会、加盟各国が続けてきた努力を継続し、国際連携を強化することが重要。欧州委員会は、各国の多様な法制度の改革のファシリテーターとして機能。
- 新しい技術が日々の生活において安全に実用化されるためには、各国の活動を連携させ、経験や情報を共有することが必要。
- 当面、既存のプロジェクト(Gear2030、C-ITS、Horizon2020、C-Roads)を推進し、国境を超えた大規模実証実験を実施し知見やデータを共有し実用化を促進。
- 中長期的には、Strategic Transport Research & Innovation Roadmapを策定。
- この2日間の第1回会議への参加に感謝するとともに今後の活動への継続を期待。