**Preparing for Euclid’s first images: from puzzling data to dazzling views**

Never before has a telescope been able to create such razor-sharp astronomical images across such a large patch of the sky.

On Tuesday 7 November, ESA will release the first full-colour images captured by its recently launched Euclid space telescope. These images form part of the mission’s ‘Early Release Observations’ – where Euclid was tasked with scrutinising a set of celestial targets chosen for their public appeal and scientific value.

The five images are full of cosmic secrets waiting to be revealed. And this is just the beginning. During its six-year mission, Euclid will generate the equivalent of a million DVDs of data. These data will be used to create the biggest ever 3D map of the Universe and uncover the secrets of dark matter and dark energy.

In this video, hear from the experts about how Euclid has reached this milestone. Discover how they felt when they saw the first images, and find out what these images will reveal about the cosmos.

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| Image | Text |
| 10:00:00:00  Music: | **There are mysteries in deep space. The nature of dark matter and dark energy has perplexed astronomers for decades. But ESA’s Euclid Space Telescope is now ready to help. Its first science images are about to be released.** |
| 10:00:16:38   * Interview Roland Vivrek Euclid Deputy Project Scientist – ESAC, Madrid, Spain – 25/10/23 ©ESA | **Roland Vivrek: Euclid Deputy Project Scienctist, ESA**  I started to work for Euclid in 2013, 10 years ago. Over that time, the spacecraft has been designed, it has been manufactured, it has been assembled, tested and verified; the mission is almost ready to start its six year collection of data. |
| 10:00:38:41   * Interview Rene Johannes Laureijs Euclid Project Scientist – ESTEC, Noordwijk, The Netherlands 26/10/23 ©ESA * Animation HERA Arrives at didymos – 2019 ©ESA * Animation HERA Solar wing deployment – Oktober 2023 ©ESA | **Rene Johannes Laureijs: Euclid Project Scienctist, ESA**  ERO is an acronym for early release observations, a programme where we observe a number of very interesting targets, which are appealing for the public, but also have scientific value. |
| 10:00 :49:00   * Interview Sara Nieto Hera Project Manager – ESAC, Madrid, Spain – 25/10/23 ©ESA | **Sara Nieto: Archieve Scientist, ESA**  I have seen the first ERO image and had this enormous pleasure. It's absolutely stunning. So this is a very exciting moment, scientists are still working on the on the images to be ready for the release. |
| 10:01:03:43   * Interview Rene Johannes Laureijs Euclid Project Scientist – ESTEC, Noordwijk, The Netherlands 26/10/23 ©ESA   Music: Wings Of Inspiration ©storyblocks Asset ID: SBA-347259551 | **Rene Johannes Laureijs: Euclid Project Scienctist, ESA**  The result is really astonishing. |
| 10:01:4:37   * GV’s Hera Arrival at ESTEC – Noordwijk, The Netherlands – 30/08/23 ©ESA (4shots) * Animation HERA arriving – Oktober 2023 ©ESA | **Euclid is designed to map approximately 1.5 to 2 billion galaxies. By analysing the shapes and distribution of those galaxies, astronomers will gain clues to the nature of the dark matter and dark energy.** |
| 10:01:18:37   * Interview Sara Nieto Hera Project Manager – ESAC, Madrid, Spain – 25/10/23 ©ESA | **Herve Aussel: Euclid Project Scienctist, Euclid Consortium**  For the first time with Euclid, we can take a sample of galaxies for which I know the stellar masses, so we know how many stars are formed etc, and I can go and measure very accurately how much total mass – how much dark matter mass – is in them and that's what I want to do with Euclid on my side. |
| 10:01:37:11   * GV’s Hera Arrival at ESTEC – Noordwijk, The Netherlands – 30/08/23 ©ESA (4shots) * Animation HERA arriving – Oktober 2023 ©ESA | **During its mission, Euclid will generate a vast amount of data, the equivalent of a million DVDs, that must be stored and made available to the world’s astronomers.** |
| 10:01:48:00   * Interview Rene Johannes Laureijs Euclid Project Scientist – ESTEC, Noordwijk, The Netherlands 26/10/23 ©ESA   Music: Wings Of Inspiration ©storyblocks Asset ID: SBA-347259551 | **Rene Johannes Laureijs: Euclid Project Scienctist, ESA**  These images together will give us the total structure of the universe up to a lookback time of 10 billion years so we can follow the evolution of the structure over 10 billion years. And this is really the aim of Euclid to make this giant 3d distribution map and derive from it the properties of dark matter and dark energy. |
| 10:02:31:41   * Interview Sara Nieto Hera Project Manager – ESAC, Madrid, Spain – 25/10/23 ©ESA * Animation HERA arriving – Oktober 2023 ©ESA | **Sara Nieto: Archieve Scientist, ESA**  Now that we have real data in place that's really a game changer for us. So we now can test everything that we can offer this real data to our interfaces which is really, really exciting for us. This is very emotional moment and very challenging also. |
|  | **There are cosmic secrets in these images, invisible to the human eye, but waiting to be revealed by computer analysis and our understanding of physics. Euclid’s scientific mission into the dark side of the universe is about to begin.** |
| **10:02:47:47** | **ESA OUTRO** |
| **10:02:42:59** | **END** |