

EASIN

European Alien Species Information Network

Eugenio Gervasini – JRC EASIN Team







La Svezia dichiara guerra all'astice americano "È una specie aliena"

di ANDREA TARQUINI

http://www.repubblica.it/ambiente/2016/04/19/news/tarquini-137966384/?ref=HRLV-16





Outline

- Scope & approach of EASIN
- EASIN tools
- On going & future developments





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Support to European policy

- ❖ COM (2011) 244 an EU biodiversity strategy to 2020
- *** MSFD Descriptor 2: Non-indigenous species**
- ❖ REGULATION (EU) No 1143/2014 on the prevention and management of the introduction and spread of invasive alien species (IAS)

EASIN is being developed as the information support system as foreseen under Article 25 of Regulation 1143/2014





Why EASIN?

- Tackling alien species demands international collaboration, integration, harmonization of information and promotion of management coherence;
- 2. Sharing knowledge is a key issue when handling alien species;
- 3. Data discovery portal facilitating the exploration of information on alien species occurring in Europe from distributed sources, developing tools and web services, to assist AS management;



EASIN in a nutshell

- Developed by JRC with DG ENV financial support as a mechanism interconnecting existing databases enabling easy access to data and information on alien species (AS) in Europe, launched in 2012;
- Information on > 14,000 AS on: taxonomy, environment, gateways and pathways of introduction, impact and spatial data covering marine, freshwater and terrestrial organisms;
- EASIN is a network that promotes cooperation among information systems aiming at improving the quality of data and supporting the implementation of the European policy on biodiversity;

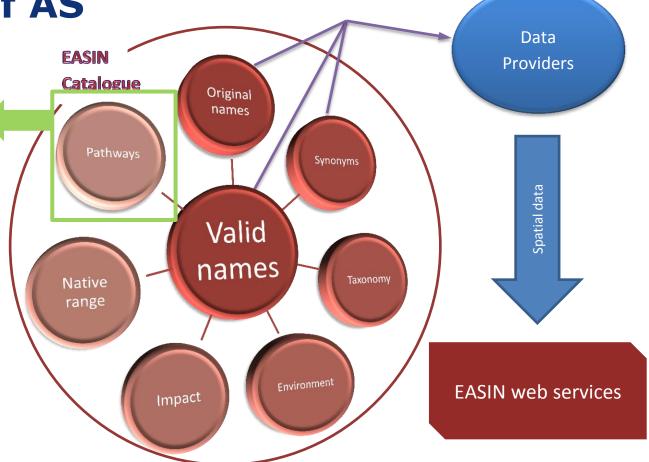




EASIN Catalogue: pan-European inventory of AS

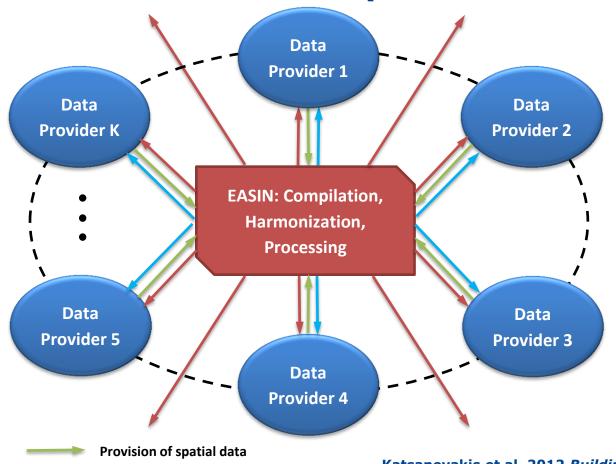
alignment based on CBD

1st version developed by integrating and reviewing information from 43 databases





Network of online interoperable web services



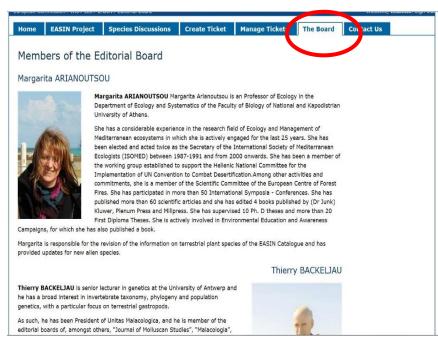
Provision of spatial data
Provision of services & tools
Links to more detailed information

Katsanevakis et al. 2012 Building the European Alien Species Information Network (EASIN): a novel approach for the exploration of distributed alien species data. BioInvasions Records 1: 235–245



Data Quality: EASIN Editorial Board

- systematic update of EASIN Catalogue
- data quality assurance
- participatory approach
- 28 Members
- On-line platform for discussion
- Working procedures



http://easin-eb.jrc.ec.europa.eu/





Data Quality: EASIN - Lit

- EASIN internal activity;
- Geodatabase providing data on species distribution (georeferenced records and distribution ranges) coming from the review of scientific literature and reports;



EASIN Current Database Partners

GBIF

GISIN

REABIC

ELNAIS

CIESM

HCMR-EEA

MEDMIS





















- On-going discussion on collaboration with more than 20 data partners, including: CABI, VLIZ, AQUANIS, EEIKO, NOBANIS, ESENIAS, MAMIAS, GRIIS; NCBI GenBank, EMBL-EBI European Nucleotide Archive;
- MS surveillance under Reg. 1143/2014 can feed into EASIN, as well as National and Regional data from Universities, Research centres, Public organizations (CAEN), ...;



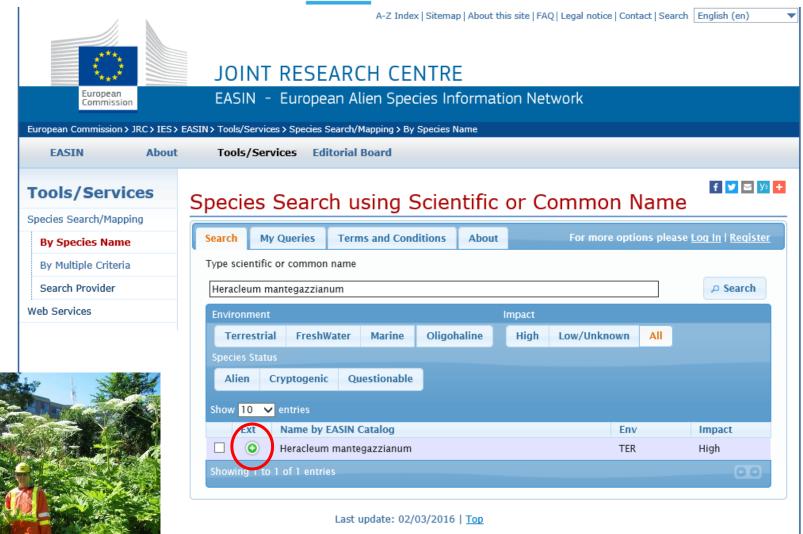


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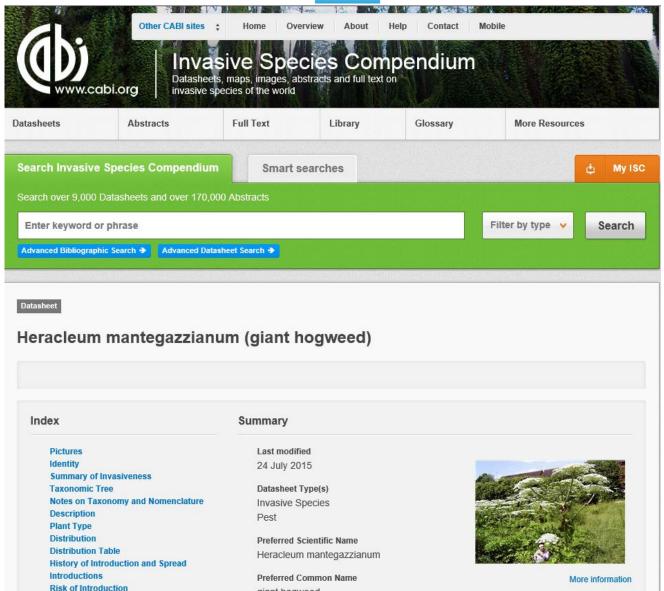




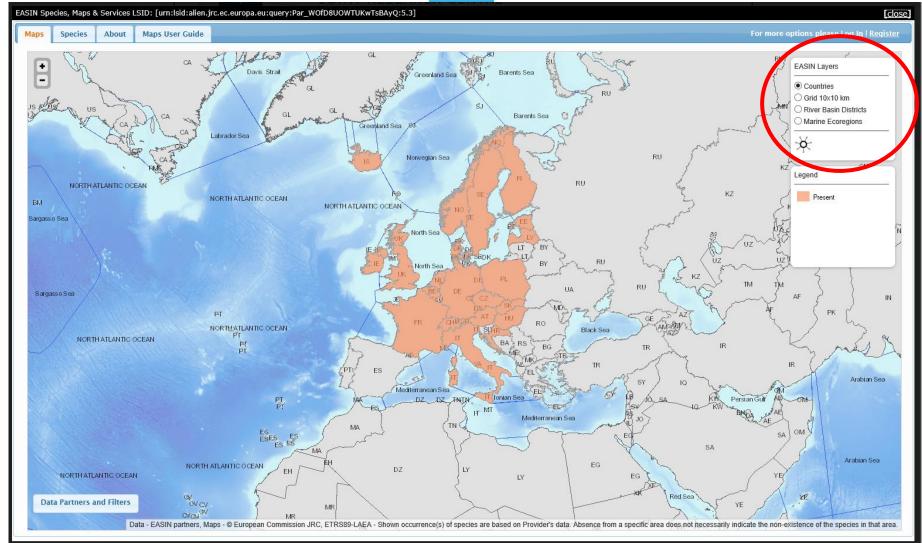


Research

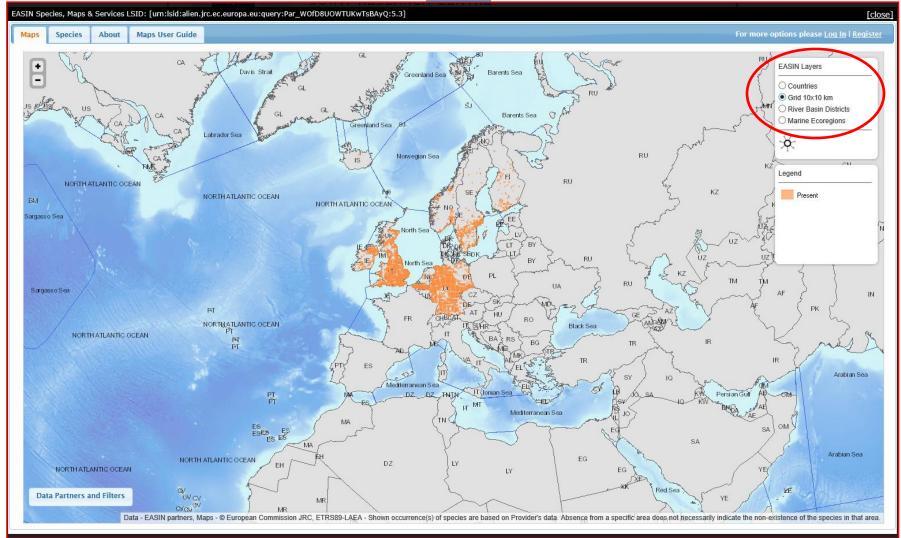




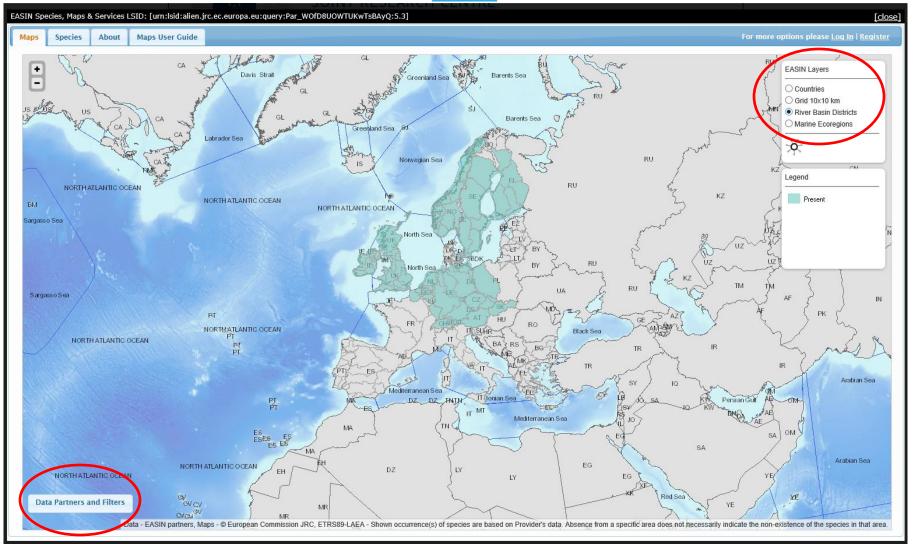




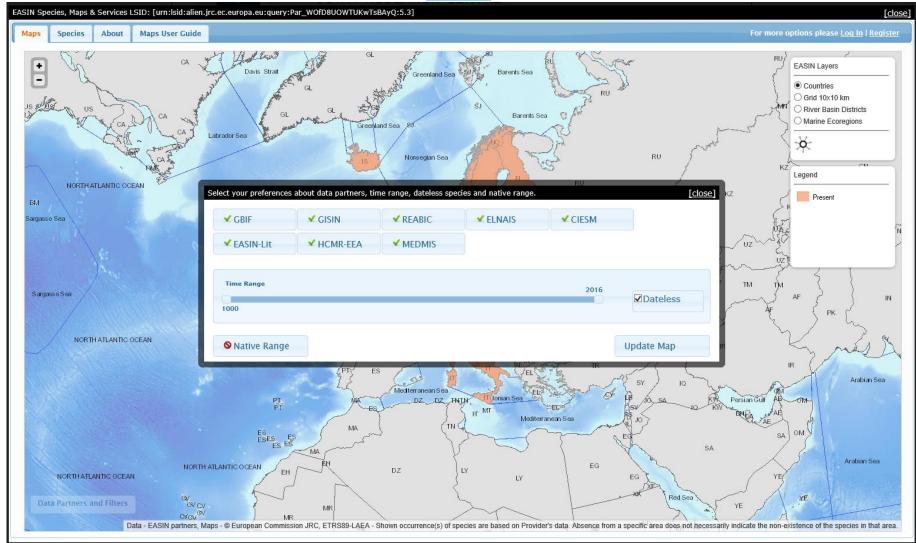




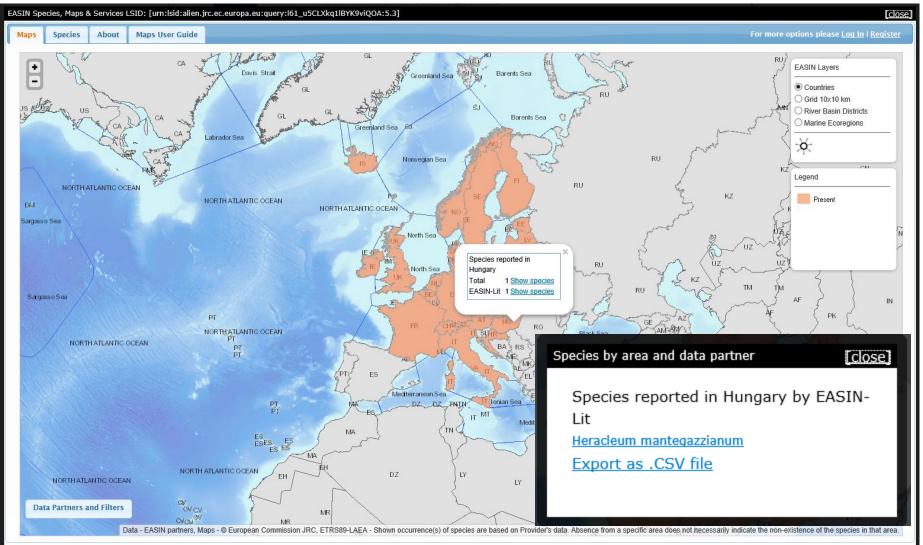














Original data provider for selected species

close

Original Data Providers

545.

Url (if

http://goo.gl/me0ysM available):

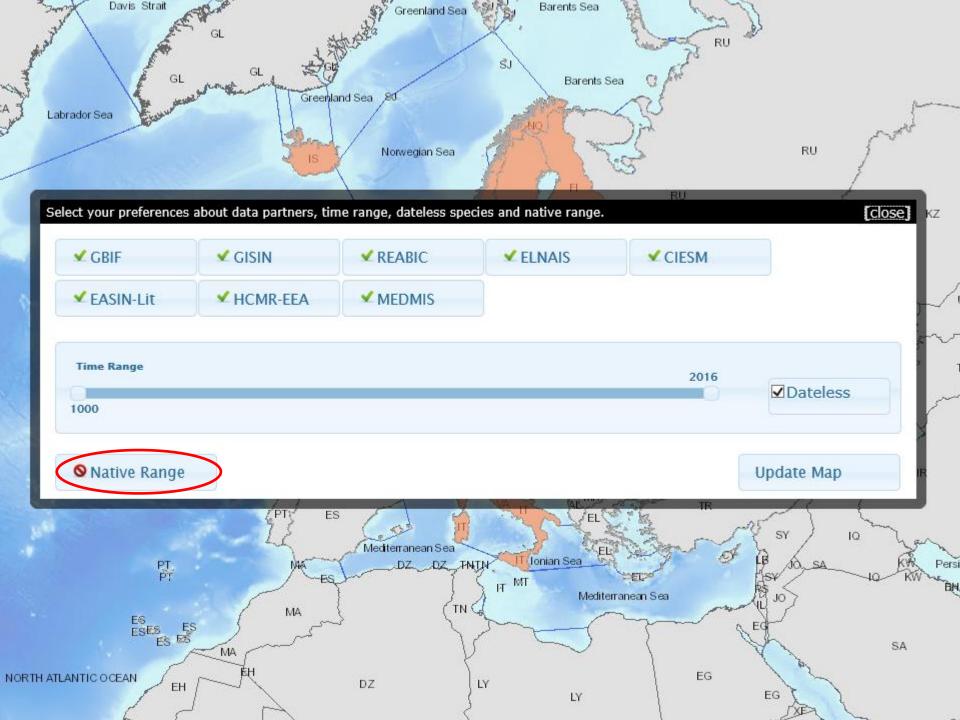
Name: Brummitt RK, 1968. Heracleum L. In: Tutin, TG, Heywood VH, Burges NA, Moore DM, Valentine DH, Walters SM, Webb DA, eds. Flora Europaea, Vol. 2. Rosaceae to Umbelliferae. Cambridge, UK: Cambridge University Press.

Kovács, A. Z., & Nádasy-Ihárosi, E. (2014). Allelopathy of tree of heaven (Ailanthus altissima), common milkweed (Asclepias syriaca) and giant hogweed (Heracleum mantegazzianum) on maize. Növényvédelem, 50(12), 537-

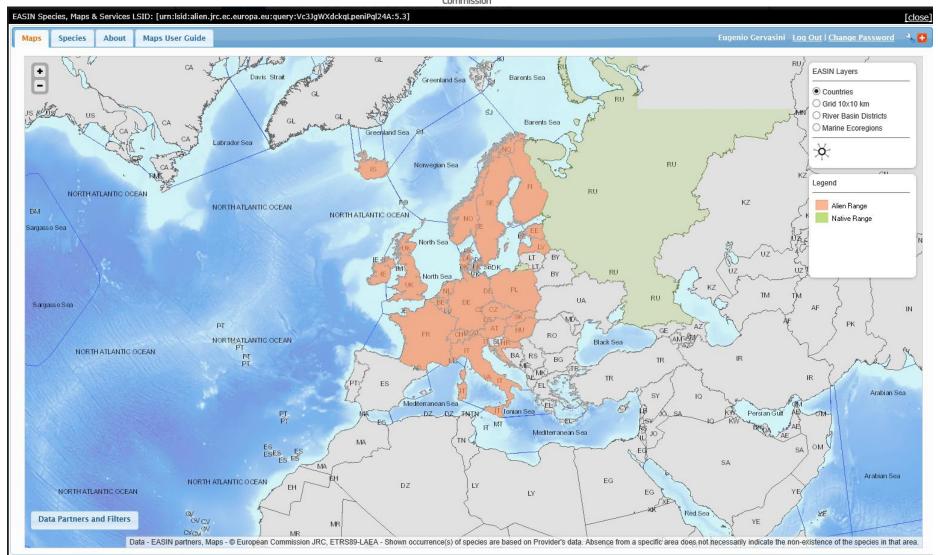
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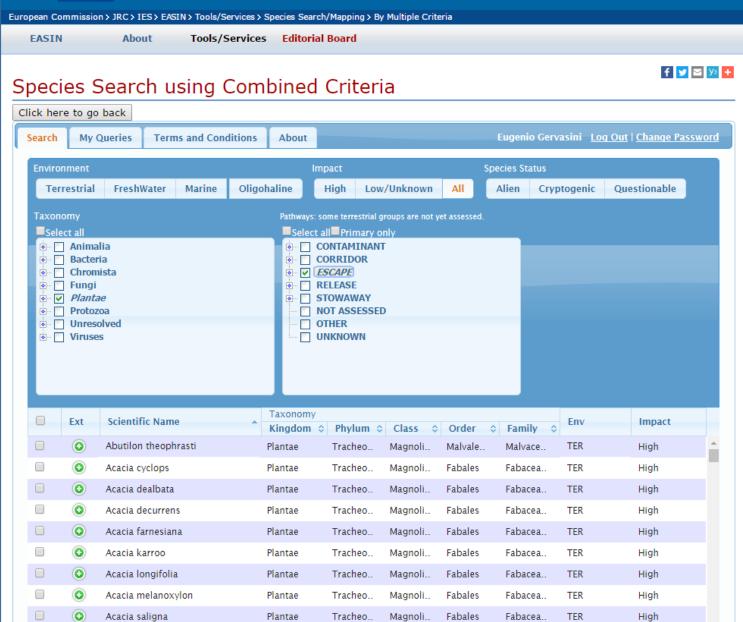




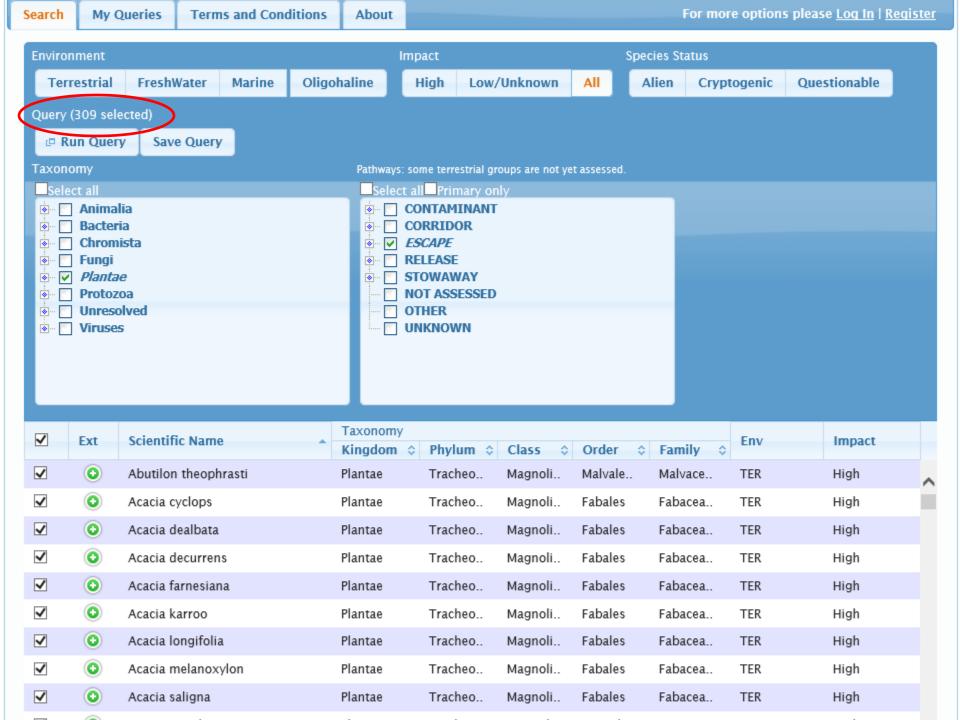


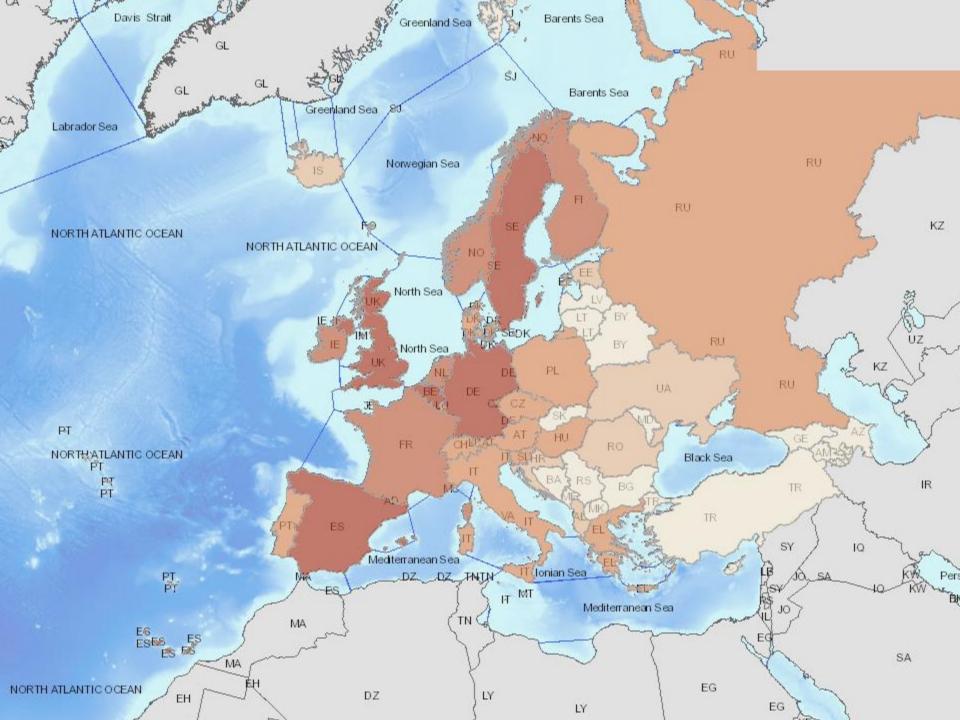
JOINT RESEARCH CENTRE

EASIN - European Alien Species Information Network



▾









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marine alien molluscs

CSS Based

DesignBump

R Digg

Digzign

doMelhor

http://easin.jrc.ec.europa.eu/data/aggregations?lsid=urn:lsid:alien.jrc.ec....



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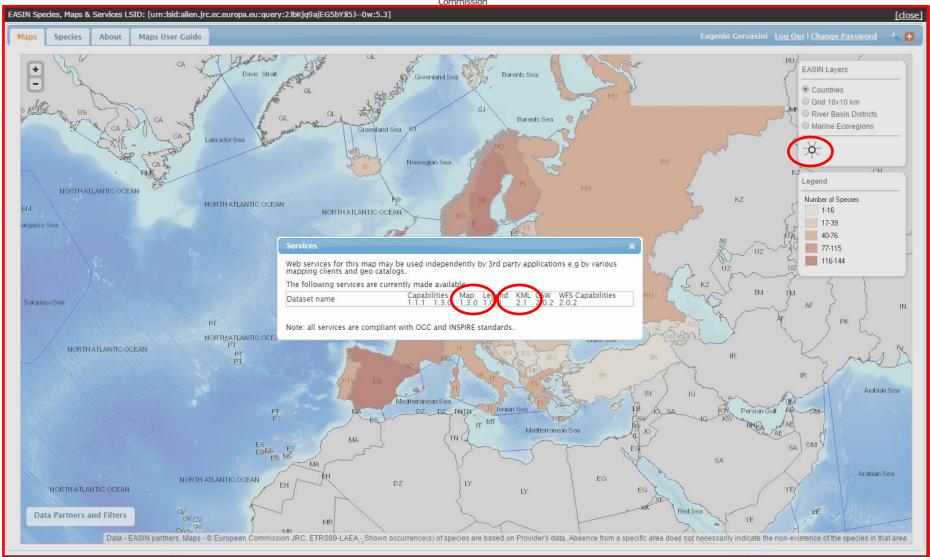
Delicious

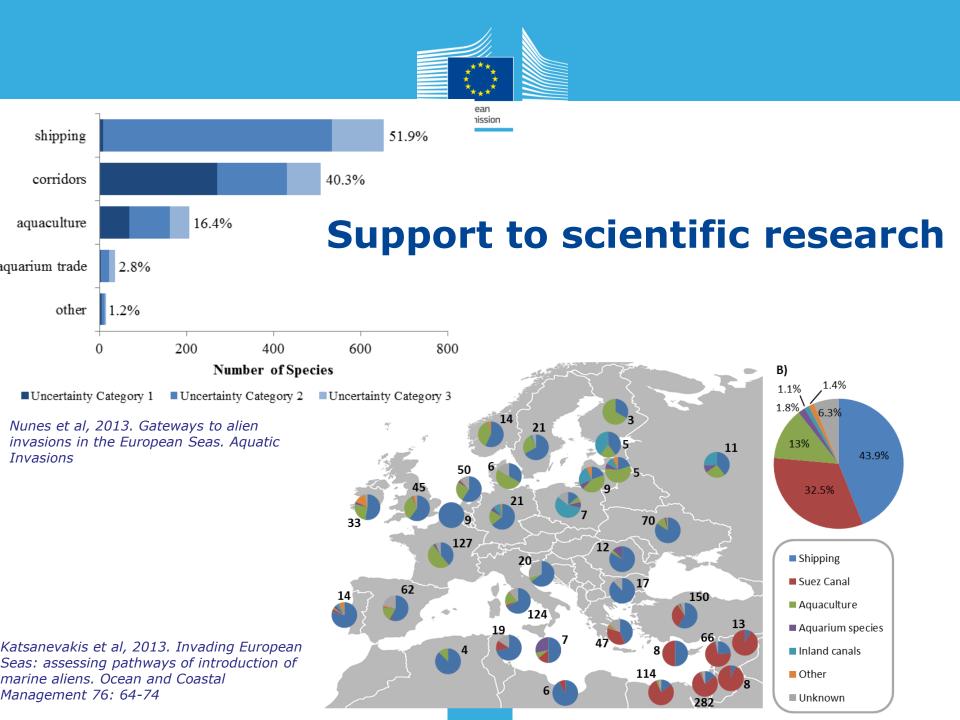
Digo

DIP Dipdive DotNetKicks

dc DigaCultura









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Current activities

- EASIN website updates (widgets, maps, "news", links, photos, registration, etc)
- Updated EASIN Catalogue (v.5.3), including:
 - updated higher taxonomy revision, revision of terrestrial plants (7,000 species)
 - fixed nomenclatura issues of further 1300 records (typos, valid names, synonyms, autonyms) Revised EASIN protocol
 - updated common names
- new alien species entries and spatial records through EASIN-Lit



Current activities

- > Terrestrial Mollusca revision
- Mediterranean marine species updates Land plants updates
- > 80 priority IAS spatial occurrences (including the List of Union concern) updated through dedicated literature review
- Updated Geo Database released (v.2.6)





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LABORAT PROPER

1. NOTYFICAT

2. New website



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WHEN SHARES



On-going and future developments in EASIN

- 1. Revision of pathways according to CBD categorization
- 2. Guidelines, best practices
- 3. Citizen science (raising awareness, involvement in detection)
- 4. Data mining & Horizon scanning
- 5. Modeling





Thank you for your attention!

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