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EXPLORATION OF CONSEQUENCES OF POTENTIAL MALFUNCTIONS OF GLOBAL NAVIGATION SATELLITE SYSTEMS

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Abstract

European countries and numerous services have become increasingly dependent on the navigation support provided by the existing Global Navigation Satellite Systems – GNSS (predominantly GPS and supplementary systems such as EGNOS). The European navigation system GALILEO will likely to become fully operational in the near future. GNSS can be understood as a critical infrastructure in Europe because of our high and strategic dependence on its uninterrupted operation. Malfunction of GNSS can cause major direct and indirect consequences. There is a lack of clarity about the proportion and seriousness of such consequences for our societies. This paper presents results from research on the consequences of potential malfunctions of GNSS in Europe, done as part of EU-funded PROGRES research project[1]. Investigation in this direction will contribute to improvement of our preparedness and crisis management procedures in the unpredictable future

Keywords: GNSS, malfunction, crisis

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