Galileosat 13-14 overview

On the 24th of may the European space agency ESA will launch Galileo Sats 13 and 14 by Soyuz rocket from Europe’s Spaceport in French-Guiana. This launch is another important step towards the completion of the Galileo satellite navigation constellation and another leap closer to Galileo becoming operational. The Galileo satellite navigation programme is collaboration of ESA and the European Commission and aims to build, deploy and operate the first publicly owned satellite navigation system in the world. At the request of the European commission ESA is now speeding up the deployment of the constellation and increasing the robustness of the constellation for the delivery of the initial services.

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| 10:00:00 | ESA leader |
| 10:00:10 | Title: Galileosat 13-14 overview |
| * INT. Galileo Sat Tranfer to SVA - Galilo Facilities, Arianespace, Kourou, French Giuana – 06/04/2016 - ESA * EXT. Galileo Ground Segment -Fucino Italy – 13/12/2013 | In a cleanroom at the European spaceport in Kourou French-Guiana Galileo sat 13 and 14 are undergoing their final launch preparations. In these facilities dedicated to Galileo ESA has prepared no less than 6 satellites during the last year and now two more satellites will join the Galileo constellation. With the Galileo space component growing steadily ESA has also worked on the Galileo Ground segment. |
| 10:00:37   * INT. ESA Offices – Brussels, Belgium – 29/04/2016 - ESA | **ITW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA**  On the ground we have most of the installations in place around the world. We are talking about some 40 ground installations, stations spread out all over the globe. All of that is operational. It is not yet having all of the full functionality which is needed so we are currently building that out. For example it needs to have needs to have the capability of actually working with up to 30 satellites in the future. So this is al being readied at the moment. |
| 10:01:06   * EXT. Galileo Control Center – Oberpfaffenhofen, Germany – 18/12/2013 - ESA * EXT. Galileo Control Center -Fucino Italy – 13/12/2013 * Animations Galileo Ground Segment – 16/03/2016 – ESA * INT. Galileo Control Center – Oberpfaffenhofen, Germany – 18/12/2013 - ESA | The ground segment is a key component for Galileo with the two control centres in Oberpfaffenhofen, Germany and Fucino, Italy processing the navigation signals and maintaining the constellation. They follow the satellites and give them commands through several telemetry and tracking stations. Another part of the ground segment are the Galileo sensor stations. They receive the timing and position signals produced by the satellites and send these back to the control centres. There the satellite data is processed and the navigation is sent back to the satellite via the five up link stations located around the globe.  It is this complex network that allows Galileo to provide navigation data with pinpoint accuracy to the users.  Today ESA is working on the on-going deployment of satellites to complete the constellation by 2020. But with the ground segment ready and part of the constellation already deployed, Galileo services will soon become available. |
| 10:02:10   * INT. ESA Offices – Brussels, Belgium – 29/04/2016 - ESA | **ITW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA**  The initial services will be announced toward the end of the year. We need to have a minimum set of the constellation and the ground segment in place in order to do that. This is almost in place at the moment. We are currently verifying if this is all working fine. What it means is that as of that moment we can start using the Galileo services. |
| 10:02:33   * Mass market receiver testing at the ESTEC, Noordwijk, The Netherlands, July 2015 * Stock footage People using smart phones, traffic – ESA story PREPARING GALILEO RECEIVERS – 22/09/2015 – ESA * High grade receiver testing at the Joint Research Centre, Ispra, Italy, August 2015 * Mass market receiver testing at the ESTEC, Noordwijk, The Netherlands, July 2015 * Animation of Galileo Constellation – unknown date -ESA | This means for example that the combination of Galileo and GPS will be available which will increase the accuracy of satellite navigation data on smartphones or in vehicles. It is an exciting prospect that the services of the first publicly owned satellite navigation system are made available for the users for the first time. Another milestone for ESA and the European Commission. ESA will also continue to test other services which could become operational once the Galileo constellation is fully deployed. |
|  | **B-ROLL** |
| 10:03:07 | **INTERVIEW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA –ENGLISH**   * INT. ESA Offices – Brussels, Belgium – 29/04/2016 - ESA |
| 10:05:36 | **INTERVIEW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA –FRENCH**   * INT. ESA Offices – Brussels, Belgium – 29/04/2016 - ESA |
| 10:07:41 | **INTERVIEW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA –GERMAN**   * INT. ESA Offices – Brussels, Belgium – 29/04/2016 – ESA |
| 10:10:20 | **INTERVIEW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA –cut away**   * INT. ESA Offices – Brussels, Belgium – 29/04/2016 – ESA |
| 10:10:48 | **IMAGES: Transfer of Galileo Sat to SVA in Galileo Facilities KOUROU**   * INT. Galileo Sat Tranfer to SVA - Galilo Facilities, Arianespace, Kourou, French Giuana – 06/04/2016 - ESA |
| 10:12:13 | **IMAGES: Galileo Sat Fitcheck Galileo Facilities KOUROU**   * INT. Galileo Sat Fit Check - Galilo Facilities, Arianespace, Kourou, French Giuana – 08/04/2016 - ESA |
| 10:13:06 | **Animation: Galileo Ground Segment**   * Animations Galileo Ground Segment – 16/03/2016 – ESA |
| **10:14:16** | **END** |