



EU Policy on Invasive Alien Species

Myriam Dumortier

European Commission

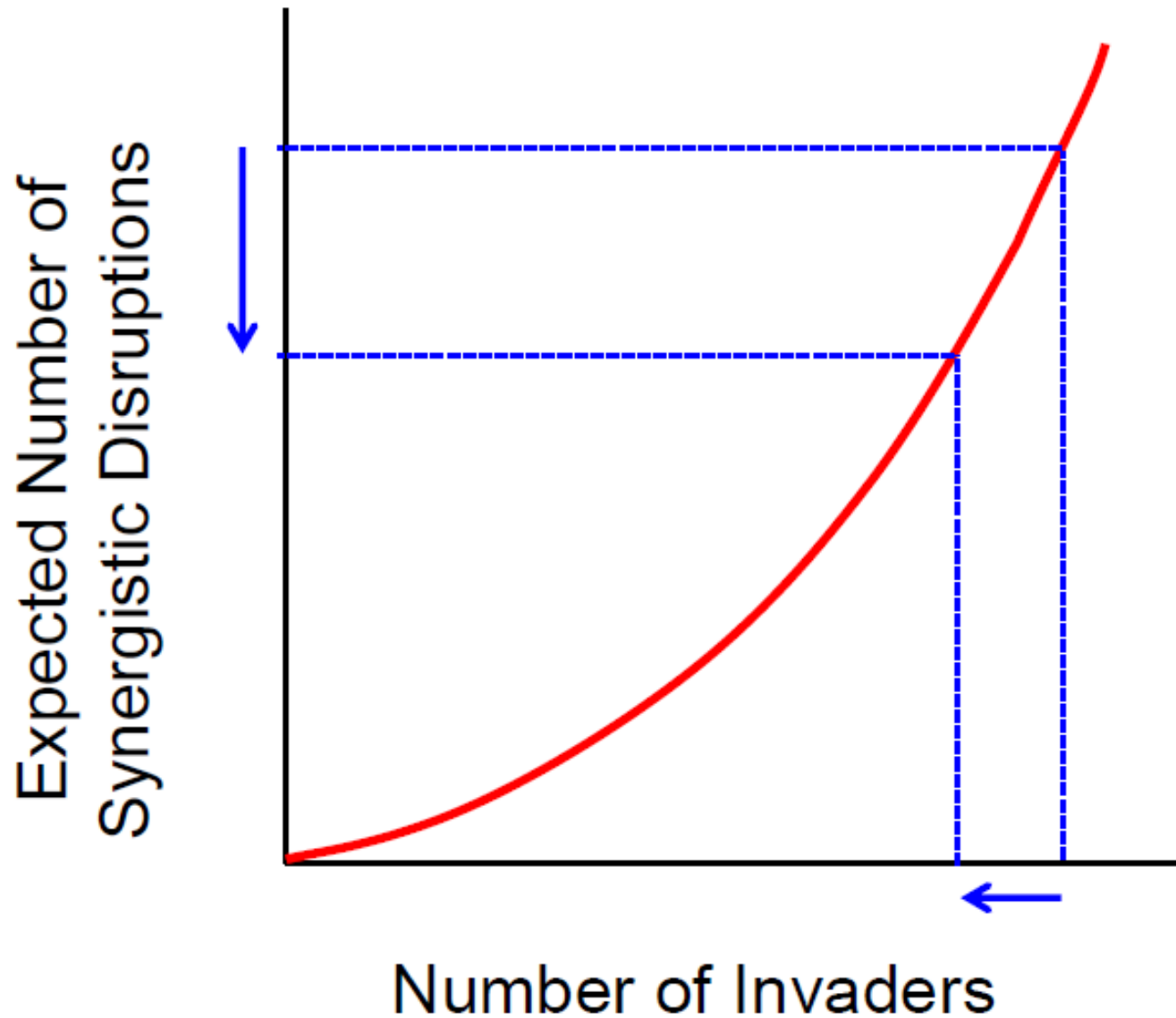
DG Environment – Biodiversity Unit

Nordic Platform Meeting

10-12 September 2019

Tønder, Denmark

Predicted consequence of an uncontrolled invasion rate



Regulation (EU) 1143/2014 on Invasive Alien Species

- **Chapter 1: General provisions**

- Chapter 2:

Prevention

- Chapter 3:

Early Detection and Rapid Eradication

- Chapter 4:

Management of established IAS

- Chapter 5: Horizontal provisions

- Chapter 6: Final provisions

Core of the Regulation: List of IAS of Union concern

- IAS of Union concern -> action at Union level is required
- Development of list based on risk assessment and criteria
- Dynamic list, developed and updated with the assistance of
 - **Scientific Forum (advice on scientific questions)**
 - **Committee (agreement of the Member States)**

Identifying species for risk assessment

- Horizon scanning
- Other sources (LIFE-projects?)
- Proposals from Member States
- Within the scope of the Regulation!

Excluded:

- pathogens causing animal diseases
- organisms harmful to plants or plant products
- GMOs
- aquaculture species in Annex IV of Regulation (EC) 708/2007
- species native to part of the Union territory
- species changing range due to climate change without human intervention

A prioritised list of invasive alien species to assist the effective implementation of EU legislation

Carles Carboneras¹ | Piero Genovesi² | Montserrat Vilà³ | Tim M. Blackburn⁴ |
Martina Carrete⁵ | Miguel Clavero³ | Bram D'hondt⁵ | Jorge F. Orueta⁶ |
Belinda Gallardo⁷ | Pedro Geraldes⁸ | Pablo González-Moreno⁹ | Richard D. Gregory¹ |
Wolfgang Nentwig¹⁰ | Jean-Yves Paquet¹¹ | Petr Pyšek^{12,13} | Wolfgang Rabitsch¹⁴ |
Iván Ramírez¹⁵ | Riccardo Scalera¹⁶ | José L. Tella³ | Paul Walton¹⁷ | Robin Wynde¹

Biol Invasions (2018) 20:1611–1621
<https://doi.org/10.1007/s10530-017-1651-6>

ORIGINAL PAPER

More than “100 worst” alien species in Europe

Wolfgang Nentwig¹⁰ · Sven Bacher¹¹ · Sabrina Kumschick¹² · Petr Pyšek¹³ ·
Montserrat Vilà³

14 new RA's under preparation



<i>Ameiurus melas</i>	Black bullhead
<i>Ameiurus nebulosus</i>	Brown bullhead
<i>Axis axis</i>	Chital or spotted deer
<i>Boccardia proboscidea</i>	A spionid worm
<i>Channa argus</i>	Northern snakehead
<i>Fallopia baldschuanica</i>	Russian vine
<i>Fallopia japonica</i>	Japanese knotweed
<i>Fallopia sachalinensis</i>	Giant knotweed
<i>Fallopia x bohemica</i>	Bohemian knotweed
<i>Phytolacca americana</i>	American pokeweed
<i>Pterois miles</i>	Common lionfish
<i>Pycnonotus cafer</i>	Red-vented bulbul
<i>Schizoporella japonica</i>	A bryozoan
<i>Wasmannia auropunctata</i>	Electric ant

Risk assessments

- Have to comply with regulatory criteria:
 - Article 5 of Regulation 1143/2014
 - Delegated Regulation 2018/968



- Drafts are public and open to comments, including information from LIFE-projects
- Approval subject to opinion of the Scientific Forum
- RA describe risks = not an opinion whether to list

Challenges:

- Uncertainties (likely future distribution, potential future impact, impact of climate change...)

16 new RA's under review by the Scientific Forum

<i>Callosciurus finlaysonii</i>	Finlayson's squirrel
<i>Castor canadensis</i>	Canadian beaver
<i>Celastrus orbiculatus</i>	Oriental bittersweet
<i>Cydalima perspectalis</i>	Box tree moth
<i>Fundulus heteroclitus</i>	Mummichog
<i>Hemigrapsus sanguineus</i>	Asian shore crab
<i>Lagocephalus sceleratus</i>	Silver-cheeked toadfish
<i>Micropterus dolomieu</i>	smallmouth bass
<i>Morone americana</i>	White perch
<i>Perna viridis</i>	Asian Green mussel
<i>Polygonum polystachyum</i>	Himalayan Knotweed
<i>Rapana venosa</i>	Veined rapa whelk
<i>Solenopsis geminata</i>	Tropical fire ant
<i>Solenopsis richteri</i>	Black Imported Fire Ant
<i>Spartina pectinata</i>	Prairie cordgrass
<i>Xenopus laevis</i>	African clawed frog

8 RA's in the approval process



Ambrosia confertiflora (minor revisions)	Weakleaf burr ragweed
Solenopsis Invicta (approved)	Red imported fire ant
Hakea sericea (approved)	Needlebush
Lampropeltis getula (ready for approval)	Common kingsnake
Gambusia affinis (ready for approval)	Western mosquito fish
Gambusia holbrooki (ready for approval)	Eastern mosquito fish
Limnoperna fortune (under revision)	Golden mussel
Orconectes / Faxonius rusticus (under revision)	Rusty crayfish

If you have experiences/documentation that could improve the RA's

➤ please send to ENV-IAS@ec.europa.eu

Inclusion of species on the Union list

- Examination of compliance with regulatory criteria – Article 4(2) of Regulation (EU) 1143/2014
- Consideration of implementation cost; cost of inaction; cost-effectiveness (**including experiences from LIFE-projects**) and socio-economic aspects - Article 4(6)
- Subject to the positive opinion of the IAS Committee
= Member States vote!

Challenges:

- Achieve agreement on priorities at Union level
- Balance biodiversity impact / uncertainties / costs / benefits ...

Water hyacinth



The Union list: 66 species

- Initial list: Implementing Regulation 2016/1141



Asian
hornet



Skunk
cabbage

- 1st update: Implementing Regulation 2017/1263



Himalayan
balsam



Muskrat

- 2nd update: Implementing Regulation 2019/1262

2nd update: Implementing Regulation 2019/1262 (a) 13 plants

Acacia saligna	Golden wreath wattle
Ailanthus altissima	Tree of heaven
Andropogon virginicus	broomsedge bluestem
Cardiospermum grandiflorum	Balloon vine
Cortaderia jubata	purple pampas grass
Ehrharta calycina	perennial veldtgrass
Gymnocoronis spilanthoides	Senegal tea plant
Humulus scandens	Japanese hop
Lygodium japonicum	Vine-like fern
Lespedeza cuneata	Chinese bushclover
Prosopis juliflora	Mesquite
Salvinia molesta	Salvinia moss
Triadica sebifera	Chinese tallow

2nd update: Implementing Regulation 2019/1262 (b) 4 animals

Acridotheres tristis	Common myna
Arthurdendyus triangulatus	New Zealand flatworm
Lepomis gibbosus	Pumpkinseed
Plotosus lineatus	Striped eel catfish

Action triggered by the Union list

Prevention of new introductions or further spread	<ul style="list-style-type: none">• Restrictions on intentional activities• Pathway management to tackle unintentional introductions
Early detection and rapid eradication of new populations	<ul style="list-style-type: none">• Surveillance & official controls• Early detection and notification• Rapid eradication
Management	<ul style="list-style-type: none">• Management measures for widely spread species

LIFE-projects may support all stages of action
➤ more focus needed on prevention



Implementation by Member States

- Concerted action (on IAS of Union concern): border control, surveillance, notification, rapid eradication, management
- Pathway action plans
- Lists of IAS of MS concern, IAS of Regional concern



Challenges:

- Allocation of limited resources
- Selection of most appropriate measures (e.g. lethal or non-lethal measures)
- Public opinion (animal welfare, use of pesticides, pets...)
- Sectoral interests

...

Raccoon



NOTSYS – notifications submitted up to now

68 notifications, on 24 IAS, by 19 MS

Alopochen aegyptiaca (SE)	Myriophyllum aquaticum (ES)
Alternanthera philoxeroides (ES, NL)	Nasua nasua (DE, UK)
Cabomba caroliniana (DE)	Orconectes limosus (EE)
Corvus splendens (IT)	Oxyura jamaicensis (DE, DK)
Eichhornia crassipes (DE)	Persicaria perfoliata (NL)
Hydrocotyle ranunculoides (IE)	Procambarus clarkii (CY, NL, SI)
Lagarosiphon major (IE, PT)	Procambarus fallax f. virginalis (AT, CZ, EE)
Lithobates catesbeianus (ES)	Procyon lotor (IE, NL)
Ludwigia peploides (DE, HR, ES)	Pueraria montana v.lobata (HR, SI)
Lysichiton americanus (SI)	Tamias sibiricus (SE)
Muntingia calabura (BE, FR, DE, IE)	Threskiornis aethiopicus (HR, DK, DE)
Myocastor coypus (HU, IE, LU)	Vespa velutina (BE, DE, NL, UK)

NOTSYS – notifications submitted up to now

Results:

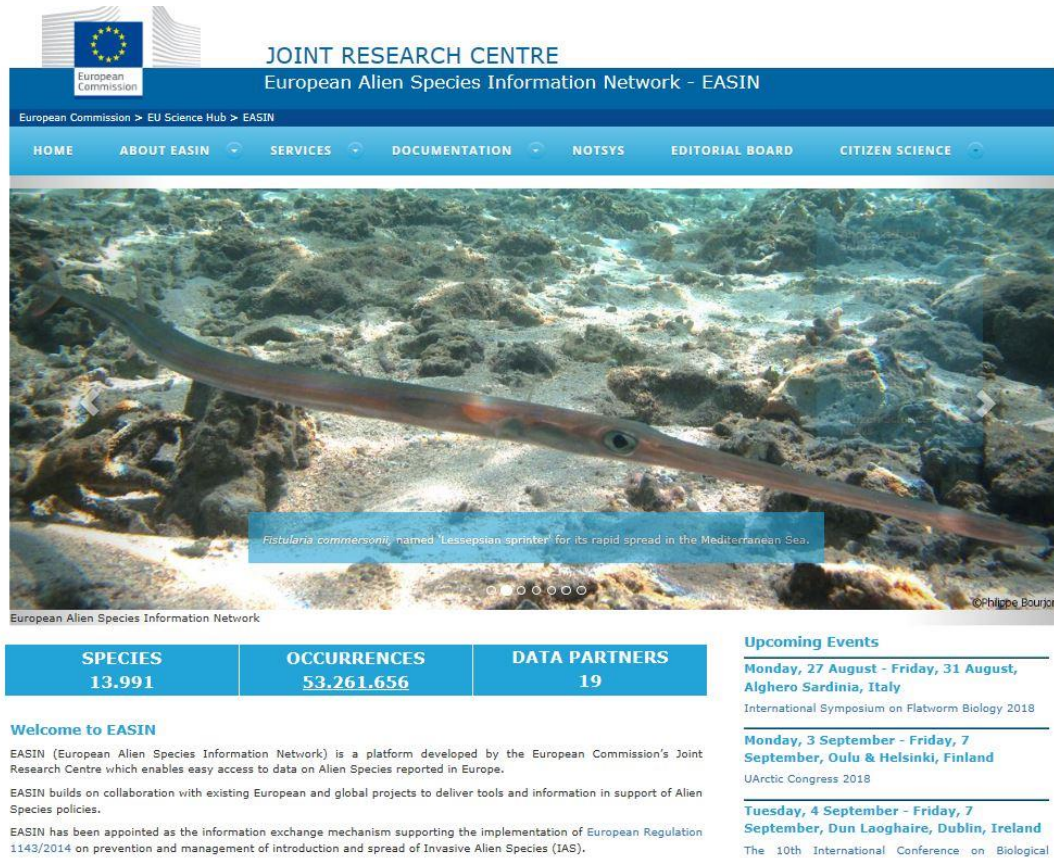
- 22 confirmed eradications
- 24 ongoing eradications
- 9 waiting eradication measures
- 13 not eradicated:
6 *Vespa velutina*, 3 *Oxyura jamaicensis*, 1 *Procyon lotor*, 1 *Persicaria perfoliata*, 1 *Cabomba caroliniana*, 1 *Orconectes limosus*

➤ <https://easin-notsys.jrc.ec.europa.eu>



European Commission

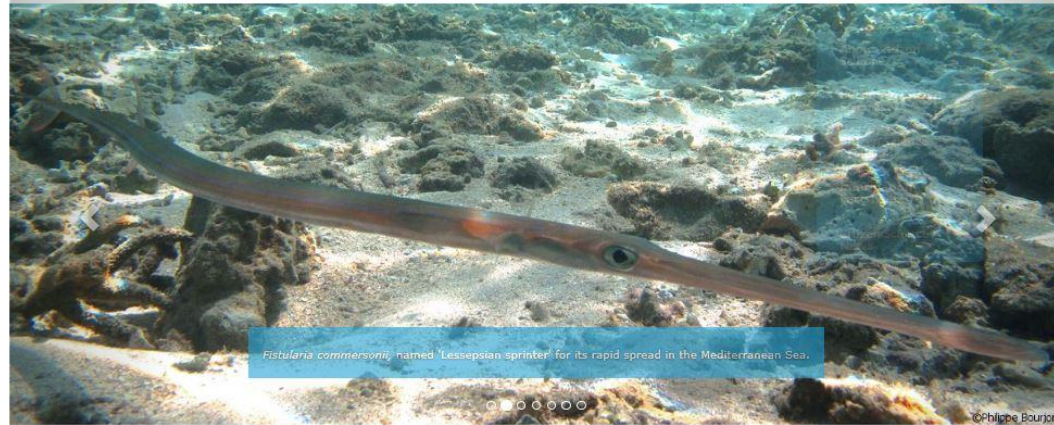
EASIN: species search and mapping



JOINT RESEARCH CENTRE
European Alien Species Information Network - EASIN

European Commission > EU Science Hub > EASIN

HOME ABOUT EASIN SERVICES DOCUMENTATION NOTSYS EDITORIAL BOARD CITIZEN SCIENCE



Fistularia commersonii, named 'Lessepsian sprinter' for its rapid spread in the Mediterranean Sea.

European Alien Species Information Network

SPECIES	OCCURRENCES	DATA PARTNERS
13.991	53.261.656	19

Welcome to EASIN

EASIN (European Alien Species Information Network) is a platform developed by the European Commission's Joint Research Centre which enables easy access to data on Alien Species reported in Europe.

EASIN builds on collaboration with existing European and global projects to deliver tools and information in support of Alien Species policies.

EASIN has been appointed as the information exchange mechanism supporting the implementation of European Regulation 1143/2014 on prevention and management of introduction and spread of Invasive Alien Species (IAS).

Upcoming Events

Monday, 27 August - Friday, 31 August, Alghero Sardinia, Italy
International Symposium on Flatworm Biology 2018

Monday, 3 September - Friday, 7 September, Oulu & Helsinki, Finland
UArctic Congress 2018

Tuesday, 4 September - Friday, 7 September, Dun Laoghaire, Dublin, Ireland
The 10th International Conference on Biological



JRC SCIENCE FOR POLICY REPORT

Baseline Distribution of Invasive Alien Species of Union concern

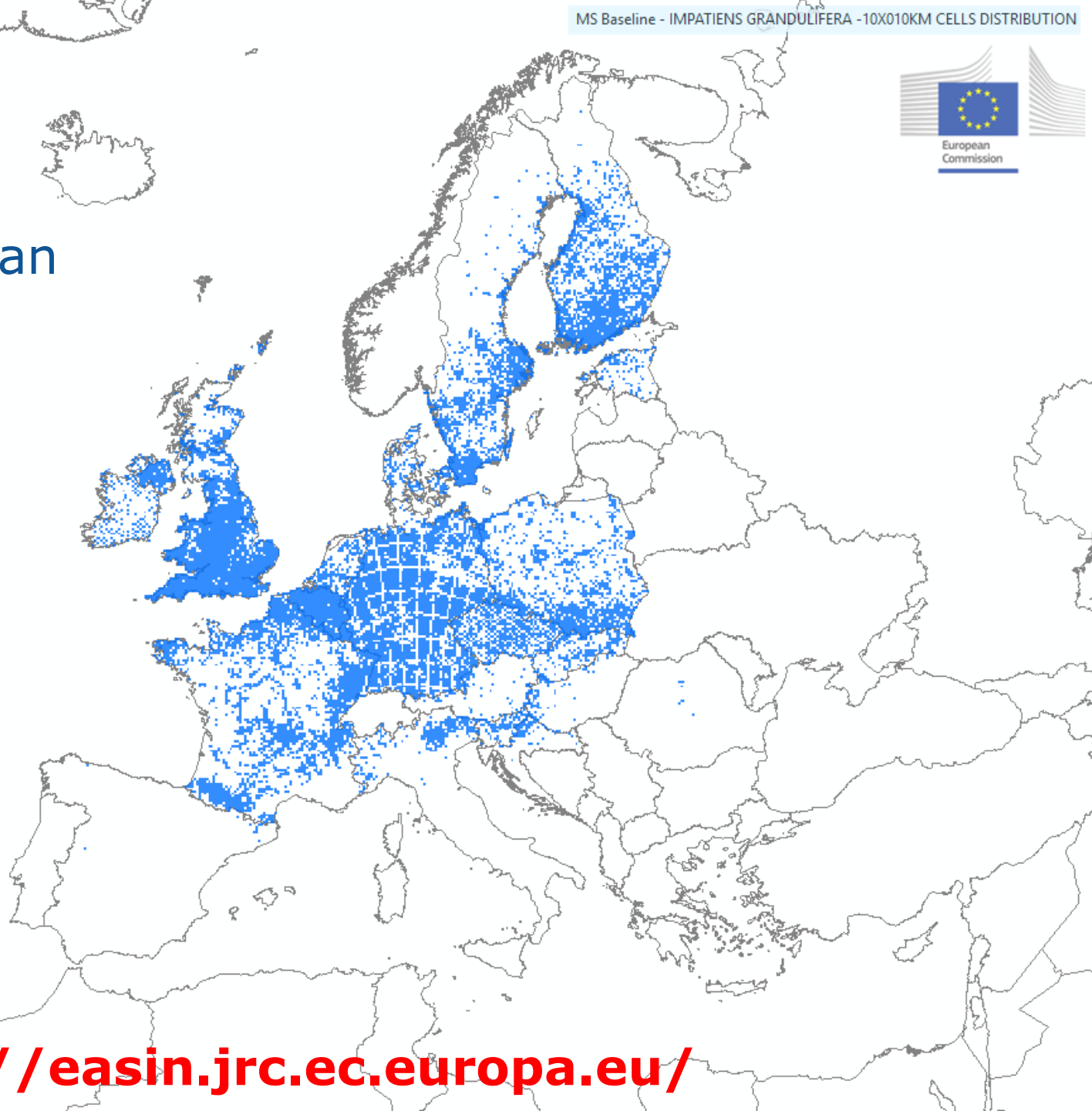
Talanda K., Gonzalez S., Doris T., D'Amico F., Nunes AL, Adgardo AM, Cardoso AC



<http://easin.jrc.ec.europa.eu/>

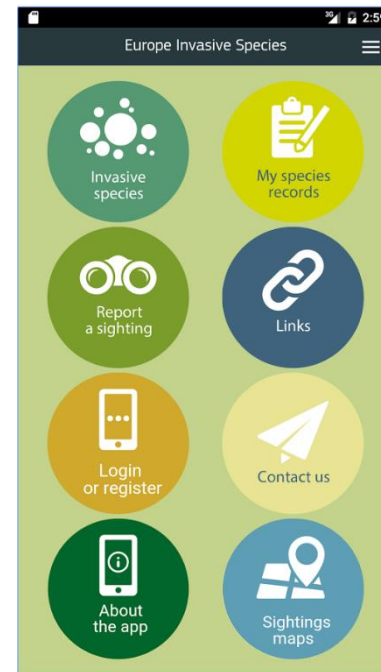
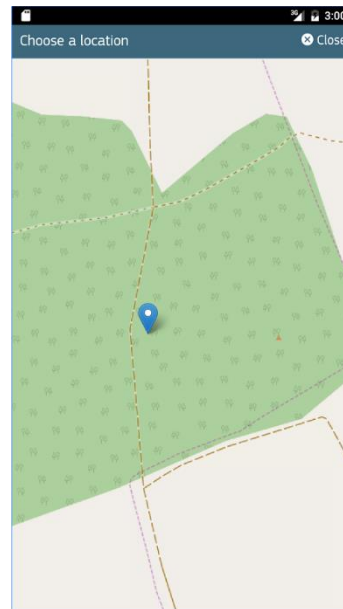
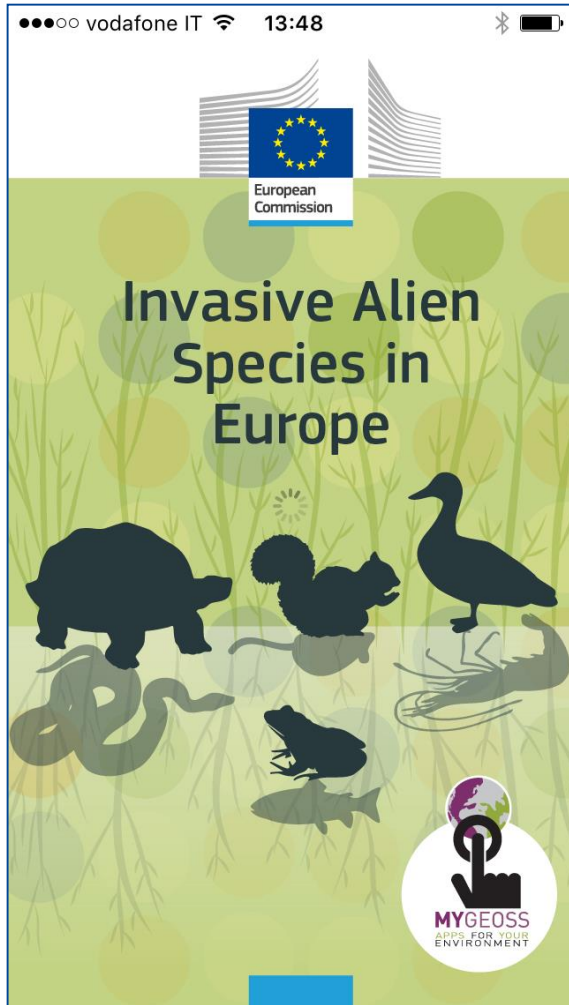


Himalayan balsam



<http://easin.jrc.ec.europa.eu/>

Invasive Alien Species Smartphone Application



Financial support

- **LIFE**



- Regional policy



- Research funding



- Rural development

- European Maritime and Fisheries Fund (EMFF)

Studies and contracts

- Technical support to the implementation of the Regulation, including useful information for LIFE-projects
 - **Measures and costs per species**
 - **Non-lethal measures**
 - **Identification guides**
 - **Categories of pathways**
 - ...
 - Risk assessments
 - Humane management of vertebrate IAS
 - Improvement of understanding and communication on IAS
- http://ec.europa.eu/environment/nature/invasivealien/index_en.htm

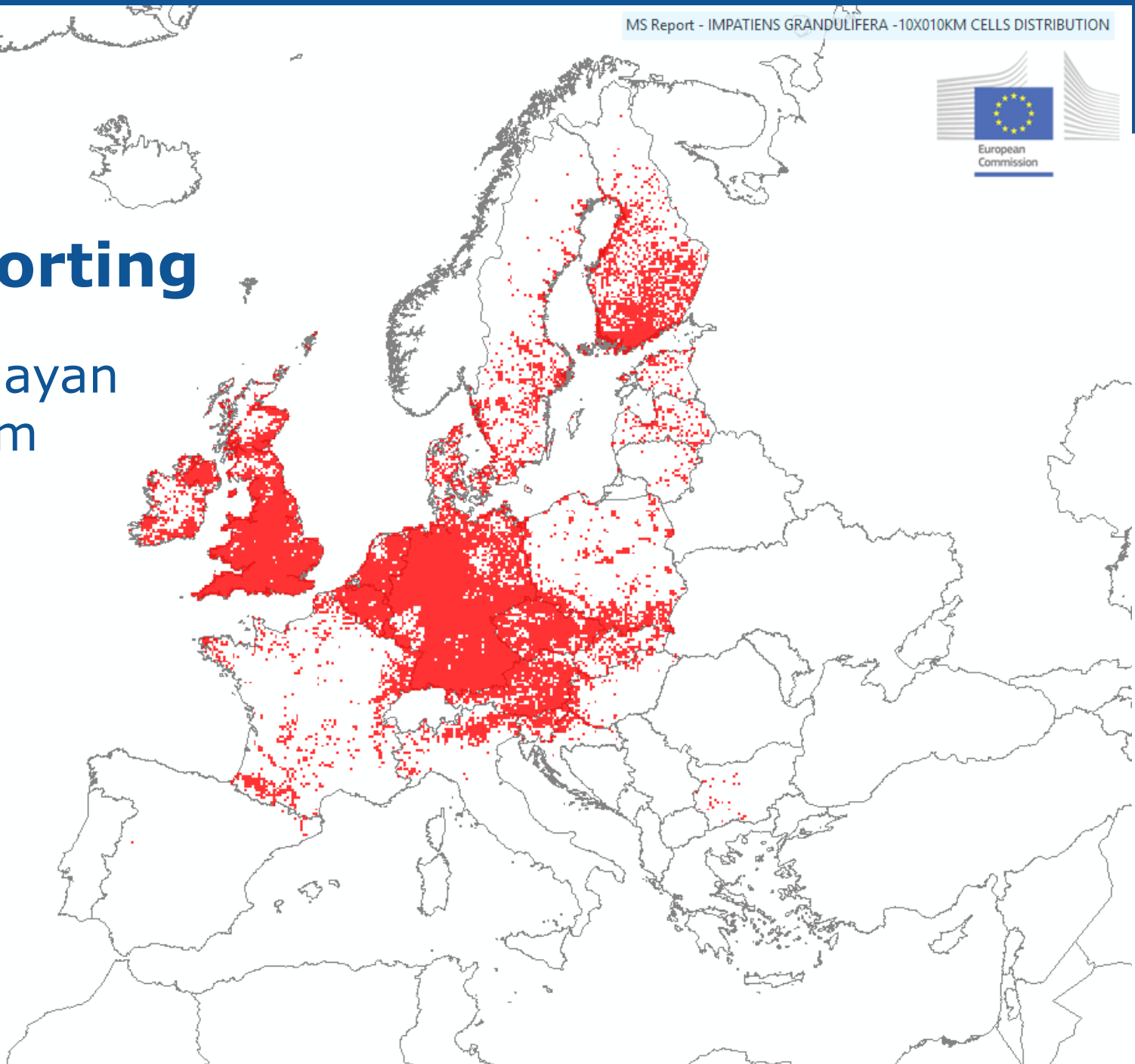
Next steps

- Further updates of the Union list
- Reports by Member States (25 MS submitted)
- Review of the EU Biodiversity Strategy
- Post-2020 strategy/targets
- Commission report on the state of nature in the EU (2020)
- Commission report on the application of the IAS Regulation (2021)



Reporting

Himalayan
balsam



Thank you for your attention!

For more information please contact:

ENV-IAS@ec.europa.eu



or visit



EU IAS Webpage:

http://ec.europa.eu/environment/nature/invasivealien/index_en.htm