Consiglio Nazionale delle Ricerche

CNR IRET Conference

Rome, February 18th-19th, 2025

CNR IRET Istituto di Ricerca sugli Ecosistemi Terrestri

One method to rule them all: a FAIR and Open approach for the study and integrated management of Invasive Alien Species

Cristina Di Muri
CNR IRET

Di Muri C., Azzurro E., Chiappi M., Ciolfi M., Flore S., Giacalone V.M., Lauteri M., Loru L., Mancinelli G., Pipitone C., Pollegioni P., Scarcella G., Strafella P., Rosati I.

CNR IRET Istituto di Ricerca sugli Ecosistemi Terrestri

CNR IRBIM ISTITUTO PER LE RISORSE BIOLOGICHE E LE BIOTECNOLOGIE MARINE

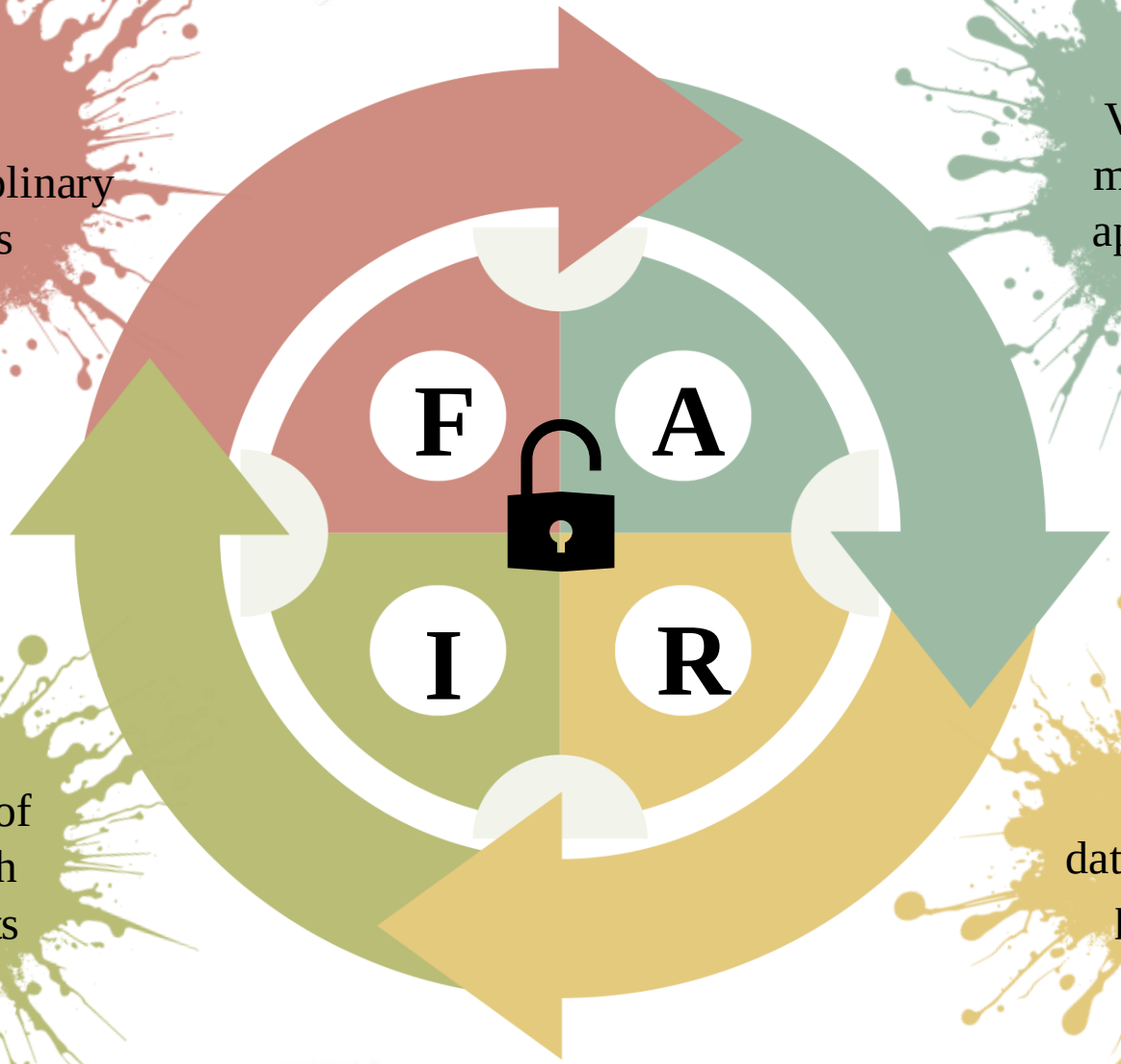
CNR IAS INSTITUTE OF ANTHROPIC IMPACTS AND SUSTAINABILITY IN THE MARINE ENVIRONMENT

UNIVERSITÀ DEL SALENTO

Background Principles

Multi-disciplinary experts

Variety of monitoring approaches



Variety of research products

Diverse data collection protocols

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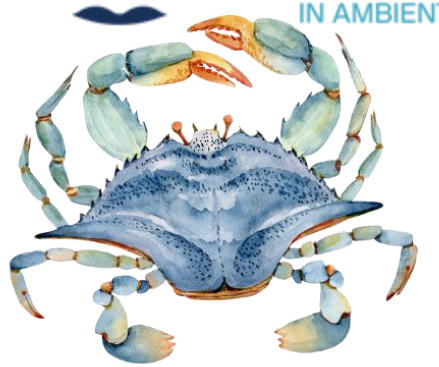
Alien Invasive Species Network

CNR IRBIM
ISTITUTO PER LE RISORSE BIOLOGICHE E LE BIOTECNOLOGIE MARINE

CNR IAS
ISTITUTO PER LO STUDIO DEGLI IMPATTI ANTROPICI E SOSTENIBILITÀ IN AMBIENTE MARINO



USEit
Let's use the aliens

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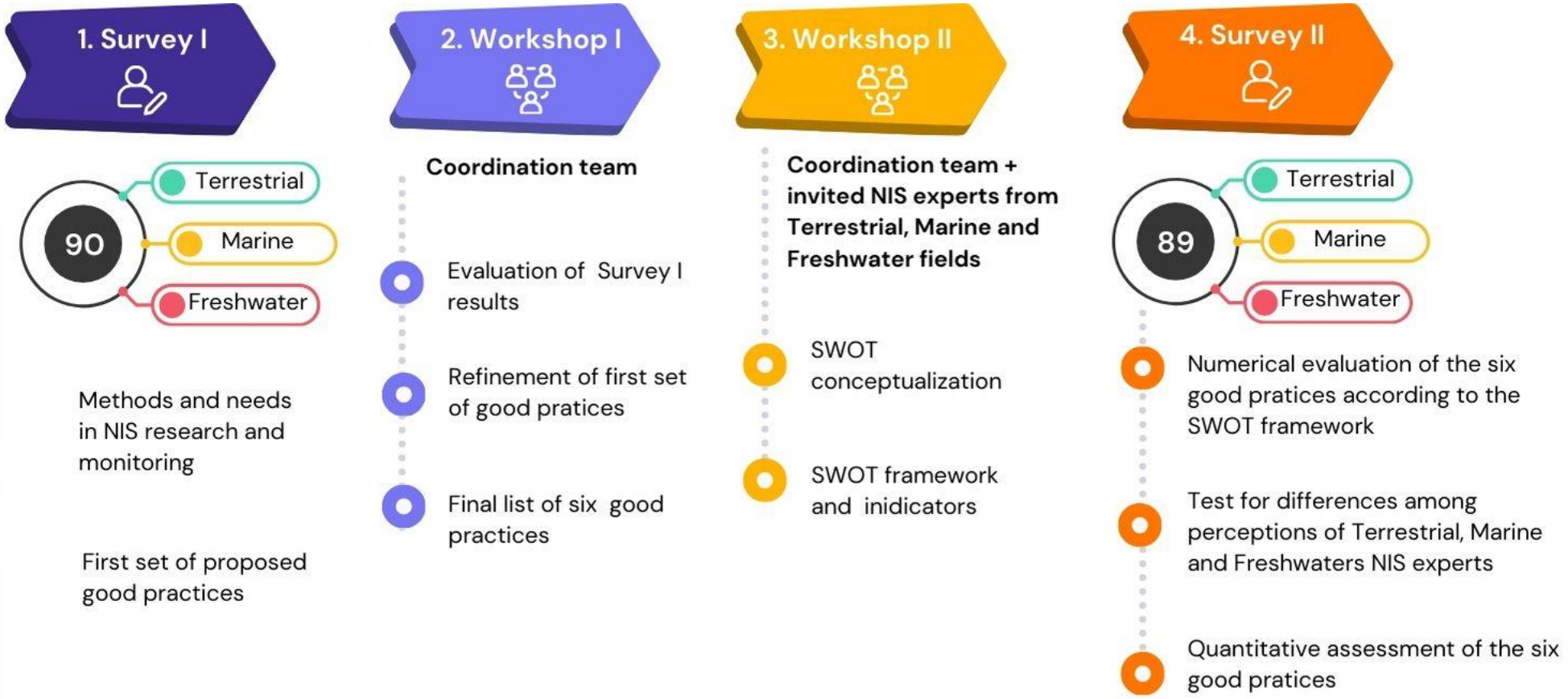
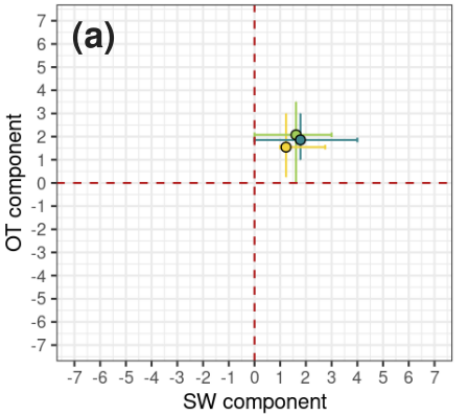
Methods



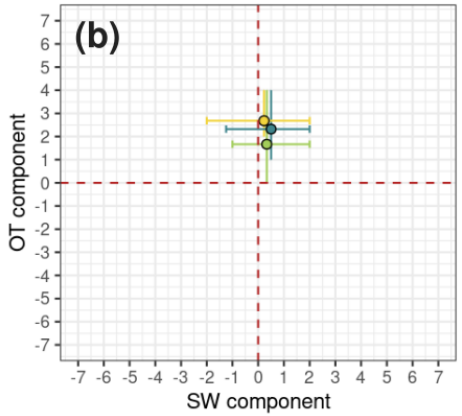
Azzurro *et al.*, Insights for collecting, sharing and communicating Non-Indigenous Species data in Italy: A SWOT analysis. *In prep.*

Final set of Good Practices

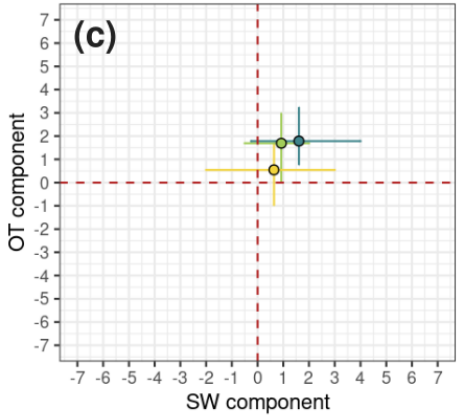
GP1: Identify and report by-catch NIS information



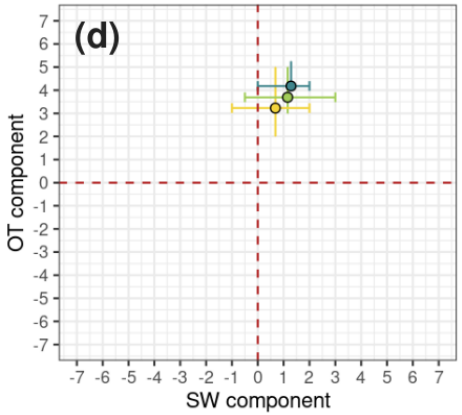
GP2: Use reference protocols for NIS data collection



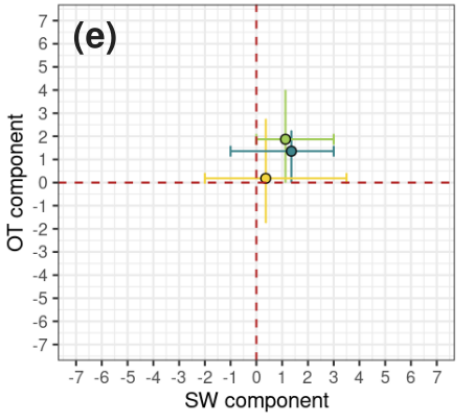
GP3. Integrate citizen science and local ecological knowledge



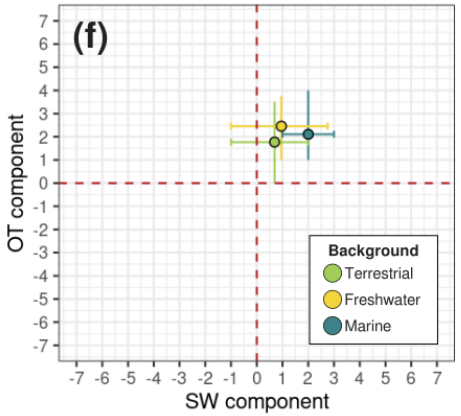
GP4: Share and promote NIS data using Open and FAIR practices



GP5: Archive NIS (meta)data into open-access repository



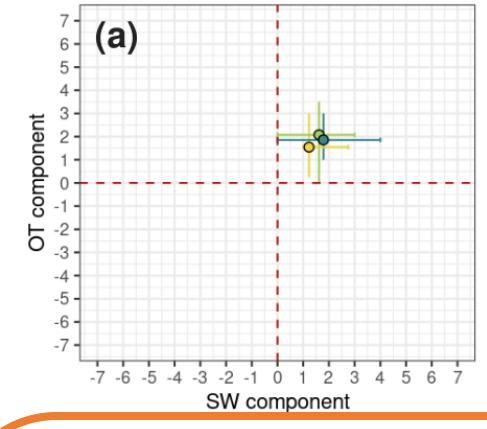
GP6: Enhance public communication of NIS data



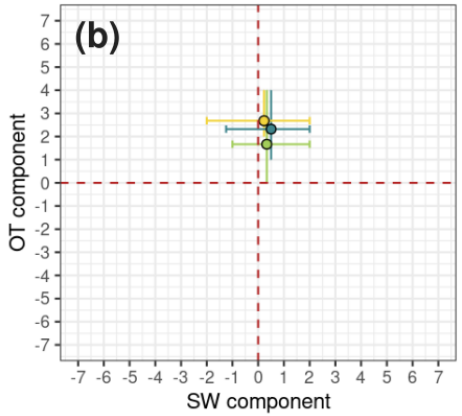
Azzurro *et al.*, *In prep.*

Final set of Good Practices

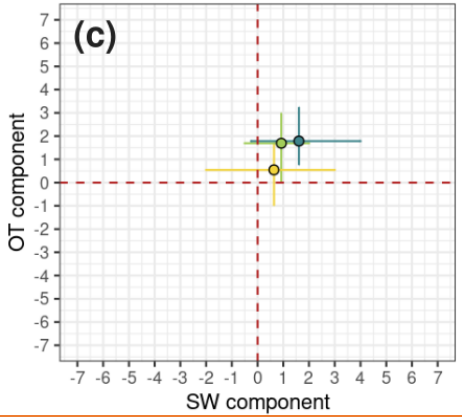
GP1: Identify and report by-catch NIS information



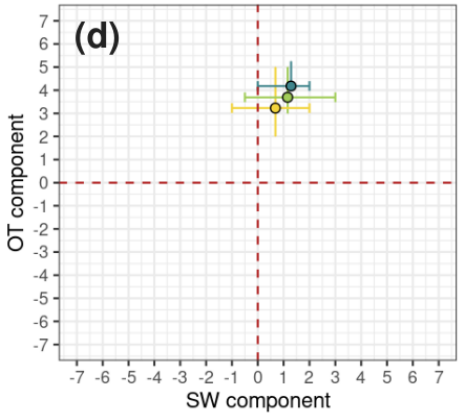
GP2: Use reference protocols for NIS data collection



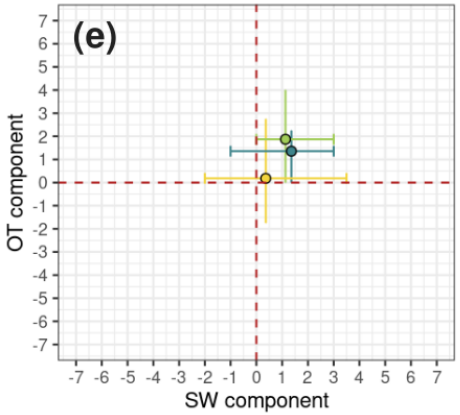
GP3. Integrate citizen science and local ecological knowledge



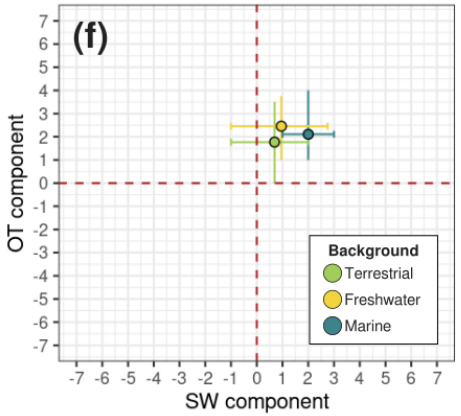
GP4: Share and promote NIS data using Open and FAIR practices



GP5: Archive NIS (meta)data into open-access repository

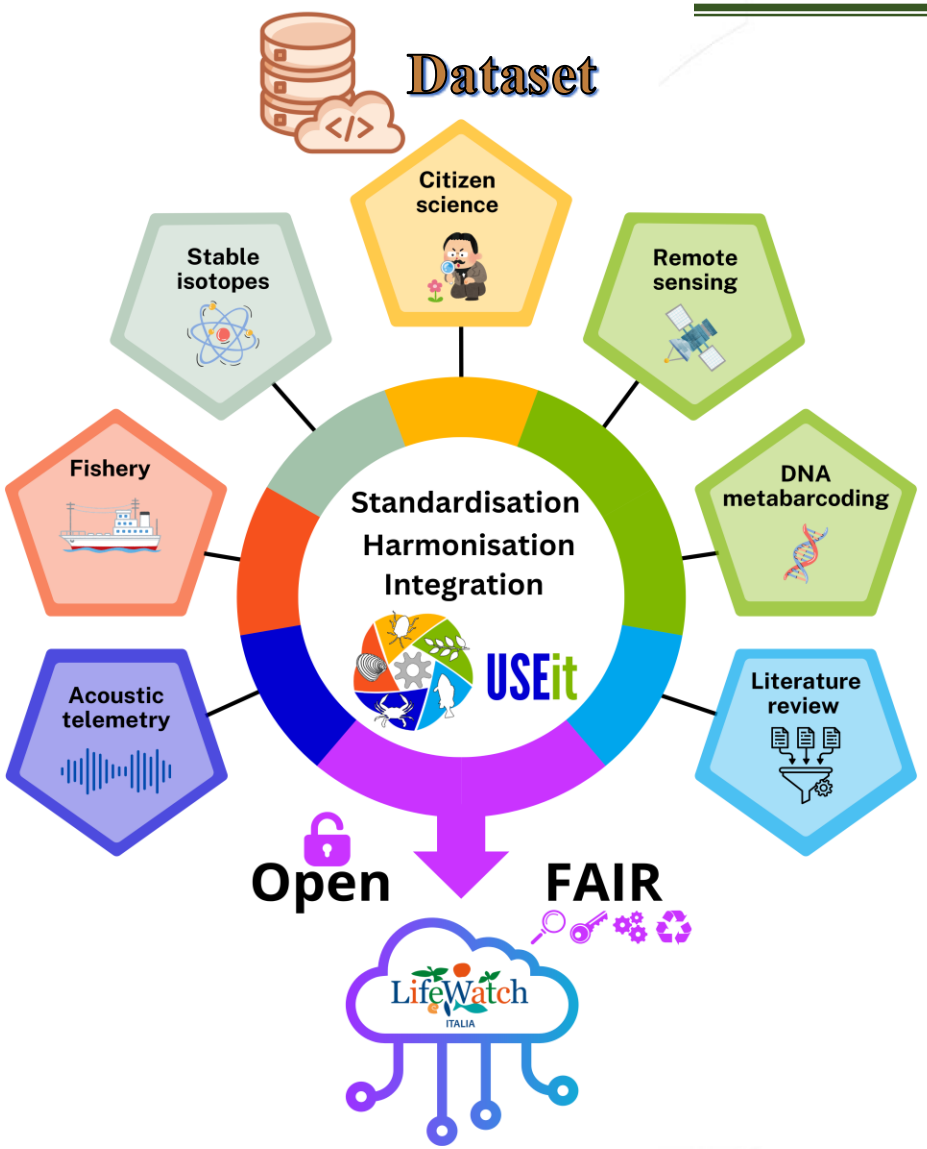


GP6: Enhance public communication of NIS data



Azzurro *et al.*, *In prep.*

Data sharing: GP 4



STANDARDS

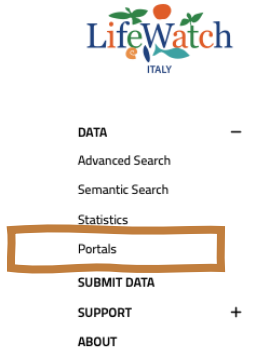
DATA METADATA

TDWG EML

CONTROLLED VOCABULARIES

EcoPortal

Data publication: GP 5



Ensure access to Invasive Alien Species data within a unique open-access repository

Distribution and abundance of Anadara spp. in the Northern Adriatic Sea from 2008 to 2023

Home / Distribution and abundance of Anadara spp. in the Northern Adriatic Sea from 2008 to 2023

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Name	File Type	Size	Download	Data Table
USEit_Anadara_Fishery_Data_20242409.csv	CSV	762.67 KB		More info

Provide credits to authors by assigning DOI to datasets and other research products

Ensure rich metadata descriptions to enhance data reusability

General information

Identifier

6b874b68-5676-4a61-a781-819d21b79d8b

Alternate Identifier

https://doi.org/10.48372/ZS4D-EM32
https://data.lifewatchitaly.eu/handle/123456789/129593

Title

Distribution and abundance of Anadara spp. in the Northern Adriatic Sea from 2008 to 2023

Abstract

This dataset includes 1,998 records with distribution and abundance information of the invasive species Anadara kagoshimensis and A. transversa. Sample collection occurred at 66 trawling stations located in the Italian waters of the Northern Adriatic Sea within the framework of the SoleMon project (CNR-IR-BIM) between 2008 and 2023. The dataset was compiled, harmonised and published within the CNR project USEit - Using operational synergies for the study and integrated management of invasive alien species in Italy.

Publication date

2024-09-24

Dataset Language

English

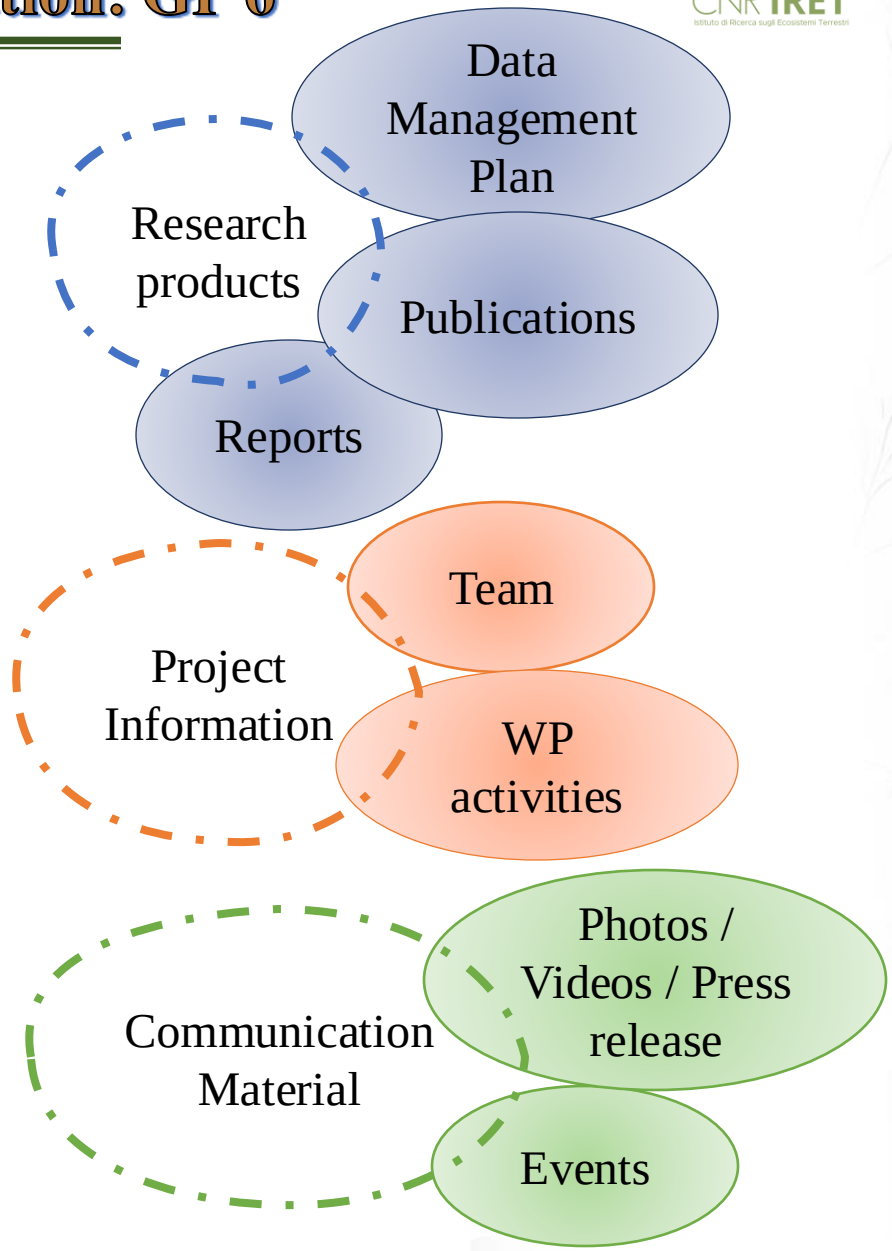
Acknowledgements

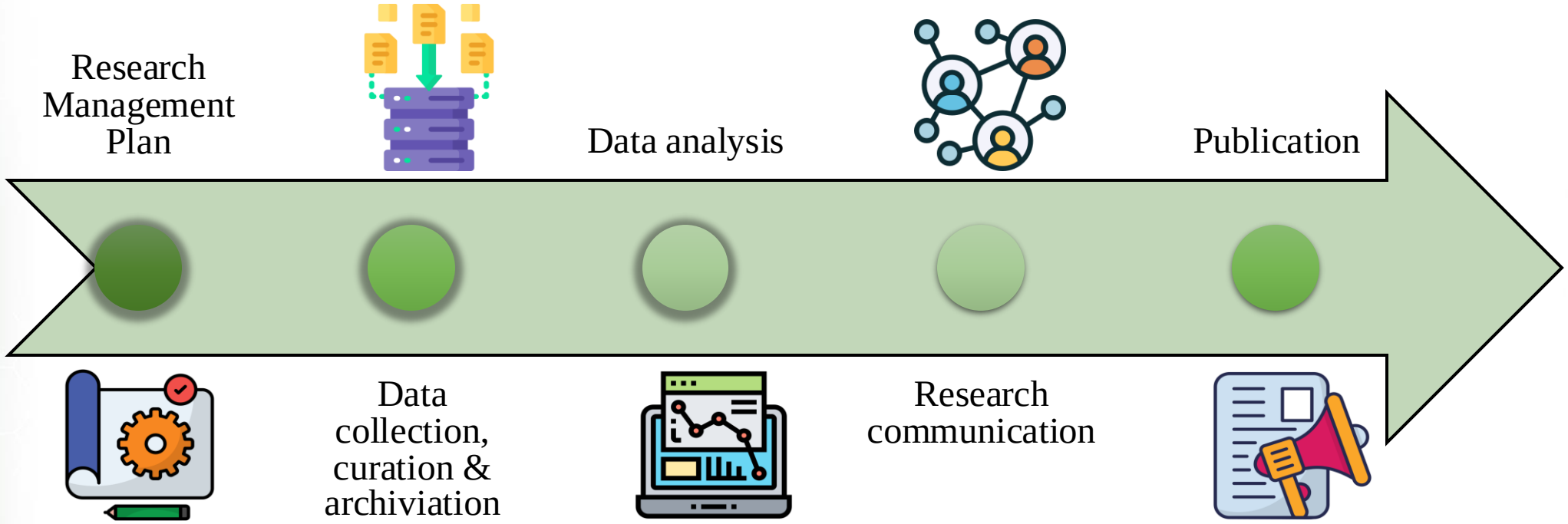
This work has been funded by the USEit project: https://www.lifewatchitaly.eu/en/pg-related-projects/useit/

Keywords

Thesaurus name	Keyword	Property Label	Property URI	Value Label	Value URI
Alien Species Thesaurus	Alien Species	keyword	http://www.w3.org/ns/dcat#keyword	Alien species	https://kos.lifewatch.eu/thesauri/alienspecies/c_1
Alien Species Thesaurus	Invasive	keyword	http://www.w3.org/ns/dcat#keyword	Invasive	https://kos.lifewatch.eu/thesauri/alienspecies/c_7
SeaDataNet device categories	beam trawls	keyword	http://www.w3.org/ns/dcat#keyword	beam trawls	http://vocab.nerc.ac.uk/collection/L05/current/62/
EuroVoc Core Concepts	Adriatic Sea	keyword	http://www.w3.org/ns/dcat#keyword	Adriatic Sea	http://eurovoc.europa.eu/5221

Public communication: GP 6





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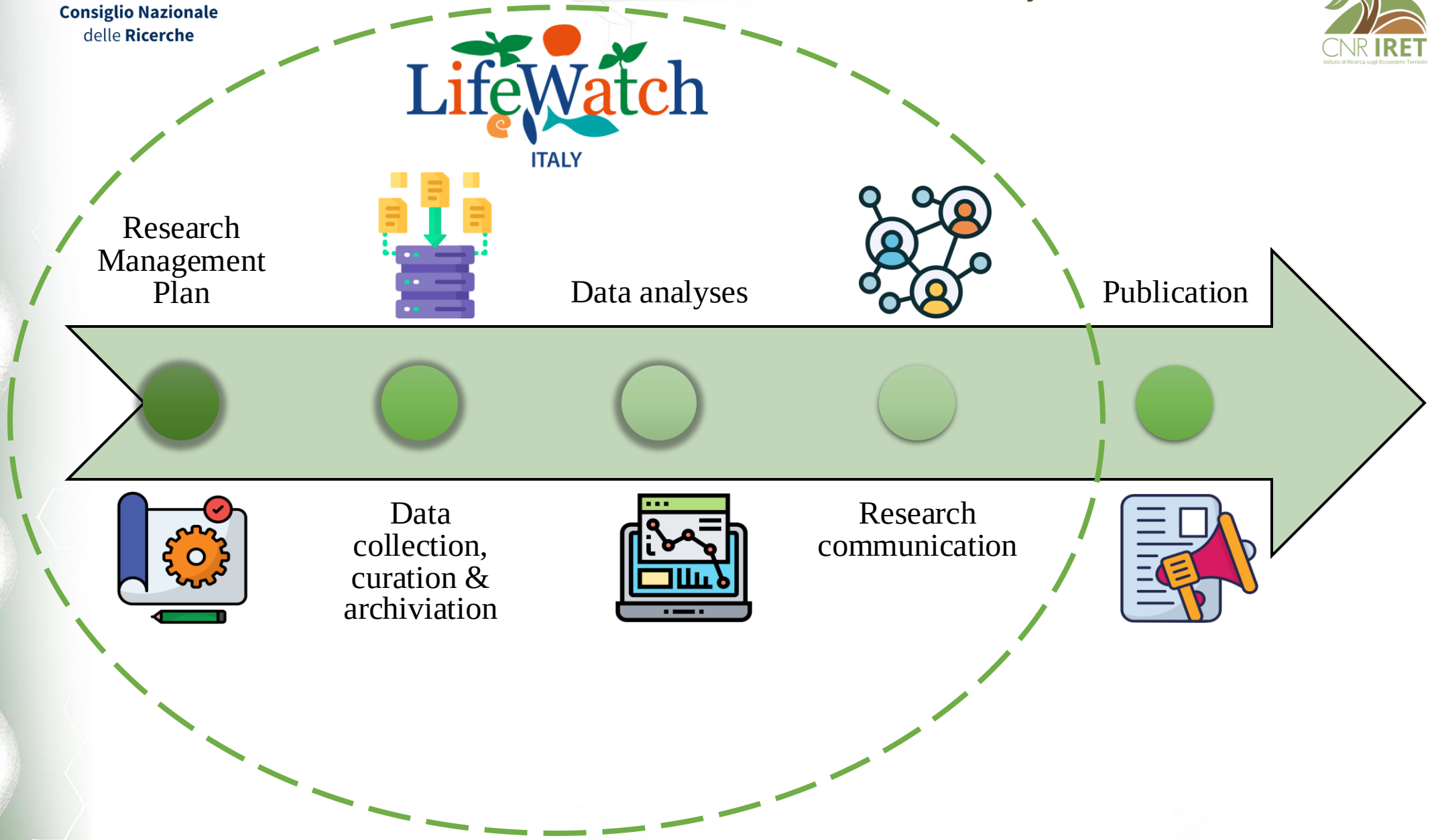
LifeWatch ITALY



Free icons taken from Flaticon.com

This shared and integrated approach provides technical and operational solutions for bioinvasion research and COULD develop new capabilities for IAS management.

Thank you!

We are grateful to all members and collaborators of the USEit team.