

STATEMENT
by the representative of Delegation of Ukraine

Madame Chair, distinguished delegates,

The delegation of Ukraine presents its compliments and wishes all of us a very fruitful session.

The ongoing coronavirus crisis makes the task to maintain the space activities sustainable of a paramount importance, both for the national industries and for the world economy. To this end, Ukraine welcomes the establishment of a new Working Group on the long-term sustainability of outer space activities and is ready to contribute to its deliberations.

Earlier this year the Cabinet of Ministers of Ukraine approved the concept of the National Purpose-Oriented Scientific and Technological Space Program of Ukraine for 2021-2025. The concept was developed by the recently created Ministry for Strategic Branches of Industry of Ukraine together with the State Space Agency of Ukraine. The program's goal is widening of use of the space potential, increasing of its influence on socio-economic, ecological, information-driven, scientific and educational development of the society, enforcement of the country's interests in the fields of national security and defense.

The concept identifies key problems of scientific and technical development of the space activities, the ways to solve them and expected results. It is targeting creation of conditions for ensuring the exercise of the state's interests at the national and international levels and achieving economic efficiency as a result of space activities by means of the development of own competencies in strategically important directions, attraction of private companies and international investments together with financial support from the state.

It is expected that implementation of the National Space Program of Ukraine will result, particularly, in the following:

- citizens of the country will have a wider access to the modern information technologies such as Earth observation systems and positioning, navigation and timing services systems; space education and knowledge outreach system will be enhanced;
- internal market of space technologies, information and services will be created, and its development will be supported by facilitation of introduction of advanced space technologies into non-space branches of

economy (spin-off) and of non-space technologies into space industry (spin-in);

- the space sector of the country will be provided with stable orders; development of new private space companies and their integration in the projects of the National Space Program of Ukraine will be facilitated.

In general, a number of measures are envisioned in the program to secure sustainability of space activities in Ukraine. These activities, in turn, are aimed at contributing to the sustainable socioeconomic development of the country.

Among the versatile activities foreseen by the program, one can find the development of cutting-edge devices, technologies and means to join perspective international projects, in particular what concerns the Moon Exploration.

Indeed, during the last several years we are witnessing a renewed interest in Space Exploration, in particular with regard to the Moon. Clearly, the Earth's closest space body is in the focus of space activities of the ever-growing number of countries. In fact, one can speak of the nascent Moon market of space goods, technologies and services as a new segment of the global space market. From this perspective, the Moon-related activities should receive a proper attention, including as it relates to the sustainability aspect.

Ukraine has an important heritage, state-of-the-art technologies and strong capabilities applicable in the context of the Moon exploration. In the framework of the Soviet manned lunar landing program, a highly reliable engine cluster (consisting of the main and back-up engine) was developed in the late 1960th by Yuzhnoye Design Office for the N-1 Lunar Launch Vehicle. The propulsion system intended for soft landing onto the Moon surface and take-off from the Moon, with following insertion of the lunar vehicle into the lunar orbit. It underwent multiple ground tests, and it was tested three time in orbit.

Today Yuzhnoye Design Office is at the forefront of the Moon Exploration activities in Ukraine. The company developed and presented to its international partners already 6 years ago the concept of creation of Industrial and Research Lunar Base. In the framework of the conceptual design, the lunar base configuration has been formed and the project implementation periods have been determined; preliminary layout and infrastructure corresponding to the different periods of the base creation were defined.

Moreover, basic technical characteristics of the key systems being developed by the company such as space transportation system for crew and cargo delivery to

the Moon surface and for return to the Earth, lunar modules of different types and purposes, communications and remote sensing spacecraft etc. were identified. Building upon this, some important projects are advancing; this concerns high TRL propulsion systems for landing and take-off modules, lunar lander-hopper with original design and others.

When it comes to the international efforts, securing a level playing field for all the interested parties is a key for the success of the Moon Exploration and Utilization. In this respect, the Moon Village Association (MVA), an observer at UNCOPUOS, can play an important role. That is why Yuzhnoye joined the association as one of the first institutional members, and SSAU has signed an MoU with MVA last year.

In Ukraine, a big technological potential and expertise in space companies, institutes of the National Academy of Sciences, universities, research establishments are available for bilateral and big international projects. Recently Ukraine signed the Artemis Accords, and the country is open to cooperation with both established players and emerging space powers.

Thank you very much for your kind attention.