**An independent access to space**

**Over 50 years ago humanity set foot on the moon for the very first time and space travel captured the minds of generations. Today space transportation is more competitive than ever with both government agencies and private industry working tirelessly to build better and more affordable rockets and space transportation vehicles. Europe will soon bring two new rockets and a reusable vehicle to market ensuring Europe’s independent access to space**

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| 10:00:00 | ESA leader |
| 10:00:10 | Title: **An independent access to space** |
| * Ext. ELA 4 views – Europe Spaceport - Kourou, French Guiana – CNES/ESA – September 2019 (5 shots) * INT. development VR area – unknown location ArianeGroup – unknown date – Euronews (3 shots) * EXT. Galileo launch Ariane 5 – Europe spaceport – Kourou French Guiana - ESA * INT Airport terminal – videoblocks * EXT. Spacestation animation -Videoblock * INT. Working on VINCI Engine – unknown location – unknown date – ESA (3 shots) | **At Europe’s Spaceport in French Guiana, the impressive Ariane 6 launchpad is almost complete. In about a year the maiden flight of ESA’s new rocket will launch from this brand new site. Thanks to technological innovations and renewed interest from both governments and industry a new era for spaceflight is dawning. With space transportation becoming ever safer and affordable it might even become like air travel one day. In this rapidly changing market Europe continues to further enhance its own launch vehicles.** |
| 10:00:46:21   * Animation Ariane 6 – 2018- Ariane Group (6 shots) * Animation Ariane 6 – assembly – august 2019 – ESA (5shots) * Animations Ariane 6 in orbit - august 2019 – ESA (5shots) | **With Ariane 6 Europe will soon have the most versatile and powerful Ariane launcher ever developed. Its modular design allows Ariane 6 to be perfectly adapted to the task at hand. It can be used with 2 of even 4 solid rocket boosters to provide extra thrust for heavier payloads or higher orbits. With Ariane 6 the assembly process has been completely overhauled, choosing for a horizontal integration of the first two stages, almost like a car factory assembly line. The upper stage and fairing are added in the massive mobile gantry which protects the rocket from the elements up to a few hours before launch. Ariane 6’s upper stage Vinci-engine can also be re-ignited multiple times allowing Ariane 6 to launch different satellites into different orbits, and to de-orbit the upper stage to mitigate space debris.** |
| 10:01:45:02   * Animation Ariane 6 launch – unknown date – ESA * Animation Vega-c launch * EXT. Vega Mobile gantry timelapse- Europe spaceport, Kourou, French Guiana – unknown date – ESA * EXT. Vega launcher on the launchpad – Europe spaceport, Kourou, French Guiana – unknown date -ESA * EXT. BEAP building P120C firing test - Europe spaceport, Kourou, French Guiana – ESA/CNES (2 shots) * Still P120C for Ariane and Vega illustration – ESA * Animation Vega- in orbit – ESA * Still. Vega to Vega evo – ESA * Animation Ariane 6 – 2018- Ariane Group * INT. Cleanroom SMSS dispenser – unknown date and location -ESA * Still SMSS dispenser artists impression - ESA | **If Ariane 6 is Europe’s heavy weight champion rocket, the new Vega-C is the medium-weight champion. It will make its first flight in 2020 further diversifying Europe’s launch capability portfolio. Vega-C is an improvement of the current Vega. Its first stage uses the new and more powerful P120C solid rocket motor, which is also used for Ariane 6’s solid rocket boosters. The launcher can also accommodate wider and heavier loads under its new fairing. Today ESA is already working on the next Vega evolution: Vega Evo.**  **In the future ESA’s rockets will even be able to launch a multitude of small satellites at the same time. To achieve this, ESA leads the development of dispenser structures to host multiple small satellites under the fairings of Ariane and Vega, paving the way for innovative, reliable, and high capacity**  **rideshare launch services.** |
| 10:02:58:11   * Animation space rider – 2019 – ESA (2 shots) * INT. Cleanroom ESTEC IXV – Noordwijk, The Netherlands – 2014 – ESA * EXT. IXV recovery – 2015 – ESA * Animation Space Rider in orbit – 2019 – ESA (5 shots) | **Another exciting and innovative ESA project for space transportation is Space Rider. It builds on the experience of the Intermediate Experimental Vehicle, IXV, which made a successful flight in 2015. Space Rider should provide Europe with its first reusable space transportation system. This unmanned orbital vehicle will use Vega-C to get in to orbit and will be able to return safely to earth after its mission. It can be used for experiments in microgravity, in-orbit validation of new technologies, deployment of small satellites and more** |
| 10:03:41:14   * INT. Avio factory – unknown date – Euronews (6shots) * Arianegroup factory – engine - ESA * Animations Ariane 6 launch – august 2019 – ESA (5 shots) | **With these projects ESA guarantees Europe’s independent access to space and ensures that European space industry remains competitive on a very demanding market. ESA also sets high standards for European companies, making them reliable partners for institutional and commercial customers.**  **Rockets are the backbone for almost all spacebased endeavours. By investing in the development of space transportation services, ESA helps to standardize space travel to a point where is will become a feasible and affordable mode of transportation.** |
|  | **BROLL** |
| 10:04:31:21 | Ariane 6 animation full length  November 2019  ESA |
| 10:16:15:22 | Ariane 6 explainer video  English  November 2019  ESA |
| 10:19:20:13 | Ariane 6 explainer video  French  November 2019  ESA |
| 10:22:25:24 | Ariane 6 explainer video  International version  November 2019  ESA |
| 10:25:31:10 | Space Rider  Animation  2019  ESA |
| 10:31:08:04 | Ariane 6 Launch facilities  Kourou, French Guiana  September 2019  CNES/ESA |
| 10:33:26:08 | END |