



The EU Framework Programme for Research and Innovation

HORIZON 2020

Smart, green and integrated Transport

Transport Work Programme 2018-2020



EC-DG RTD
Directorate D - Clean Planet
Unit D3 – Low Emission Future Industries

Transport WP2018-20 Info Day, Paris (FR), 8
October, 2019

Andrea Gentili – Deputy Head of Unit RTD.D3



H2020 Work Programme 2018-2020

H2020 Policy Priorities	Transport Policy Goals
<p>Increased investment in sustainable development and climate related R&I</p> <ul style="list-style-type: none">➤ 35% climate actions➤ 60% sustainable development	<p>Resource efficient transport that respects the environment</p>
<p>Integrating digitisation in all industrial technologies and societal challenges</p> <ul style="list-style-type: none">➤ Digital Single Market Strategy	<p>Better mobility, less congestion, more safety and security</p>
<p>Strengthening international R&I cooperation: Flagships to ensure scope and scale in targeted areas</p>	<p>Global leadership for the European transport industry</p>
<p>Addressing societal concerns: security and migration</p>	<p>Socio-economic and behavioural research & forward looking activities</p>
<p>Market creating innovation: EU Innovation Council pilot</p>	

Transport Work Programme 2018-2020

What's new?

- **3 year** coverage: 2018-2019 and 2020
- 2 key **Focus Areas (FA)*** (out of 4) addressing global challenges cutting across sectors and programmes:
 1. Building a low-carbon, climate resilient future
 2. Digitising and transforming European industry and services
- Improved coordination to address technological challenges: EUR 90 mio indicative budget to R&I activities in Call 2020 on **batteries**
- Reduced number of topics and broader scope, new structure
- Reinforced **International Cooperation - InCo: 5 flagship initiatives** of large scale and scope addressing global challenges (on Aviation called "**Safer and Greener Aviation in a Smaller World**", on air quality, on urban mobility, on **Automation**, and on freight logistics) and 10 more topics encouraging InCo
- **Two-stage** procedure for MG call only (except the Aviation topics) and **single-stage** procedure for GV and ART

**Focus Areas: The other two FA aim at "Connecting economic and environmental gains – the Circular Economy" and at "Boosting the effectiveness of the Security Union"*

- **Continued emphasis on EU priorities** (e.g. climate change, safety, automation)

Examples: Topics linked to low-carbon transport, impact of connected and automated mobility, batteries for waterborne sector

- **Complementarity** (Complement the overall coverage of the WP 2018-2020)

Examples: New topics on long distance shipping decarbonisation, safety related to commercial drivers' fitness, urban air-mobility

- **Increased impact of R&I actions**

Examples: Topics focusing on cities and the replication of innovative urban mobility solutions, support to 'first-of-a-kind' solutions for sustainable transport

- **25** topics split among three calls:
 - a) the Mobility for Growth Call (**MG**) → **19** topics (including the Blue Growth topic) – **191 m.** euros
 - b) The Automated Road Transport Call (**ART**) → **2** topics - **50** m.euros
 - c) The Green Vehicles (**GV**) call → **4** topics – **55** m. euros

- **3** topics to be funded by the transport WP part following the creation of the cross-cutting call on batteries → **LC-BAT call 2020 – 60 m Euros**

- Contribution to part 10 of the WP (**SC3-Energy**) with **13 m.** euros (Smart Cities and Elena facility)

The majority of topics in the MG call is RIA (12 topics). There are 5 CSA topics and 2 IA. ART and GV calls will be implemented almost exclusively through IA topics (there is only 1 CSA topic in the GV call).

Some topics include sub-topics with different implementation instruments (RIA, IA, CSA) and requirements. Check the conditions for call at the end of each call (e.g. eligibility and admissibility conditions, evaluation criteria and scoring, etc.)

Topic MG-4-9-2020 will be implemented as a lump sum topic as part of a pilot application across the whole H2020 Work Programme



Calendar of the calls

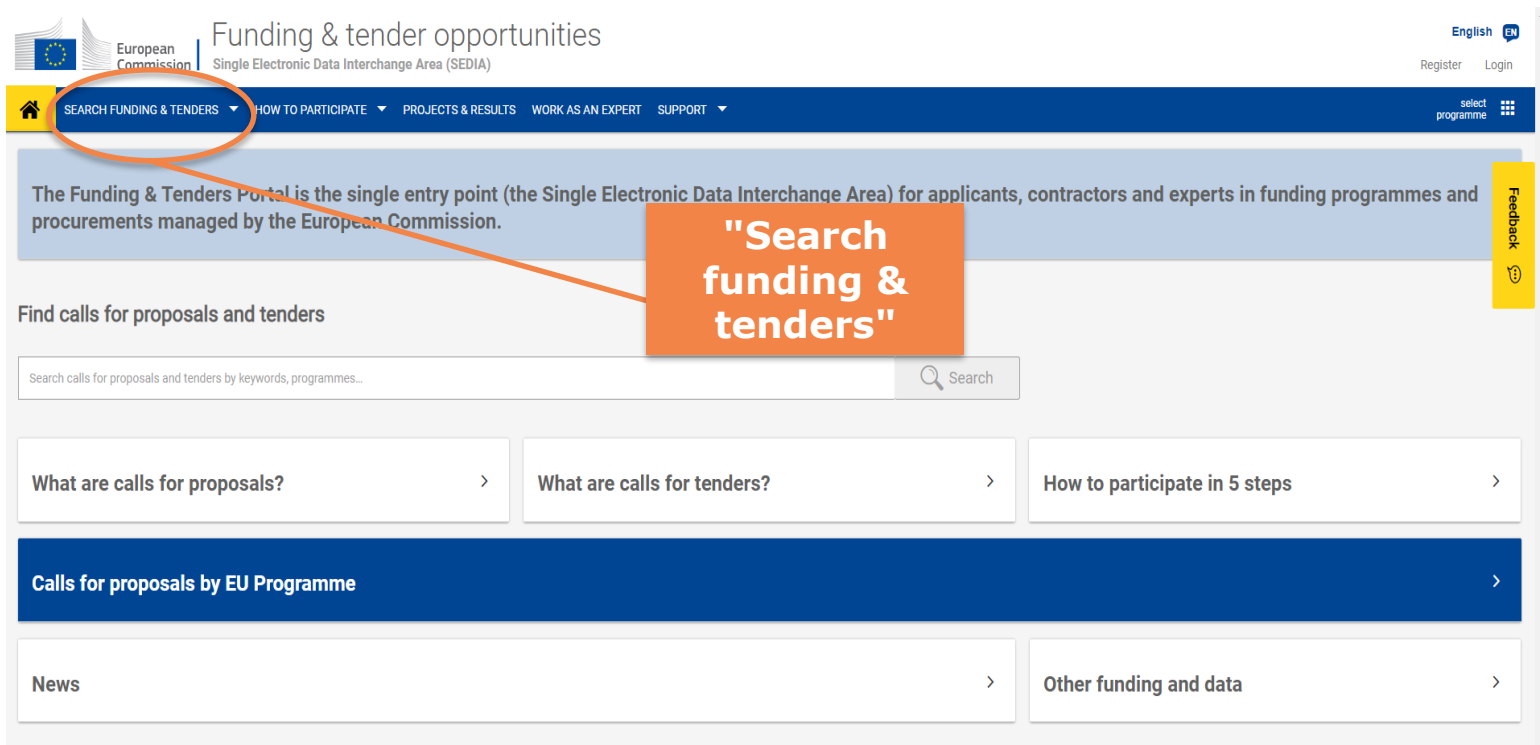
2020 activities	Budget	Opening	Deadline
Mobility for Growth <i>two-stage topics</i>	€92 M	03/09/2019	09 Jan 2020 <i>(1st stage)</i> 08 Sept 2020 <i>(2nd stage)</i>
Mobility for Growth <i>single-stage topics</i>	€99 M	03/12/2019	21/04/2020
Green Vehicles <i>single-stage topics</i>	€55 M		
Automated Road Transport <i>single-stage topics</i>	€50 M	03/12/2019	21/04/2020
Batteries <i>Single stage topics</i>	€90 M		

1

Submission of
proposals

Funding & Tender Opportunities portal

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/>



The screenshot shows the homepage of the Funding & Tender Opportunities portal. The header includes the European Commission logo, the text "Funding & tender opportunities", and "Single Electronic Data Interchange Area (SEDIA)". The language is set to English (EN). The main navigation menu includes "SEARCH FUNDING & TENDERS" (highlighted with an orange circle), "HOW TO PARTICIPATE", "PROJECTS & RESULTS", "WORK AS AN EXPERT", and "SUPPORT". A search bar is located below the navigation menu. The main content area features a blue banner with the text: "The Funding & Tenders Portal is the single entry point (the Single Electronic Data Interchange Area) for applicants, contractors and experts in funding programmes and procurements managed by the European Commission." Below this, there is a section titled "Find calls for proposals and tenders" with a search bar. A yellow callout box with the text "Search funding & tenders" points to the search bar. The page also includes a "Feedback" button on the right side and several navigation links at the bottom: "What are calls for proposals?", "What are calls for tenders?", "How to participate in 5 steps", "Calls for proposals by EU Programme", "News", and "Other funding and data".

- Covering all EU funding programmes

2

Admissibility &
eligibility check

Admissibility & eligibility check 2

Specificity for the MG 2-10-2020 topic (CSA subtopic):

In order to ensure appropriate coverage, proposals must include National Authorities from at least 10 EU Member/Associated countries.

- **Specificity for the MG-4-9-2020 topic:**

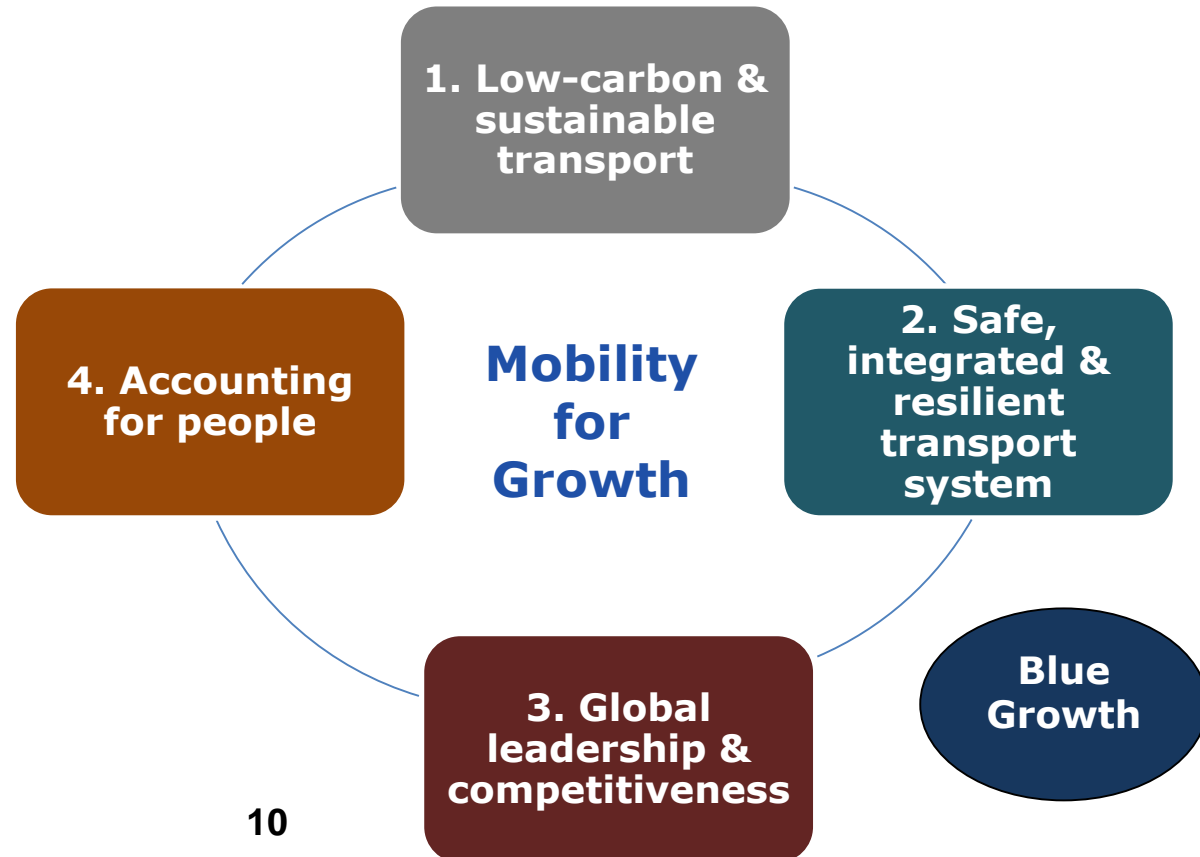
This topic is under the lump sum funding pilot scheme and specific application forms apply. More info in the [topic site on the F&TP](#), under the “Topic conditions and documents” section.

Check out this video: [“All I need to know about Lump Sum Pilots”](#) and this [Guidance note](#).



Overall objectives:

- ✓ Reconcile sustainability and competitiveness
- ✓ Ensure better and safer mobility for all
- ✓ Address socio-economic aspects and provide evidence for policy-making





MOBILITY FOR GROWTH – MG call

1. Low-carbon and sustainable transport

Focus on:

- **The transition towards zero-emission and quieter mobility for all modes, for people and goods**
- **Tools and mechanisms for monitoring and detection of emissions & noise**
- **Scientific evidence for decision making process and planning**
- **Cross-modal/transport integration solutions in urban areas**



Low-carbon & sustainable transport: topics and budget

Total EU contribution: EUR 65 m in 2020

Topic	Title	Action type	Stages	Budget (m€)
				2020
LC-MG-1-12	Cities as climate-resilient, connected multimodal nodes for smart and clean mobility: new approaches towards demonstrating and testing innovative solutions	IA/CSA	2/1	18/4
LC-MG-1-13	Decarbonising long distance shipping	IA	2	20
LC-MG-1-14	Understanding and mitigating the effects on public health of emerging non-regulated nanoparticle emissions issues and noise	RIA	2	10
LC-MG-1-15 <i>InCo flagship Aviation</i>	Towards global environmental regulation of supersonic aviation	RIA	1	13



MOBILITY FOR GROWTH – MG call

2. Safe, integrated and resilient transport systems

Focus on:

- **Transport safety: contribution to the "*zero road fatalities*" goal in a changing environment**
- **Innovative solutions to reduce congestion and ensure seamless, safe and sustainable mobility for people and freight**
- **More resilient transport system and support network capacity**

Safe, integrated and resilient transport system: topics and budget

Total EU contribution: EUR 50,5 Mio in 2020

Topic	Title	Action type	Stages	Budget (m€)
				2020
MG-2-10	Enhancing coordination between Member States' actions in the area of infrastructure research with a particular focus on biodiversity and ameliorating environmental impacts and full automated infrastructure upgrade and maintenance	CSA/RIA	1/2	3/17
MG-2-11	Network and traffic management for future mobility	RIA	2	20
MG-2-12	Improving road safety by effectively monitoring working patterns and overall fitness of drivers	RIA	2	7
MG-2-13	Coordination and support for an integrated freight transport and logistics system	CSA	1	1
MG-2-14	The effects of automation on the transport labour force, future working conditions and skills requirements	CSA	1	2,5

MOBILITY FOR GROWTH – MG call

3. Global Leadership & Competitiveness

Focus on:

- **Vehicle/vessel design and manufacturing and life-cycle approaches**
- **Rapid integration of ICT and IoT**
- **Human component of CAT technologies**



Global Leadership & Competitiveness: topics and budget

Total EU contribution: EUR 56,5 Moi in 2020

Topic	Title	Action type	Stages	Budget (m€)
				2020
MG-3-4	Innovative electric network architectures and systems, optimising global energy, electrical power, data and communication for aviation	RIA	1	10
MG-3-5	Next generation multifunctional and intelligent airframe and engine parts, with emphasis on manufacturing, maintenance and recycling	RIA	1	15
MG-3-6	Towards sustainable urban air mobility	RIA	1	15
MG-3-7	Improved Production and Maintenance Processes in Shipyards	IA	2	15
MG-3-8 16	'First of a Kind' solutions for sustainable transport and mobility: EU initiative for accelerating EU-wide market access, scale up and derisking	CSA	1	1,5



MOBILITY FOR GROWTH – MG call

4. Accounting for the People

Focus on:

- **Innovative solutions for an accessible & inclusive transport system**
- **Behavioural issues and user needs**
- **Appropriate regulatory frameworks and policies to support innovation and deployment**
- **Dissemination and exploitation of sustainable mobility solutions**

Accounting for the People: topics and budget

Total EU contribution: EUR 11 m in 2020

Topic	Title	Action type	Stages	Budget (m€)
				2020
MG-4-7	Digitalisation of the transport system: data sharing	RIA	1	3
MG-4-8	Advanced research methods and tools in support of transport/mobility researchers, planners and policy makers	RIA	1	3
MG-4-9	The European mobility culture of tomorrow: Reinventing the wheel?	RIA + LUMP SUM	1	1
MG-4-10	Improving impact and broadening stakeholder engagement in support of transport research and innovation	CSA	1	4



MOBILITY FOR GROWTH – MG call

One **'Blue Growth'** topic in 2020 aiming at:

- **Noise mitigation**
- **Reducing the environmental impact**



Blue Growth: topics and budget

Total EU contribution: EUR 8 m in 2020

Topic	Title	Action type	Stages	Budget (m€)
				2020
MG-BG-03	Under water noise mitigation and environmental impact	RIA	1	8



Automated Road Transport – ART call

Focus on:

- Large-scale/cross-border demos to promote market introduction of highly automated driving systems
- Trials on sustainable automated functions in real driving conditions - various traffic scenarios and urban areas
- Regulatory framework, certification procedures and standards
- New concepts for shared, connected and automated mobility
- ART-related cross-cutting issues: safety, users' needs, business models,...



Automated Road Transport: topics and budget

Total EU contribution: EUR 50 m in 2020

Topic	Title	Action type	Stages	Budget (m€)
				2020
DT-ART-05	Efficient and safe connected and automated heavy-duty vehicles in real logistics operations	IA	1	20
DT-ART-06	Large-scale, cross-border demonstration of connected and highly automated driving functions for passenger cars	IA	1	30



GREEN VEHICLES – GV call

Bring forward the activities of the **EU Green Vehicle Initiative**: prepare the ground for a **potential massive introduction of electrified vehicles**

- **Support design and manufacturing of 3rd generation of electrified vehicles, components and new generation of batteries**
- **Improve the charging solutions to meet end-users needs (access, time, cost, payment systems, etc.)**
- **Develop new concepts to reduce energy consumption and emissions of long-distance vehicles**
- **Cooperate with developing and emerging economies for demonstration activities and pilots in large urban areas**

Green vehicles: topics and budget

Total EU contribution: EUR 55 m in 2020

Topic	Title	Action type	Stages	Budget (m€)
				2020
LC-GV-06	Advanced light materials and their production processes for automotive applications	IA	1	24
LC-GV-07	Reducing the environmental impact of hybrid light duty vehicles	IA	1	5
LC-GV-08	Next generation electrified vehicles for urban and suburban use	IA	1	25
LC-GV-09	Setting up a common European research and innovation strategy for the future of road transport	CSA	1	1

Evaluation criteria

Excellence

Clarity and pertinence of the objectives

Soundness of the concept, including trans-disciplinary considerations, where relevant

Extent that proposed work is ambitious, has innovation potential, and is beyond the state of the art (e.g. ground-breaking objectives, novel concepts and approaches)

Credibility of the proposed approach

Impact

The expected impacts listed in the work programme under the relevant topic

Enhancing innovation capacity and integration of new knowledge

Strengthening the competitiveness and growth of companies by developing innovations meeting the needs of European and global markets; and, where relevant, by delivering such innovations to the markets

Any other environmental and socially important impacts (not already covered above)

Effectiveness of the proposed measures to exploit and disseminate the project results (including management of IPR), to communicate the project, and to manage research data where relevant

Implementation

Coherence and effectiveness of the work plan, including appropriateness of the allocation of tasks and resources

Complementarity of the participants within the consortium (when relevant)

Appropriateness of the management structures and procedures, including risk and innovation management

Stage-1 proposals: only the aspects of the criteria in red are evaluated

Thank you



Find out more:

Participant Portal <http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

Expert evaluators needed! <http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

Learn more about the Transport Challenge and the WP

<http://ec.europa.eu/programmes/horizon2020/en/h2020-section/smart-green-and-integrated-transport>

Tip 1: Have a strong concept

1 Calls are very competitive

2 Success rate for a first stage call is around 30% and 30% for a second stage call

3 Success rate for a single stage call is around 15%

4 Have a strong concept:

- Be clear on what do you want to achieve
- Explain well how will you meet the requirements of the topic

Tip 2: Understand call conditions and text

Check if
need to
address all
issues in
the call or
not

Should =
won't get
good score if
you don't

Must & shall
= "have to"

Consult **FAQ's** in good time –
or ask your own **question!**

Tip 3: Impact

Identify and substantiate the impacts

Dissemination and exploitation plan

Tip 4: Sound budget construction & good project team*

Budget is reasonable

Resource allocation is balanced

All partners have a clear and justified role in the project

All partners are committed to implement the results

→ The team should share a common **vision/ambition**

*Only for single stage and second stage calls

Tip 5: Simple to digest

SIMPLE LANGUAGE

(MAJORITY OF EXPERTS ARE NON-NATIVE SPEAKERS)

MAKE INFORMATION EASY TO FIND

**RELEVANT SUMMARY TABLES,
GRAPHS & IMAGES**

RESPECT PAGE LIMIT

5 steps to success

