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### **CyanoAlert - Space Based Cyanobacteria Information & Services**

**Abstract:** The overall objective of the initial CyanoAlert project was to introduce into the market an innovative service for detecting and monitoring of cyanobacteria blooms in lakes and coastal seas and thereby improving the timeliness and coverage of the water quality status and potentially threatening blooms with quick and simple access to appropriate Earth observation (EO) based products for different types of water managers.

The CyanoAlert developments have resulted in a service for the environmental authorities and commercial sector, concerned with the quality of water resources. The service delivers a fully automated application for detecting and assessing occurrences of cyanobacterial blooms globally alongside complementary water quality products such as chlorophyll concentration and turbidity, based on Copernicus satellite data. It is based on a dissemination system that provides user-specific information for monitoring and reporting purposes to paying customers (via a viewer and alert subscription), and free and open information for the public (via a mobile app).

The establishment of a sustainable supply chain will now enable the commercial partners to proceed with the exploitation of the project's outcomes in order to further develop the market for this innovative service and to significantly improve spatial and temporal frequency of monitoring bringing about long-term cost savings and much needed extended information coverage.

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