

POLICY BRIEF #6 LOG SHEET: Action on invasive alien species should better anticipate climate change effects on biological invasions in Europe

IEEP was contracted by the Royal Belgian Institute of Natural Sciences (RBINS)/Belgian Science Policy Office (BelSPO) on behalf of BiodivERsA to produce a series of policy briefs based on the results of BiodivERsA funded research projects funded by the BiodivERsA calls 2010-2011, 2011-2012, 2012-2013, and 2013-2014, as well as other EU-funded research projects where relevant.

Knowledge and methodology used

The Policy Brief “*Action on invasive alien species should better anticipate climate change effects on biological invasions in Europe*” is based on the scientific results of several projects funded by the BiodivERsA network (listed below). The Brief extracts and summarizes some key results of the projects and provides a list of relevant policy recommendations linked to current EU policy processes.

The Brief was drafted by the Institute for European Environmental Policy (IEEP), in consultation with the BiodivERsA Policy Briefs Working Group (lead by BelSPO), and with researchers from the respective projects.

The project team of IEEP initially consulted all relevant BiodivERsA project reports from the relevant time period (2010-2014) as supplied by the BiodivERsA secretariat. Some potentially interesting project findings were identified from these reports and the IEEP team then located the full text of published peer-reviewed scientific articles produced by the projects. Project leaders and researchers were then contacted to request additional publications and project findings. All sources used are listed below.

Sources of information for the policy recommendations included:

- Studies carried out by IEEP and others on the development and implementation of the IAS regulation
- Interviews carried out with authors of the peer-reviewed scientific publications used

Publications from other BiodivERsA projects, BUFFER, DIARS and SalmoInvade, were reviewed but not used in the Brief because findings were more relevant to other aspects of invasive alien species risk management, which were not the focus of this Policy Brief.

Quality control and validation was done by all parties (co-authors) involved:

IEEP Project Team:

Evelyn Underwood, Senior Policy Analyst in the IEEP biodiversity programme (current leader of the project team; drafting) and Gemma Darwin, Policy Analyst

Marianne Kettunen, Senior Policy Analyst at IEEP (quality control of policy recommendations)

Silvia Nanni (communications) and Mia Pantzar (design and layout)

BiodivERsA funded researchers:

- Oliver Bossdorf, University of Tübingen, Germany
- Stefan Dullinger, University of Vienna, Austria
- Franz Essl, University of Vienna, Austria
- Anthony Herrel, MNHN France (INVAXEN coordinator)
- Flora Ihlow, Zoologisches Forschungsmuseum Alexander Koenig, Germany
- G. John Measey, Stellenbosch University, South Africa
- Jonàs Oliva, Swedish University of Agricultural Sciences, Sweden
- Miguel Redondo, Swedish University of Agricultural Sciences, Sweden
- Jan Stenlid, Swedish University of Agricultural Sciences, Sweden (RESIPATH coordinator)
- Wilfried Thuiller, Laboratoire d'Écologie Alpine, Grenoble, France
- Mark van Kleunen, University of Konstanz, Germany (WhoisNext coordinator)

BiodivERsA Policy Briefs Working Group

- Hilde Eggermont, BelSPO Belgium (Task Leader)
- Xavier Le Roux, FRB France (CEO BiodivERsA)
- Frédéric Lemaître, FRB France (BiodivERsA SPI Officer)
- Angélique Berhault, BelSPO Belgium
- Oliver Dilly, PT-DLR Germany
- Lise Goudeseune, BelSPO Belgium
- Henrik Lange, SEPA Sweden
- Per Sjögren-Gulve, SEPA Sweden
- Rainer Sodtke, PT-DLR Germany
- Hélène Soubelet, FRB France
- Vanessa Weck, Région Guadeloupe

IAS expert

- Sonia Vanderhoeven, BelSPO Belgium

Sources of information consulted for key research findings

Project reports used:

INVAXEN interim project report

RESIPATH interim progress report

WhoisNext interim progress report

Peer-reviewed scientific publications used:

- Dullinger, I, Wessely, J, Bossdorf, O, Dawson, W, Essl, F, Gattringer, A, Klöner, G, Kreft, H, Kuttner, M, Moser, D, Pergl, J, Pyšek, P, Thuiller, W, van Kleunen, M, Weigelt, P, Winter, M and Dullinger, S (2017). *Climate change will increase the naturalization risk from garden plants in Europe*. *Global Ecology and Biogeography* No 26 (1), 43-53. (WhoisNext)
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Other research findings were consulted:

- Kettunen, M, Genovesi, P, Gollasch, S, Pagad, S, Starfinger, U, ten Brink, P, Shine, C (2008). *Technical support to EU strategy on invasive alien species (IAS). Assessment of the impacts of IAS in Europe and the EU*. Institute for European Environmental Policy, Brussels.
- Official Journal of the European Union (OJ) L 317 2014. *Regulation (EU) No 1143/2014 of the European Parliament and of the Council of 22 October 2014 on the prevention and management of the introduction and spread of invasive alien species*. Brussels.
- DRAFT WORKING DOCUMENT: COMMISSION DELEGATED REGULATION ANNEX 1 Detailed description of the application of point (a) to (h) of Article 5(1) of Regulation 1143/2014. Scientific Forum on Invasive Alien Species, <http://ec.europa.eu/transparency/regexpert/>
- Tollington, S, Turbé, A, Rabitsch, W, Groombridge, J J, Scalera, R, Essl, F and Schwartz, A (2017). *Making the EU legislation on invasive species a conservation success*. Conservation Letters No 10 (1), 112-120.
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Interviews carried out

- Wayne Dawson, WholsNext, 28th August 2017
- Iwona Dullinger, WholsNext, 30th August 2017
- Jonàs Oliva, RESIPATH, 24th August 2017

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Dissemination

The policy brief will be disseminated by both BiodivERSA and IEEP according to the dissemination plan produced by IEEP.