

**Public**

## Environmental and Social Data Sheet

### Overview

Project Name: D-Orbit (EGFF)  
Project Number: 2019-0687  
Country: Italy  
Project Description: The project concerns the development, assembly, testing and the launch of software controlled electro-mechanical subsystems and entire space crafts. The launch itself will be carried out by specialised launch service providers. The R&D programme includes the years from 2020 – 2023.

EIA required: No

Project included in Carbon Footprint Exercise<sup>1</sup>: No

(details for projects included are provided in section: “EIB Carbon Footprint Exercise”)

### Environmental and Social Assessment

#### Environmental Assessment

The project activities are related to the development of hard- and software components for different kinds of spacecrafts. The final assembly and the testing of the space products takes place within existing own facilities including a clean room for critical tasks. The launch into the required orbits - the final proof of functioning - , will be carried out by specialised launch service providers operating a launch site in Europe, Asia or America.

The R&D and manufacturing activities do not include harmful activities such as handling of explosives for propulsion systems. Such tests would be carried out by specialised companies or by the launch service provider itself during the launch preparation phase.

The prototypes will be put in low earth orbits as the final test stage. At the end of such orbital tests, a decommissioning is planned according to the current regulations by lowering the orbit gradually and finally burning the spacecraft in the atmosphere. Due to its small size, there is no risk that remaining particles can reach the earth surface.

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<sup>1</sup> Only projects that meet the scope of the Carbon Footprint Exercise, as defined in the EIB Carbon Footprint Methodologies, are included, provided estimated emissions exceed the methodology thresholds: 20,000 tonnes CO<sub>2</sub>e/year absolute (gross) or 20,000 tonnes CO<sub>2</sub>e/year relative (net) – both increases and savings.

Luxembourg, 29/06/2020

### **Other Environmental and Social Aspects**

The promoter's products and services will facilitate the launch of various types of satellites including earth observation capabilities. The data collected by such satellites will be supplied to public agencies as well as private customers and it will allow them to improve the weather prediction and the impact assessment of adverse weather events including emergencies (NOCTUA project).

### **Conclusions and Recommendations**

Considering the above, the project is acceptable for the Bank's financing in environmental and social terms.