

BSBF webinar miniseries: a look into the future of Big Science infrastructures

On 4-7 October 2022, the top European Big Science research facilities will be meeting together with industry in Granada (Spain) in the [Big Science Business Forum 2022](#) to present their business opportunities for industry in the period 2022-2026 worth 37.100 million euros. In this congress industry will learn about the Big Science investments in the coming years in different technology areas and benefit from the unique opportunity of networking with key representatives from the Big Science organisations and other stakeholders.

But what will come next? In this webinar series we take a leap to glimpse what the future might bring in terms of new facilities, experiments or upgrades and what challenges lie ahead of us. Representatives from different Big Science facilities will lay out in three episodes their research and development plans and future projects, providing industry a picture of their technology needs and opportunities for collaboration which will drive the Big Science market in the decades to come.

Episode 1: Strategic view, roadmaps and development programmes of astronomy research infrastructures

Astronomy tries to provide answers to some of mankind's most basic questions: how did the Universe origin and how can we explain its fundamental physics? What is behind the formation of galaxies? Are we alone in the Universe? The key to providing answers to these enigmas are international scientific collaboration and ambitious international endeavours to build large astronomical observatories, as some BSBF2022 members can prove. ESO is currently building the Extremely Large Telescope, a revolutionary ground-based telescope that will be the largest visible and infrared light telescope in the world. The Square Kilometre Array Observatory, another member of BSBF2022, kicks off its construction this year with the objective of becoming the world's largest radio telescope. ESA among other projects is involved in the James Webb Space Telescope, the next great space science observatory following Hubble. Other exciting projects such as CTAO in high energy physics and the EST in the field of solar astronomy are in different degrees of implementation.

In this webinar, featuring prominent speakers from ESA, ESO, SKAO, EST and CTAO, we take a step ahead and identify the technologies that will drive these and other organisations' future projects, taking a look at their strategies for the future and their research and development programmes, and how industry can get involved.

Collaborators:



Date: 6 October 2021, 9:30-12:00 CET

Zoom Webinar

Agenda

9:30-9:40	Welcome and introduction to speakers Javier Echavarri – Spanish ILO for ESO and SKA, CDTI, E.P.E.
9:40-10:00	ESA Science Programme – the long term vision Guenther Hasinger, Director of Science of ESA
10:00-10:20	ESO R&D Development Programme and future plans Norbert Hubin, ESO Technology Development Programme Manager
10:20–10:40	Beyond SKA1 - Square Kilometre Array Development Programme Tim Stevenson, Head of Assurance, SKA Observatory
10:40–11:00	The European Solar Telescope and the future of solar astronomy Manuel Collados, Instituto de Astrofísica de Canarias, Coordinator of the EST
11:00-11:20	Cherenkov Telescope Array Observatory – the next generation high energy astrophysics facility Wolfgang Wild, CTAO Project Manager
11:20-11:50	Round table with audience participation Moderated by Michel Hübner, Swiss Industry Liaison Office
11:50-12:00	Closing of the webinar Javier Echavarri – Spanish ILO for ESO and SKA, CDTI, E.P.E.

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