

# Galileo-1-2017

## EGNSS Transport applications



European  
Global Navigation  
Satellite Systems  
Agency

HORIZON 2020

# Excellence

<p>1.1. Clarity and pertinence of the <b>objectives</b></p>	<p>Objectives should be should be clear, measurable, realistic and achievable within the duration of the project. They should be consistent with the expected exploitation and impact of the project.</p> <p>The main objective is to develop innovative <b>EGNSS based applications</b> in aviation, road, maritime and rail that will <b>make EGNSS more available to transport users and enable new end-to-end solutions</b> that require accurate and resilient positioning and navigation. Detailed objectives by market segment described in the WP.</p>
<p>1.2. Soundness of the <b>concept</b>, and credibility of the proposed <b>methodology</b></p>	<p>Innovation activities within this topic should build on:</p> <ul style="list-style-type: none"> <li>- Exploitation of the <b>features of EGNOS and Galileo</b> signals and operational advantages in downstream applications;</li> <li>- Implementation of <b>EGNSS based pilot projects and end-to-end solutions</b>, ready for use by private or public sector;</li> <li>- <b>Standards, certification, legal and societal acceptance</b>, which will foster EGNSS adoption; and</li> <li>- Exploitation of <b>synergies with other positioning and navigation systems and techniques</b>, with focus in valorizing EGNOS and Galileo in the frame of multi-constellation and multi-frequency environment.</li> </ul> <p>The focus is on development of <b>innovative applications, with commercial impact and clear market uptake perspective</b>. More details in WP.</p>
<p>1.3. Extent that the proposed work is beyond the <b>state of the art</b>, and demonstrates <b>innovation potential</b> (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisational models)</p>	<p>Describe <b>the innovation of the proposed offering in the context of the competition and the market segment's needs</b>.</p>
<p>1.4. Appropriate consideration of <b>interdisciplinary</b> approaches and, where relevant, use of <b>stakeholder knowledge</b></p>	<p><b>EGNSS should be part and parcel of the envisaged solution(s)</b>. However, where a <b>combination of EGNSS with other technologies</b> is required to make the application(s) work, this is not excluded from the scope.</p>

# Impact

<p>2.1. The extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the <b>work programme</b> under the relevant topic</p>	<p>Activities should:</p> <ul style="list-style-type: none"> <li>- build on <b>specific features and differentiators of Galileo and EGNOS</b>, demonstrating the advantage of their use in transport.</li> <li>- <b>contribute to the modern, efficient and user-friendly transport system</b></li> <li>- <b>be complemented with a systems' approach, taking care of infrastructure and regulatory requirements</b></li> <li>- <b>led to commercialization of the products and services</b> developed</li> </ul>
<p>2.2. Any substantial impacts not mentioned... address issues related to climate change or the environment, or bring other important benefits for society</p>	
<p>2.3. Quality of the proposed measures to:</p> <ul style="list-style-type: none"> <li>- <b>Exploit</b> and <b>disseminate</b> the project results (including management of IPR), and to manage research data where relevant</li> <li>- <b>Communicate</b> the project activities to different target audiences</li> </ul>	<p>Activities should promote innovation in order to <b>maximise the potential of the EGNSS and its adoption in transport</b>. They should consider coordination of multiple actors and pilot projects to <b>encourage market take-up</b>.</p> <p><b>Preliminary business plan</b> is requested as an Annex to Part B. The purpose of the preliminary business plan is to demonstrate the <b>commercial potential of the product and/or service</b> (offering) and describe how this potential will be realised.</p> <p>Provide:</p> <ul style="list-style-type: none"> <li>- draft <b>plan for the dissemination and exploitation</b> of the project's results'</li> <li>- information on the <b>knowledge management and protection</b></li> <li>- definition on measures to provide <b>open access</b> (free on-line access, such as the 'green' or 'gold' model) to peer reviewed scientific publications which might result from the project</li> </ul> <p>Describe the proposed <b>communication measures</b> for promoting the project and its findings during the period of the grant</p>

# Implementation

<p>3.1. Quality and effectiveness of the <b>work plan</b>, including extent to which the <b>resources</b> assigned to work packages are in line with their objectives and deliverables</p>	<p>Build <b>logical structure</b> of the project and the stages in which it is to be carried out. Include details of the <b>resources to be allocated to each work package</b>. The number of work packages should be <b>proportionate to the scale and complexity of the project</b>. <b>Resources</b> assigned to work packages should be in line with their <b>objectives and deliverables</b>.</p>
<p>3.2. Appropriateness of the <b>management</b> structures and procedures, including <b>risk and innovation management</b></p>	<p>Describe <b>organizational structure and the decision-making</b> and justify why these mechanisms are appropriate to the complexity and scale of the project. Describe, where relevant, how effective <b>innovation management</b> will be addressed in the management structure and work plan. Describe any <b>critical risks, relating to project implementation</b>, that the stated project's objectives may not be achieved. Detail any risk mitigation measures.</p>
<p>3.3. Complementarity of the participants and extent to which the <b>consortium</b> as whole brings together the necessary expertise</p>	<p>Describe the consortium. In projects to be funded under this topic participation of industry</p>
<p>3.4. Appropriateness of the allocation of tasks, ensuring that all participants have a <b>valid role</b> and adequate resources in the project to fulfil that role</p>	<p>You should give enough detail in each work package to <b>justify the proposed resources to be allocated</b>. Show that each has a <b>valid role, and adequate resources</b> in the project to fulfil that role. If applicable, describe the industrial/commercial involvement in the project to <b>ensure exploitation of the results</b>. <b>Other countries and international organisations:</b> If one or more of the participants requesting EU funding is based in a country or is an international organisation that is not automatically eligible for such funding, explain why the participation of the entity in question is essential to carrying out the project.</p>

# Galileo-2-2017

## EGNSS Mass Market applications



European  
Global Navigation  
Satellite Systems  
Agency

HORIZON 2020

# Excellence

<p>1.1. Clarity and pertinence of the <b>objectives</b></p>	<p>Objectives should be should be clear, measurable, realistic and achievable within the duration of the project. They should be consistent with the expected exploitation and impact of the project.</p> <p>The main objective is to exploit availability of GNSS enabled mass market devices, <b>developing innovative EGNSS applications that will:</b></p> <ul style="list-style-type: none"> <li>• Foster the <b>adoption</b> of EGNSS <b>in mass markets</b> and ensure that the <b>benefits will be captured by the users</b>.</li> <li>• Create applications that will make best use of <b>EGNSS innovative features</b></li> <li>• Contribute to <b>competitiveness of the EGNSS industry</b> in the area of mobile applications, with special focus on SMEs.</li> <li>• Maximise <b>public benefits</b> by supporting the development of applications that will address major societal challenges in focus areas such as health, citizen safety, mobility, smart cities, sustainable resources monitoring and management, regional growth, low-carbon energy infrastructure planning and protection, climate action.</li> </ul> <p>Especially promising areas: <b>Mobility as a service and Smart Cities, Internet of things, Commercial and social LBS</b></p>
<p>1.2. Soundness of the <b>concept</b>, and credibility of the proposed <b>methodology</b></p>	<p>Proposals should aim at <b>developing innovative applications</b>, with commercial impact and market uptake perspective. For all the mass market areas, the development and innovation should build on:</p> <ul style="list-style-type: none"> <li>• Galileo features <b>that improve performances</b> in urban environment ;</li> <li>• <b>Multi-constellation, fusion</b> with other positioning techniques, including sensor and innovative network fusion techniques;</li> <li>• <b>Authentication</b> services that will be provided by Galileo; and</li> <li>• Techniques to optimise <b>power consumption</b>.</li> </ul>
<p>1.3. Extent that the proposed work is beyond the <b>state of the art</b>, and demonstrates <b>innovation potential</b></p>	<p>Describe <b>the innovation of the proposed offering in the context of the competition and the market segment's needs</b>.</p> <p>Attention should be paid to socio-economic considerations such as <b>consumer needs</b> and behaviour, lifestyles, as well legal frameworks and ethical issues such as privacy and data protection</p>
<p>1.4. Appropriate consideration of <b>interdisciplinary</b> approaches and, where relevant, use of <b>stakeholder knowledge</b></p>	<p><b>EGNSS should be part and parcel of the envisaged solution(s)</b>. However, where a <b>combination of EGNSS with other technologies</b> is required to make the application(s) work, this is not excluded from the scope.</p>

# Impact

<p>2.1. The extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the <b>work programme</b> under the relevant topic</p>	<p>Expected impacts are:</p> <ul style="list-style-type: none"> <li>• To develop <b>highly innovative and adaptive applications</b> taking advantage of EGNSS added value.</li> <li>• To <b>commercialise the products and services</b> developed, including a business plan.</li> <li>• To foster <b>competitiveness of EGNSS</b> application providers that build innovation on chipsets and devices.</li> <li>• To foster applications building</li> </ul>
<p>2.2. Any substantial impacts not mentioned in the work programme...address issues related to climate change or the environment, or bring other important benefits for society</p>	
<p>2.3. Quality of the proposed measures to:</p> <ul style="list-style-type: none"> <li>- <b>Exploit and disseminate</b> the project results (including management of IPR), and to manage research data where relevant</li> <li>- <b>Communicate</b> the project activities to different target audiences</li> </ul>	<p><b>Preliminary business plan</b> is requested as an Annex to Part B.</p> <p>The purpose of the preliminary business plan is to demonstrate the <b>commercial potential of the product and/or service</b> (offering) and describe how this potential will be realised.</p> <p>Provide:</p> <ul style="list-style-type: none"> <li>- draft <b>plan for the dissemination and exploitation</b> of the project's results'</li> <li>- information on the <b>knowledge management and protection</b></li> <li>- definition on measures to provide <b>open access</b> (free on-line access, such as the 'green' or 'gold' model) to peer reviewed scientific publications which might result from the project</li> <li>- <b>Preliminary Business Plan that</b> is mandatory</li> </ul> <p>Describe the proposed <b>communication measures</b> for promoting the project and its findings during the period of the grant</p>

# Galileo-3-2017

## EGNSS Professional applications



HORIZON 2020

# Excellence

<p>1.1. Clarity and pertinence of the <b>objectives</b></p>	<p>The main objectives are to:</p> <ul style="list-style-type: none"> <li>- Develop innovative <b>professional applications with market uptake</b> perspective</li> <li>- Professional applications (agriculture, mapping, surveying) <b>empowered by EGNSS</b></li> <li>- When valuable, <b>combine EGNSS with other solutions</b> and technologies, for example EO</li> <li>- Develop high performing, reliable and EU independent <b>leveraging Galileo differentiators</b></li> </ul> <p>Especially promising areas for further EGNSS application development:  <b>Agriculture; Surveying and Mapping; Timing and Synchronisation; Other professional applications</b></p>
<p>1.2. Soundness of the <b>concept</b>, and credibility of the proposed <b>methodology</b></p>	<p>For all the professional areas, the development and innovation should build on:</p> <ul style="list-style-type: none"> <li>• Multiple-frequencies E1, E5 and E6;</li> <li>• Galileo specific signal modulation, e.g. AltBOC;</li> <li>• High precision and authentication services that will be provided by Galileo, i.e. in the frame of the commercial service;</li> <li>• Fusion with other data, such as from earth observation satellites or other in-situ sensors.</li> </ul> <p>The focus is on development of <b>innovative applications, with commercial impact and clear market uptake perspective.</b></p>
<p>1.3. Extent that the proposed work is beyond the <b>state of the art</b>, and demonstrates <b>innovation potential</b> (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisational models)</p>	<p>Describe <b>the innovation of the proposed offering in the context of the competition and the market segment's needs.</b></p>
<p>1.4. Appropriate consideration of <b>interdisciplinary</b> approaches and, where relevant, use of <b>stakeholder knowledge</b></p>	<p><b>EGNSS should be part and parcel of the envisaged solution(s).</b> However, where a <b>combination of EGNSS with other technologies</b> is required to make the application(s) work, this is not excluded from the scope.</p>

# Impact

<p>2.1. The extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the <b>work programme</b> under the relevant topic</p>	<p>Expected impacts are to:</p> <ul style="list-style-type: none"> <li>- <b>develop innovative applications</b> taking advantage of EGNSS</li> <li>- decrease the barriers to access professional applications, in term <b>of price and easiness to use</b></li> <li>- increase the <b>number of users</b> and explore new innovative use of GNSS.</li> <li>- <b>For agriculture:</b> to improve the productivity and decrease the environmental impact.</li> <li>- <b>For timing and synchronisation:</b> to contribute to cope with emerging network synchronisation needs in terms of accuracy and robustness, while contributing to improve EU dependency from other GNSS.</li> </ul>
<p>2.2. Any substantial impacts not mentioned in the work programme...new market opportunities, strengthen competitiveness and growth of companies, address issues related to climate change or the environment, or bring other important benefits for society</p>	
<p>2.3. Quality of the proposed measures to:</p> <ul style="list-style-type: none"> <li>- <b>Exploit</b> and <b>disseminate</b> the project results (including management of IPR), and to manage research data where relevant</li> <li>- <b>Communicate</b> the project activities to different target audiences</li> </ul>	<p><b>Preliminary business plan</b> is requested as an Annex to Part B.</p> <p>The purpose of the preliminary business plan is to demonstrate the <b>commercial potential of the product and/or service</b> (offering) and describe how this potential will be realised.</p> <p>Provide:</p> <ul style="list-style-type: none"> <li>- draft <b>plan for the dissemination and exploitation</b> of the project's results'</li> <li>- information on the <b>knowledge management and protection</b></li> <li>- definition on measures to provide <b>open access</b> (free on-line access, such as the 'green' or 'gold' model) to peer reviewed scientific publications which might result from the project</li> <li>- <b>Preliminary Business Plan that</b> is mandatory</li> </ul> <p>Describe the proposed <b>communication measures</b> for promoting the project and its findings during the period of the grant</p>

# Galileo-4-2017

## EGNSS Awareness Rising and Capacity Building



HORIZON 2020

# Excellence

<p>1.1. Clarity and pertinence of the <b>objectives</b></p>	<p>Objectives should be clear, measurable, realistic and achievable within the duration of the project. They should be consistent with the expected exploitation and impact of the project.</p> <p>Main objectives are to:</p> <ul style="list-style-type: none"><li>- build capacity, increase awareness of EGNSS solutions</li><li>- provide networking opportunities of centres of excellence and other relevant actors</li><li>- achieve a critical mass of EGNSS applications success stories, making it an attractive option for private investors in Europe and also globally.</li></ul>
<p>1.2. Soundness of the <b>concept</b>, and credibility of the proposed <b>methodology</b></p>	<p>Activities may also contribute to <b>cooperation schemes</b>, which have been established with partner countries worldwide.</p> <p>Technology promotion activities can include <b>incentive schemes</b> in the form of financial support to third parties for EGNSS applications developed by companies and entrepreneurs.</p> <p>Promote <b>the uptake of satellite navigation</b> downstream applications across Europe and beyond.</p>
<p><b>Quality of the proposed coordination and/or support measures</b></p>	<p>Describe and explain the overall approach, distinguishing, as appropriate, coordination and support activities</p>

# Impact

<p>2.1. The extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the <b>work programme</b> under the relevant topic</p>	<p>The main aim of this topic is to support <b>building of industrial relationships</b> by gathering private and public institutions around services offered by EGNSS and related applications. This topic should <b>support the competitiveness</b> of EU industry by identifying <b>strategic partners</b> and by developing <b>market opportunities</b>.</p> <p>The <b>support to incentive schemes</b> should foster the emergence of new downstream applications based on either Galileo and/or EGNOS and therefore to <b>support the EU GNSS industry</b>.</p>
<p>2.3. Quality of the proposed measures to:</p> <ul style="list-style-type: none"> <li>- <b>Exploit</b> and <b>disseminate</b> the project results (including management of IPR), and to manage research data where relevant</li> <li>- <b>Communicate</b> the project activities to different target audiences</li> </ul>	<p>Provide:</p> <ul style="list-style-type: none"> <li>- draft <b>plan for the dissemination and exploitation</b> of the project's results'</li> <li>- information on the <b>knowledge management and protection</b></li> <li>- definition on measures to provide <b>open ac</b>the 'green' or 'gold' model) to peer reviewed scientific publications which might result from the project</li> </ul> <p>Describe the proposed <b>communication measures</b> for promoting the project and its findings during the period of the grant</p>