Galileo initial Services

On the 15th of December 2016 the European commission has declared Galileo initial early services. A mayor event for ESA and the Galileo programme. After more than 15 years of development and deployment the first publicly owned satellite navigation system is open to the general public. The initial services offered by Galileo are: the Open Service, the Public Regulated Service (PRS) and the Search and Rescue Service (SAR). For what concerns the Open Service, it will allow mass-market devices containing a Galileo-enabled chipset, such as smartphones and vehicle navigation devices, to use Galileo signals for positioning, navigation and timing.

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| 10:00:00 | ESA leader |
| 10:00:10 | Title: Galileo initial services |
| * EXT. Galileo control center –Oberpfaffenhofen, Germany – 18/12/13 – ESA * INT. Galileo control center: Control room - Oberpfaffenhofen, Germany – 18/12/13 – ESA * INT: images of Galileo facilities Kourou, Preparations of the satellites – KOUROU FRENCH-GUIANA – sept/oct 2016 – ESA * Animations Galileo Ground Segment – 16/03/2016 – ESA | With the declaration of initial services by the European commission on the 15th of December 2016 the Galileo programme has taken another giant leap forward. After a long development, validation, and a partly completed deployment phase, Galileo Initial Services can now be offered. With all of its ground stations fully operational and 18 satellites already in orbit ESA and the European commission are confident that the system will offer robust and accurate timing services. The initial services mark Galileo's transition from a system in deployment to an operational system. |
| 10:00:47   * Animations Galileo Ground Segment – 16/03/2016 – ESA * ITW PAUL VERHOEF: ESA offices – BRUSSELS, BELGIUM – 09/12/2016- ESA | **ITW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA**  The initial services is a stage in the programme whereby sufficient infrastructure is made available in space, satellites around the globe that circle around. Plus infrastructure on the ground which control the satellites, provides the navigation signals. Enough of that is ready so that the systems can be used. The use is still not fully hundred percent, hence the word initial services. |
| 10:01:15   * ANIMATION: Galileo sats Space fly by– unknown date – ESA * ANIMATION: Galileo consellation. Galileo Araine launch – nov 2016 – ESA * EXT: Ariane 5 launchpad, Galileo sats launched by ariane 5 – KOUROU FRENCH-GUIANA – 17/11/2016 * Outside telespazio grounds, Fucino, Italy – 13/12/13 – ESA * INT. Galileo control center: Control room - Oberpfaffenhofen, Germany – 18/12/13 – ESA * ANIMATIONS – Galileo initial services satellite coverage – dec 2016 - ESA * ANIMATION: Galileo deployment, Galileo Araine launch – nov 2016 – ESA | The Galileo initial services will start by using the 14 satellites which are already operational. The 4 satellites launched last November will become operational in a few months. In a satellite navigation system like Galileo the robustness, accuracy and availability of signals are greatly increased when more satellites are added to the constellation. Here you can see the initial service coverage. Today the Galileo satellites can only offer coverage at certain places at specific times but in the future it will offer a permanent global coverage. TO this effect ESA will continue to deploy more satellites until 2020 when the 24 satellite constellation is to be completed.  Over time more services will be declared and the practical applications of Galileo will become more numerous.  Today three different types of services are made available. |
| 10:02:11   * ANIMATION: Galileo deployment, Galileo Araine launch – nov 2016 – ESA * ITW PAUL VERHOEF: ESA offices – BRUSSELS, BELGIUM – 09/12/2016- ESA | **ITW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA**  One is the so-called open service. This is for the mass market. This is where people will use their smartphones. Their navigation devices in cars which will have Galileo enabled chips inside, will receive both Galileo and GPS in combination and it is the combinations of the two systems which will be used to determine the position of the user. |
| 10:02:37:24   * REGA ARCHIVES: RESCUE OPERATIONS, HELICOPTER– unknown date – REGA * ANIMATION: Galileo beacon – unknown date – ESA * Ext: Ambulance at airport – unknown date - VIDEOBLOCKS * Ext: Typhoon Haiyan Operation Damayan – Haity – unknown date – VIDEOBLOCKS * Stock footage People using smart phones, traffic – ESA story PREPARING GALILEO RECEIVERS – 22/09/2015 – ESA | In addition to the open services there is also a search and rescue service which offers a mayor improvement to Emergency beacon technology.  The last of the initial services is the Public Regulated Service. This service is aimed at government authorized users and can be used in case of national emergencies.  With these and more services to come ESA and the European commission are making an important contribution to our ever changing, technology driven society. |
| 10:03:07   * ITW PAUL VERHOEF: ESA offices – BRUSSELS, BELGIUM – 09/12/2016- ESA | **ITW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA**  So it is very satisfactory for us that this was an investment which has been very worthwhile and we are therefore excessively happy that we now start with initial services. |
| 10:03:22   * Stock footage People using smart phones, traffic – ESA story PREPARING GALILEO RECEIVERS – 22/09/2015 – ESA * ANIMATION: Galileo constellation – unknown date - ESA | Soon the impact of the first publicly owned navigation system will be felt in our daily lives. Galileo chipset will be build in or activated in our smartphones and sat nav's. Offering the public more accurate navigation signals, fueling dozens of applications and even saving lives. The declaration of initial services is only the beginning. |
| 10:03:46 | **B-roll** |
|  | **INTERVIEW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA –ENGLISH**  INT. ESA Offices – Brussels, Belgium – 09/12/2016 – ESA   * What is the inital service stage * What is the open service * The importance of sat nav |
| 10:06:48 | **INTERVIEW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA –DUTCH**  INT. ESA Offices – Brussels, Belgium – 09/12/2016 – ESA   * What is the inital service stage * Requirements to deliver early services |
| 10:08:36 | **INTERVIEW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA –FRENCH**  INT. ESA Offices – Brussels, Belgium – 09/12/2016 – ESA   * What is the inital service stage * What is the open service   Requirements to deliver early services |
| 10:10:45 | **INTERVIEW Paul Verhoef, Director of the Galileo programme and Navigation related activities, ESA –GERMAN**  INT. ESA Offices – Brussels, Belgium – 09/12/2016 – ESA   * What is the inital service stage * What is the open service * Requirements to deliver early services |
| 10:12:57 | **ANIMATION: Galileo initial services**  – dec 2016- ESA |
| **10:14:38** | **END** |