

## Environmental and Social Data Public Sheet

### Overview

Project Name:	Ariane 6 European Space Launcher
Project Number:	2017-0609
Country:	France (60%), Germany (15%), Italy (8%), Rest of Europe (17%)
Project Description:	The project represents a large multiannual programme to develop a new family of European space launchers by ArianeGroup with improved technical flexibility and modularity to respond to the latest trends in the satellite market while lowering significantly the cost per launch. Thus, the programme is composed of sizeable R&D/qualification efforts including investments into prototypes, advanced manufacturing capabilities, new integration facilities as well as a new launch site.
EIA required:	Yes
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 Ariane 6 programme concerns the development of a new space launcher generation including the testing and qualification of system prototypes such as engines, stages and the entire launcher on the ground and by a maiden flight. The programme also includes the preparation of a new state of the art manufacturing process, which requires a technological upgrade of the existing facilities and the construction of new facilities to accommodate the new launcher design and the increased production capacity.

The location of the existing facilities is spread across Europe. The majority of the new facilities will be located in France and in French Guiana, which will be built within existing sites already used for the production and operation of the current launcher, Ariane 5. The main environmental and safety risks relate to the manufacturing processes and emerge from the handling and storage of launcher components such as boosters containing high quantities of explosives.

<sup>1</sup> Only projects that meet the scope of the Pilot Exercise, as defined in the EIB draft Carbon Footprint Methodologies, are included, provided estimated emissions exceed the methodology thresholds: above 100 000 tons CO<sub>2</sub>e/year absolute (gross) or 20,000 tons CO<sub>2</sub>e/year relative (net) – both increases and savings.

Luxembourg, 31 January 2019

Three components of this investment programme have been identified to require a full environmental impact assessment under national legislation and EIA Reports, including risk assessment. All this has been meanwhile prepared.

#### Les Mureaux (France)

The environmental impact assessment for the production and integration facility of the launcher's main stage was completed and the operational permit is in place. The public consultation took place in June 2016. The main projects impacts concern the visual aspects as well as traffic issues and relevant mitigation measures were mandated. The risk assessment contains a description of the expected significant adverse effects of the project, adequate measures to prevent and mitigate those effects on environment as well as the details of the preparedness for and proposed responses to emergencies.

#### Kourou (French Guiana):

The two new facilities in Kourou relate to the integration and storage of solid propellant boosters within an existing site, classified as upper-tier establishment under Seveso Directive 2012/18/EU. The completed environmental studies including a detailed risk assessment have been submitted to the competent authority after a public consultation and the authorization has been obtained on the 3rd of June 2019.

The EIA report identified a significant impact on biodiversity and some relevant compensation, mitigation and monitoring measures are included within the requirements of the authorization in order to limit the project impact during the construction phase and the operational risks.

The authorization stipulates the agreed measures:

- Compensation measures: acquisition of 130 ha of Savane de Sarcelle
- Mitigation measures: technical measures during the construction and transfer of specific species located on the area of the construction
- Monitoring measures: specific studies and monitoring of endangered species.

Apart from these measures, the promoter will provide financial support for the preservation of the biodiversity in the Savane de Pères

The compensation measures will be implemented, managed and monitored together with Conservatoire du Littoral (Coastal protection agency).

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

Environmental management system / health and safety: The promoter, ArianeGroup, has developed a new environmental management system, which is specifically tailored to the needs of the space sector. This management system comprises also aspects related to health and safety. This new management system has been launched in 2018 and it is now implemented on all sites. In 2018, an external auditor has assessed the system and it confirmed that after full implementation, it would be equivalent to an ISO 14001:2015 system. For this purpose, ArianeGroup has a specific organisation in place, which is spread across the entire company, with a dedicated health, safety and environmental team/department on each site.

Luxembourg, 31 January 2019

## Conclusions and Recommendations

The Ariane 6 development programme components and particularly the new facilities related to the manufacturing and operation of the launcher fall under the EU Directive 2014/52/EU amending the EIA Directive 2011/92/EU, for which a full EIA has been prepared.

The studies prepared include relevant environmental and risk assessments as required. The assessment by the competent authorities for all project components is completed and the authorisation in place.

The promoter has also developed a tailored environmental, health and safety system in order to operate the sites through specific and certified processes.

By implementing the mitigation and compensatory measures approved by the competent authority, the project is considered acceptable for EIB financing.

Conditions for disbursement:

- The promoter shall provide for the project facilities requiring an EIA all environmental approvals/decisions and if required, alternatively the screening out decisions.
- The promoter shall provide for all project facilities requiring an EIA the full set of environmental documentation for publication by the EIB.

Undertakings:

- The promoter shall provide for project facilities located in Kourou the outcome of the annual monitoring of protected flora and/or endemic species, for a period of 3 years after completion of construction works.