

ArianeGroup and CNES launch *ArianeWorks* acceleration platform

Paris, 21 February 2019

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- **ArianeGroup and CNES signed a memorandum of understanding to create an acceleration platform dedicated to the preparation of future launchers**
 - **To be called ArianeWorks, the new platform will boost innovation for future launcher development by bringing teams together under one roof and connecting them to Europe's space ecosystem**
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Thursday 21 February in Paris, in the presence of Frédérique Vidal, the French Minister for Higher Education, Research and Innovation, CNES President Jean-Yves Le Gall and ArianeGroup CEO André-Hubert Roussel signed a memorandum of understanding (MoU) to create an acceleration platform dedicated to the preparation of future launchers. To be called ArianeWorks, the new platform will boost innovation for future launcher development by bringing teams together under one roof and connecting them to Europe's space ecosystem.

Both longstanding stakeholders in the Ariane series, CNES and ArianeGroup are currently developing Ariane 6 for ESA. Since 2015, they have been working together to conceive the Prometheus rocket engine, prior to ESA's successful tabling of the related programme at its 2016 Ministerial Conference. Prometheus is currently under development, with the first prototype due to be tested in two years. CNES and ArianeGroup are also working together on the development of Callisto—a reusable first stage demonstrator—alongside DLR and JAXA.

With a view to boosting future launcher preparation, CNES and ArianeGroup have opted for a step change by creating a new kind of partnership where teams work together in a highly flexible environment, open to new players and internationally, with the key goal of accelerating the Ariane Next roadmap and in particular its first phase, the Themis demonstrator. ArianeWorks is being created in the lead up to the 2019 Ministerial Conference and its results will be made available to ESA.

In this era of NewSpace and in the context of fierce competition, ArianeWorks will accelerate innovation at grassroots level, in favour of mid-tier firms and start-ups, with commitment to reducing costs a major priority. The goal is to work together closely through this first phase up to April 2020 by inspiring and involving new players, not least pioneering start-ups, laboratories, SMEs and manufacturers. ArianeWorks will also act as a pathfinder, able to accurately assess the technological context in order to make the right choices within the shortest timescales. This calls for an approach resolutely geared towards open innovation, to encourage the exchange of expertise and spawn a ground-breaking new ecosystem.

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CNES President Jean-Yves Le Gall said: “Ariane is one of Europe’s greatest technological, industrial and commercial success stories, and we must pursue that success in the face of strong international competition. The role of ArianeWorks is to prepare, at French level, the proposals for future launchers to be presented at Europe’s next Ministerial Conference. These include, in particular, the roadmap for Ariane Next and for its first phase, the Themis demonstrator.”

André-Hubert Roussel added: “ArianeWorks aims to accelerate the innovation process, in order to prepare for future developments of Ariane by involving new players and attracting new types of funding. It also gives us an opportunity to support the emergence of deep tech through access to dedicated funding, while accepting the risks involved in terms of investment and technological development.”

In conclusion, Mr. Le Gall and Mr. Roussel agreed that: “ArianeWorks is about acceleration, inspiration and guidance, in its drive to promote disruptive innovation through the emergence of new players and its emphasis on experimentation and agility.”

About ArianeGroup

ArianeGroup develops and supplies innovative and competitive solutions for civil and military space launchers, with expertise in all aspects of state-of-the-art propulsion technologies. ArianeGroup is lead contractor for Europe’s Ariane 5 and Ariane 6 launcher families, responsible for both design and the entire production chain, up to and including marketing by its Arianespace subsidiary, as well as for the missiles of the French oceanic deterrent force. ArianeGroup and its subsidiaries enjoy a global reputation as specialists in the field of equipment and propulsion for space applications, while their expertise also benefits other industrial sectors. The group is a joint venture equally owned by Airbus and Safran, and employs approximately 9,000 highly qualified staff in France and Germany. Its 2017 revenues amounted to 3.4 billion euros.

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About CNES

CNES (Centre National d’Etudes Spatiales) is the government agency responsible for shaping France’s space policy and implementing it in Europe. Its task is to conceive and orbit satellites, invent the space systems of the future and nurture new services to aid us in our daily lives. Founded in 1961, it is the initiator of major space projects, launch vehicles and satellites, and the partner of choice for industry fuelling innovation. CNES comprises some 2,500 men and women with a passion for space working to open up new and infinite fields of applications in five core areas of focus: Ariane, science, Earth observation, telecommunications and defence. It is a key player driving technology innovation, economic development and industrial policy for the nation. It also fosters

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scientific collaborations and has forged numerous international partnerships. France, represented by CNES, is the leading contributor to the European Space Agency (ESA).

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