



The EU Framework Programme for Research and Innovation

HORIZON 2020

**Le opportunità di finanziamento per il
sistema portuale e logistico italiano**

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WP 2017 Call: Mobility for Growth (MG)

5. Area: Logistics (2 topics)

The aim of the topics in this section is to increase efficiency and hence sustainability of logistic systems, use opportunities provided by digitalization, remove the communication bottlenecks between the different stakeholders and thereby improve the potential for collaboration.

- Budget:
 - ✓ MG-5.2/5.3-2017 RIA = **12 M€**
 - ✓ MG-5.4-2017 CSA = **1M€**



(1) Topic MG-5.2-2017

Innovative ICT solutions for future logistics operations

- **Challenge:** to exploit opportunities offered by advanced ITC (eg. Internet of Things, Big data) by focusing on:
 - ✓ Electronic booking and planning systems towards a paperless environment and freight traceability
 - ✓ Real-time exception management and business models for dynamic transport services
 - ✓ Interoperability & integration of SMEs in supply chain
- **Expected Impact:**
 - ✓ Link digital & physical flows; seamless freight transport execution; increased reliability; optimisation of load factors & delivery routes; business models for collaborative & dynamic services



(2) Topic MG-5.4-2017

Potential of the Physical Internet (PI)

The creation of the PI requires integration of many innovative concepts and a mental-shift towards a different governance structure

Two types of actions:

- ✓ RIA-case study to identify minimum requirements for efficient influence of PI's nodes; modelling of tools & business models
- ✓ CSA – mapping of relevant activities, advocacy & dissemination
- **Expected Impact:** get industry-wide support & launch the development of the PI
- **International Cooperation** (in particular US, Canada and Hong Kong) encouraged

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4. Area: Urban mobility (2 topics)

- Budget:
 - ✓ MG-4.1-2017 RIA = ~**11 M€**
 - ✓ MG-4.3-2017 CSA = **2 M€**

(1) Topic MG-4.1-2017

Increasing the take-up & scale of innovative solutions to achieve sustainable mobility

- **Challenge:** to increase the take-up of innovative solutions by transferring them to new contexts and studying & comparing impacts
- **Expected Impact:**
 - ✓ Actions should demonstrate/ successfully transfer a single solution/approach or limited package of mutually reinforcing solutions/approaches from a small number of locations in Europe (not more than 5) to at least 10 new locations in Europe



(2) Topic MG-4.3-2017

Innovative approaches for integrating urban nodes in the TEN-T core network corridors

- **Challenge:** the efficient and effective integration of urban nodes into TEN-T corridors requires further research and innovation efforts for the development and related recommendations for deployment of innovative solutions in urban areas
- **Expected Impact:**
 - ✓ CSA produces recommendations for wide-scale deployment of research and innovation solutions in some (if justified, a selection could be made) or all urban nodes along the TEN-T corridors

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7. Area: Infrastructures (3 topics)

Projects in this area will aim to find solutions to increase the productivity, robustness and efficiency of infrastructure for **all modes**, and ensure the resilience of the whole transport system in case of extreme events and allow optimal use and management of the multimodal transport infrastructure.

- **Budget:**

- ✓ MG-7.1/7.2/7.3-2017 RIA= **37,5M€**
- ✓ MG-7.3-2017 CSA = **1,2M€**



(1) Topic MG-7.1-2017

Resilience to extreme (natural and man-made) events

- **Challenge:** to reduce the negative impact of extreme conditions on the reliability of mobility, projects should:
 - ✓ Map climate risk "hot spot";
 - ✓ Suggest smart use of materials techniques and methods to ensure continuous reliability of the network;
 - ✓ Develop innovative Structural Health Monitoring systems for key infrastructure;
 - ✓ Design innovative connections to smooth transfer of mode in case of extreme disruption
- **Expected Impact:** smooth continuity of mobility of people and freight even in case of serious disruptions; reliable modal interchanges allowing continuous fluid traffic flow even during and after disruption
- **International Cooperation** - possible "Twinning" with US DoT funded activities.



(2) Topic MG-7.2-2017

Optimisation of transport infrastructure including terminals

- **Challenge:** Towards zero intrusion construction, inspection & maintenance
 - ✓ Innovative design and construction methods for low-maintenance and high adaptability to future needs
 - ✓ Assessment of multimodal network capacity
 - ✓ Attention to accessibility & interoperability of corridors, terminals and hubs (including airports and inland waterways)
- **Expected Impact:** more optimal use of existing network with avoidance of over dimensioning whilst increasing capacity. Better accessibility & operational efficiency of multimodal hubs
- **International Cooperation** in particular with Neighbouring Countries encouraged



(3) Topic MG-7.3-2017

The Port of the Future

- **Challenge:**
 - ✓ Ensure that efficient operations will not affect negatively the surrounding territory, including city-port relations and the smart urban development of Port Cities
 - ✓ New Port concepts, new management models, and innovative design, engineering, construction and operation technologies and solutions for full customer, stakeholder and citizen satisfaction.
- **Expected Impact:** reduction of environmental impact of port activities, their operational and infrastructural costs; improvement of logistics efficiency and better integration of the port in the surrounding socio-economic area, including city-port relations and the smart urban development of Port Cities,
- **International Cooperation** (in particular with Med and other Neighbouring Partner Countries) encouraged