

Targeting and Prioritisation

This presentation features the invasion heat maps for the 31 Black List Species from the RINSE Report 'Targeting and Prioritisation for INS in the RINSE Project Area' by B. Gallardo, A. Zieritz and D. C. Aldridge, Cambridge Environmental Consulting Ltd.

For more information on this study and to read the report visit the RINSE website here:

<http://www.rinse-europe.eu/resources>

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Reducing the Impact of
Non-native Species in Europe
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BLACK LIST

Acacia dealbata

Aedes albopictus

Alexandrium catenella

Anguillicoloides crassus

Anoplophora glabripennis

Balanus improvisus

Bemisia tabaci

Cabomba caroliniana

Carpobrotus edulis

Caulerpa taxifolia

Ceratiris capitata

Cervus canadensis

Codium fragile

Silver Wattle

Tiger Mosquito

Red tide dinoflagellate

Eel swim bladder nematode

Asian Longhorn Beetle

Acorn Barnacle

Tobacco Whitefly

Carolina water-shield

Hottentot Fig

Caulerpa

Mediterranean Fruit Fly

Wapiti

Green Sea Fingers

BLACK LIST

Cortaderia selloana

Coscinodiscus wailesii

Dreissena bugensis

Echinocystis lobata

Eichhornia crassipes

Hedychium gardnerianum

Linepithema humile

Marezzelleria neglecta

Musculista senhousia

Myriophyllum heterophyllum

Neogobius melanostomus

Opuntia ficusindica

Oxalis pescaprae

Pampas Grass

Diatom

Quagga Mussel

Wild Cucumber

Water Hyacinth

Kahili Ginger

Argentine Ant

Red-gilled Mudworm

Asian Date Mussel

Twoleaf Watermilfoil

Round Goby

Prickley-pear Cacti

Bermuda Buttercup

BLACK LIST

Proterorhinus marmoratus

Sciurus carolinensis

Thaumetopoea processionea

Undaria pinnatifida

Vespa velutina

Tubenose Goby

Grey Squirrel

Processionary Moth

Japanese Kelp

Asian Hornet

Black List

SPECIES:

Acacia dealbata

COMMON NAME(S):

Silver Wattle

ORIGIN:

Australia

Presence:

Great Britain



France



Belgium

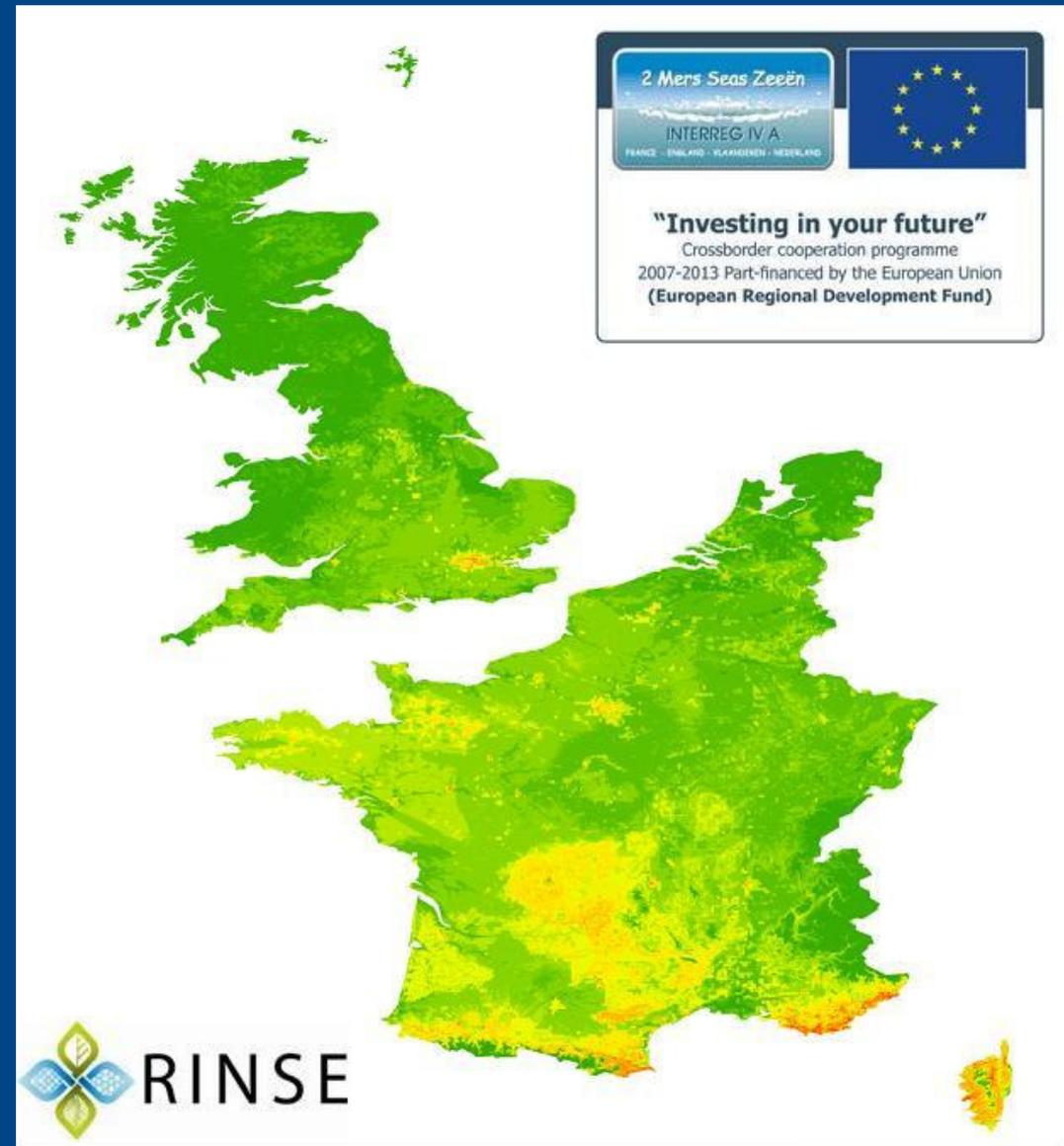


Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Acacia dealbata



A. dealbata

Black List

High Risk



Low Risk

Black List

SPECIES:

Aedes albopictus

COMMON NAME(S):

Asian Tiger Mosquito

ORIGIN:

Asia

Presence:

Great Britain



France



Belgium

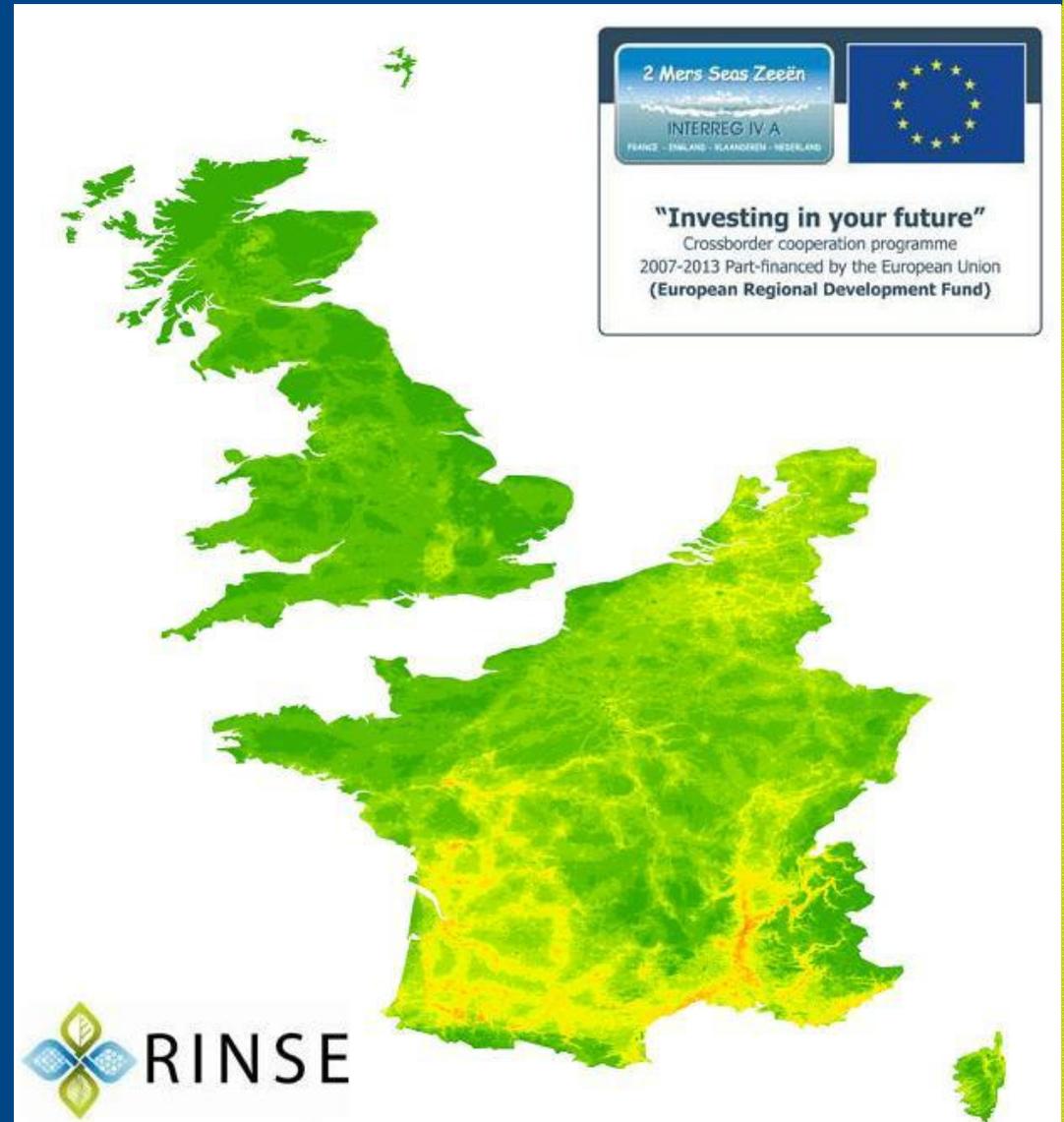


Netherlands



Red areas indicate a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Aedes albopictus



A. albopictus

Black List

High Risk



Low Risk

Black List

Alexandrium catenella

SPECIES:

Alexandrium catenella

COMMON NAME(S):

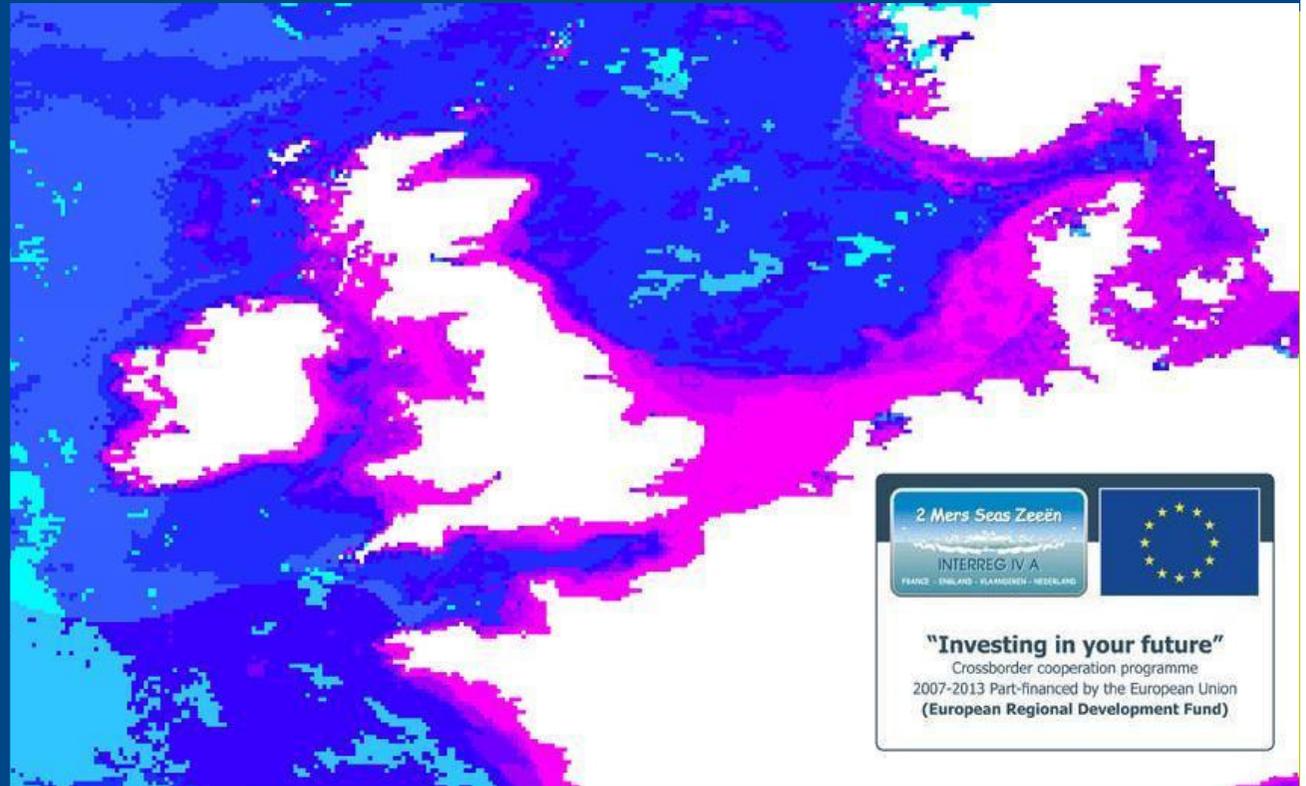
Red tide dinoflagellate

ORIGIN:

North America

HABITAT:

Marine



Great Britain



France



Belgium



Netherlands



Pink areas indicate a high suitability match increasing the risk of successful establishment after invasion. Blue areas are low suitability and at a lower risk of invasion.

Black List

SPECIES:

Anguillicoloides crassus

COMMON NAME(S):

Eel swim bladder nematode

ORIGIN:

Asia

Presence:

Great Britain



France



Belgium

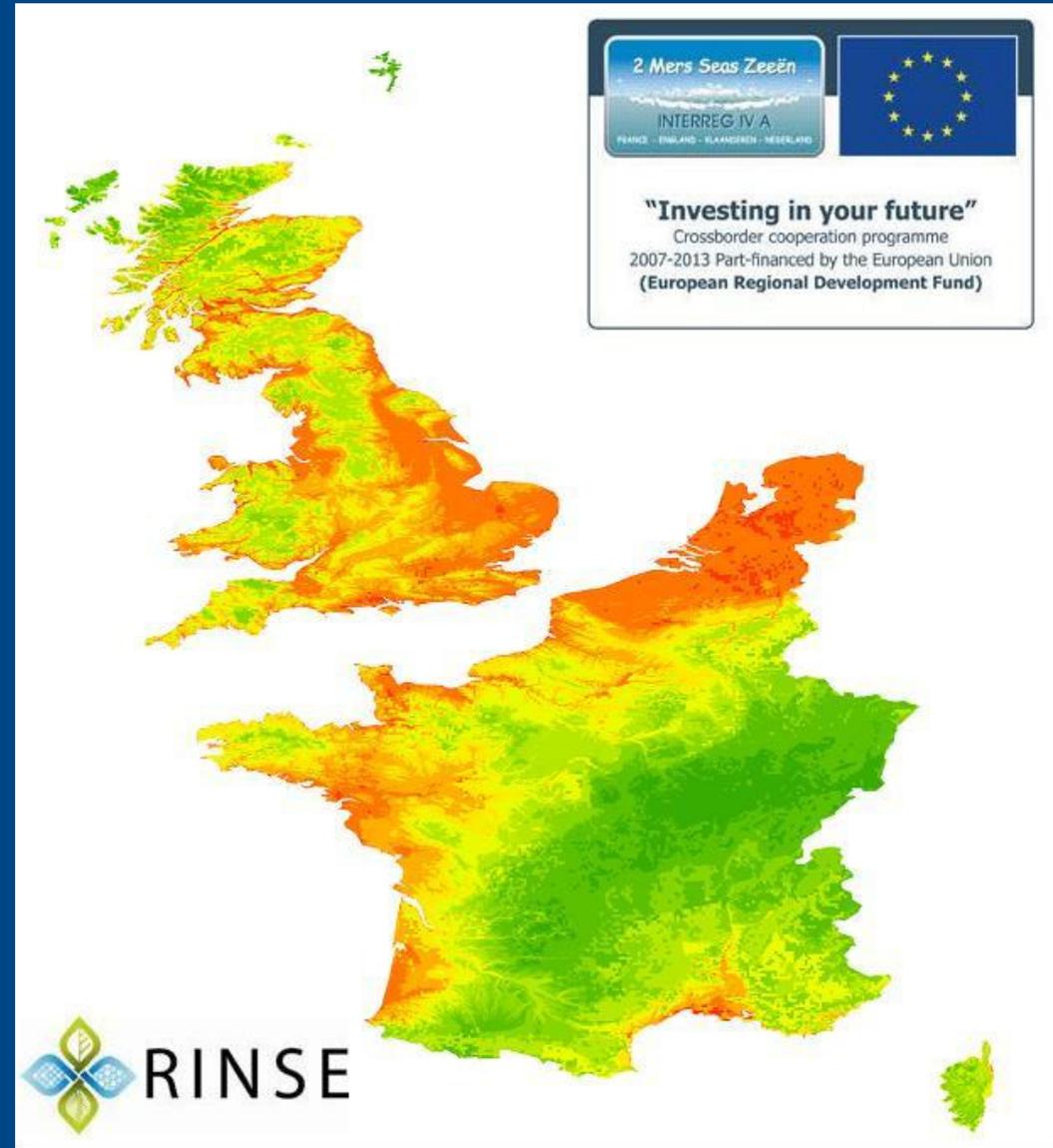


Netherlands



Red areas indicate a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Anguillicoloides crassus



A. crassus

Black List

High Risk



Low Risk

Black List

SPECIES:

Anoplophora glabripennis

COMMON NAME(S):

Asian Longhorn Beetle

ORIGIN:

Asia

Presence:

Great Britain



France



Belgium



Eradicated

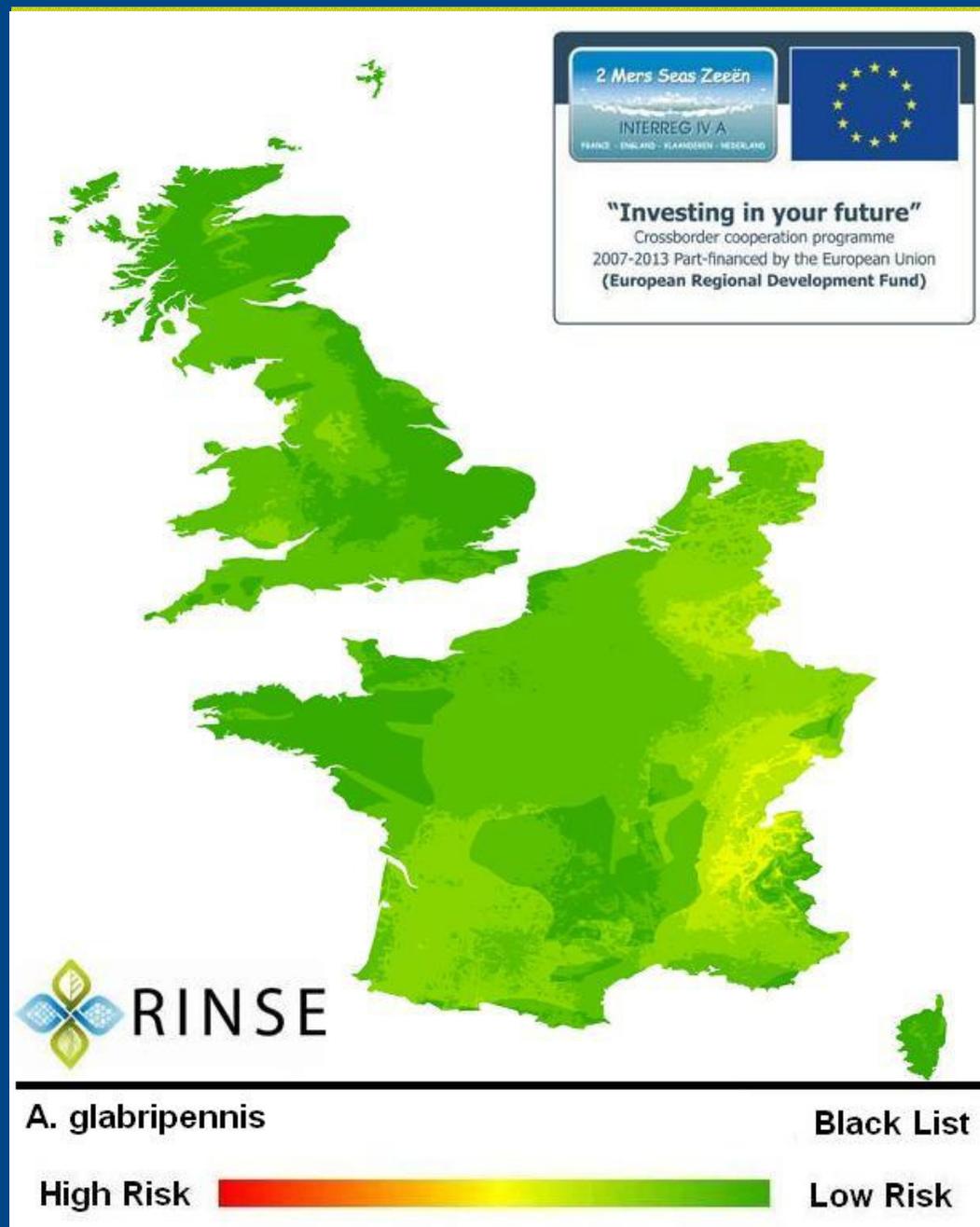
Netherlands



Eradicated

Red areas indicate a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Anoplophora glabripennis



Black List

Balanus improvisus

SPECIES:

Balanus improvisus

COMMON NAME(S):

Acorn Barnacle

ORIGIN:

North America

HABITAT:

Marine



High Risk

Low Risk

B. improvisus



Black List

Great Britain



France



Belgium



Netherlands



Pink areas indicate a high suitability match increasing the risk of successful establishment after invasion. Blue areas are low suitability and at a lower risk of invasion.

Black List

SPECIES:

Bemisa tabaci

COMMON NAME(S):

Tobacco Whitefly

ORIGIN:

Asia

Presence:

Great Britain



France



Belgium

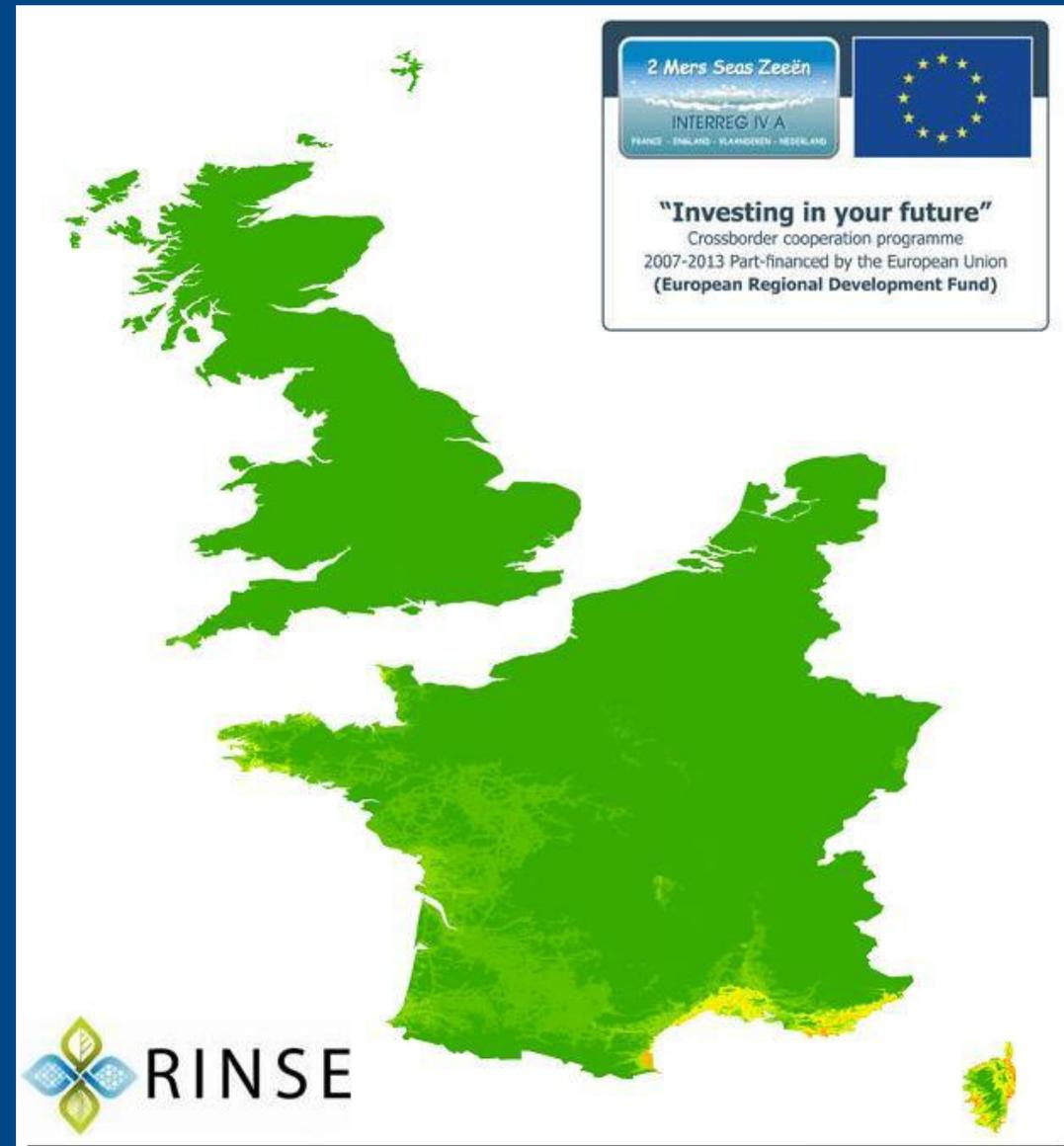


Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Bemisa tabaci



B. tabaci

Black List

High Risk



Low Risk

Black List

SPECIES:

Cabomba caroliniana

COMMON NAME(S):

Carolina Water-shield

ORIGIN:

Asia

Presence:

Great Britain



France



Belgium



Netherlands



Red areas indicate a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Cabomba caroliniana



C. caroliniana

Black List

High Risk



Low Risk

Black List

SPECIES:

Carpobrotus edulis

COMMON NAME(S):

Hottentot Fig

ORIGIN:

Africa

Presence:

Great Britain



France



Belgium

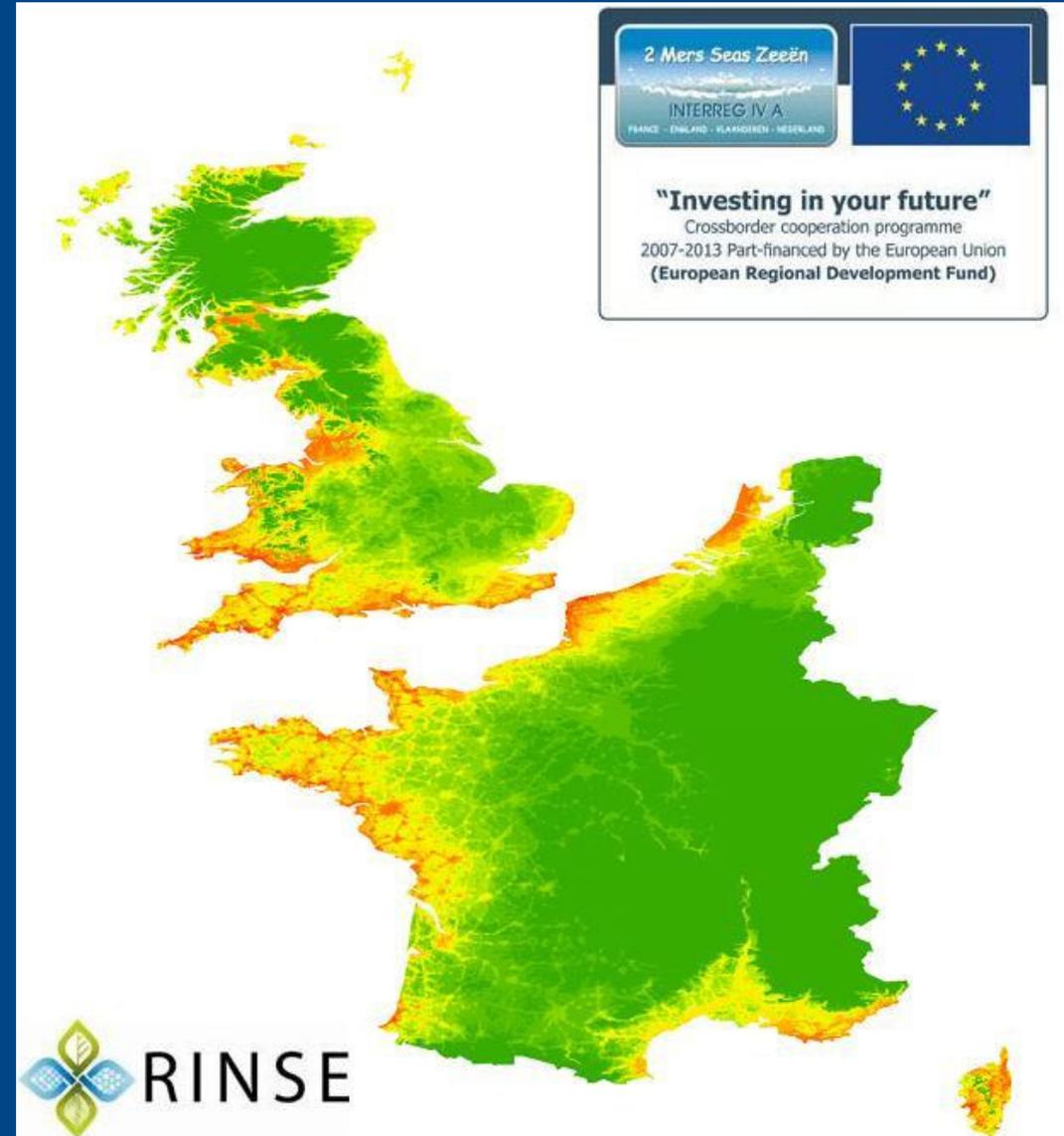


Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Carpobrotus edulis



C. edulis

Black List

High Risk



Low Risk

Black List

Caulerpa taxifolia

SPECIES:

Caulerpa taxifolia

COMMON NAME(S):

Caulerpa

ORIGIN:

Pacific, Indian
and Red Sea

HABITAT:

Marine



High Risk

Low Risk

C. taxifolia



Black Lis

Great Britain



France



Belgium



Netherlands



Pink areas indict a high suitability match increasing the risk of successful establishment after invasion. Blue areas are low suitability and at a lower risk of invasion.

Black List

SPECIES:

Ceratitis capitata

COMMON NAME(S):

Mediterranean Fruit Fly

ORIGIN:

Africa

Presence:

Great Britain



France



Belgium

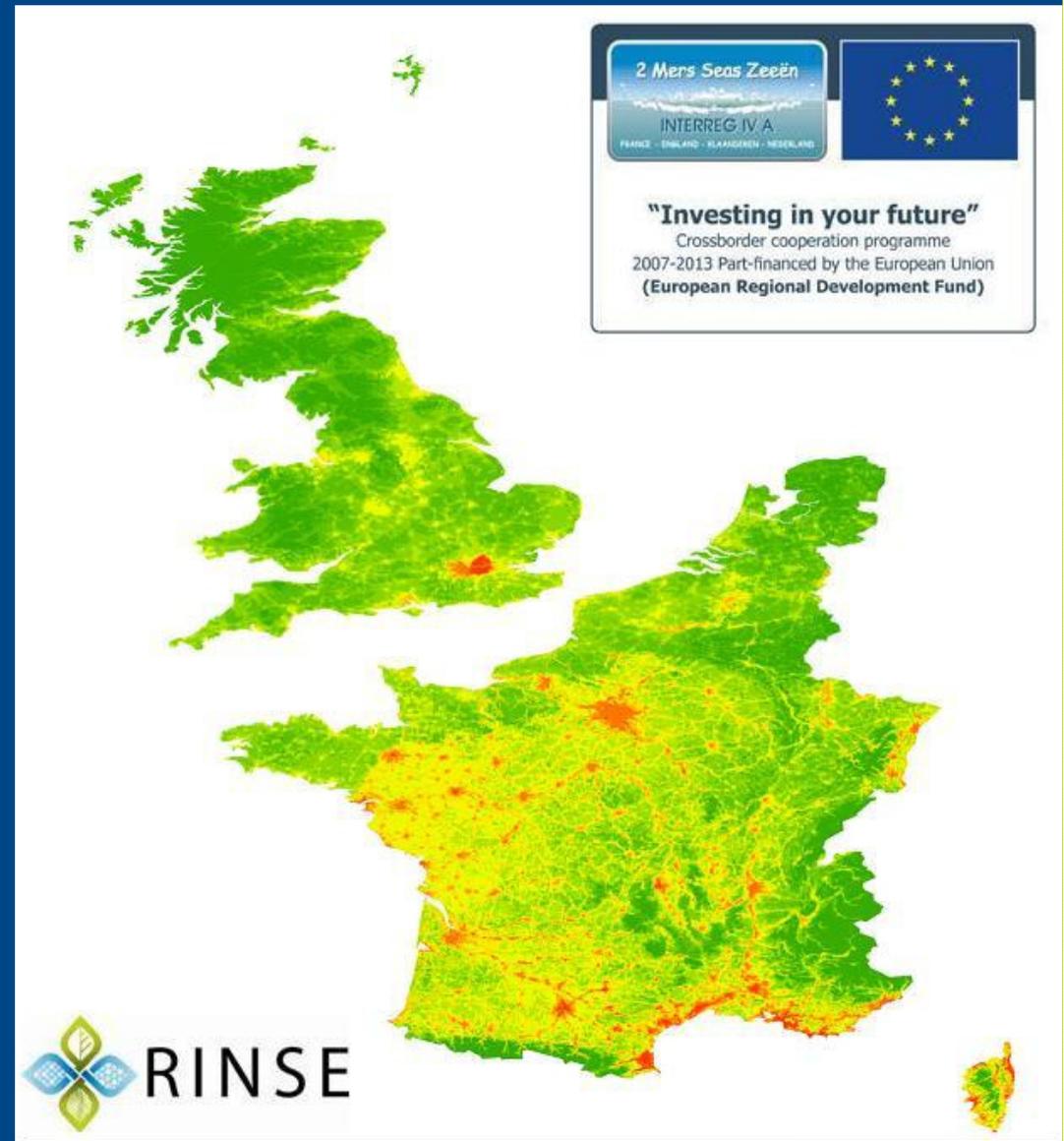


Netherlands



Red areas indicate a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Ceratitis capitata



C. capitata

Black List

High Risk



Low Risk

Black List

SPECIES:

Cervus canadensis

COMMON NAME(S):

Wapiti

ORIGIN:

North America

Presence:

Great Britain



France



Belgium



Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Cervus canadensis



C. canadensis

Black List

High Risk



Low Risk

Black List

Codium fragile

SPECIES:

Codium fragile

COMMON NAME(S):

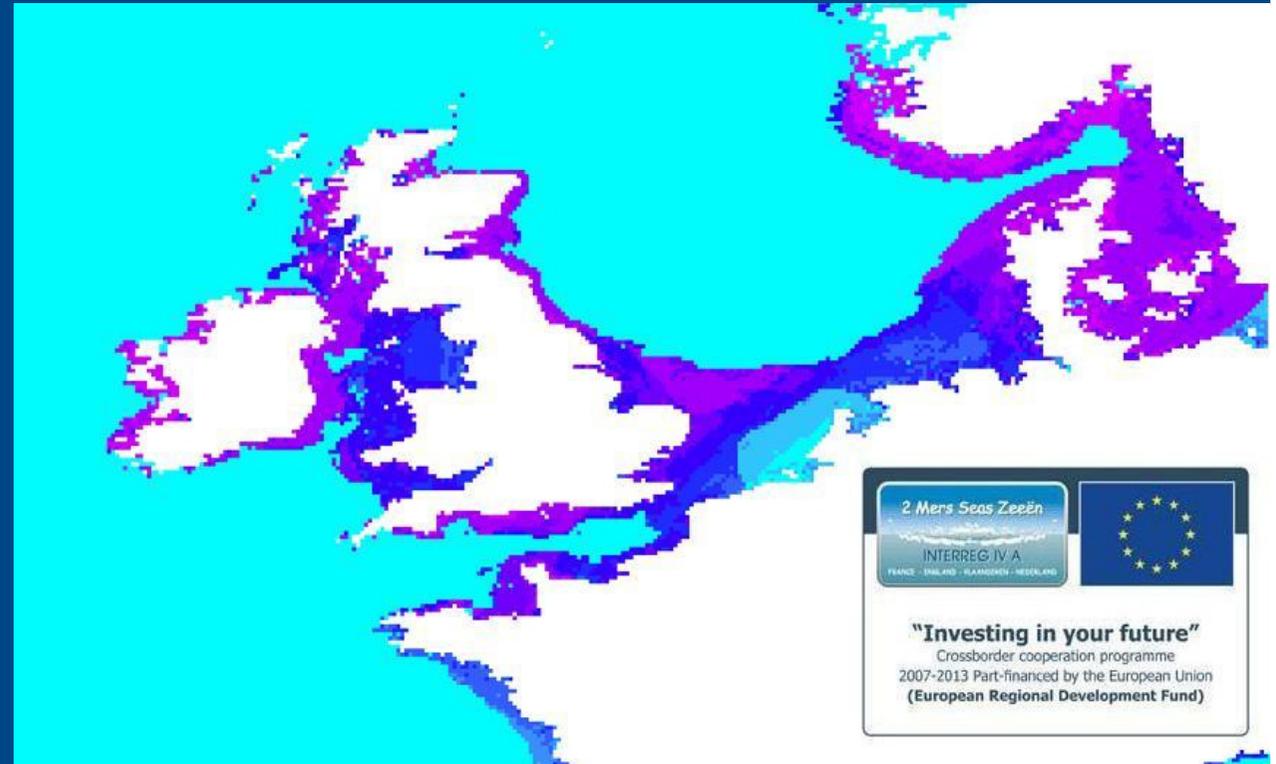
Green Sea Fingers

ORIGIN:

Asia

HABITAT:

Marine



High Risk

Low Risk

C. fragile



Black List

Great Britain



France



Belgium



Netherlands



Pink areas indicate a high suitability match increasing the risk of successful establishment after invasion. Blue areas are low suitability and at a lower risk of invasion.

Black List

SPECIES:

Cortaderia selloana

COMMON NAME(S):

Pampas Grass

ORIGIN:

South America

Presence:

Great Britain



France



Belgium

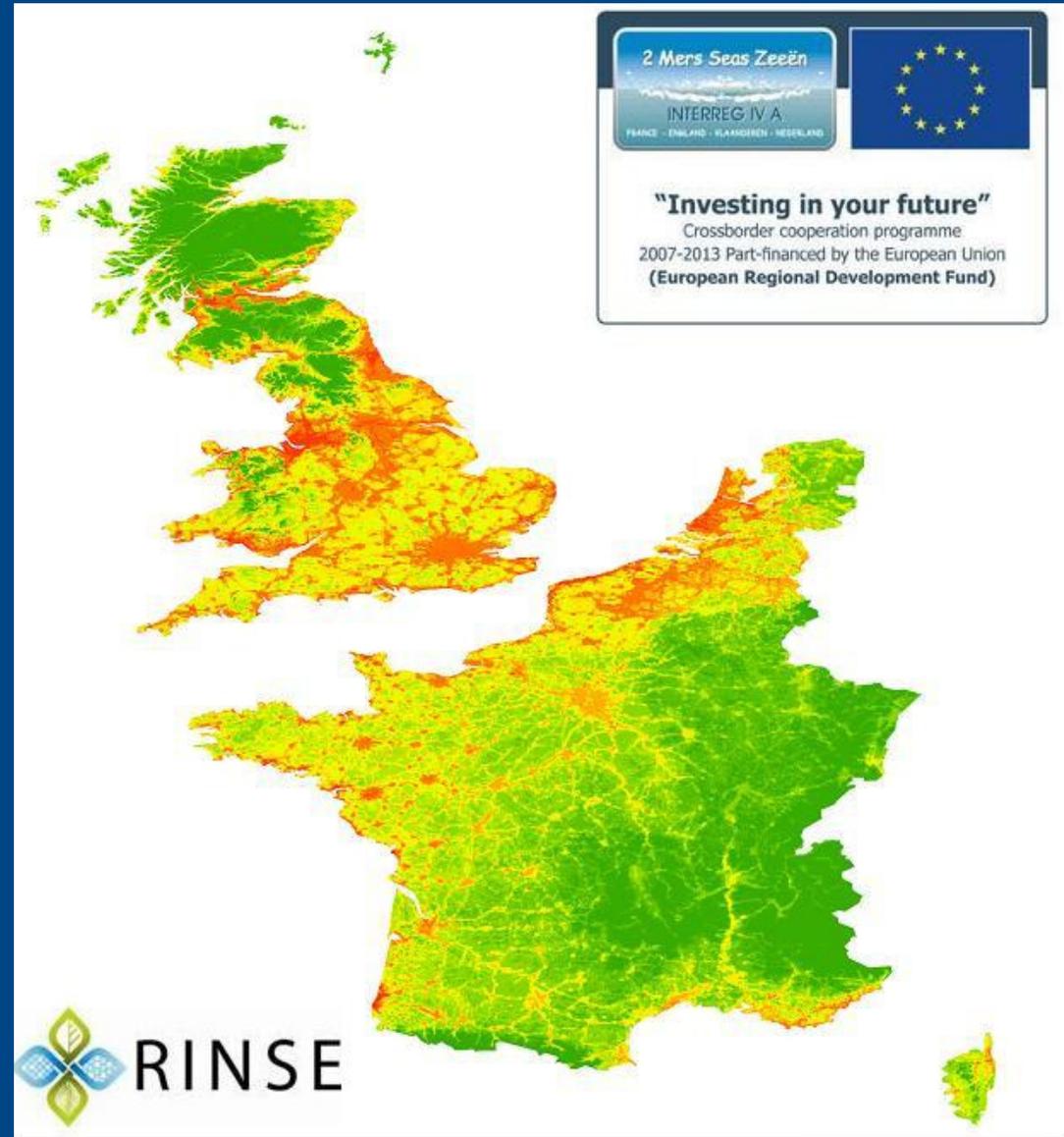


Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Cortaderia selloana



C. selloana

Black List

High Risk



Low Risk

Black List

Coscinodiscus wailesii

SPECIES:

Coscinodiscus wailesii

COMMON NAME(S):

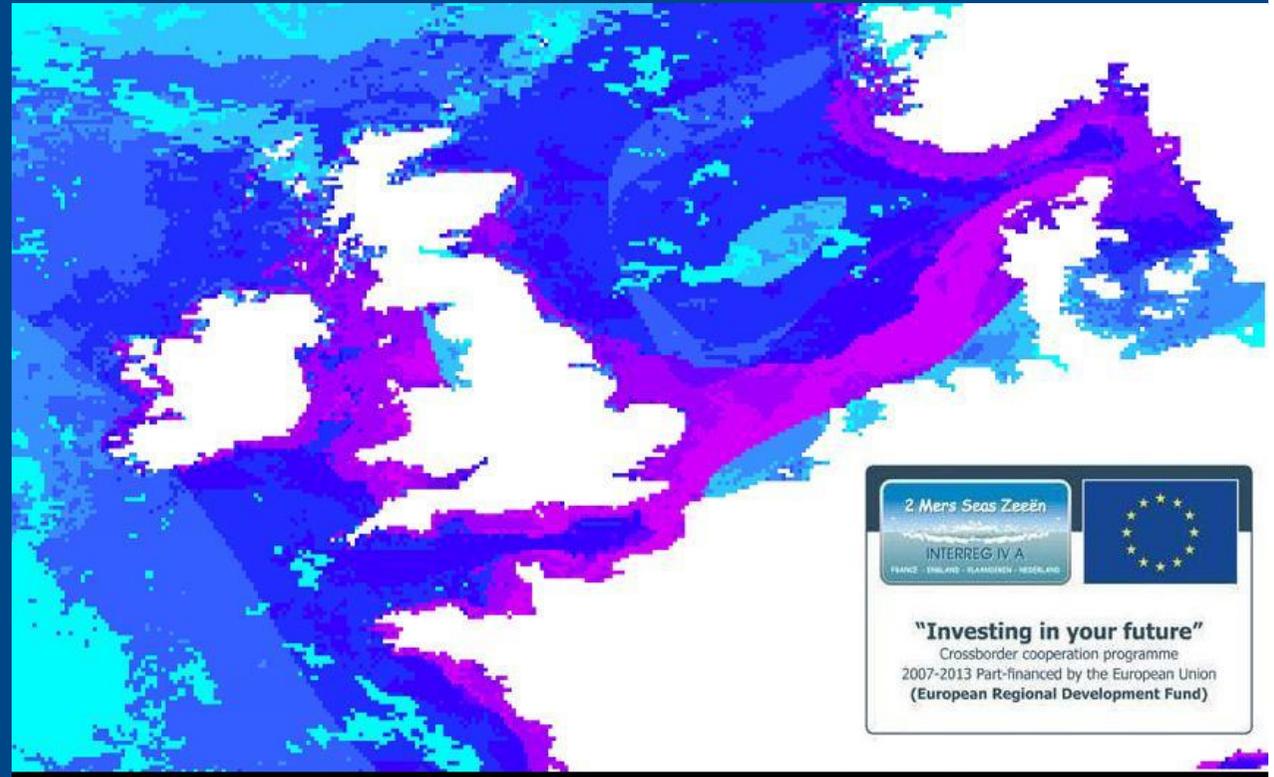
Diatom

ORIGIN:

Pacific and Indian Ocean

HABITAT:

Marine



High Risk

Low Risk

C. wailesii



Black List

Great Britain



France



Belgium



Netherlands



Pink areas indicate a high suitability match increasing the risk of successful establishment after invasion. Blue areas are low suitability and at a lower risk of invasion.

Black List

SPECIES:

Dreissena bugensis

COMMON NAME(S):

Quagga Mussel

ORIGIN:

Europe

Presence:

Great Britain



France



Belgium



Netherlands



Red areas indicate a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Dreissena bugensis



D. bugensis

Black List

High Risk



Low Risk

Black List

SPECIES:

Echinocystis lobata

COMMON NAME(S):

Wild Cucumber

ORIGIN:

North America

Presence:

Great Britain



France



Belgium

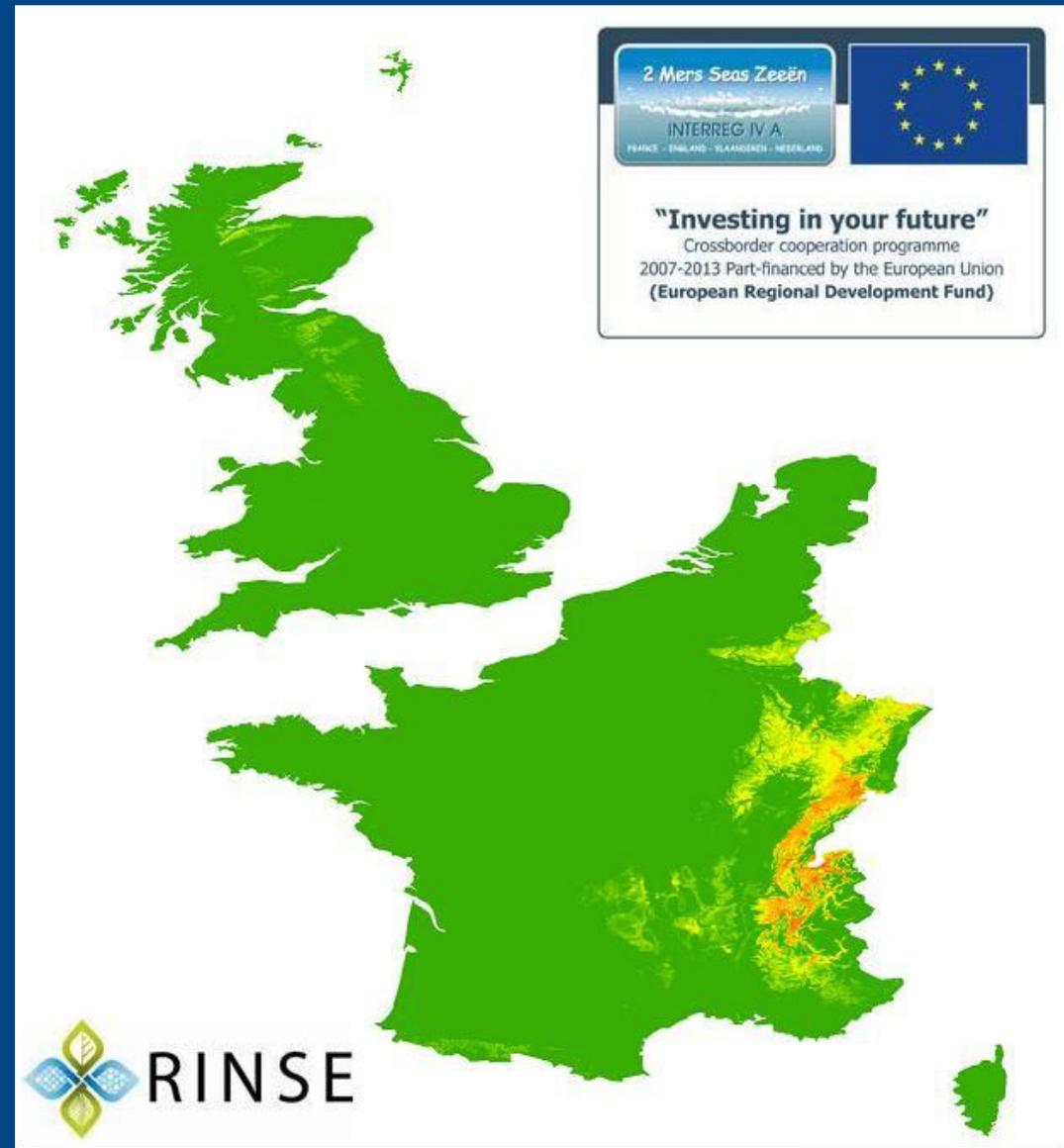


Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Echinocystis lobata



E. lobata

Black List

High Risk



Low Risk

Black List

SPECIES:

Eichhornia crassipes

COMMON NAME(S):

Water Hyacinth

ORIGIN:

South America

Presence:

Great Britain



France



Belgium



Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Eichhornia crassipes



E. crassipes

Black List

High Risk



Low Risk

Black List

SPECIES:

Hedychium gardnerianum

COMMON NAME(S):

Kahili Ginger

ORIGIN:

Asia

Presence:

Great Britain



France



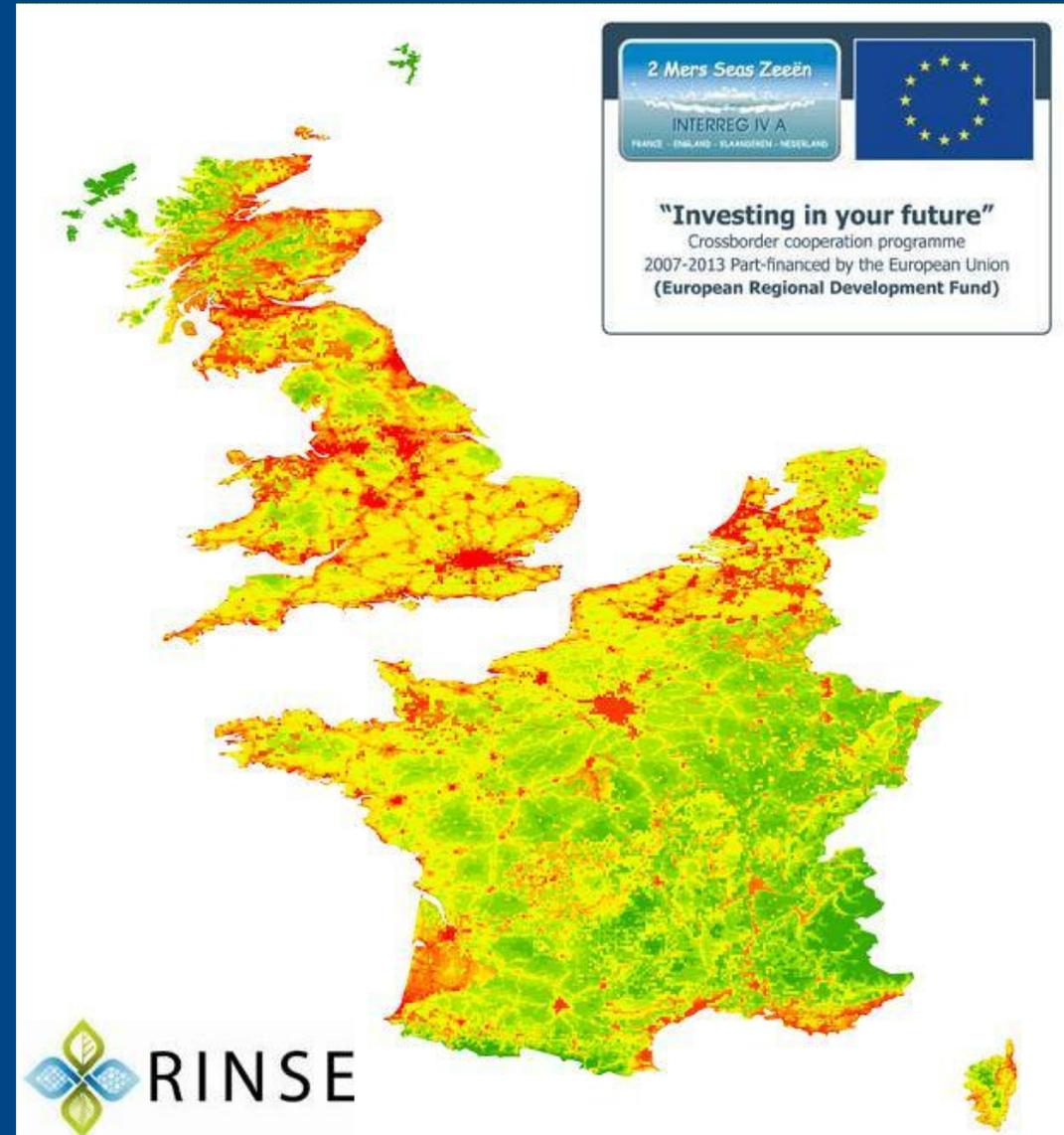
Belgium



Netherlands



Hedychium gardnerianum



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

H. gardnerianum

Black List

High Risk



Low Risk

Black List

SPECIES:

Linepithema humile

COMMON NAME(S):

Argentine Ant

ORIGIN:

South America

Presence:

Great Britain



France



Belgium

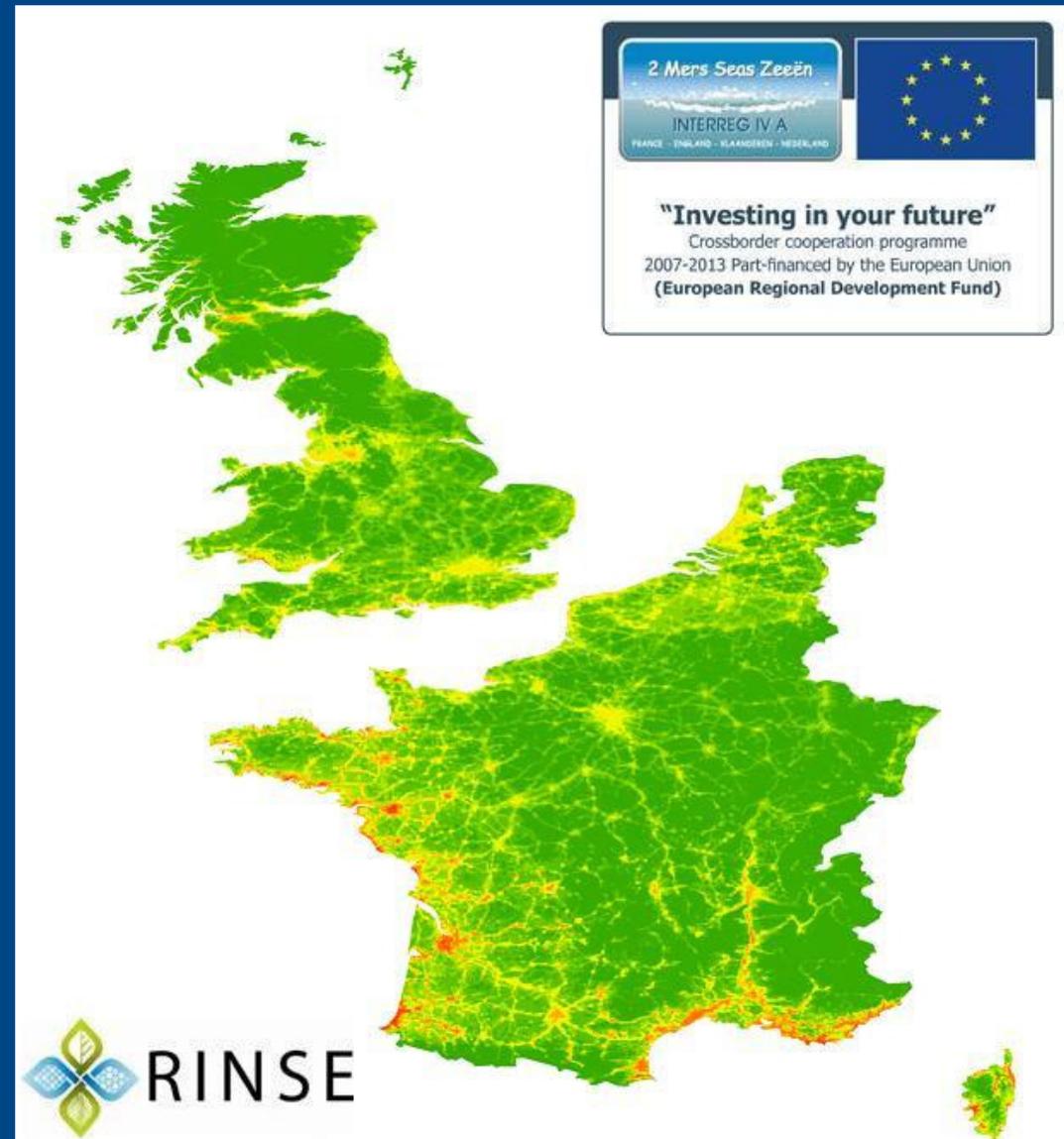


Netherlands



Red areas indicate a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Linepithema humile



L. humile

Black List

High Risk



Low Risk

Black List

SPECIES:

Marenzelleria neglecta

COMMON NAME(S):

Red-gilled Mudworm

ORIGIN:

North America

Presence:

Great Britain



France



Belgium



Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Marenzelleria neglecta



M. neglecta

Black List

High Risk



Low Risk

Black List

Musculista senhousia

SPECIES:

Musculista senhousia

COMMON NAME(S):

Asian Date Mussel

ORIGIN:

Asia

HABITAT:

Marine



High Risk

Low Risk

M. senhousia



Black List

Great Britain



France



Belgium



Netherlands



Pink areas indicate a high suitability match increasing the risk of successful establishment after invasion. Blue areas are low suitability and at a lower risk of invasion.

Black List

SPECIES:

Myriophyllum heterophyllum

COMMON NAME(S):

Two leaf Watermilfoil

ORIGIN:

Unknown

Presence:

Great Britain



France



Belgium

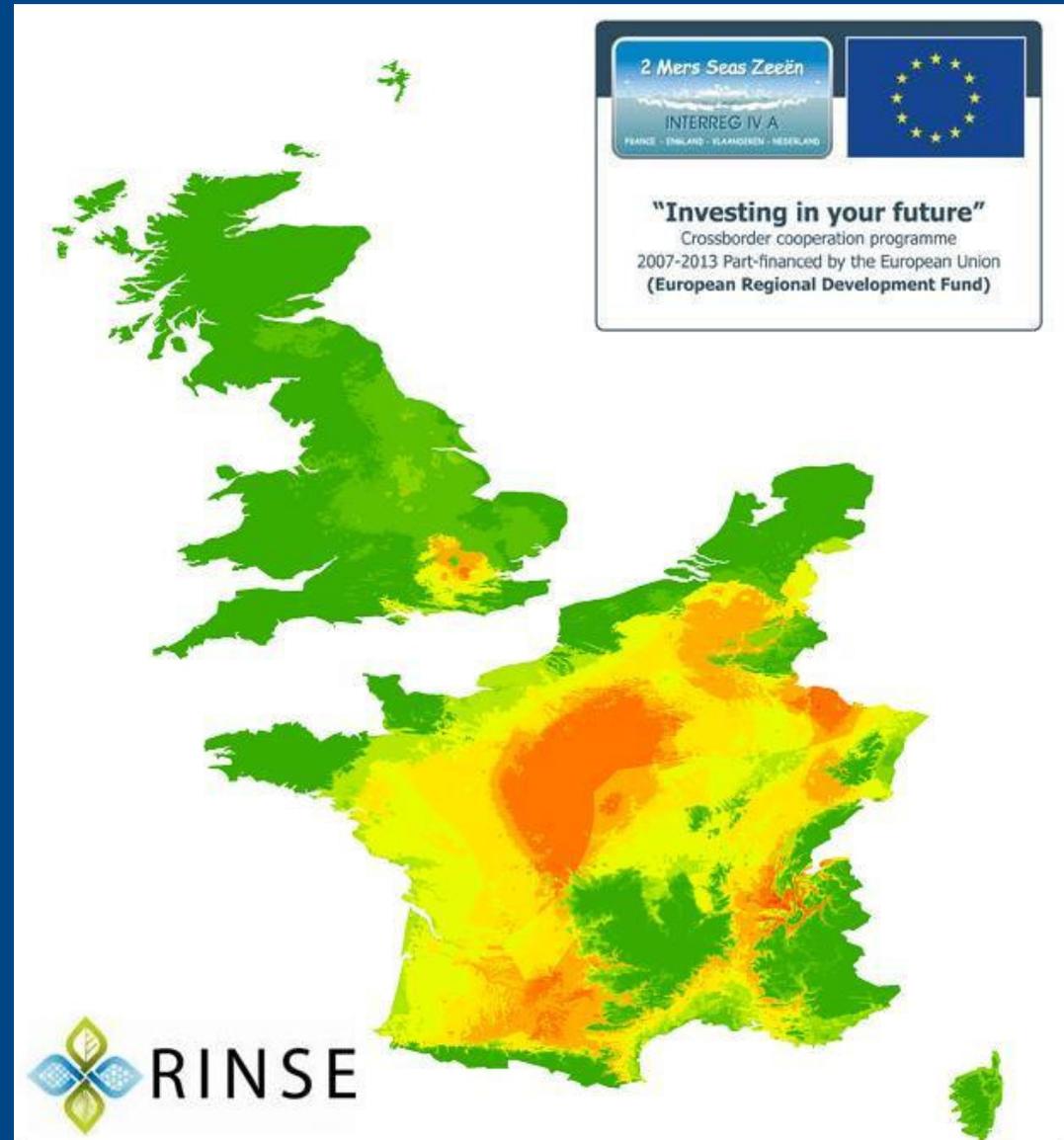


Netherlands



Red areas indicate a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Myriophyllum heterophyllum



M. heterophyllum

Black List

High Risk



Low Risk

Black List

SPECIES:

Neogobius melanostomus

COMMON NAME(S):

Round Goby

ORIGIN:

Asia

Presence:

Great Britain



France



Belgium



Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Neogobius melanostomus



N. melanostomus

Black List

High Risk



Low Risk

Black List

SPECIES:

Oxalis pescaprae

COMMON NAME(S):

Bermuda Buttercup

ORIGIN:

Africa

Presence:

Great Britain



France



Belgium



Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Oxalis pescaprae



O. pescaprae

Black List

High Risk



Low Risk

Black List

SPECIES:

Proterorhinus marmoratus

COMMON NAME(S):

Tubenose Goby

ORIGIN:

Europe

Presence:

Great Britain



France



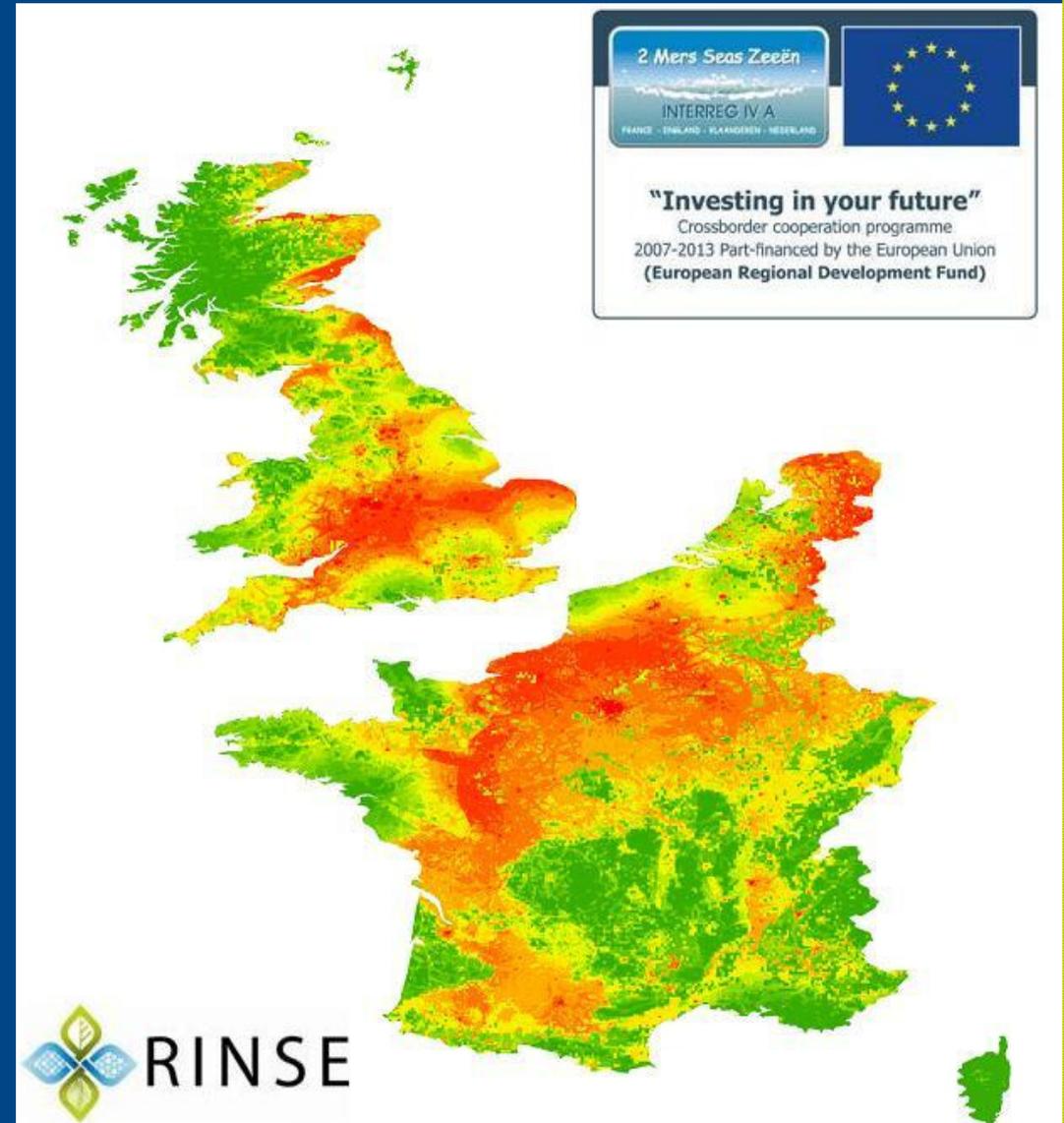
Belgium



Netherlands



Proterorhinus marmoratus



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

P. marmoratus

Black List

High Risk



Low Risk

Black List

SPECIES:

Sciurus carolinensis

COMMON NAME(S):

Grey Squirrel

ORIGIN:

North America

Presence:

Great Britain



France



Belgium

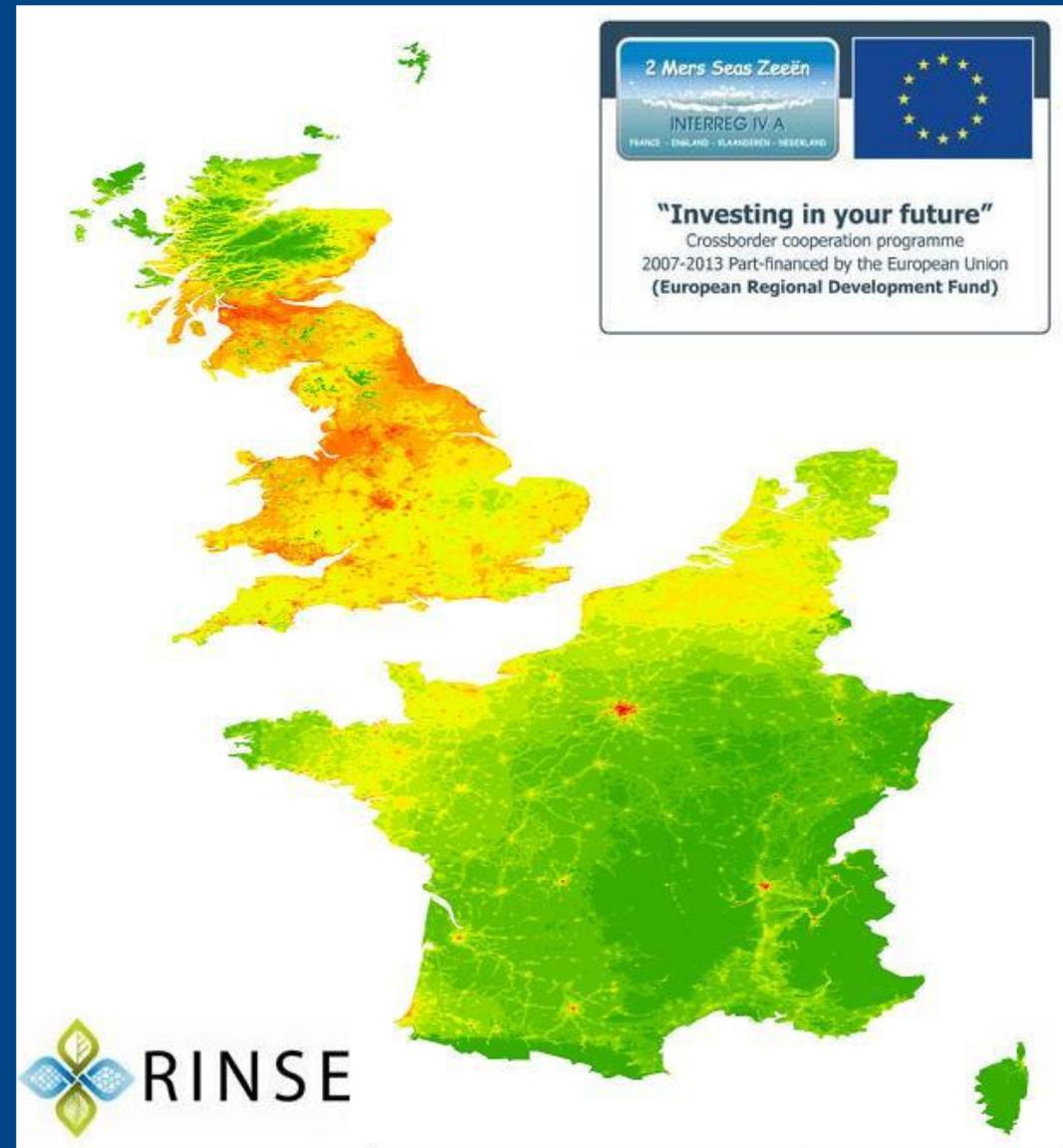


Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Sciurus carolinensis



S. carolinensis

Black List

High Risk



Low Risk

Black List

SPECIES:

Thaumetopoea processionea

COMMON NAME(S):

Processionary Moth

ORIGIN:

Europe

Presence:

Great Britain



France



Belgium

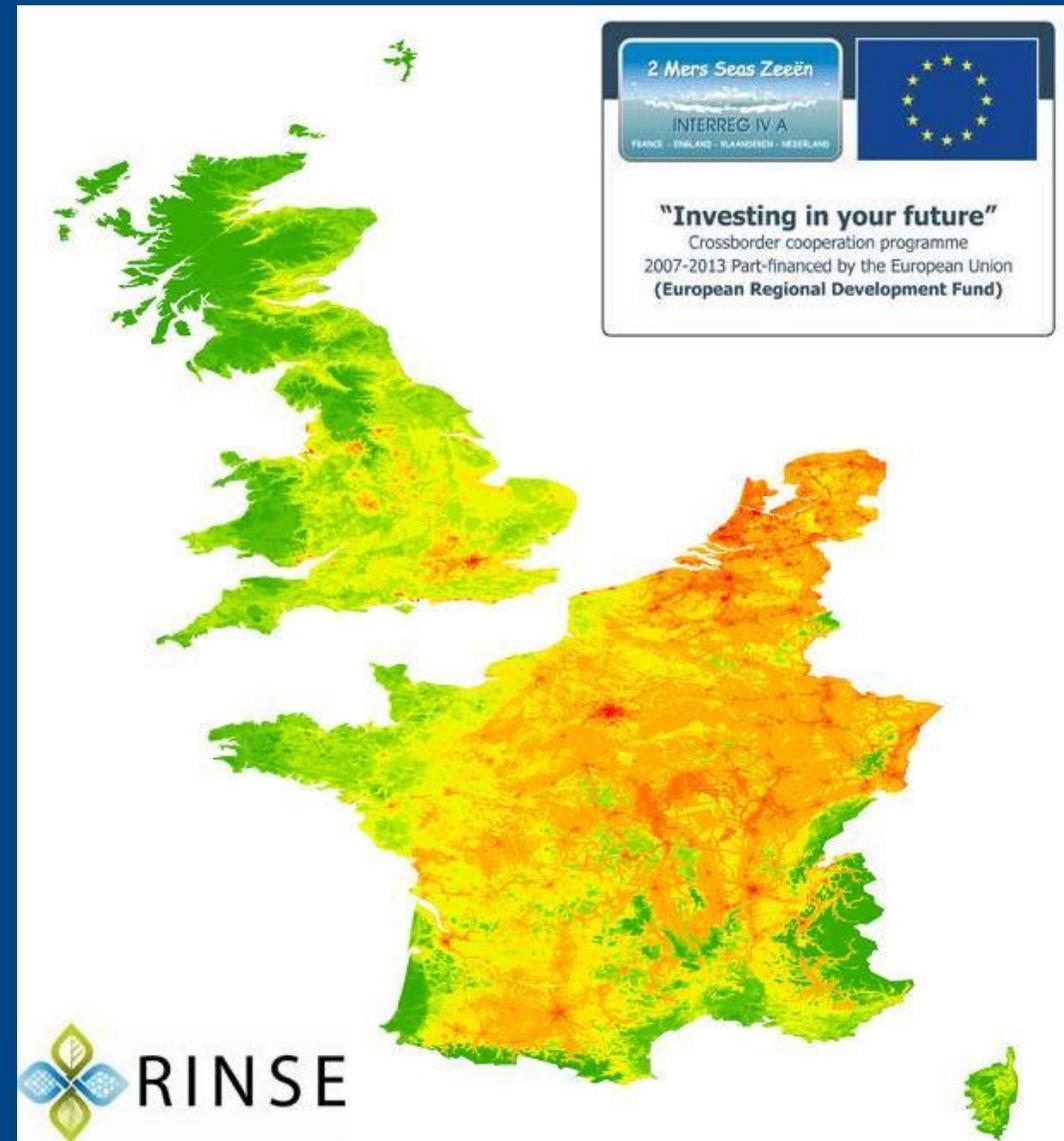


Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Thaumetopoea processionea



T. processionea

Black List

High Risk



Low Risk

Black List

Undaria pinnatifida

SPECIES:

Undaria pinnatifida

COMMON NAME(S):

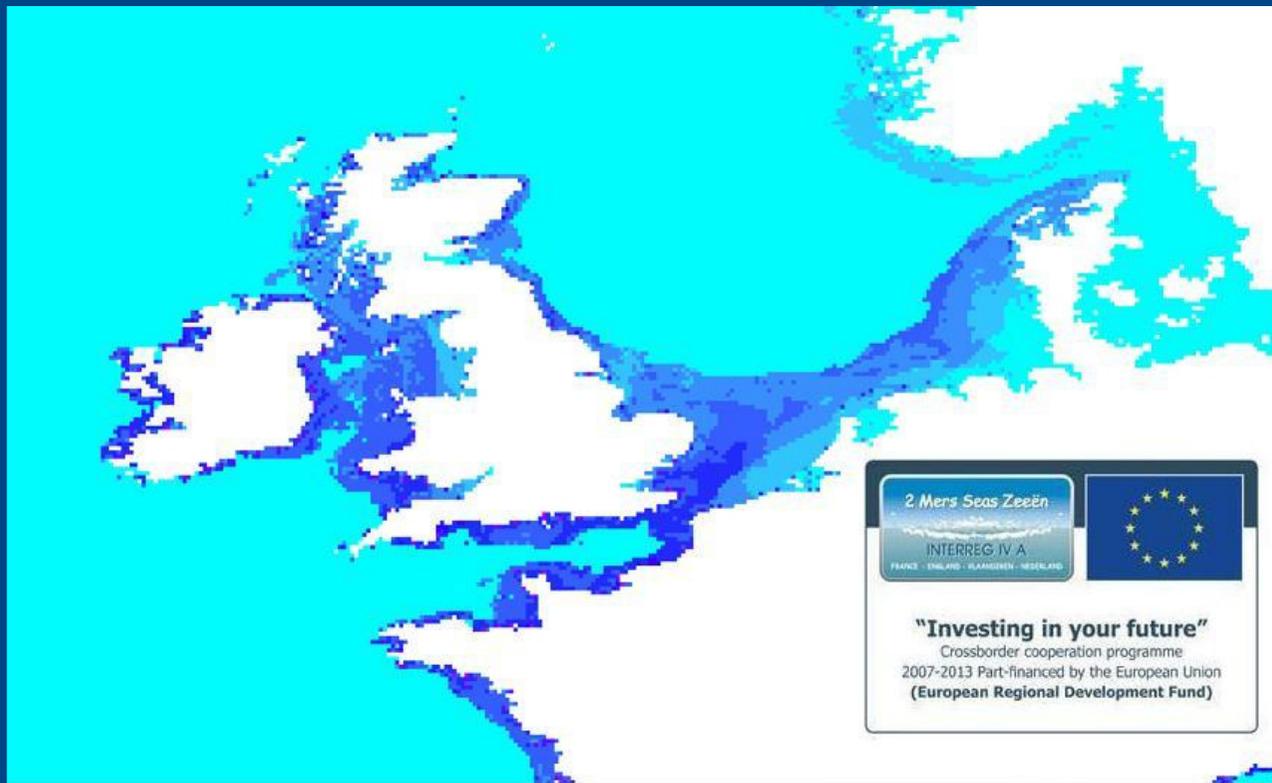
Japanese Kelp

ORIGIN:

Asia

HABITAT:

Marine



High Risk

Low Risk

U. pinnatifida



Black List

Great Britain



France



Belgium



Netherlands



Pink areas indicate a high suitability match increasing the risk of successful establishment after invasion. Blue areas are low suitability and at a lower risk of invasion.

Black List

SPECIES:

Vespa velutina

COMMON NAME(S):

Asian Hornet

ORIGIN:

Asia

Presence:

Great Britain



France



Belgium

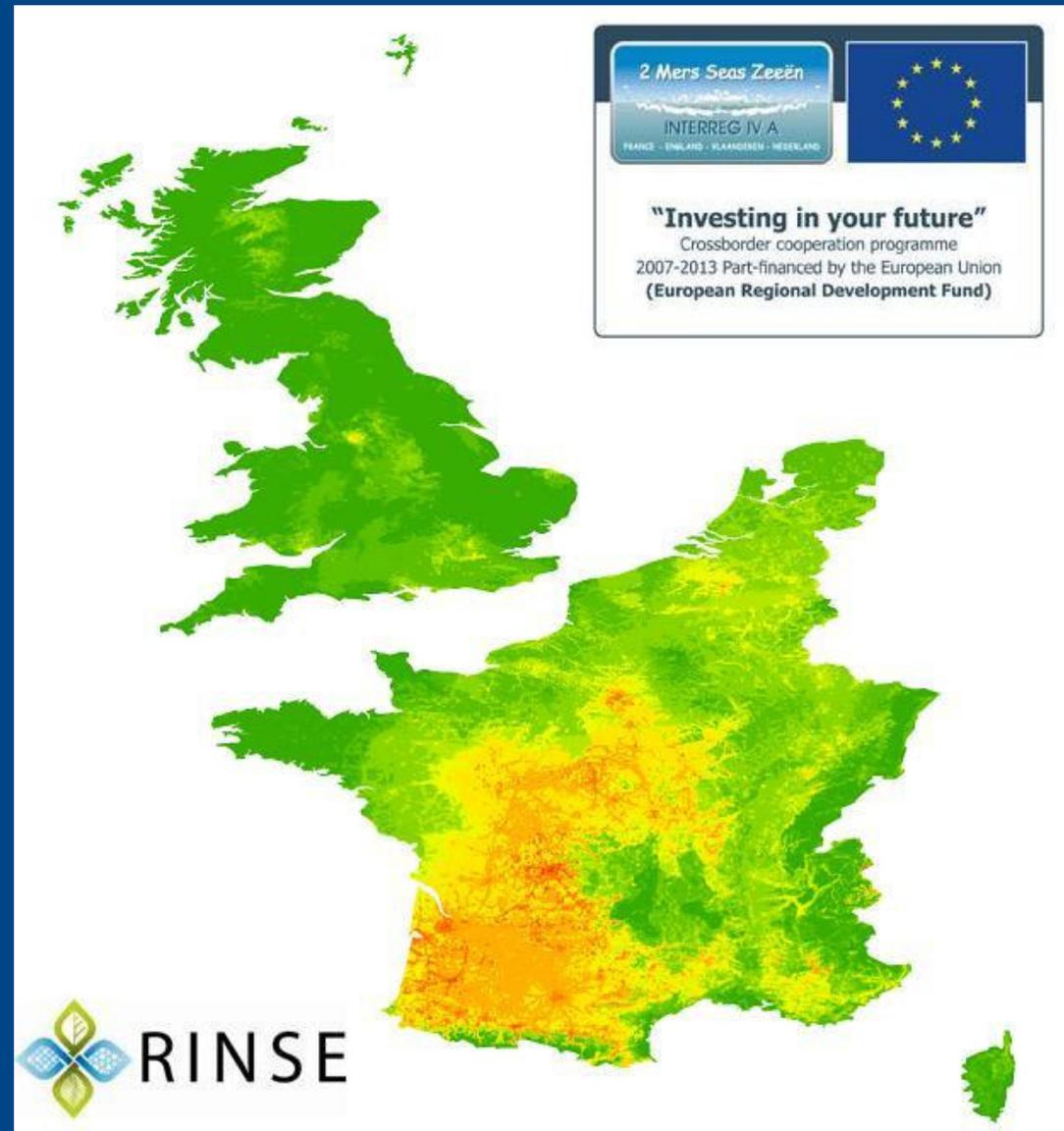


Netherlands



Red areas indict a high suitability match increasing the risk of successful establishment after invasion. Green areas are low suitability and at a lower risk of invasion.

Vespa velutina



V. velutina

Black List

High Risk



Low Risk

Targeting and Prioritisation

These invasion heat maps are an output from the ‘Targeting and Prioritisation for Invasive Non-native Species in the RINSE Project Area’ by B. Gallardo, A. Zieritz and D. C. Aldridge, Cambridge Environmental Consulting Ltd.

The RINSE Partnership is happy to share the data associated with these maps. If you should require this data please contact the RINSE Lead Partner, Norfolk County Council on +44(0)1603 228977 or email nnsi@norfolk.gov.uk



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