OneSTOP

Joined-up approach to minimise the introduction, establishment, spread and impact of terrestrial invasive alien species

Introducing the OneSTOP project

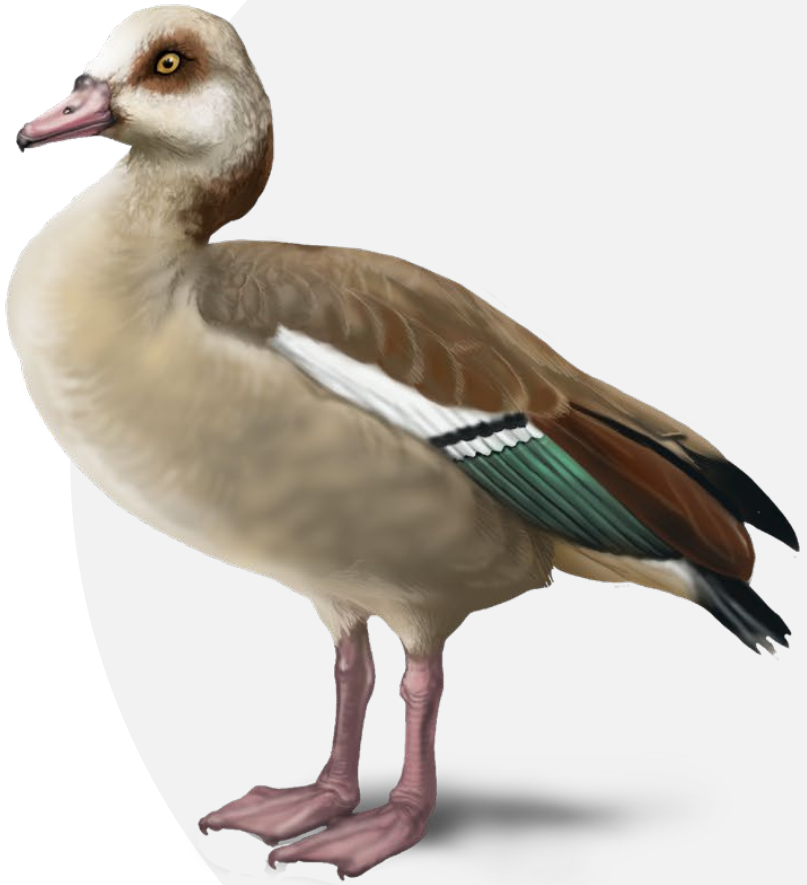
Funded by the European Union

About

Background

Invasive alien species (IAS) pose a serious threat to biodiversity, ecosystems, public health and, in some cases, quality of life.

Major gaps in early IAS detection, prioritisation and response exist to inform policy and science.



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Solution

Combining advanced technologies, citizen science, data-driven early detection systems and real-world testing

Open, accessible and policy-relevant IAS solutions which drive coordinated, science-based action

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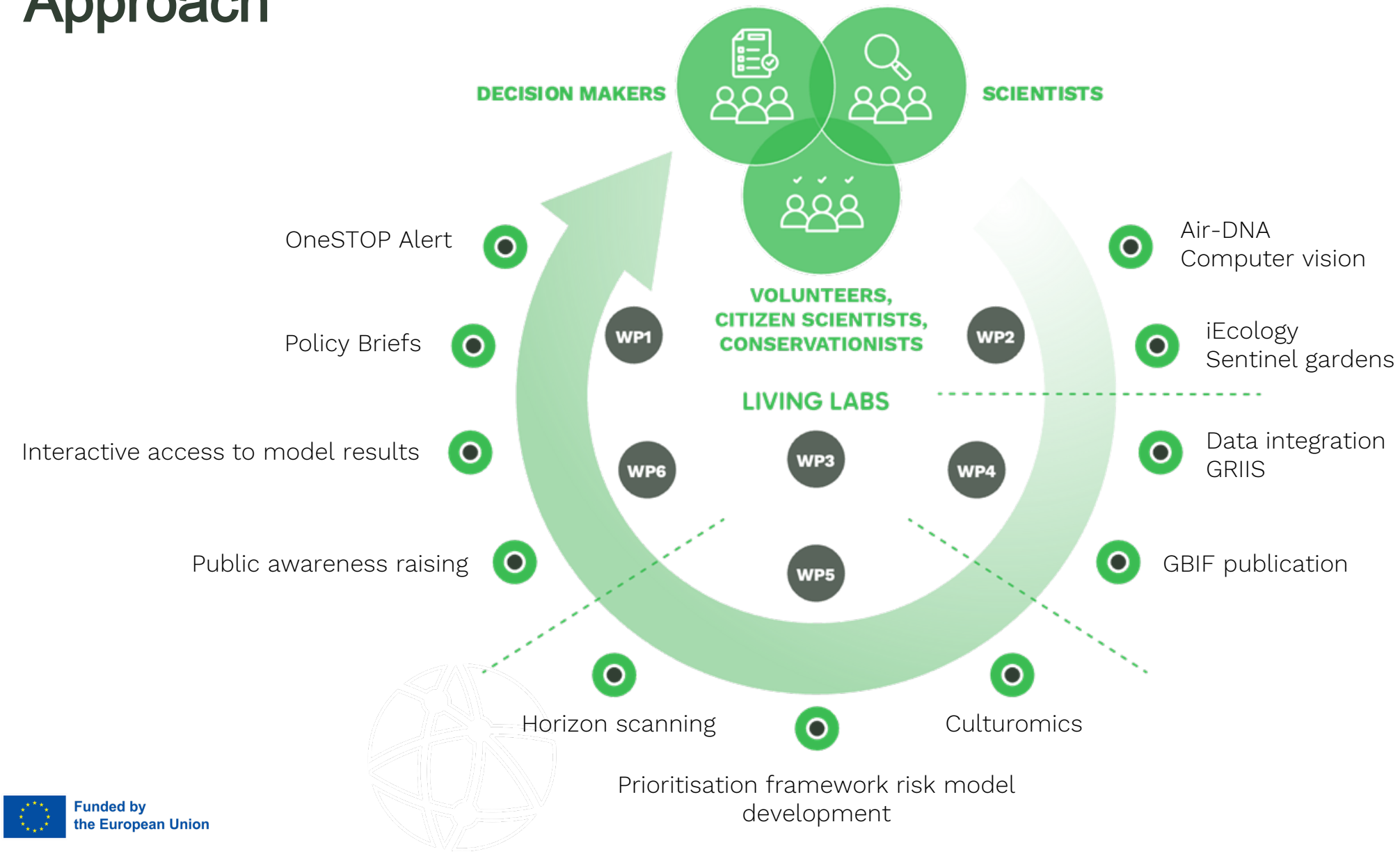
Approach



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Pillars

DETECTION

Testing
four novel methods
for the detection of
invasive alien species

PRIORITISATION

Implementing
a prioritisation system
for informed
management

DISSEMINATION

Ensuring
data and tools are shared
with the people who
need them

SOCIO-POLITICAL ACTION

Improving
engagement, policy
and management
strategies

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Living Labs

BRUSSELS, BE

CONSTANȚA, RO

COVENTRY, UK

Porto, PT

Uusimaa, FI

Supporting the co-creation of innovative IAS detection and monitoring technologies with practitioners in a range of climatic and socio-economic settings

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Partners

Meise Botanic Garden

AARHUS UNIVERSITY

THE BINARY FOREST

GREEN FORMATION

UK Centre for Ecology & Hydrology

Luke
NATURAL RESOURCES INSTITUTE FINLAND

RESEARCH INSTITUTE NATURE AND FOREST

INSTITUTE OF BOTANY CAS

UFZ HELMHOLTZ Zentrum für Umweltforschung

universität wien

LINCOLN UNIVERSITY
TE WHARE WĀNAKA O AORAKI

BIOPOLIS

cibio

University of Exeter

THE CYPRUS INSTITUTE
RESEARCH·TECHNOLOGY·INNOVATION

Coventry University

Platform Kinetics

PENSOFT

Stellenbosch UNIVERSITY
IYUNIVESITHI
UNIVERSITEIT

Ovidius University of Constanța

Joint Research Centre
JRC

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Pillars

DETECTION

AIM

Transforming IAS identification and management via integrated innovative detection methods

ACTIVITIES

Air-DNA, iEcology, Computer vision and Sentinel gardens

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PRIORITISATION

AIM

Ranking IAS based on their likelihood to arrive, establish, spread and cause harm

ACTIVITIES

Distribution models, Ecological models, Horizon scanning, Prioritisation maps, Prioritisation framework, Integrated insights

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DISSEMINATION

AIM

Ensuring the rapid, open and standardised dissemination of data and insights on IAS

ACTIVITIES

Data publishing, GRIIS checklists, Early warning system, Awareness raising

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SOCIO-POLITICAL ACTION

AIM

Integrating social sciences to address the societal, economic and policy dimensions of IAS invasions

ACTIVITIES

Public perceptions analysis, Culturomics, Refining the implementation of IAS Regulation, Supporting policy targets

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LIVING LABS

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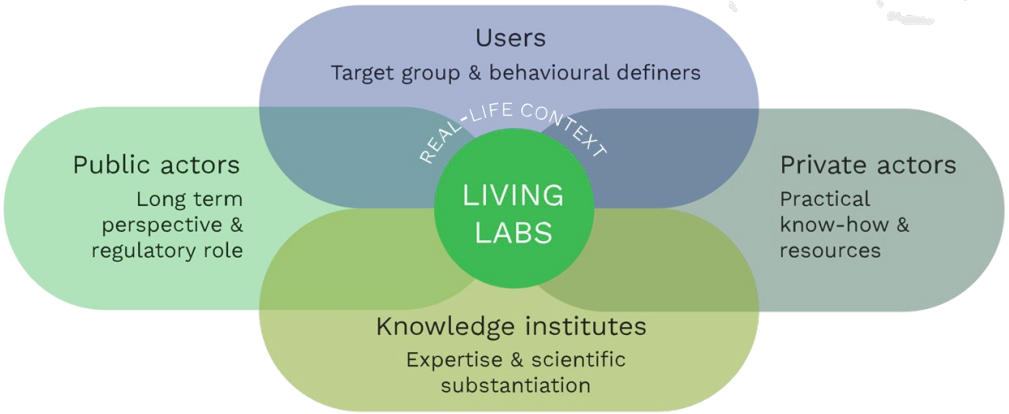

- The Living Labs co-develop and test IAS detection and monitoring tools in collaboration with local practitioners and communities.
- Each Living Lab is guided by a core stakeholder group which meets once/twice a year to organise activities, as well as identify key species and sites for testing.
- Feedback from all participants is used to improve tools and data feeds into OneSTOP's automated prioritisation system.

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OneSTOP Project

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