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Abstract Proceeding

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8-Floating wetland islands to support biodiversity promotion in a freshwater pond

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Abstract: Floating wetland islands (FWI) are considered nature-based solutions that can be applied in different water bodies, such as lakes, rivers, and port marinas. They are recognized to promote local biodiversity, aesthetic integration and provide water quality enhancement through phytoremediation processes. Besides that, they can deliver a wide range of other ecosystem services. Research is still needed to go deeper on the processes underlying the performance of these systems and the range of application.

This work presents the integration of a FWI pilot in a freshwater pond, highlighting the challenges of the technology application and assessing the biodiversity associated to the platform. Focus was given to the macroinvertebrates communities associated to the FWI and culturable bacterial communities associated to the floating platform biofilm and to the plant rhizosphere.