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Joint Environmental Monitoring in the Black Sea Basin

MEETINGS

Sabuko – Society for Nature Conservation, PP4 of the 'Joint Monitoring for Environmental Protection in BSB countries' project had opportunity to visit Kolkheti National Park, covered by this project. The overall project objective is to contribute to increasing the level of availability of cross-border compatible environmental monitoring data and information in nature parks and protected areas in BSB.

Researchers, experts and Sabuko's several representatives together held a meeting in the administration building of Kolkheti National Park. Uniting the efforts between National Parks personnel and Sabuko's Team contributes towards global points of interest for both sides.The agenda included many aspects such as introduction to the project, overview of objectives and outcomes, methodology review and discussion on different topics related to Kolkheti National Park natural resources management. Up to 15 rangers, director of Kolkheti National Park, head of rangers, biodiversity officers and administration representatives participated in the meeting.

DRONES

On the first stage of project implementation, relevant data will be collected and analysed. SABUKO aims to will reveal significant threats to the protected areas of the Black Sea basin.

For monitoring and data collection, photographic materials from the study areas are crucial to assess human and climate change impacts.

The monitoring will be carried out using a drone, that will allow us to monitor a large area in the shortest possible time, using minimal human resources, and quickly obtained high-resolution visual material.

The modern design of the drone, the noiseless flight and the ability to maneuver quickly will not cause concern for biodiversity, when following the rules.

SABUKO has purchased a DJI phantom 4 multispectral drone. a built-in stabilized imaging system that collects comprehensive data sets right out of the box. Access information collected by 1 RGB camera and a multispectral camera array with 5 cameras covering Blue, Green, Red, Red Edge, and Near Infrared bands – all at 2 MP with global shutter, on a 3-axis stabilized gimbal.

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Black Sea CROSS BORDER COOPERATION

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AIR AND WATER QUALITY MONITORING SYSTEMS

Smart platform for collecting, processing and analyzing cross-border compatible environmental data in BSB will be developed within the project. Smart platform for remote river water quality and dust air measurement, web-based cloud service for automatic data collection from wireless sensor networks and web-based cloud service for video content etc. are positively related to environmental sustainability.
Representative of the company that SABUKO selected for this work has visited several potential sites, where the stations will be mounted before long.

Both Air and Water Quality Monitoring Station is going to be installed in front of rangers' building, which is a littoral zone of Paliastomi lake and has following advantages over other sites:

- Safe site;
- Within boundaries of Protected Areas;
- Good GSM signal strength;
- Required additional needs (such as electricity) required for installation of this station

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