We present a science-driven discovery portal, called ESASky, for space astronomy missions, including all the ESA Astronomy Missions at ESAC. The first public release of this service features interfaces for sky exploration and for single and multiple targets. Using the application requires no prior-knowledge of any of the missions involved and gives users worldwide simplified access to high-level science-ready data products from ESA Astronomy missions plus a number of ESA-produced source catalogues. XMM-Newton data, metadata and products were some of the first to be accessible through ESASky. In the next decade, ESASky aims to include not only ESA missions but also access to data from other space and ground-based astronomy missions and observatories.

From a technical point of view, ESASky is a web application that offers all-sky projections of full mission datasets using a new-generation HEALPix projection called HiPS; detailed geometrical footprints to connect all-sky mosaics to individual observations; and direct access to science-ready data at the underlying mission-specific science archives.