Ariane 6 Launchpad visit

At Europe spaceport in French Guiana, everything is being prepared to accommodate Europe’s newest launcher, Ariane 6. The new Launchpad is under construction and the mobile gantry will soon rise. The new assembly building dimensions can now be fully seen as the outer shell is almost complete. Ariane 6 will guarantee Europe’s independent access to space and should consolidate Arianespace’s leading role on the satellites launches market.

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| Image | Text |
| **10:00:00:00** | **TITLE: ARIANE 6 Launch Site Visit** |
| 10:00:10:00EXT. GV’s Europe Spaceport entrance, 2 shots – Kourou, French-Guiana – Nov 2017 – EURONEWSEXT. Aerial view of ELA4 – Nov 2017 – ESA/Arianespace/CNESEXT. GV’s of construction of ELA 4, 5 shots - Kourou, French-Guiana – Nov 2017 – EURONEWSEXT. Aerial view of ELA4 to BAL – Nov 2017 – ESA/Arianespace/CNESEXT. Aerial view of BAL – Nov 2017 – ESA/Arianespace/CNESEXT. Aerial view of ELA – Nov 2017 – ESA/Arianespace/CNES | Europe’s spaceport in Kourou, French-Guiana. From early morning until 10 in the evening workers and engineers are shaping the future of European spaceflight by constructing the Ariane 6 launch facilities. With ESA’s newest launcher’s first flight planned for 2020 this massive project has to stay on schedule and so far it does. Today one can already see the lay-out of the future Ariane 6 site, with two zones: a brand new assembly hall and launch pad. |
| 10:00:42:00ITW. Didier Coulon, Ariane 6 Launch Base Development Manager, ESA – Nov 2017 – ESA/EURONEWS | **ITW DIDIER COULON, Ariane 6 Launch Base Development Manager, ESA***As you can see in French-Guiana with our different launchers, each launcher has its own launch pad. It is not same as in certain places in the world, in the states you have one launch pad for several launchers. But that is not our philosophy. Here the main goal of having this new launch pad is to reach the final goal to diminish the cost, the recurring costs of the exploitation of the launch system.* |
| 10:01:15:00EXT. Aerial views of BAL, 2 shots – Nov 2017 – ESA/Arianespace/CNESSTILL. 3D Render of Finished BAL with Ariane 6 stage assembly illustration animation – Jan 2018 - ESAEXT. Aerial view of BAL – Nov 2017 – ESA/Arianespace/CNESEXT. Aerial view of ELA 4 – Nov 2017 – ESA/Arianespace/CNESANIMATION. Ariane 6 at ELA 4, 2 shots – Unknown date – Ariane GroupANIMATION. Ariane 6 at ELA 4, gantry moving– Unknown date – ESAANIMATION. Ariane 6 at ELA 4 Payload and GV, 2 shots – Unknown date – Ariane GroupEXT. Aerial view of ELA 4 – Nov 2017 – ESA/Arianespace/CNESANIMATION. Ariane 6 launch with flame deflector illustration – Mai 2017 – ESAEXT. Aerial view of BAL and ELA 4 – Nov 2017 – ESA/Arianespace/CNES | The launch preparation of an Ariane 6 rocket starts in the long assembly building called BAL for “bâtiment d’ assemblage lanceur”. Here the two stages of the Ariane 6 launcher are put together.The long and relatively low shape of this hall is indicative of a new approach towards launcher assembly: in the past all Ariane were assembled vertically, this time it will be done horizontally. After the assembly process the launcher will be moved to the launch pad. Here the Ariane 6 will be placed upright and two or four boosters will be attached to the launcher. A 90 meters high mobile gantry rolls over the pad and protect the launcher while keeping it accessible up to a couple of hours before lift-off. Inside the tower the payloads, already inside the fairing, are put on top of the launcher.Weighing 8500 tons this gantry will be the heaviest moving building in Europe.The launch pad has a massive concrete hole with 2 long tunnels at each side, so when the Ariane 6 engines are fired the flames will escape through these flame deflectors.This new process and design are meant to significantly reduce the launcher preparation time. |
| 10:02:29:00ITW. Didier Coulon, Ariane 6 Launch Base Development Manager, ESA – Nov 2017 – ESA/EURONEWS | **ITW DIDIER COULON, Airane 6 Launch Base Development Manager, ESA***The duration on Ariane 5 actually last thirty days now with the organisation of Ariane 6. We have 3 days integration of the launcher in the BAL, the assembly building which is behind me. Which is followed with six days of operation on the launch zone. That makes together only nine days.* |
| 10:02:49:00ANIMATION. Ariane 6 in flight, 3 shots – Mai 2017 – ESAANIMATION. Ariane 6 in orbit, stage separation, payload delivery and re-ignition, 4 shots – Mai 2017 – ESAANIMATED STILL. Ariane 6.2 and Ariane 6.4 deconstruction – 2016 - ESAANIMATION. Vega-C on Launchpad – Mai 2017 – ESAEXT. Aerial view Spaceport entrance – Kourou, French-Guiana – Nov 2017 – ESA/Arianespace/CNESEXT. GV Europe Spaceport entrance CNES LOGO – Kourou, French-Guiana – Nov 2017 – EURONEWSANIMATION. Ariane 6 launch close-up – Unknown date – Ariane Group | The production and launch process of Ariane 6 has been largely aimed at reducing recurring costs in order to deliver a competitive launcher for the global commercial satellite launch market.At the same time Ariane 6 will be a versatile rocket. Once in orbit Ariane 6’s upper stage will have the capability to be re-ignited so as to place multiple satellites in different orbits. The launcher also comes in two different configurations. Two boosters for single payload launches or four boosters for multiple or heavier payloads.Together with Vega C, planned for launch in 2019, Europe spaceport is ready to consolidate a leading position in the launcher market. While also always providing Europe with its own independent access to space. |
| **10:03:38:15** | **B-ROLL** |
| ITW. Didier Coulon, Ariane 6 Launch Base Development Manager, ESA – Nov 2017 – ESA/EURONEWS | **ITW DIDIER COULON, Ariane 6 Launch Base Development Manager, ESA - ENGLISH*** **Different launch pads and reducing recurring costs**
* **Preparation time of Ariane 6 launcher in Kourou**
* **Launch possibilities, diminishing costs and organization in 2 zones**
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| 10:05:53:13ITW. Didier Coulon, Ariane 6 Launch Base Development Manager, ESA – Nov 2017 – ESA/EURONEWS | **ITW DIDIER COULON, Ariane 6 Launch Base Development Manager, ESA - FRENCH*** **Ariane 6 launcher preparation in Kourou and launch procedure**
* **Preparation time of Ariane 6 launcher in Kourou vs Ariane 5**
* **Launch possibilities, diminishing costs and organization in 2 zones**
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| 10:08:30:17ITW. Didier Faivre, Director of the Guiana Space Centre, CNES – Nov 2017 – EURONEWS | **ITW Didier Faivre, Director of the Guiana Space Centre, CNES** **– FRENCH*** **Launchers of Europe now and in the future**
* **The competition of SPACEX and Ariane 6 as a competitive launcher**
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| 10:10:24:22EXT. GV’s Europe Spaceport ELA4 construction – Kourou, French-Guiana – Nov 2017 – EURONEWS | **GV’s Construction of ELA 4 – Images EURONEWS** |
| 10:12:30:14ANIMATION. Ariane 6 – Ariane Group | **Ariane 6 animations -ARIANEGROUP 2017** |
| **10:14:09:06** | **END** |