



# **Automation, connectivity, electrification, and sharing (ACES): transforming road transport services**

**International Energy Agency's  
Workshop**

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# Europe on the Move: Commission completes its agenda for safe, clean and connected mobility



Europe on the move: Commission completes its agenda for safe, clean and connected mobility

# Smooth transition towards a new mobility system considering:

- ☐ *Safe Mobility*
- ☐ *Clean Mobility*
- ☐ *Connected & Automated Mobility*

# Mobility Package III

- ❑ *A Communication outlining a **new road safety policy** framework for 2020-2030, accompanied by two legislative initiatives on **vehicle and pedestrian safety**, and on **infrastructure safety management**;*
- ❑ *Legislative initiatives on **CO<sub>2</sub> standards for trucks**, on their aerodynamic, on tyre labelling and on a common methodology for fuels price comparison. These are accompanied by a Strategic **Action Plan for Batteries**. Those measures reaffirm the EU's objective of reducing greenhouse gas emissions from transport and meeting the Paris Agreement commitments.*

# Mobility Package III

- ❑ *Two legislative initiatives establishing a **digital environment for information exchange in transport.***
- ❑ *A legislative initiative to **streamline permitting procedures for projects on the core trans-European transport network (TEN-T).***
- ❑ *A dedicated communication on **Connected and Automated Mobility** to make Europe a world leader for autonomous and safe mobility systems;*

# Funding

*Supported by a **call for proposals under the Connecting Europe Facility with €450 million available** to support projects in the Member States contributing to road safety, digitisation and multimodality. (until 24 October 2018)*

*Under the **CEF Telecom programme** there will be an additional **€4 million plus €2 million** for Cybersecurity for Co-operative Connected and Automated Mobility*

# Communication on Connected and Automated Mobility

- ☐ **Make Europe a world leader in the deployment of connected and automated vehicles.**
- ☐ **Mobility is at a cross-roads.**
- ☐ **The Commission favours a progressive approach based on experience gained during testing that will validate the safety of the technologies.**
- ☐ **The Commission will follow an integrated approach between automation and connectivity.**

# Communication on Connected and Automated Mobility

## The Commission:

- ☐ encourages MS and regions to make use of the opportunities offered by EU regional policy and the European Structural and Investment Funds for co-financing investments in research, innovation and deployment.
- ☐ will work with MS in 2018 to draw up a priority list of transport use cases for large scale testing and take advantage of possible synergies between connectivity and automation use cases.
- ☐ will put in place in 2018 one single EU wide platform grouping all relevant public and private stakeholders to coordinate open road testing and making the link with pre-deployment activities.

# Communication on Connected and Automated Mobility

- ❑ **The Commission will continue monitoring the situation on access to in-vehicle data and resources and consider further options for an enabling framework for vehicle data sharing.**

*fair competition in the provision of services in the digital single market*

*ensuring compliance with the legislation on the protection of personal data*

## **Proposal for regulation against cyber-attacks as part of the revision of the General Safety Regulation for motor vehicles**

- ☐ **consider the need for specifications for access to vehicle data for public authorities' needs, in particular traffic management in 2018/2019**
- ☐ **implement a pilot on common EU-wide cybersecurity infrastructures and processes needed for secure and trustful communication between vehicles and infrastructure**
- ☐ **issue in 2018 as a first step a Recommendation on the use of pioneer spectrum for 5G large scale testing, cybersecurity and on a data governance framework that enables data sharing, in line with the initiatives of the 2018 Data Package, and with data protection and privacy legislation.**

# Communication

## "Towards a common European data space"

**The data economy will flourish *if* different types of data are accessible & re-useable:**

- across borders

- for & by different types of organisations (private, public, research)

- for & by different sectors (transport, energy, manufacturing, etc.)

The communication outlines a package of measures (2018 data package) as a key step towards the creation of **a common data space in the EU:**

**a seamless digital area with the scale that will enable the development of new products and services based on data.**

# 2018 Data Package

- ❑ **Proposal for a revision of the Directive on the re-use of public sector information (in full respect of GDPR and ePrivacy rules)**
- ❑ **Guidance on sharing private sector data in the European data economy**
- ❑ **Updated Recommendation on access to and preservation of scientific information**

## ***Other elements of 2018 Data Package***

- Evaluation of the Database Directive
- **Communication on Artificial Intelligence for Europe**

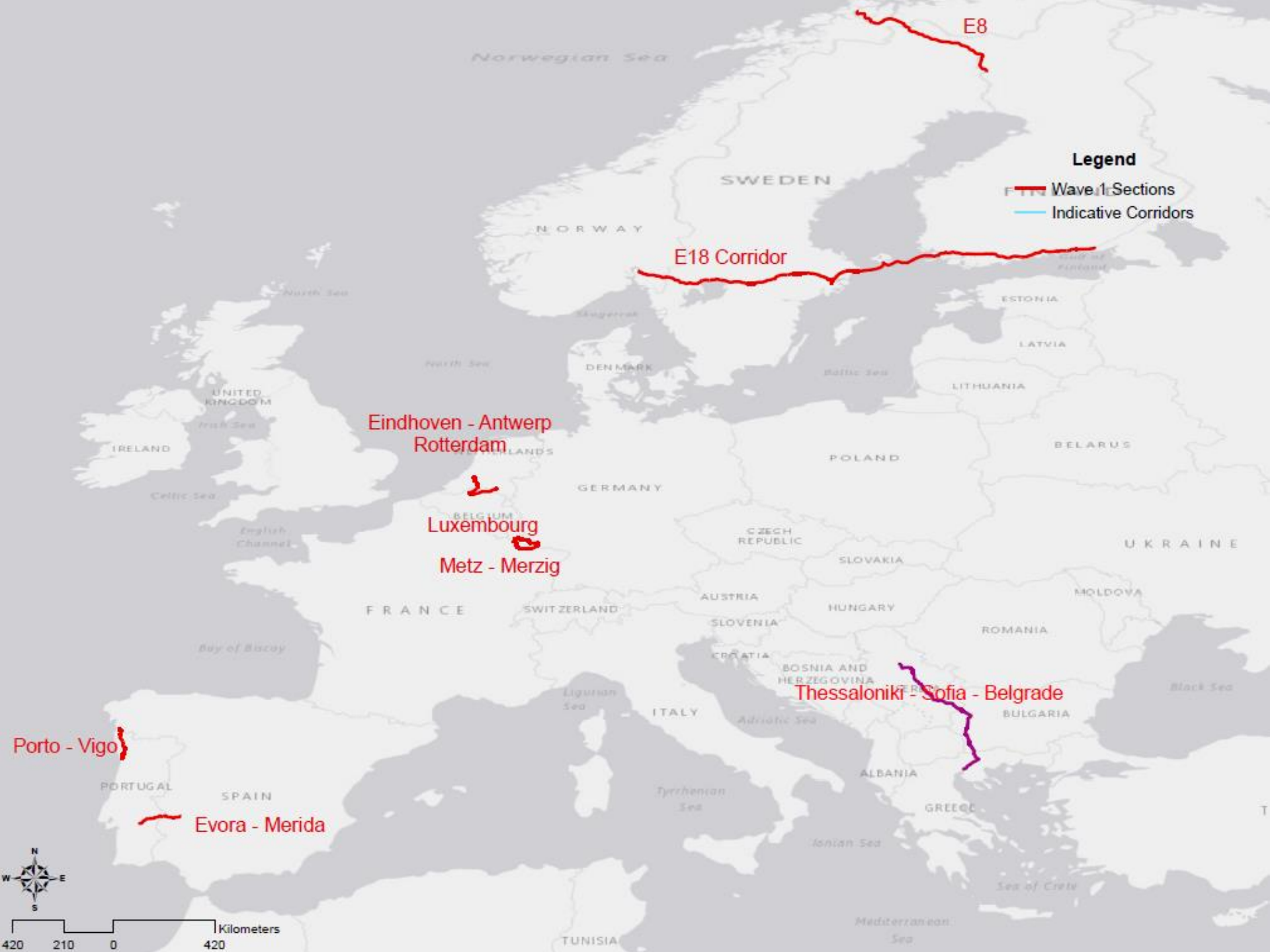
# Letter of Intent



*Signed by 27 Member States plus Switzerland and Norway, March 2017*

# Digital Cross-border Corridors

1. **FR – DE – LU:** Metz-Merzig-Luxembourg
2. **NL – BE:** Rotterdam-Antwerp-Eindhoven
3. **ES – PT:** Porto-Vigo and Merida-Evora
4. **FI – NO:** the E8 "Aurora Borealis" corridor
5. **SE – FI – NO:** the "Nordic Way"
6. **GR-BG-RS:** under preparation





# Roundtable

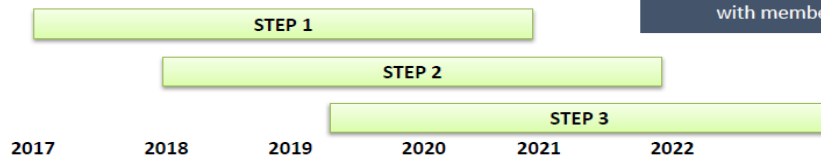
**Signature of a MoU on Cellular V2X between:**

- 5G Automotive Association (5GAA) and**
- European Automotive and Telecom Alliance (EATA)**

## EATA Roadmap

	Use cases	Communication Technologies	Sites
STEP1	Enabling services for - Highway chauffeur (L2/3) - High density truck platooning	<u>Pre Deployment:</u> - hybrid communication : LTE, ITS G5 + LTE V, Mobile Edge Computing applications - Network slicing - LTE Broad casting: GNSS offset, hazards and HD-map updates  <u>Studies:</u> business models responsibilities, safety concepts, Quality of service, Security and data protection Regulation and standardization	20..40 km tracks DE, FR,NL, ES, BE 
STEP2	As step 1 + Valet parking	<u>Pre Deployment:</u> integration step 1 technologies / studies into series architectures + 5G radio + NB IoT + Evaluation relative localization	Cross border motorways networks 
STEP3	As step 2 Automated driving	Deployment	Commercialisation on AD authorized motorways

Importance of dialogue and partnership with member states, C-ROADS and regions



# The 5G Action Plan

For the competitiveness of EU industries

Pooling investments of different industries for scale

Early 5G  
launch in  
selected  
areas

*2018*

Commercial  
launch of 5G  
services in at  
least one  
major city in  
all MS

*2020*

5G in all  
urban areas  
and  
Along main  
transport  
paths

*2025*

Coordinated launch  
throughout single market

Comprehensive with  
geographical and sectorial  
focus



# 5G Public Private Partnership (PPP)

Funding: 700 million € public + 3.5 billion € private

Moving towards to **phase 3**  
(Horizon 2020 Work Programme 2018 - 2020)

**ICT-18-2018 5G for cooperative, connected and automated mobility (CCAM)** up to 50 million €

**Call closed-Results are expected by the end of 2018**

# 2018 CEF Telecom Call: Cybersecurity

Cybersecurity **capability development** for different entities

**€13** million in total

## Grants:

- ✓ Co-funding up to **75% of the eligible costs** of the action
- ✓ **Pre-financing: 50%** within 30 days after signed grant agreement, balance on completion
- ✓ Funding per proposal: Various, depending on the objective, EC (**expected**) **contribution ranges from € 100,000 up to €1,000,000** per action

Indicative duration of the actions: **24 months**

**Open until 22 November 2018**

# Whose Cybersecurity Capabilities? Call Objectives and eligibility

**For the  
Transport  
sector!**

Objective	Who?	
1	National CSIRTs (Computer Security Incident Response Teams) designated by the Member States in line with the NIS Directive	National CSIRTs designated under Article 9 of the NIS Directive
2	<b>Operators of Essential Services (OES)</b> and Digital Service Providers (DSP) in line with the NIS Directive	Must include at least one OES or one DSP. OES must provide a letter of support from relevant authority.
3	Public and private sector entities working on <b>Connected and Automated Mobility</b> , in particular for electric vehicles	Any eligible applicant
4	National Competent Authorities (NCAs) and Single Points of Contact (SPOCs) designated in line with the NIS Directive	NCAs and SPOCs designated under Article 8 of the NIS Directive
5	Capability development for public bodies established by national or European legislation in a Member State to meet European Union Policy objectives associated with Operational Level Cyber Security	Must include at least one public body with a structured co-operation agreement with at least 8 other Member States.

# **OES in the NIS = Eligible Applicants**

## ***Air:***

**Airlines  
Airports  
Air Traffic Control**

## ***Water:***

**Shipping  
Ports  
Vessel Traffic  
Service Operators**

## ***Rail:***

**Infrastructure  
Managers  
Railway  
Undertakings**

## ***Road:***

**Road Authorities  
Operators of  
Intelligent  
Transport Systems**

# What is being financed by the call?

**Cybersecurity  
for CAM  
automation levels  
3 to 5  
in particular  
for electric vehicles**



**Increasing the preparedness  
of the hardware  
to reduce vulnerabilities  
and to withstand  
cyber threats and attacks**

*Must*

**Enabling resilient  
and secure software  
applications and data flows**

*Must*

**Skills & Structural Support**

*Might*

<https://ec.europa.eu/inea/en/connecting-europe-facility/cef-telecom/apply-funding/2018-cef-telecom-calls-proposals>

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**THANK YOU!**