

Proposals of Ukrainian space companies on possible areas of cooperation with Greece

Earth observation:

- joint use of main ground facilities of the National Space Facilities Control and Test Center and dissemination of remote sensing data of the Earth (remote sensing);
- exchange of experience, in particular in the field of remote sensing, namely the joint development of methods, information technology, operational services, geoportals and mobile applications based on the results of remote sensing data processing in the interests of public and commercial consumers.

Satellites, individual systems and on-board equipment:

- joint development and manufacture of satellites for remote sensing of the Earth;
- development of spacecraft platforms;
- creation of astro-measuring systems for high-precision orientation of satellites;
- creation of control systems for remote sensing microsatellites for monitoring the territory in order to solve economic and other applied problems;
- development of systems for navigation, guidance, control of orientation and stabilization of the space launch vehicle of ultralight class (taking into account the requirements of the missile technology control regime);
- development of a fault-tolerant on-board digital computer system and control systems based on it for long-range launch vehicles and spacecraft.

Orbital service systems:

- development of orbital service systems.

Joint participation in ESA and EU projects:

- study of opportunities for joint participation in international programs (EU, ESA).

Education:

- training and retraining of Greek specialists in the field of space exploration for peaceful purposes, in particular on the following topics:

1. Remote sensing;
2. Communication of space purpose;
3. Mapping and creation of digital terrain models;
4. Space materials science. Promising space technologies;
5. Space law;
6. Space and atmospheric sciences;
7. International space law;
8. Scientific research in space;
9. Remote sensing systems and geographic information systems;
10. Satellite monitoring systems. Modeling of orbital motion. Satellite motion control. Software and ballistic support for space systems;
11. Technologists for the production of launch vehicles and aircraft.

- participation of Greek specialists in the annual International Scientific and Practical Conference "Man and Space" (<http://unaec.dp.ua/en/conferences/spacehuman.htm>).

Other areas of cooperation:

- development of integrated navigation systems for aviation, space technology, unmanned aerial vehicles, as well as for ground vehicles;
- involvement of the Ukrainian Space Monitoring and Analysis System (SMAS) in the implementation of works in the framework of bilateral and multilateral international space control projects.