



# **Priložnosti v Obzorju 2020: Zelen, pameten in integriran prometni sistem**

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# Nekaj uporabljenih okrajšav

- GV
- MG
- LC
- ART
- FTI
- ELENA
- Green Vehicles
- Mobility for Growth
- Low Carbon
- Automated Road Transport
- Fast Track to Innovation
- European Local Energy Assistance

## WP SPREJET NA SEJI PO 14.9.2017

Work Programme 2018-2020	2018		2019	
	Opening	Closing	Opening	Closing
Single Stage	31/10/2017	4/4/2018	4/12/2018	24/4/2019
First Stage of 2-Stages	31/10/2017	30/1/2018	5/9/2018	16/1/2019
Second Stage of 2-Stages	-	19/9/2018		12/9/2019

## WP-2018-2020 - Budget

	2018	2019	2020	Total
MG Call	197.4	168.7	147.5	513.6
ART Call	15	38	50	103
GV Call	56	78	112	246
Contribution to FTI	14.8	14.8	14.8	44.4
Smart Cities	3	3		6
Elena	5	5	5	15
Other Actions	7.4	8	1.6	17
Total WP	298.6	315.5	330.9	945
<i>Contribution to SME instrument</i>	<i>58.2</i>	<i>83.4</i>	<i>95.4</i>	<i>237</i>

## I. Transport Work Programme and Focus Areas

Work Programme	Focus Area on "Low carbon-Climate resilient future"	Focus Area on <u>"Digitising European Industry and services"</u>	Focus Area on "Circular Economy"	Focus Area on "Security Union"
Call Mobility for Growth	✓			
Automation Call		✓		
Green Vehicles call	✓			

## **I. WP Contributions to Focus Areas:**

**More than half of the total available budget attributed to the 2 FAs:**

- **Estimated contribution to the Climate Focus Area  
appr. 40-45% of the total available budget**
- **Estimated contribution to the Digital Focus Area  
appr. 12-15% of the total available budget**

# Calls of the Transport Work Programme 2018-2020

## Reminder:

➤ **The WP 2018-2020 contains 3 calls:**

- **Automation – linked to the Focus Area "Digitising and transforming European industry and services"**
- **Green Vehicles – linked to the Focus Area "Building a low-carbon, climate resilient future"**
- **Mobility for Growth (structured in 4 cross-modal sections)**

## Automated Road Transport call ( 4+2 possible topics )

01: Testing, validation and certification procedures for highly automated driving functions under various traffic scenarios based on pilot test data

02: Human centred design of automated vehicles

03: Developing and testing shared, connected and cooperative automated vehicle fleets in urban areas for the mobility of all

04: Support for networking activities and impact assessment for road automation

05: Efficient and safe connected and automated heavy duty vehicles in real logistics operations

06: Large scale, cross border demos of highly automated driving functions for passenger cars



# Indicative themes/topics for the Green Vehicles call - 2018-2019

## Green Vehicles call (5+4 possible topics)

- 01: Integrated architectures, components and systems for next generation electrified vehicles optimised for infrastructure
- 02: Virtual product development and production of electrified vehicles and components
- 03: User centric charging infrastructure
- 04: Next generation electric vehicles for urban use
- 05: Urban mobility and sustainable electrification in large urban areas in developing and emerging economies (INCO Flagship )
- 06: Next generation of batteries for BEV and HEV
- 07: Advanced light materials and production process for automotive applications
- 08: Environmental impact of hybrid light duty vehicles
- 09: Sustainable propulsion for long-distance trucks and coaches

## Mobility for Growth call

Proposed structure

- 1. Low carbon and sustainable transport**
- 2. Safe, integrated and resilient transport systems**
- 3. Global leadership and competitiveness**
- 4. Accounting for the people**

## **1. Low carbon and sustainable transport** *(9+1 possible topics)*

- 1.1 Advancements in aerodynamics and innovative propulsion systems for quieter and greener aircrafts.
- 1.2 Aviation operations impact on climate change (INCO flagship)
- 1.3 Future propulsion and integration –towards a hybrid-electric aircraft (INCO flagship)
- 1.4 Reduction of transport impact on air quality (INCO Flagship)
- 1.5 Retrofit Solutions and Next Generation Propulsion
- 1.6: Sustainable multi-modal, inter-urban transport, mobility and spatial planning in large metropolitan regions

## **1. Low carbon and sustainable transport** *(Continued)*

1.7 Harnessing and understanding the impacts of change in urban mobility on policy making

1.8: Upgrading transport infrastructure in order to improve control of noise and emissions

1.9: Hardening vehicle environmental protection against tampering

1.10 Logistics solutions that deal with requirements of the 'on demand economy' and for shared-connected and low-emission logistics operations

## **2. Safe, integrated and resilient transport systems** (7+2 possible topics)

2.1: Human Factors in Transport Safety

2.2: Marine Accident Response

2.3: Moving freight by Water: Sustainable Infrastructure and Innovative Vessels

2.4: Safety in an evolving road and mobility environment

2.5: Innovative technologies for improving aviation safety and certification in icing conditions (INCO flagship)

2.6: Innovative applications of drones for safety in transport

2.7: Inco flagship: Integrated multimodal, low-emission freight transport systems and logistics

## **2. *Safe, integrated and resilient transport systems*** (Continued)

2.8: Towards full automated infrastructure construction and maintenance

2.9: Jointly implementing innovation in the areas of safety, connectivity and infrastructure (Era-net Co-fund)

## **3. Global leadership and competitiveness** (3 + 4 possible topics)

3.1: Multidisciplinary and collaborative aircraft design tools and processes

3.2: The Autonomous Ship

3.3: "Driver" behaviour and acceptance of connected, cooperative and automated transport

## **3. Global leadership and competitiveness** (continued)

3.4: Enhanced avionics, operations and door-to-door user-experience through higher connectivity and automation

3.5: Towards a high-speed global air transportation demonstration (INCO flagship)

3.6: Next generation multifunctional and intelligent aerostructures – from manufacturing to maintenance and recycling

3.7: Improved production processes in ship building



## **4. Accounting for the people** (6+2 possible topics)

4.1: An inclusive digitally interconnected transport system meeting users' needs

4.2: New regulatory frameworks to enable effective deployment of emerging technologies and business/operating models for all transport modes

4.3: Building Open Science platforms and codes of conduct in Transport

4.4: Demographic change and women's participation in transport

4.5: Support for dissemination events in the field of Transport Research (TRA – Aerodays)

4.6: Supporting joint actions on sustainable urban accessibility and connectivity (Era-net co-fund)

## 4. Accounting for the people (Continued)

4.7: Digitisation of the transport system: data sharing, analytics

4.8: Advanced methods and tools in support of transport/mobility researchers, planners and policy makers

## **Blue Growth** (1 topic per year)

In the 2018-2020 Work Programme, the contribution of the various parts of H2020 to Blue Growth, will appear in the respective work programme parts.

In the case of transport, there is 1 (transport related) topic per year foreseen.

For 2018-2020 the following topics are proposed:

01: Unmanned and autonomous survey activities at sea

02: Ship emission control scenarios, marine environmental impact and mitigation

03: Under water noise mitigation and environmental impact.

## WP-2018-2020 - Summary of modifications

- 1. Topics** have been **re-numbered** in order to follow a chronological order (comparative table sent to the delegations).
- 2. Introduction of 2 new topics in 2018:**
  - MG-2-3 "Airworthiness of mass-market drones"***
  - MG-2-4 "Coordinating national efforts in modernising transport infrastructure and provide innovative mobility services"***

## WP-2018-2020: Summary of modifications (cont.)

3. Ex-topic LC-GV-09-2020 "*Low-emissions propulsion for long-distance trucks and coaches*" has been brought **forward to year 2019** and **now appears as topic LC-GV-04-2019**.

4. In exchange, ex-topic LC-GV-04-2019 "**Next generation electrified vehicles for urban use**" has been **moved to year 2020** and **now appears as LC-GV-09-2020**.

### WP-2018-2020: Summary of modifications (cont.)

5. Several **clarifications/corrections** following comments from delegations. For example:
  - Topic LC-GV-02-2018: "**all types of vehicles**" has been added in the title in order to make clear that electric buses are also covered by this topic.
  - Topic LC-MG-1-2-2018: The reference to "**innovative soft mobility schemes**" has been added in the text.
6. Implementation aspects: the closing date for the first stage of the MG 2-stage topics has been brought **one week later on 30 January 2018**.

## WP-2018-2020: Summary of modifications (cont.)

### 7. **Additional modifications** as a result of the **Interservice Consultation** within the Commission

*These modifications consisted in drafting suggestions which aimed at providing clarifications and making certain aspects more explicit. For example:*

- There are now more explicit **references** to the possibilities offered by **GNSS, EGNOS and Galileo**
- More explicit **references to environmental aspects** of various topics ("water and air quality", "air pollutants", "particulate matters" (PM), etc)

## WP-2018-2020: Summary of modifications (cont.)

- Additional **references** regarding the incorporation of **gender aspects** in few topics (e.g LC-MG-1-3-2018, MG-2-7-2019, etc)
- Few "**other actions**" were re-drafted in order to render the text in line with comments resulting from the legal checks



# Viri predstavitev

**EC – DG RTD**, SMART, GREEN and INTEGRATED TRANSPORT, Draft 2018-2020 WP, predstavljeno na H2020 Transport Programme Committee , 14.9.2017

**EC – DG RTD**, SMART, GREEN and INTEGRATED TRANSPORT, Draft 2018-2020 WP, predstavljeno na H2020 Transport Programme Committee , 16.5.2017

# Conference on Transport and Research in the Danube Region

[6-8\* November 2017]

Grand Hotel Union Ljubljana, Slovenia

14 Days | 15 Hours | 28 Minutes | 24 Seconds

<http://www.trans-slo.org/>

# Hvala lepa!

**dr. Fedor ČERNE** sekretar

Služba za mednarodno sodelovanje in protokol

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