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Conference Abstract

Towards open, transparent and scalable checklists of introduced and invasive species: a OneSTOP approach

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Abstract

The presence of introduced and invasive species (IIS) is documented in numerous thematic lists worldwide. Each list is curated by a taxonomic expert and typically covers a specific geographic area. These expert-verified lists are authoritative sources of information and should form the foundation for unified and up-to-date national or international IIS checklists. This requires that these thematic lists are open, FAIR, and regularly updated.

In practice, however, this is rarely the case. Source (thematic) lists are often difficult to find, not interoperable with other datasets, or not openly shared. Aggregating these lists to produce national or international lists of IIS thus remains a challenge. At the same time,

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national or international lists do not always provide clear links to their original sources or lack expert validation. As a result, transparency and traceability are compromised.

Within the OneSTOP project, we aim to address these challenges by developing workflows that support IIS experts in maintaining and publishing their data in an open and FAIR way. These workflows enable timely data sharing while preserving essential metadata such as provenance and licensing. In addition, the tools developed within OneSTOP facilitate the aggregation of expert-curated datasets and support their upscaling into national and international IIS checklists.

In this presentation, we will introduce the workflows and tools developed within OneSTOP and demonstrate how they contribute to a more transparent, scalable, and expert-driven approach to IIS data management.

Keywords

introduced species, species checklist, FAIR data, open data, national list, provenance

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Conflicts of interest

The authors have declared that no competing interests exist.