Extraterrestrial Institute

Case Study
Extraterrestrial Activity Special Overview 2022

About Extraterrestrial Institute

Extraterrestrial Institute is a specialized think tank in the area of extraterrestrial activity R&D profiling, business intelligence, and innovation analytics. The company is dedicated to producing powerful data mining and visualization systems; interactive analytics tools; and industry reports offering deep data-driven insights, business intelligence, and strategic guidance in the high-growth and significant opportunity areas of the extraterrestrial activity research.

"Extraterrestrial Activity Special Overview 2022"

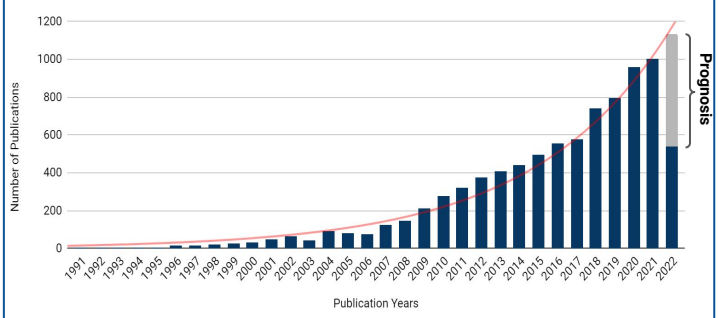
This is the second iteration of the SpaceTech Analytics report on the extraterrestrial activity, produced by Extraterrestrial Institute. With the first report focused on the US "Preliminary Assessment: Unidentified Aerial Phenomena," the second report is an advanced version of the first issue with enhanced analytical basis, supporting IT-platform, and an overview of extraterrestrial activity markers and both government and scientific worlds' responses on the most curious question raised by humans regarding life beyond Earth.

The report also shows a more scientific approach to extraterrestrial activity, outlining the scientific markers of the extraterrestrial activity along with the UAP in-depth analysis. There are numerous signs indicating there is an unidentified, unexplained, and phenomenal activity present, which can further drive the humanity toward the acceptance of idea that we are not alone in this universe and there are other developed forms of life in space. Due to the growing UAP recognition, data appearance and potential development of the area, SpaceTech Analytics presents a case study "Extraterrestrial Activity Special Overview 2022."

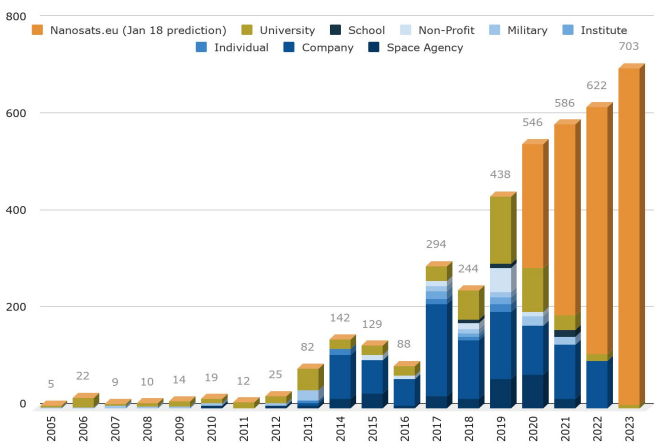
Some of the key takeaways from the report include:

- The most commonly used means of detecting extraterrestrial activity are gravitational waves measuring, spectroscopy, optical methods, planetary conditions modeling, big data ML-modeling for ET research, optical waves detection, and artificial life modeling.
- The chemicals necessary for Earth's biochemistry have already been discovered in the interstellar medium, planetary atmospheres, as well as on the surfaces of comets, asteroids, meteorites, and interplanetary dust particles. In fact, the building blocks of life are not in short supply.
- Astrobiology can barely be separated from its cultural context, including philosophical, ethical, and theological aspects, because the discovery and continued study of extraterrestrial life will radically challenge our understanding of nature, including ourselves.
- SETI concentrates on the electromagnetic spectrum's radio frequency region. However, since we have no idea what is out there, it is obvious that we should investigate all wavebands, including the optical and X-ray portions. Instead of only keeping an eye out for radio transmissions, we should also be on the lookout for other signs of extraterrestrial activity or occurrences.

Dynamics of scientific publications on Extraterrestrial life



Nanosatellite Launches by Organisations



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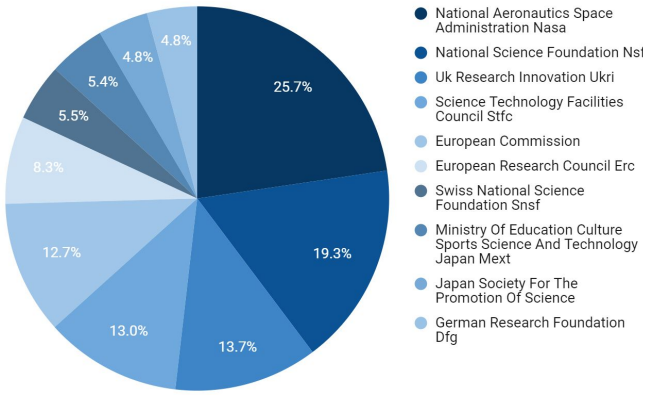
Study of Extraterrestrial Activity Framework

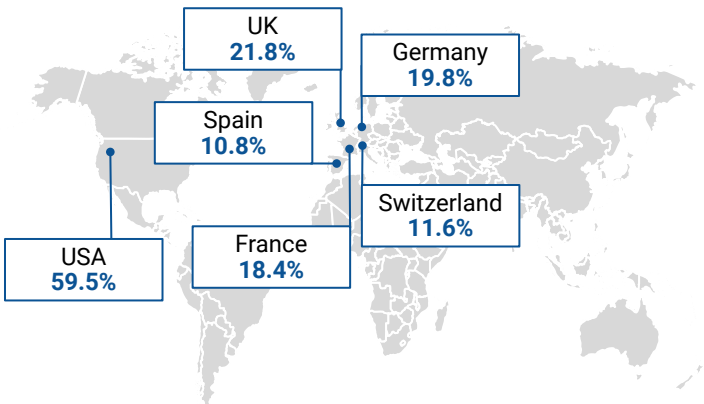
Object		Research Method		Location
Intelligent Life Forms	Primitive Life Forms	Measurement	Modeling	Atmosphere
Active	Tracks	Radiolocation	Alternative life Forms	Near-Earth Orbit
Messages	Organic or Life Signatures	Optical	Megastructures Signatures	Our Solar System
Tech Signatures	Suitable Worlds Discovery	Spectroscopy	Biomarkers Signatures	The Milky Way
Megastructures	Alternative Life Forms	Gravitational Waves Measuring	Planetary Conditions	Observable Universe
Laws of Physics Obstruction				

Potentially habitable planets	Possible Alien Megastructures	Confirmed Exoplanets	Other stars with planets orbiting them in our galaxy
300M	300K+	5000+	3200

Top-10 Agencies which Fund Astrophysics Research



Top-5 Countries by the Number of Publications on the Topic of Extraterrestrial Life



By the number of publications related to the extraterrestrial life research, USA takes the first place having slightly more than a half of all published scientific papers. It correlates well with the fact that top-2 agencies which fund astrophysics research are both US organisations: NASA and NSF. Other 4 leaders by the number of selected scientific publications are all located in Europe, where the UK accounts 21.8% of all publications. That is not quite a surprise, since it is the British organisations which take 3rd and 4th places in the list of funding agencies: UKRI and STFC (parent organisation: UKRI).

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