Galileo System Status

On the 17th of may the European space agency ESA will launch Galileosat 15, 16, 17 and 18 with an Ariane 5 rocket from Europe’s Spaceport in French-Guiana. These will be the first Galileo satellites launched into orbit using an Ariane 5. Aside from using an Ariane launcher it is also the first time that ESA launches 4 Galileo satellites at the same time, increasing the difficulty level of the launch. It is however another crucial step towards the completion of the Galileo satellite navigation constellation. With earlier launches making initial services possible, users of satellite navigation might start to notice the subtle effects of Galileo

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| 10:00:00 | ESA leader |
| 10:00:10 | Title: Galileo System Status |
| * INT: images of Galileo facilities Kourou, Preparations of the satellites – KOUROU FRENCH-GUIANA – sept/oct 2016 – ESA * INT: images of Ariane Gantry Kourou, Assembly of Ariane 5 launcher – KOUROU FRENCH-GUIANA – sept/oct 2016 – ESA | Kourou, French-Guiana. At the European spaceport, 4 new Galileo satellites are being prepared in their dedicated facilities. Soon, these satellites will become part of the ever growing Galileo constellation. Until now Galileo satellites have all been launched two by two with a Soyuz rocket. This time the 4 satellites will be on top of an Ariane 5. |
| 10:00:34   * INT: ESA Offices Brussels, Interview – BRUSSELS BELGIUM – 27/11/2016 – ESA | **ITW Paul Verhoef, Director of Navigation Programmes, ESA**  So the uniqueness of this launch is that for the first time we start with an Ariane 5.// The Ariane 5 had to be specifically modified. It is a specific version that is only going to be used for Galileo. On top of it we have a so called dispenser. Which is a device from which the four satellites are hanging during the launch. |
| 10:00:55   * ANIMATIONS: Dispenser Deployment in Space, Galileo separation – nov 2016 – ESA | Once in space this dispenser will release the 4 satellites into their orbits. It‘s the first time ESA is using this particular dispenser. This is a new challenge and it is crucial that the satellites don't collide with each other after their release.  With these satellites the constellation will be far advanced with 18 of the 24 satellites needed for a worldwide coverage in orbit. However with the ground segment in place and the satellites already in orbit, the European Commission can declare the so-called initial services. |
| 10:01:28   * INT: ESA Offices Brussels, Interview – BRUSSELS BELGIUM – 27/11/2016 – ESA | **ITW Paul Verhoef, Director of Navigation Programmes, ESA**  At the moment the general public is using GPS in their receivers and GPS had a number of satellites which still is a problem in cities. So with the addition of Galileo satellites. The availability of positioning signals in cities will increase significantly. And this is what users will start noticing. |
| 10:01:48   * EXT: European Commission Berlaymont building– BRUSSELS BELGIUM – aug 2015 – ESA * STILL: HORIZON 2020 STILL – European Commission * INT: images of Galileo facilities Kourou, Preparations of the satellites – KOUROU FRENCH-GUIANA – sept/oct 2016 – ESA | Even with Galileo truly becoming a reality the work is far from done. The European Space Agency and the European Commission want to keep Galileo and EGNOS at the forefront of innovation and technology. The European Commission is thus studying potential evolutions of the systems within the Horizon 2020 Programme research activities, H2020, while ESA will ask its Member States to support a new Navigation Innovation and Support Programme called NAVISP. |
| 10:02:19   * INT: ESA Offices Brussels, Interview – BRUSSELS BELGIUM – 27/11/2016 – ESA | **ITW Paul Verhoef, Director of Navigation Programmes, ESA**  So the future is particularly about how do we integrate satellite navigation from space with terrestrial navigation and sensors on the one hand and how do we integrate it for example with communication services or on a more technical side with earth observation. These are challenges we see ahead of us and we have started to work on that. |
| 10:02:40   * INT: ESA Ministerial 2014 Luxemburg – LUXEMBURG – dec 2014 - ESA * Stock footage People using smart phones, traffic – ESA story PREPARING GALILEO RECEIVERS – 22/09/2015 – ESA * ANIMATIONS: Galileo in Space – nov 2016 – ESA | The new programme will be discussed at ESA’ S Ministerial conference next December in Switzerland. Today satellite navigation is at everybody’s fingertips and many Smartphone Applications rely heavily on Navigation signals for work, games, timing, etc... With Galileo, ESA is offering the public a robust and reliable service in Europe and beyond. |
| 10:03:04 | **B-roll** |
| 10:03:04 | **ITW Paul Verhoef, Director of Navigation Programmes, ESA – English**  **ESA Offices Brussels – 27/11/2016**   * Status of Galileo today * Future Steps * NAVISP explained |
| 10:04:57 | **ITW Paul Verhoef, Director of Navigation Programmes, ESA – Dutch**  **ESA Offices Brussels – 27/11/2016**   * Status of Galileo today * Future Steps * NAVISP explained |
| 10:07:08   * INT: images of Ariane Gantry Kourou, Assembly of Ariane 5 launcher – KOUROU FRENCH-GUIANA – sept/oct 2016 – ESA | **Ariane 5 Campaign – Images of Assembly and arrivals** |
| 10:10:01   * INT: images of Galileo facilities Kourou, Preparations of the satellites – KOUROU FRENCH-GUIANA – oct/nov 2016 – ESA | **Ariane 5 Campaign – Dispenser and satellites** |
| 10:12:20   * ANIMATIONS: Dispenser Deployment in Space, Galileo separation – nov 2016 – ESA | **ANIMATIONS** |
| **10:14:28** | **END** |