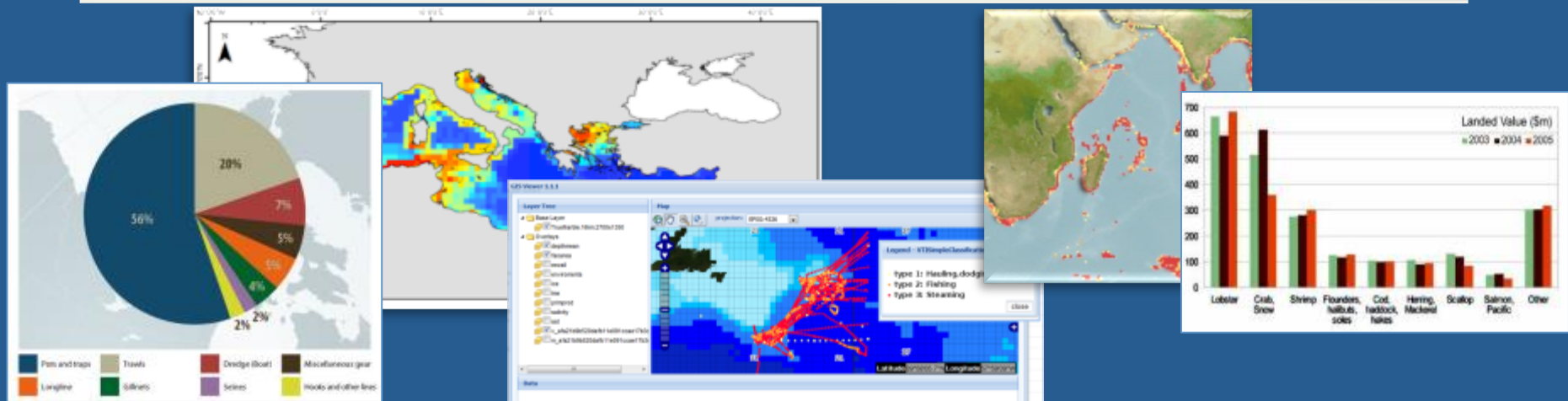
MARINE RESEARCH INFRASTRUCTURES AS BIG DATA PRODUCERS

Donatella Castelli
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(Italy)

Environment (Focus on Marine Research Infrastructures) Parallel Session

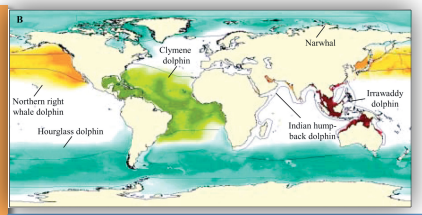
Defining appropriate conservation and policy measures for the sustainable exploitation of natural resources in the marine environment requires

comprehensive, multi-domain and good quality knowledge on the status of biodiversity and ecosystems and on marine resources exploitation and management



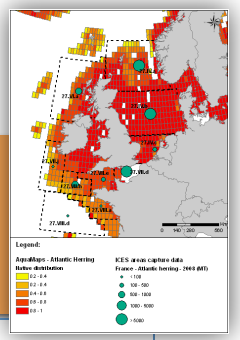
Few examples

Monitoring ecosystem health and trends



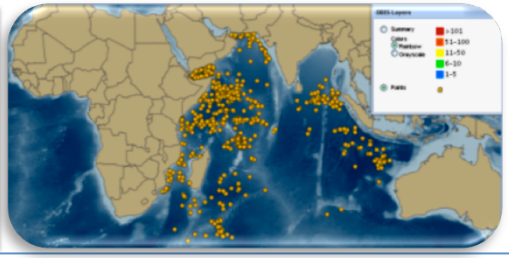
Species predictive maps

Fisheries management and policy making



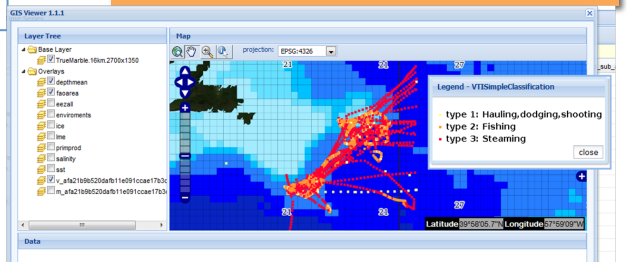
VMS and e-LogBook data

Reducing ecosystem impacts of Deep sea fishing on fragile ecosystems



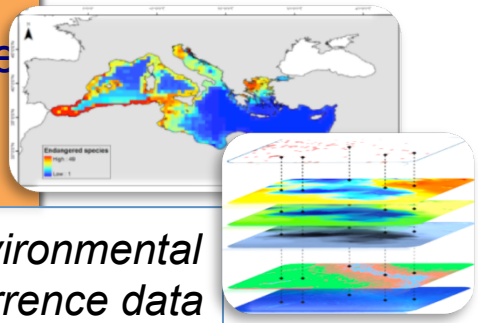
Maps of sensitive or fragile habitats

Reducing ecosystem impacts of Fishing on by-catch species



Scientific data collected on fishing vessels

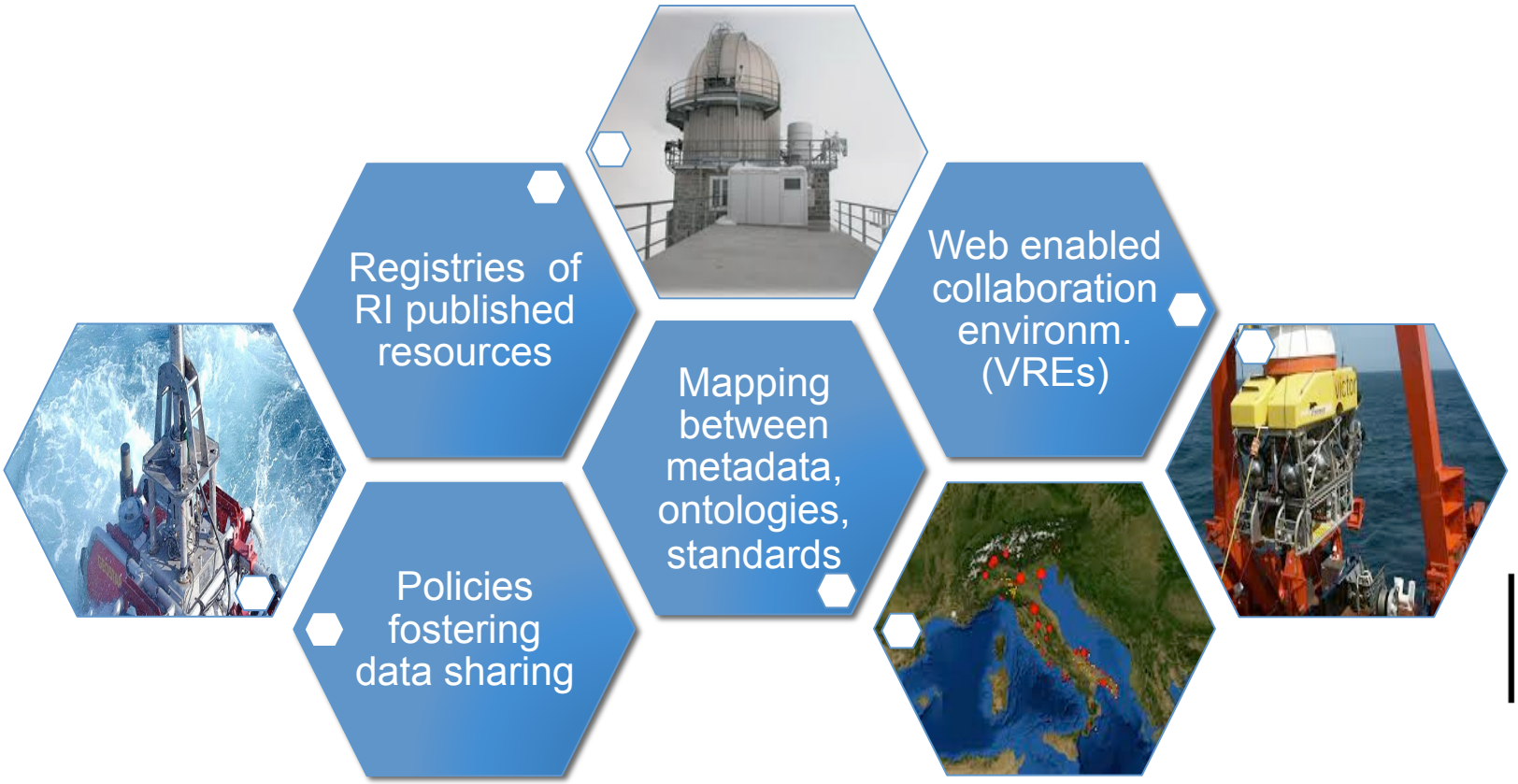
Identification of Sensitive or fragile habitats



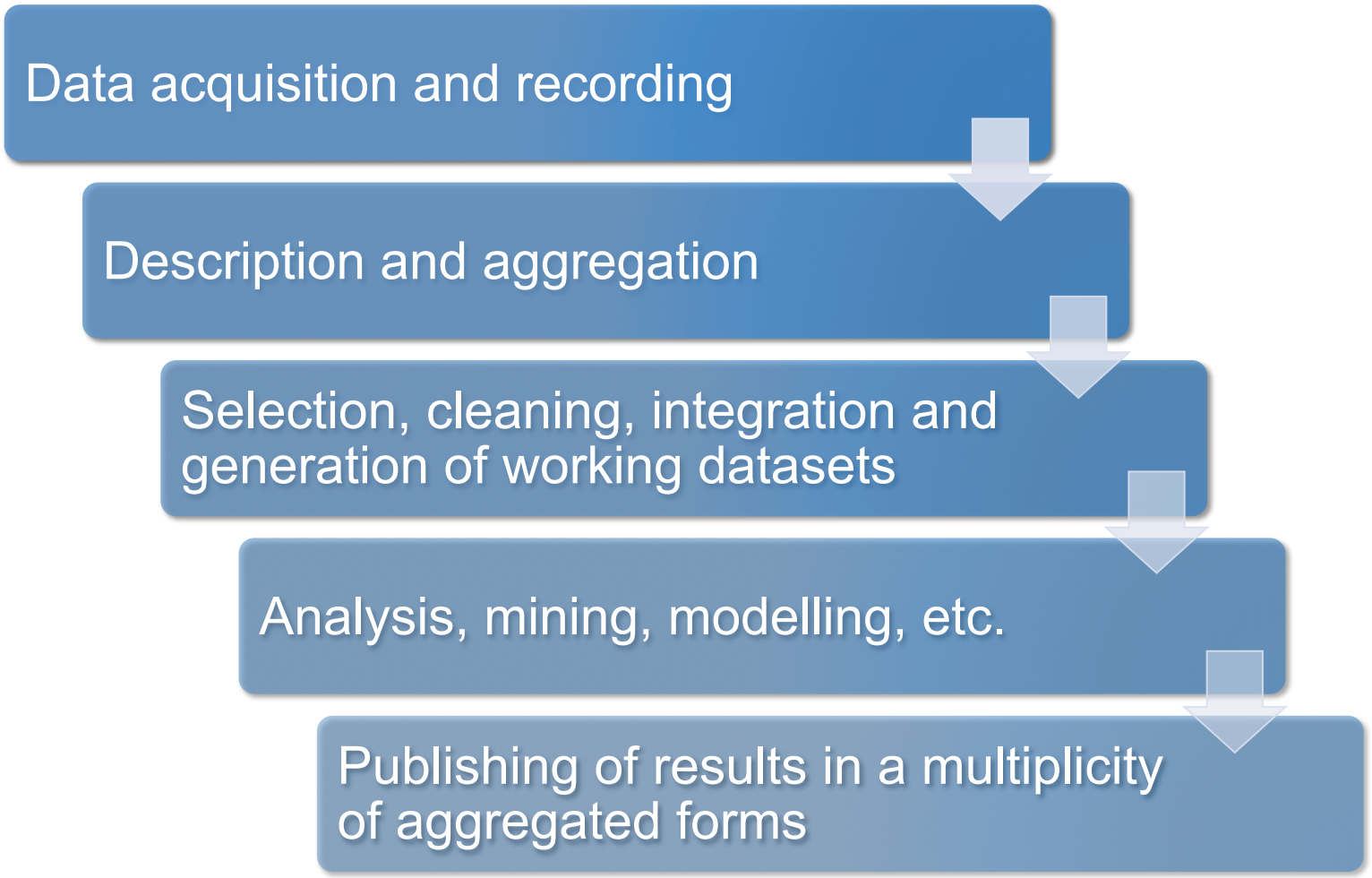
Biodiversity models and Environmental Enrichment of species occurrence data

1. Operating across RIs

Facilitate data access and multidisciplinary scientific collaboration across multiple international Research Infrastructures

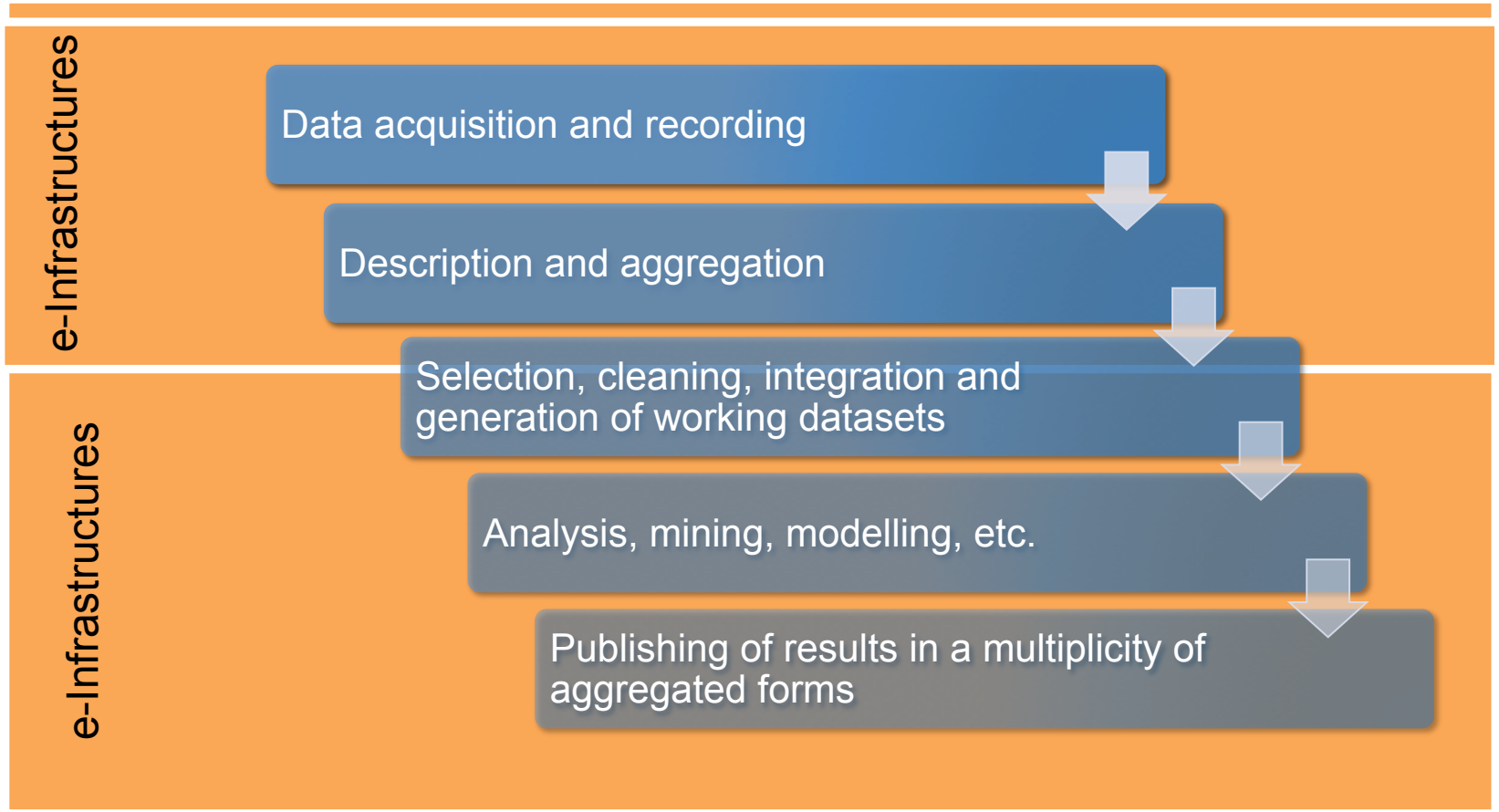


From data to knowledge



2. Exploiting (data) e-Infrastructure facilities

On-demand provision of higher level e-services tailored to the needs and skill of the researchers



3. Contributing to Open Data fostered innovation

Increase awareness and facilitate use of marine RIs open data to companies to enable the delivery of new products and services



- Clear access and usage polices
- Facilitated retrieval and access
- Standard data and metadata formats
- ….

Cross-fertilization between specific and generic solutions

