THE GAIA PROJECT

UNRAVELLING THE MYSTERIES OF THE MILKY WAY

The European Space Agency's (ESA) Gaia satellite is capturing data on around 1 billion celestial objects to create a 3D map of the Milky Way - but exactly how much information is being collected and how is it being stored and analysed?







Gaia sees up to observations every day. This results in over 285 GB of scientific

data per day

... and look at each one on average



...If stored on DVDs. it would take



of observed celestial bodies...



including extra solar planets and brown dwarfs (failed stars)

The Gaia Project is considered the **BIGGEST** data challenge in astronomy to date



is the main database used in the near-real-time processing, analysis and validation for the Gaia satellite Through lightning fast performance and massive scalability, Caché will help of the Gaia Project

Got a big challenge? We're built for big.

Find out more at www.intersystems.com/gaia

http://sci.esa.int/gaia/53536-esa-pr-44-2013-liftoff-for-esas-billion-star-surveyor/ http://www.intersystems.com/who-we-are/newsroom/news-item/european-space-agency-uses-intersystems-cache-database-system-for-gaia-mission-to-map-1-billion-stars-in-the-milky-way/ http://sci.esa.int/gaia/28820-summary/http://www.esa.int/Our_Activities/Space_Science/Gaia/Europe_bids_Gaia_a_safe_journey/(print)

