Sentinel-2B ready for orbit:

The preparations of a new Copernicus earth observation satellite SENTINEL-2B are finished and the satellite will soon be shipped for launch. The satellite will be carried into orbit by ESA own lightweight launcher VEGA departing from the european spaceport in Kourou.

Sentinel-2B is set to play a key role in the Copernicus programme, the world’s largest environmental monitoring programme which is headed by the European Commission (EC) in partnership with the European Space Agency (ESA).

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| Image | Text |
| 10:00:10   * INT: Images of Sentinel-2B in estec cleanroom - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA * ANIMATION: Copernicus sentinel satellites with earth - 2016 - ESA * INT: Office Scientist processing copernicus data - unknown location and date - ESA * ANIMATION: Evolution of artic ice - Copernicus Programme - unknown date- ESA * ANIMATION: flood warning - Copernicus Programme - unknown date- ESA * INT: Images of Sentinel-2B in estec cleanroom - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | Noordwijk, The Netherlands. In an ESTEC cleanroom the final preparations are being made for the transport of the Sentinel-2B satellite to the European spaceport in Kourou French-Guiana for launch. When in orbit Sentinel-2B will join its fellow sentinels and start to play a vital role in Europe's copernicus programme. Copernicus aims to provide timely, accurate and easily accessible information to Monitor our environment, better understand climate change and mitigate its effects while ensuring civil security. The launch of Sentinel-2B will be another step in the deployment of the most ambitious earth Observation programme ever developed. |
| 10:00:52  -INT: Interview at estec - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | **ITW Josef Aschbacher, Director of Earth observation programmes, ESA**  *Sentinel-2B is the fifth sentinel which is being launched, with 4 sentinels launched already since 2014. All together there will be 15 satellites plus 5 instruments flying on other satellites of with Eumetsat. So we have a constellation of 20 satellites in its first generation which we are building up. So sentinel-2B is number 5 in this very successful story.* |
| 10:01:14   * EXT: VEGA launch of sentinel-2A - KOUROU FRENCH-GUIANA- 2015 - ESA * ANIMATION: SENTINEL-2 Mission orbiting the earth scanning - unknown date - ESA * ANIMATION: Sentinel-2 flyby - unknown date - ESA * ANIMATION: demonstration of multispectral imager - unknown date - ESA * ANIMATION: sentinel-2nd data transmission - unknown date - ESA | Sentinel-2B’s identical sister satellite sentinel-2A was been launched in 2015 and soon both satellites will fly in the same polar orbit 180º apart. This will ensure that every spot on Earth can be covered in high resolution by the satellites at least once every 5 days.  Sentinel-2's carries a wide swath high resolution multispectral imager that provides images in 13 spectral channels. This optical data is then send back to earth where this valuable data is being distributed. |
| 10:01:48  -INT: Interview at estec - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | **ITW Bianca Hoersch, Sentinel-2 Mission Manager, ESA**  *Sentinel-2A is already supporting a lot of applications. They are ranging from for example agricultural applications where we can do yield forecast, to forest monitoring where we for example see deforestation. And besides that there is plenty of other applications like inland water where we can look at the quality of the water. We can support river monitoring. But also coastal areas where we look at changes in the coastal regions. On top of that we recently changed also to acquire the Antarctic regions, where we are now also looking at ice and glaciers.* |
| 10:02:23   * ANIMATION: Sentinel-2 land usage, Sentinel-2 Applications, flood mapping - unknown date - ESA * EXT: flooded houses and natural disaster - unknown origin - ESA * ANIMATION: Sentinel-2 rotating and fly-by - unknown date - ESA | Whether it is vegetation monitoring, deforestation, water quality or flood monitoring the impact of the Sentinel-2 mission on everyday life is growing, impacting the lives of millions of citizens. It can also be used for humanitarian relief efforts in the event of disasters. With the launch of Sentinel-2B the amount of data gathered and fed to these applications will double.  The Sentinel-2 satellites are the result of a close collaboration between ESA, the European commission and European space industry. |
| 10:02:55  -INT: Interview at estec - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | **Francois Spoto, Sentinel-2B project manager, ESA**  *Sentinel-2 is a spacecraft which honors many competencies and talents from the european industry. The prime contractor is airbus defense and space in (unintelligible) Germany located in Friedrichshafen and I would underline as well the pilot instrument designer which is airbus defense and space in Toulouse. But underneath these two major industries you find ability 55 companies who have produced the various elements that compose this very performing system. Hardware, software, test facilities euh all of that is very important to deliver the high quality and performance mission which is the one demonstrated with the first spacecraft in orbit.* |
| 10:03:32   * INT: Images of Sentinel-2B in estec cleanroom - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | With the Sentinel satellites and the Copernicus programme the European space agency ESA and the European commission continue to work on monitoring and protecting our planet and the people that live on it. |
| B-Roll |  |
| 10:03:44  -INT: Interview at estec - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | **ITW Bianca Hoersch, Sentinel-2 Mission Manager, ESA**  **English**  **- Sentinel-2 applications**  **- Improvements with sentinel-2B?revisit time. Improved performance**  **- Operational services / continuity** |
| 10:05:21  -INT: Interview at estec - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | **ITW Bianca Hoersch, Sentinel-2 Mission Manager, ESA**  **German**  **- Sentinel-2 applications**  **- Operational services** |
| 10:06:22  -INT: Interview at estec - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | **ITW Josef Aschbacher, Director of Earth observation programmes, ESA**  **English**  **- General overview Copernicus / Success story**  **- Sentinel-2B contribution** |
| 10:07:43  -INT: Interview at estec - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | **ITW Josef Aschbacher, Director of Earth observation programmes, ESA**  **German**  **- General overview Copernicus / Success story**  **- Sentinel-2B contribution** |
| 10:09:06  -INT: Interview at estec - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | **Francois Spoto, Sentinel-2B project manager, ESA**  **English**  **- Sentinel-2B recurring spacecraft benefits** |
| 10:09:56  -INT: Interview at estec - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | **Francois Spoto, Sentinel-2B project manager, ESA**  **French**  **- Sentinel-2B recurring spacecraft benefits** |
| 10:10:43   * INT: Images of Sentinel-2B in estec cleanroom - NOORDWIJK, THE NETHERLANDS - 15/11/2016 - ESA | **Images of sentinel-2B in ESTEC cleanroom** |
| 10:12:19 | **Animations ESA**   * **Sentinel-2 in space opening up to display inside** * **Sentinel-2 demonstration of multispectral imager** * **Sentinel-2 Data transfer** |
| 10:15:04 | **End** |
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