**Ariane 40 years**

**The 250th flight of an Ariane launcher was another success. The Ariane launcher programme has effectively put Europe on the map in the worldwide commercial satellites launcher market. Next 24 December will mark the 40th anniversary of the first Ariane Launch from Europe’ Spaceport in French Guiana and the situation has evolved along the years. An opportunity to look at what has been achieved and what can be expected for the future of Space Transportation in Europe.**

**This interview shows archives from these passed years and includes an interview with Daniel Neuenschwander, Director of Space Transportation at ESA, in English, French and German.**

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| 10:00:00 | ESA leader |
| 10:00:10 | Title: **Ariane: 40 years bringing Europe to space** |
| * EXT. Ariane 1 launch, CSG, Kourou – French Guiana – 24/12/1979 – ESA/CNES (2shots) * SPLITSCREEN Ariane 1 on launcpad and launch, CSG, Kourou – French Guiana – 24/12/1979 – ESA/CNES (6 shot edit) * STILL. Artists view Symphony satellite – unknown date - ESA | **December 24, 1979 at Europe Spaceport in Kourou, French Guiana Ariane takes off for the first time. This is the beginning of 40 years of launches securing an  independent access to space for Europe. This allows Europe also to develop its own programmes in space.**  **This sovereignty in space became a priority for Europe with the launch of a French-German satellite Symphony by NASA.** |
| 10:00:43:12   * EXT. CSG, Kourou – French Guiana – 2009 - ESA | **Hans Kappler** **– Former Industry Director, ESA**  I know the symphony story very well, because we called it the symphony shock. What happened that France and Germany. It was a French-German co-operation called the symphony and due to the failure of ELDO. France and Germnay had to decide to use an American Launcher and the shock came when the satellite was in the united states. NASA said well we can launch the satellite but you cannot use it commercially and this I believe created more conviction that Europe has to be independent. So the symphony shock was a positive shock creating more motivation. |
| 10:01:23:21   * EXT. Ariane 1.2 failed launch, CSG, Kourou – French Guiana – 1980 – ESA/CNES * SPLITSCREEN. GV’s Ariane development and preparations – unknown dates – ESA/CNES (8 shot edit) * EXT. Araine 3 launch – unknown date ESA/CNES * EXT. Ariane 4 on launchpad and launch – unknown date -ESA/CNES (5 shots) * EXT. Ariane 4 booster separation – unknown date – ESA/CNES * EXT. Ariane 5 launch – unknown date – ESA/CNES (2 shots) | **And so the development of Ariane began. Eventhough the second launch was a failure, ESA and CNES continued to further develop the Ariane launchers, learning from the mistakes of the past and tuning the Ariane programme into a success story for the European industry. Ariane 1 was followed by Ariane 2 and Ariane 3, more powerful and slightly different versions of Ariane 1.  Ariane 3 was fitted with strap-on boosters.**  **With Ariane 4 ESA and Arianespace , the company created to commercialise Ariane, had an extremely versatile launcher with six configurations. It was a workhorse for the space industry and was even able to capture 50% of the commercial launcher market. Between 1988 and 2003 it made no less than 113 successful flights.  Then Ariane 5 became Europe’s heavy-lift champion in use since 1996.** |
| 10:02:30:17   * INT. CSG, Kourou – French Guiana – December 2019 - ESA | **Daniel Neuenschwander, Director of space transportation, ESA**  Ariane 5 is an absolutely great story. We launched all the ATV’s with Ariane 5. We flew several missions for Galileo, we launched great scientific missions like Bepi-Colombo and we recently launched the 250th launch of Ariane. |
| 10:02:46:23   * EXT. Ariane 5 launch – unknown date – ESA/CNES (5 shots) * EXT. Ariane 5 and ATV separation in space * EXT. Vega gantry timelapse, CSG, Kourou – French Guiana – unkonwn date – ESA * EXT. Vega launch, CSG, Kourou – French Guiana – unknown date – ESA * ANIMATION. Vega-C launch – unknown date -ESA * ANIMATION. Ariane 6 on launchpad – 2019 – ESA * ANIMATION. Ariane 6 on launchpad adding boosters – 2018 -Arianespace * ANIMATION. Ariane 6 assembly proces – 2019 -ESA * ANIMATION. Ariane 6 launch – 2019 – ESA | **With the 106 successful launches of Ariane 5 the Ariane programme has been one of the most reliable launcher programmes in history. Proving Europe remains at the forefront with reliable r technology.**  **For Europe, Innovation and creativity have been the keys to conquer its place in the worldwide launcher market. While the Ariane launchers where adapted to transport ever larger payloads such as the ATV’s, Europe did not forget about the lighter and smaller payloads. It updated its launcher portfolio with Vega, a cheaper lightweight launch vehicle to also capture this segment of the market. Soon Vega will be joined by Vega-C, a larger and more powerful version of the rocket with its first launch planned in 2020.**  **Then the next step will be Ariane 6 that will replace Ariane 5 and consolidate Europe’s position in the satellite launches market. Ariane 6 will come in different configurations, with two or four boosters. It will also be cost efficient through a clever design with horizontal assembly and it will be tailored to the needs of the customer. Its maiden flight is scheduled for the end of 2020.** |
| 10:04:08:07   * INT. CSG, Kourou – French Guiana – December 2019 – ESA * ANIMATION. Ariane 6 on launchpad – 2018 -Arianespace * INT. CSG, Kourou – French Guiana – December 2019 – ESA | **Daniel Neuenschwander, Director of space transportation, ESA**  It’s a great success story for Europe over all. Its paving the way for the fourth dimension of space transportation but even more than Space transportation, transportation overall for society. And I am really happy to have today all the results in hand to make Europe today even stronger again. // A united Europe in space without any borders. |
| 10:04:32:21   * INT. ESA ministerial conference, Seville – Spain – December 2019 – ESA (3shots) * ANIMATION. Ariane 6 in mobile gantry * ANIMATION. Space Rider in orbit – 2019 – ESA * ANIMATION. Ariane 6 on launchpad adding boosters – 2018 -Arianespace | **At the recent ESA ministerial conference in Seville, Spain, the ESA member states have once more stressed the importance of space transportation with the Ariane programme and green-lighted the development of Space Rider. This reusable autonomous re-entry vehicle will return to earth after each mission. ESA will therefore have all the tools for a secured access to space for multiple missions on any orbit.** |
| **10:05:09:20** | **B-roll** |
| * INT. CSG, Kourou – French Guiana – December 2019 – ESA | **Daniel Neuenschwander, Director of space transportation, ESA – English**   * Success of Ariane 5 and the future * The 4th dimension of Space transportation * United Europe in space |
| 10:06:28:20   * INT. CSG, Kourou – French Guiana – December 2019 – ESA | **Daniel Neuenschwander, Director of space transportation, ESA - French**   * Success of Ariane 5 and the future |
| 10:07:16:23   * INT. CSG, Kourou – French Guiana – December 2019 – ESA | **Daniel Neuenschwander, Director of space transportation, ESA – German**   * Success of Ariane 5 and the future |
| 10:08:06:03   * EXT. Ariane 1 launch, CSG, Kourou – French Guiana – 24/12/1979 – ESA/CNES | **Ariane 1 launch**  **Technical camera’s and GV’s**  **CSG Kourou**  **ESA/CNES** |
| 10:13:34:11   * INT. Ariane 1 launch, CSG, Kourou – French Guiana – 24/12/1979 – ESA/CNES | **Ariane 1 launch**  **Interior control room**  **CSG Kourou**  **ESA/CNES** |
| 10:14:38:21   * EXT. Ariane 4 on launchpad and launch – unknown date -ESA/CNES | **Ariane 4 launch**  **exterior GV’s and inside gantry**  **CSG Kourou**  **ESA/CNES** |
| 10:17:44:06   * EXT. Ariane 5 launch – 30/10/1997 – ESA/CNES | **Ariane 502 launch**  **technical camera’s and exterior GV’s**  **CSG Kourou**  **ESA/CNES** |
| **10:22:06:03** | **END** |