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Conference Abstract

An overview of the EU Horizon Project, OneSTOP

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Abstract

OneSTOP is a 3.5 year EU Horizon funded project focussing on enhancing systems and technologies to deliver approaches to achieve One Biosecurity and mitigate the impacts of invasive alien species.

The need to deliver pioneering innovative and holistic approaches to biosecurity for invasive alien species is widely recognised and there is an increasing awareness of the interconnections between animal, plant, human and environmental health. However, it is critical that the barriers posed by dispersed and fragmentary processes, policies, and knowledge are addressed. The strategic actions recommended for integrated

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governance of biological invasions in the IPBES Thematic assessment report on invasive alien species and their control (IPBES 2023) underpin the work plan of OneSTOP. OneSTOP explores the use of current and emerging tools and technologies to deliver methods for identification, early detection and surveillance of terrestrial invasive alien species. Through seven work packages involving 20 partner organisations, OneSTOP aims to integrate interdisciplinary approaches, recognising the relevance of social and ecological science, to deliver cutting-edge approaches to minimise the introduction, establishment and spread of invasive alien species. Specifically, we are developing detection methods, underpinned by evidence-based prioritisation and robust models, alongside stakeholder engagement to inform decision-making and facilitate knowledge exchange. The outcomes will be relevant for invasive alien species policy across local, national, and regional scales. By adopting a holistic and interconnected approach, OneSTOP will document approaches to inform strategies to achieve rapid and transformative progress in detecting, eradicating and controlling terrestrial invasive alien animals and plants. Here we provide an overview of OneSTOP and outline the opportunities for collaboration.

Keywords

One Biosecurity, Computer Vision, eDNA, Citizen Science, Modelling, Communication, Perceptions

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Conflicts of interest

The authors have declared that no competing interests exist.