

# **PROGRESS**

Protection & Resilience Of Ground Based infRastructures  
for European Space Systems

Dear Sir, Madam,

We kindly invite you to participate in a workshop organised in the framework of the project PROGRESS supported by the European Commission (please check the PROGRESS [website](#) for full background information). The specific objective of the workshop is to assess societal, economic and cross-sectorial effects of malfunctioning of Global Navigation Satellite Systems (GNSS) in the European Union (EU). We are inviting a larger group of experts on this topic from relevant national institutions, sectors, ESA, European GNSS Agency, etc. aiming to provide a joined assessment. Hereafter we provide some information about the project, workshop, and logistical details.

*PROGRESS has the possibility to organise and pay for experts' travel, accommodation and subsistence costs (if necessary).*

## **PROGRESS project summary**

PROGRESS is a research and technological development (RTD) project co-funded by the European Union under the EU 7th Framework Programme Security theme. PROGRESS focuses on improving the security and resilience of GNSS, specifically with regards to threats that are likely to increase in the coming years. A generic GNSS system with its associated augmentation system has been developed and is being assessed with regards to risk from selected threat scenarios. This assessment seeks not only to understand the technical risk to the quality of the GNSS service but also the follow through risk to society. The resulting prioritisation of threats scenarios will be used as input to develop a prototype GNSS security solution to improve the overall GNSS quality of service which will be tested in the project.

*PROGRESS project partners:* Atomic Energy and Alternative Energies Commission (CEA); Crabbe Consulting Ltd; Decisio BV; DLR Gesellschaft für Raumfahrtanwendungen (GfR) mbH; Fraunhofer EMI; Qascom SRL; Securiton GmbH; Thales Alenia Space, France; Thales Alenia Space, Italy; Thales Alenia Space, Spain; and the University of Ljubljana.

## **The workshop**

A group of GNSS experts is invited to help us determine the criticality of GNSS and to extend the knowledge on the consequences to be expected from severe disruptions or malfunctions of these services. This understanding will help us to prioritise the threats considered in the project and to focus the development work on protection and mitigation measures. During the workshop participants will be asked to estimate the direct and indirect effects that occur after a complete malfunction of GNSS. Effects on the following items will be assessed: casualties, the economy, public confidence, public services and social order. Additionally, the predictable cross-sectorial impacts for a number of key sectors will be determined, such as: energy, transport, ICT, finance, health, food, water, chemical industry, nuclear industry, mining industry, science, education and security. The workshop will be led by the University of Ljubljana and Decisio.

We believe that with your contribution this will be a unique opportunity to estimate the societal and economic impact of GNSS malfunctions, something that has never been done.

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The confirmed participants will receive our questionnaire in advance and also the background materials needed for the assessment process. The results will be made available to all participating experts and their institutions.

**Logistical information**

*Date:* 29 January 2015

*Time:* 11.00-16.00 (lunch included)

*Location:* Amsterdam, the Netherlands (address information will follow)

*Cost:* **Possibility for the PROGRESS project to organise and pay for travel, accommodation and daily allowance costs**  
(Precondition is that the PROGRESS project confirms that it can cover this cost with each individual expert; please contact Decisio, Mathieu Wijnen or Daan van Gent)

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Daan van Gent ([d.vangent@decisio.nl](mailto:d.vangent@decisio.nl))  
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**Confirmation**

Please contact us to note your interest, confirm your ability to participate and whether you request the above types of cost to be covered. Decisio will contact you within a week to confirm your attendance. Further details about the project, the workshop and logistics will be provided in advance.

At this moment we want to thank you in advance and we look forward to hearing from you soon.

Yours sincerely,

Nicolas Ribière-Tharaud

Dr. Iztok Prezelj

Drs. Gerwin van der Meulen

CEA Gramat  
Project Coordinator

University of Ljubljana  
Work package leader

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