

Item 6. Matters relating to Remote Sensing of the Earth by satellite, including applications for developing countries and monitoring of the Earth's environment:

To support the sustainable countries' resources management, the Iranian Space Agency has developed couples of space-based monitoring systems as well as related management dashboards for wild-fire, air pollution (pollutants, sand & dust storm), water bodies and strategic agricultural inventories. Taking the advantages of satellite-based data, these systems may provide state of the art information to support decisions in important socio-economic issues on daily basis.

Accordingly, for the last year there's a spectrum of activities has performed by the Islamic Republic of Iran in the area of remote sensing and can be summarized as:

- **Supervising the implementation of national protocols related to the COVID-19 pandemic:** This has been done through satellite-based earth observation of key parameters for pollutants over urban as well as main arteries.
- **Water resources management:** such as systematic reservoirs, shores and water quality monitoring for local or national authorities.
- **Air pollution:** in which nationwide and regional pollutant monitoring (NO₂, SO₂ and CO) and dust storm early-warning have received special attention.
- **Food security and agricultural inventory:** best practices for crop mapping (mainly for wheat and rice) and crop stress and yield prediction were among the core activities. The nationwide EO-based crop monitoring system is also under development.
- **Disaster risk management:** Providing flood risk information and damage assessment (maps and reports), detecting more than one hundred natural resources fires (equivalent to 80,000 hectares) and sending online information to the National Disaster Management Organization and other responsible bodies for planning, rescue and field operations.
- **International collaboration:** Extensive collaboration with Asia-Pacific Space Cooperation Organization, UNSPIDER program, and the Copernicus Emergency Management Services for complementary satellite based data and information procurement in disaster management and emergency response.

In the end, the Islamic Republic of Iran refers to the following:

- Re-emphasis on the policy of remote sensing data sharing and the expansion of international cooperation for the non-discriminatory use of satellite data by all countries for disaster risk, agricultural, water resource, environmental, and rural-urban applications and management;

- Emphasizes, the need to develop more tools regarding the dissemination and processing of space based remotely sensed data for developing and less developed countries, such as cloud computing platforms.