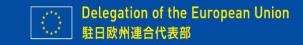


European Innovation Day

Research to Market session 5: #AI #AutomatedVehicles #Aeronautics

Lee Woolgar
Senior ICT Policy Officer
Delegation of the European Union to Japan

15 October 2018



10 Commission priorities for 2015-19 – Political Guidelines for the Juncker Commission

(15 July 2014)



The Digital Single Market Strategy

Policy response to the opportunities & challenges of the digital revolution

THE STRATEGY AT A GLANCE

Better access for consumers and businesses

An environment where digital networks and services can prosper

Maximise the growth potential of the digital economy

- Geo-blocking
- E-commerce (digital contracts, consumer protection)
- Copyright
- Parcel delivery
- VAT
- Telecoms market
- Media services
- Platforms and intermediaries
- Trust and security (e-privacy, cybersecurity cPPP)
- Data Economy
- Inclusive digital society
- Interoperability and Standardisation
- Digitisation of European industry

European Council implementation deadline: 2018



Mid-Term
Review:
May 2017



DSM Strategy: May 2015

The European Commission has put on the table 16 key initiatives and more than
 43 proposals, 24 of which are legislative

European Parliament and Council have so far reached agreement on:





✓ Portability of content: which will allow as of early 2018 Europeans to travel with the films, the music, the video games or the ebooks they have subscribed to at home

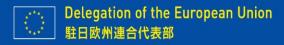


✓ End to unjustified geo-blocking: should apply before Xmas 2018; end discrimination and boost e-commerce to the benefit of consumers and businesses



- ✓ Spectrum: Release of the 700 MHz band for the development of 5G and new online services.
- ✓ Wifi4EU: free public Wi-Fi hotspots in local communities across the EU





The Digital Single Market Strategy

Recent initiatives (April 2018 Package)

The EU in ACTION

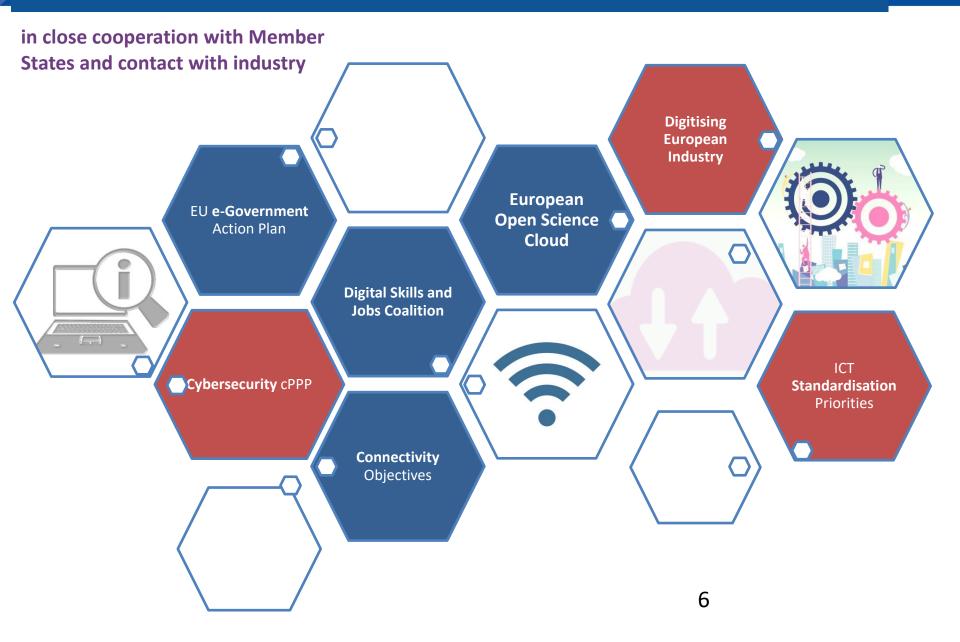
- ✓ Communication on Artificial Intelligence and Robotics
 - Boost the EU's technological and industrial capacity
 - Prepare for socio-economic changes
 - Ensure an appropriate ethical and legal framework

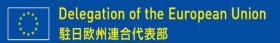


- ✓ Regulation of .eu top-level domain (REFIT)
 - More transparent and flexible internet identity for EU citizens and companies
 - Creation of an advisory body
- ✓ Communication on eHealth
 - Access to electronic health records and use of e-prescriptions

- Disease prevention and personalised health and care
- Facilitating feedback and interaction between patients and healthcare providers
- ✓ Communication on Significant Market Power (SMP) Guidelines
 - A set of new guidelines for national regulatory authorities

Implementation progress in > 2 years -> non-legislative actions





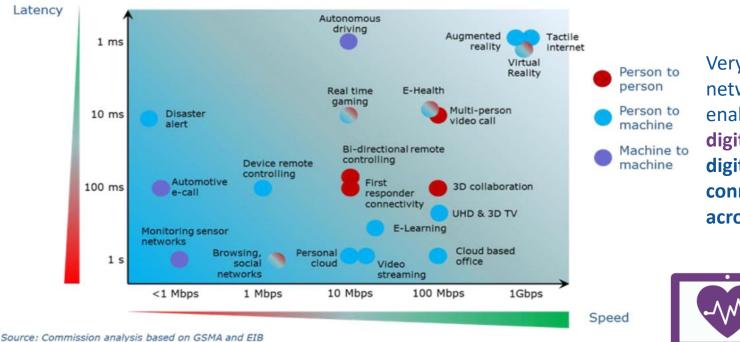
The Digital Single Market

Need for better CONNECTIVITY

- 71% of European households have access to a fast fixed internet connection
- But this goes down to 28% for households in rural areas
- Global Internet traffic in 2021 will be 127 times that of 2005

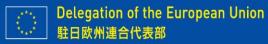


Need for speed and latency per application



high Very capacity like networks, 5G. enable use of valuable digital innovations (e.g. digital health, mobility connected across borders)





To meet the growing need for speed, quality and reliability of the infrastructure → joint EU action and investment are needed

3 strategic connectivity objectives for 2025

- 1. Access to gigabit connectivity for all main socio-economic drivers
- Access to connectivity with a download speed of at least 100 Mbps for all European households
- 3. All urban areas and major roads and railways with an uninterrupted 5G coverage and 5G commercially available in at least 1 major city in each EU Member State by 2020

To be facilitated by 3 main new measures

- 1. A new **Telecoms Code** to help build future networks
- Pro-investment
- Better spectrum coordination
- Stronger consumer protection
- 2. WiFi4EU

Registration started on 20 March 2018

3. An action plan for 5G





The 5G Action Plan

For the competitiveness of EU industries

Pooling investments of different industries for scale

Early 5G 2018 launch in selected areas **5G CALL** Commercial launch of 5G 2020 services in at least one major city in all MS

5G in all urban areas and Along main transport paths

Coordinated launch throughout single market

Comprehensive with geographical and sectorial focus

European R&I roadmap for Automated Mobility

- □ R&I strategy to support the development and deployment of connectivity and automation technologies for road transport in Europe
- □ Concrete action plan for short, medium and long-term research and innovation actions.
- Will be developed by developed by EC with the support of MS and input from experts and stakeholders
- R&I initiatives and Actions for eight thematic areas:



In-vehicle enablers



Vehicle validation



Large -scale Demos



Shared & automated mobility services



Socio-ec. Impacts



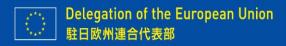
Human Factors



Phys.& dig. infrastr, Connectivity)



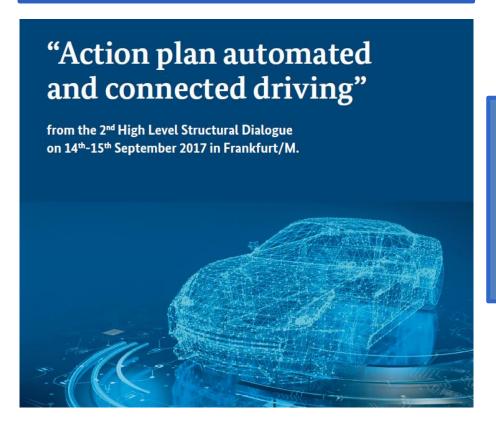
Big Data, AI



HIGH LEVEL STRUCTURAL DIALOGUE

Members States

1st High Level Meeting in Amsterdam at Schiphol on 15th February 2017



3rd High Level Structural
Dialogue on Connected and
Automated Driving Gothenburg
on 18th -19th June 2018

The Digital Single Market Strategy

Unlocking the DATA ECONOMY

- The EU data economy grew by **21.53**% from 2013 to 2016
- The data economy can reach €739bn by 2020 (4% of EU GDP)



The EU's Data Packages

- THE LOS Data Fackages
- ✓ Cross-border free flow of non-personal data (September 2017)
 - Removing data localisation restrictions in the EU ... balanced by a principle of data availability for regulatory control
 - Enhancing legal certainty for businesses on storing and processing data in other EU Member States
 - ✓ Recent Data Package (April 2018)
 - Review of Public Sector Information Directive
 - Guidelines on private data sharing
 - Recommendation on access to and preservation of scientific information







Around €2.6 billion
over the duration of Horizon 2020
on Al-related areas
(robotics, big data, health, transport,
future and emerging technologies).

€700 million under Horizon 2020

+ €2.1 billion from private investment in one of the biggest civilian research programmes in smart robots in the world.

€27 billion through European Structural and Investment Funds, on Skills development out of which European Social Fund invests,

€2.3 billion specifically in digital skills.

TRANSPORT



Al can minimise wheel friction of a suspended train against the track while maximising the speed and impact and enables autonomous driving.

VI-DAS

Automated sensors detect possible dangerous situations and accidents. The driver is alerted and road safety is improved.

Contribution: €6.2 million

Transforming Transport

Data-driven transformation which will solve urban mobility issues, develop smart motorways, proactive rails and much more.

Contribution: €14.6 million

Thank you