New technologies for Natura 2000 monitoring

Purpose and Content
About Eurosite

Eurosite’s Vision:

“A Europe where nature is cared for, protected, restored and valued by all.”

Eurosite’s Mission:

“Providing opportunities for practitioners to network and exchange experience on practical site management.” (since 1989)

Eurosite’s Objectives:

• Networking for Europe’s Nature
• A Gold Standard for Information
• Advocacy for Site Based Management
Since 2013, Eurosite has organised a series of workshops to facilitate information exchange on issues related to monitoring Natura 2000 habitats and species.

The next Eurosite monitoring workshop will be hosted by Estacion Biologica de Doñana on 9-11 April 2019
The purpose of the workshop is:

• To raise awareness among conservation practitioners of tools, many of which are freely available, that can influence how we plan and deliver conservation monitoring.
The sessions will focus on three main subject areas

1. The roles of satellite images in conservation monitoring
2. The roles of drone images in conservation monitoring; and
3. Open source software packages that can increase the efficiency, accuracy and precision of our work
Session 1. Satellite image applications in nature conservation:

This session will include an overview of the satellite images currently available and how they can be used to:

1. Map habitats
2. Map and predict species distributions
3. Detect land cover changes
4. Identify disturbances
5. Inform decision-making for conservation managers
Session 2. The applications of drone (UAV) images in nature conservation:

This session will include an overview of the range of drones on the market and how they can be used to:

1. Monitor fine-scale habitat change
2. Map species distributions
3. Minimise disturbance during breeding bird surveys
4. Develop integrated habitat monitoring projects and inform satellite image interpretation
5. Inform decision-making for conservation managers
Session 3. Open source software packages and other new technologies that can revolutionise how we monitor nature conservation:

This session will cover a range of open source software packages that can help:

1. Develop mobile phone apps to help standardise the collection of field data, particularly for citizen science and monitoring projects
2. Improve the accuracy of animal and plant counts
3. Interpret remote images and map habitats
4. Reduce the need for invasive survey and monitoring activities
Change detection

This 3rd session will also present an open-source option for biomass change detection.
And last but not least, there will be a field visit to Doñana NP
Thank you for your attention

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