Adapting policy to remotely piloted aircraft systems, highly automated and autonomous transport technologies

MPA 3, Level 0

Wednesday, May 27, 2015, 11:00 - 12:30

Highly automated and ultimately self-driving cars and remotely operated and ultimately self-flying aircraft promise significant, though yet untested, benefits. These technologies are seen as key factors influencing and shaping our future mobility and quality of life by realizing higher levels of safety, efficiency, comfort, social inclusion and accessibility. Authorities face pressure to allow large-scale testing and to license these technologies for use on public roads and in public airspace. Little consensus, however, exists on regulatory models applicable to these nascent technologies.

With the widespread uptake of on-road autonomous driving and commercial remotely piloted aircraft systems (RPAS) years rather than decades away, authorities will have to adapt existing rules and create new ones in order to ensure the full compatibility of these vehicles with the public’s expectations regarding safety, legal responsibility and privacy. At the same time, they will have to deploy these rules in such a way as to not stifle technology or service innovation.

The objective of this Ministers’ Roundtable is to enable Ministers and sector leaders to review technological developments in the field of autonomous driving and RPAS and to discuss transport authorities’ readiness to anticipate and accommodate these technologies in their core regulatory functions by addressing the following issues:

- The bulk of early regulatory action in this area has involved rules relating to the technical operation of these technologies in public spaces. However, the most disruptive impacts of these technologies may involve transport services such as goods delivery, taxi operation and the provision of public transport – all of which are highly regulated sectors. How should regulatory reform accompany the deployment of these technologies? What are the barriers? How should harmonisation of standards and accreditation be promoted at a regional or global scale? Under whose leadership? What practices/ procedures can be recommended?
- The deployment of services based on these technologies will likely change mobility drastically as we know it today. Many, but not all, of these changes will be positive. How can benefits best be optimised and negative impacts, such as those on employment in some sectors, be minimised?
- Public acceptance of the new technology will depend on effective handling of public concerns on safety, privacy and security. How can we ensure clear identity, visibility and accountability of the owners/operators of the new autonomous vehicles and RPAS?
when the owner/operator is not present? How will effective enforcement of the regulation safeguard against offending RPAS/vehicles and what framework will best deliver compliance?

Related information:

Urban Mobility System Upgrade: How shared self-driving cars could change city traffic, ITF, 2015

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Simon Bridges
Minister of Transport
New Zealand

Simon Bridges is New Zealand’s Minister of Transport and Minister of Energy and Resources. He is Associate Minister for Climate Change Issues and Associate Minister of Justice. Bridges represents the electorate of Tauranga and is Deputy Leader of the House in the current government. Prior to standing for Parliament and election in 2008, Bridges worked as a Senior Crown Prosecutor. Since election, he has been a member of the Law and Order Select Committee, the Auckland Governance Select Committee, and the Maori Affairs Select Committee.

Anna Johansson
Minister for Infrastructure
Sweden

Anna Johansson has been Minister for Infrastructure in the Swedish Government since 2014. She is chairman of the Social Democrats in Gothenburg Municipality, deputy member of the executive board of the Social Democrats and was deputy municipal commissioner in Gothenburg Municipality from 2009 to 2014. Johansson was elected to the Swedish Riksdag (parliament) in the 2014 general election.
Anrijs Matīss was appointed Latvian Minister for Transport in March 2013, having been State Secretary of the Ministry of Transport from 2009 to 2013. Matīss was also a Board Member of Ventspils Freeport in Latvia and a Member of the Board of Liepāja Special Economic Zone. Prior to his work in the Ministry of Transport, Matīss was State Secretary of the Ministry of Economics from 2008 to 2009 and Deputy State Secretary Responsible for Industry, Business and Domestic Market Affairs at the Latvian Ministry of Economics.

Maksim Sokolov was appointed Russia’s Minister of Transport in May 2012, having been Director of the Government Department of Industry and Infrastructure since 2009. Prior to this, he was a Member of the Saint Petersburg Government and Chairman of the Committee for Economic Development, Industrial Policy and Trade. From 2004 to 2009, Sokolov was Chairman of the Committee for Investment and Strategic Projects for the city of Saint Petersburg. From 1999 to 2004 he was Director-General of Corporation S., and from 1992 to 1999, Director-General of Rossiya. Previously, Sokolov was a Lecturer at the Economics Department of Saint Petersburg State University.

Warren Truss has been Australia’s Deputy Prime Minister and Minister for Infrastructure and Regional Development since 2013. From 2006 to 2007, Truss served as Minister for Trade, having been Minister for Transport and Regional Services from 2005 to 2006. He has repeatedly been the elected representative for Wide Bay, Queensland since 1990.
Il-ho Yoo has been Korea’s Minister of Land, Infrastructure and Transport since March 2015. Prior to his appointment, Yoo was Policy Committee Chair of the Saenuri Party, having been its Speaker, from 2013 to 2014. He has been a Representative in Korea’s 19th National Assembly since 2012, having served as a Representative in the 18th National Assembly from 2008 to 2012. From 2002 to 2012, Yoo was a Professor at the Korea Development Institute (KDI) School of Public Policy and Management. From 1998 to 2001 he was President of the Korea Institute of Public Finance.

Louis Lévesque was appointed Deputy Minister of Transport, Infrastructure and Communities in 2012. Previously, Lévesque was Deputy Minister of International Trade from 2008 to 2012, and was named as Canada’s G-20 Sherpa by the Prime Minister in 2010. He was Deputy Minister of Intergovernmental Affairs in the Privy Council Office from 2006 to 2008. From 2004 to 2006, he served as Associate Deputy Minister with Finance Canada, having served as Assistant Deputy Minister in the Federal-Provincial Relations and Social Policy Branch from 2002 to 2004.

As part of the Secretary of Transportation’s senior team, Susan Kurland directs economic and competition policy affecting the air transport industry and oversees the Department’s international activities. Her responsibilities include directing the Department’s participation in international aviation negotiations throughout the world. She also serves as the Department decision maker in proceedings involving the allocation of international aviation route authority, licensing of air carriers, providing air services to rural communities, and grants of antitrust immunity for international aviation alliance activities. In addition, Kurland leads the Department’s efforts on international co-operation, export promotion and trade advocacy in transportation.
Lutz Bertling has been President and Chief Operating Officer of Bombardier Transportation since 2013. Previously, he had been Groups President and Chief Executive Officer of Eurocopter Group since 2006, having been their Executive Vice-President from 2003. In 1999, Bertling joined EADS’ Military Aircraft Business Unit as Vice President Augsburg Plant and Aerostructure Programs. Prior to this, between 1993 and 1999, he held positions at Adtranz and Daimler Chrysler Rail Systems GmbH, finally as Vice President System Development and Production Unit Carbody. Bertling studied Mechanical Engineering at Technische Universität Braunschweig and received his Doctorate in 1993.

Dan Hermansen is one of the founding owners of MyDefence Communication. He has been Chief Operating Officer heading up the daily management since 2014. MyDefence Communication carries out electronic research for development for military, defence and security worldwide. Hermansen has worked with authorities on standardisation and regulations regarding drones with a special focus on safety, security and privacy. Currently, Hermansen focuses on practical implementations to support regulations such as Wireless ID, Drone Detection and Avoidance. He has served in the Royal Danish Airforce as an Officer and holds a Master’s Degree in Electronics from Aalborg University, Denmark.

Sarah Hunter has been Head of Public Policy at Google [x] since August 2013. Google [x] is a team of inventors and engineers that applies audacious thinking and technology to big problems for positive social change. Hunter works closely with all of Google [x] product teams, from self-driving cars to life sciences to Unmanned Aerial Vehicles (UAVs) and balloon-powered internet (Project Loon). Prior to joining Google [x], she ran the Public Policy team for Google in the UK for four years. Before joining Google, Hunter worked as an advisor to the then UK Prime Minister Tony Blair on Media, Arts and Sport policy from 2001 to 2005. She has also worked as a media policy expert for a number of UK broadcasting companies, including the BBC (British Broadcasting Corporation).
In 2008 Hermann Meyer was appointed CEO of ERTICO – ITS Europe, a Public-Private Partnership initiative to support the development and deployment of Intelligent Transport Systems (ITS) in Europe. He is a member of the Board of Directors of the ITS World Congress, Co-Chair of the iMobility Forum and a member of the Coordination Committee of the Network of National ITS Associations. Prior to joining ERTICO, he represented the interests of the Volkswagen Group in the EU institutions as Head of the Government Relations Office. He joined Volkswagen in 1995 serving as Manager in the "Sustainability Strategy" Department and as Head of the "Technology and Science" Department in the Government Relations Offices in Bonn and Berlin, Germany. Meyer was seconded in 1996/1997 to the Principal Policy Department in the German Federal Ministry of Transport and from 2003 to 2006 to the European Car Manufacturing Association (ACEA) as Director of Environmental Policies.

Ogi Redzic is leading the Automotive Business Group in HERE. His team is responsible for developing embedded navigation systems, automotive cloud services, automated driving and intelligent transportation system solutions. Redzic holds a Master’s Degree in Computer Science from Illinois Institute of Technology, USA, and a Master’s Degree in Business Administration from Northwestern University Kellogg School of Management, USA.

Pat Cox has been President of the European Parliament Former Members’ Association (2010-2014), President of the European Movement International (2005-2011), a former President of the European Parliament (2002-2004), and Member of the European Parliament (1989-2004). Between 1998 and 2002 he was President of the European Liberal Democrat and Reform Party (ELDR) Group European Parliament. Prior to this Cox was a current affairs television broadcaster for RTE, Ireland’s national broadcaster, from 1982 to 1986 and Secretary General Progressive Democrat Party (Ireland) between 1986 and 1989.