OneSTOP

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OneBiosecurity Systems and Technology for People, Places and Pathways

Urgent action is needed to tackle invasive alien species – a growing threat to both nature and people.

OneSTOP is pioneering integrated biosecurity approaches for terrestrial invasive alien species (IAS), addressing the fragmented landscape of detection, data mobilisation, and policy action.

DETECTION

We integrate advanced technologies such as environmental DNA (eDNA), computer vision, and citizen science to improve the identification and tracking of IAS, enabling faster and more effective responses.

PRIORITISATION

By using automated workflows, model projections, and multi-criteria analysis, we will develop a data-driven system to assess IAS risks, helping policymakers and stakeholders allocate resources more efficiently.

DISSEMINATION

We ensure that IAS-related data are shared in a standardised and open-access format, following FAIR principles. This supports better coordination among researchers, authorities, and international initiatives, improving the effectiveness of IAS management strategies.

SOCIO-POLITICAL ACTION

Through Living Labs and socio-political research, we foster inclusive decision-making. By harmonising policies across different regions and promoting collaboration across sectors, we will ensure that insights from policymakers, scientists, and the public are captured.

We welcome feedback on the proposed approaches, particularly regarding

1. Integration of heterogeneous data streams
2. The use of Living Labs for co-creation
3. Strategies to align ecological monitoring with science-policy interfaces

Funded by the European Union

OneSTOP receives funding from the European Union's Horizon Europe Research and Innovation Programme (ID No 101180559). Views and opinions expressed are those of the author(s) only and do not necessarily reflect those of the European Union or the European Research Executive Agency (REA). Neither the EU nor REA can be held responsible for them.