



Non-native species are rapidly increasing in number globally. Some, so-called invasive non-native species, cause serious problems for the environment and society

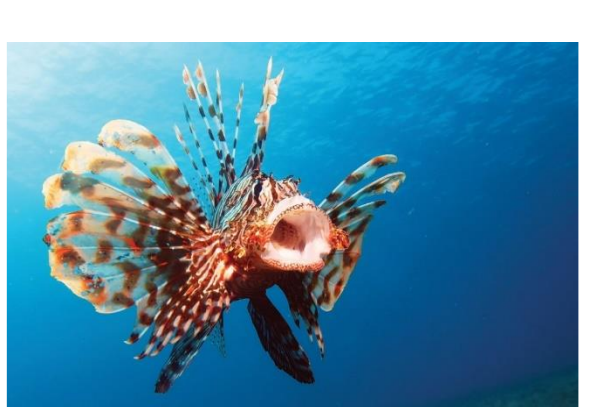
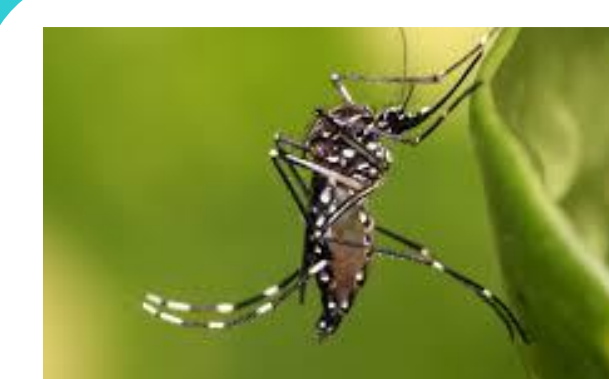
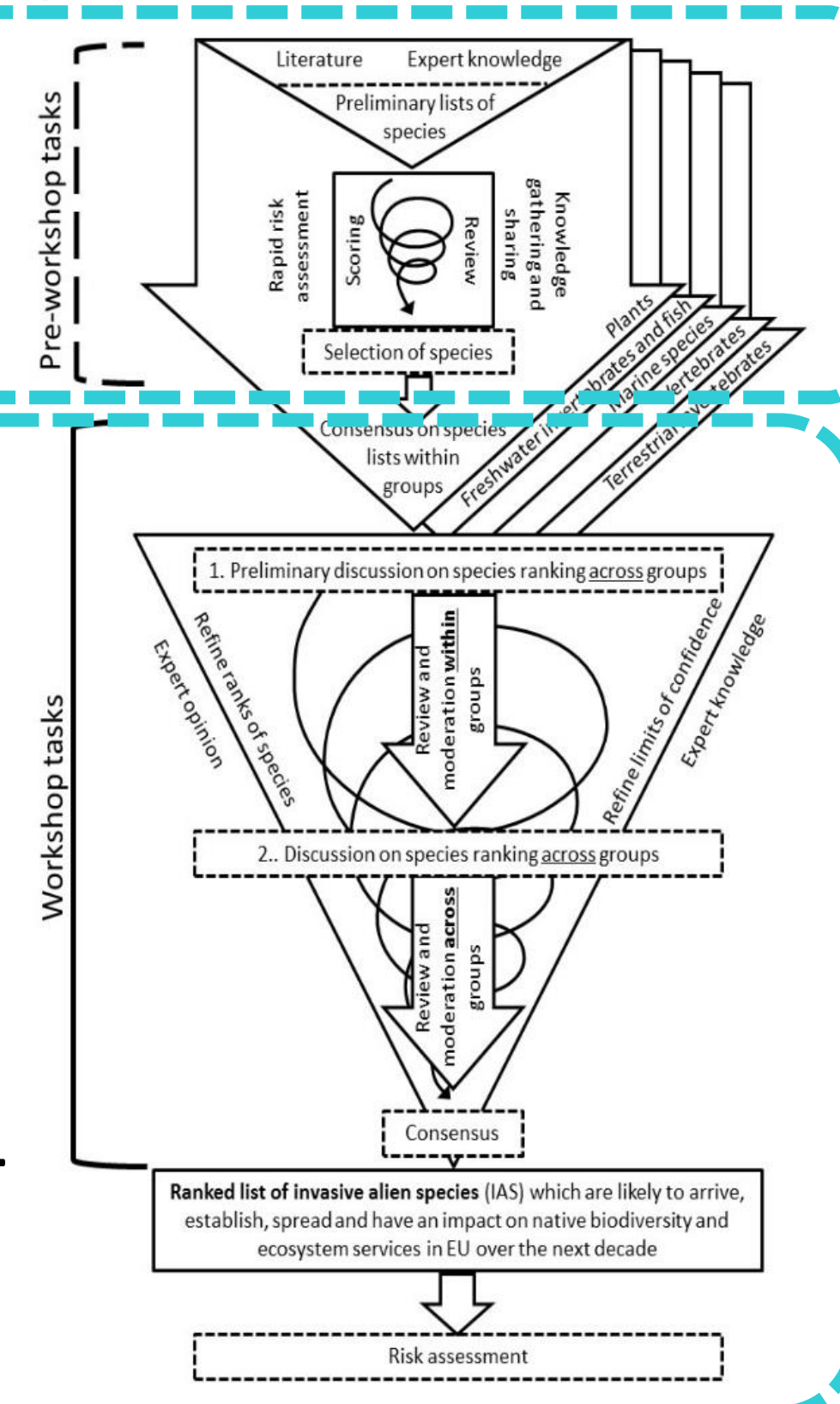
We have developed an evidence-based horizon scanning method to identify and prioritise invasive non-native species and this has been implemented for Great Britain, Europe and the UK Overseas Territories



List and score non-native species by assessing probability of arrival, establishment and impact



Combine lists and rank species through evidence-based discussions at consensus workshop



Freshwater

Terrestrial

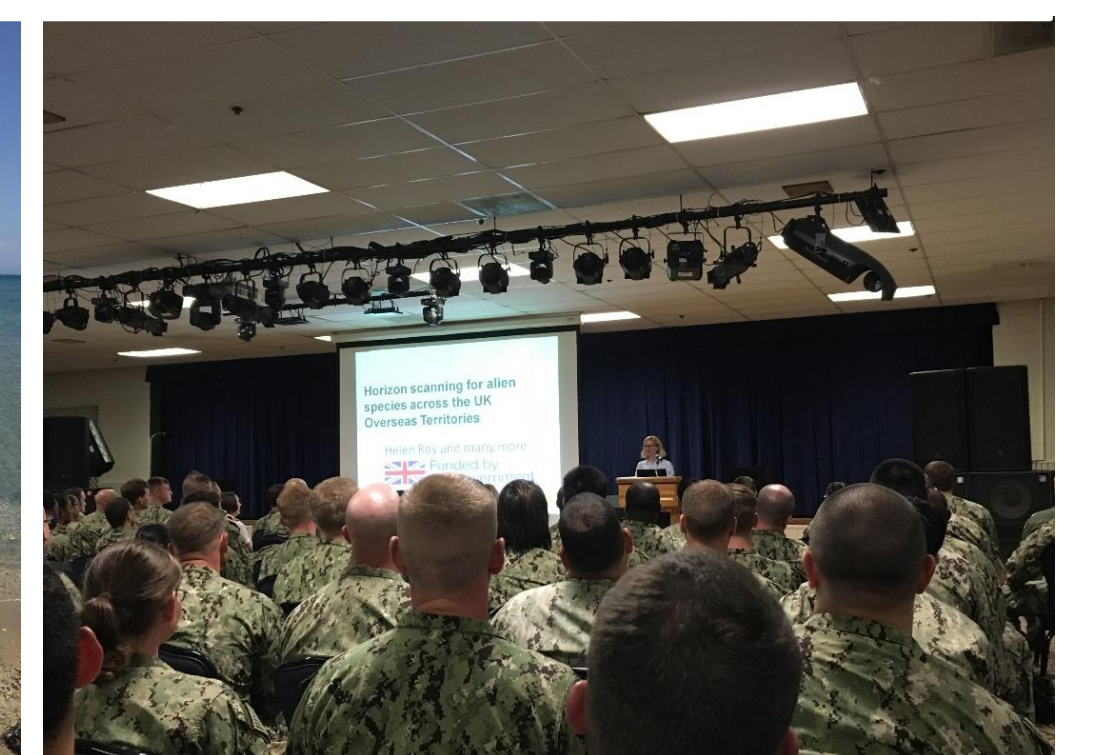
Marine

A stacked bar chart titled 'Number of species' on the y-axis and 'Pathway of arrival' on the x-axis. The y-axis ranges from 0 to 40 in increments of 5. The x-axis categories are: Release in nature, Transport – stowaway, Transport – contaminant, Escape from confinement, Corridor, and Unaided. Each bar is stacked by risk level: Medium (white), High (grey), and Very high (black). A large grey arrow points from the right towards the chart.

Pathway of arrival	Medium	High	Very high	Total
Release in nature	1	4	3	8
Transport – stowaway	10	10	4	24
Transport – contaminant	7	15	0	22
Escape from confinement	7	26	4	37
Corridor	1	2	1	4
Unaided	2	3	3	8

Predicting pathways of arrival for invasive non-native species with medium, high or very high risk to the EU

- Risk assessment
- Pathway action plans
- Raising awareness
- Improved biosecurity
- Targeted surveillance
- Early warning
- Rapid response

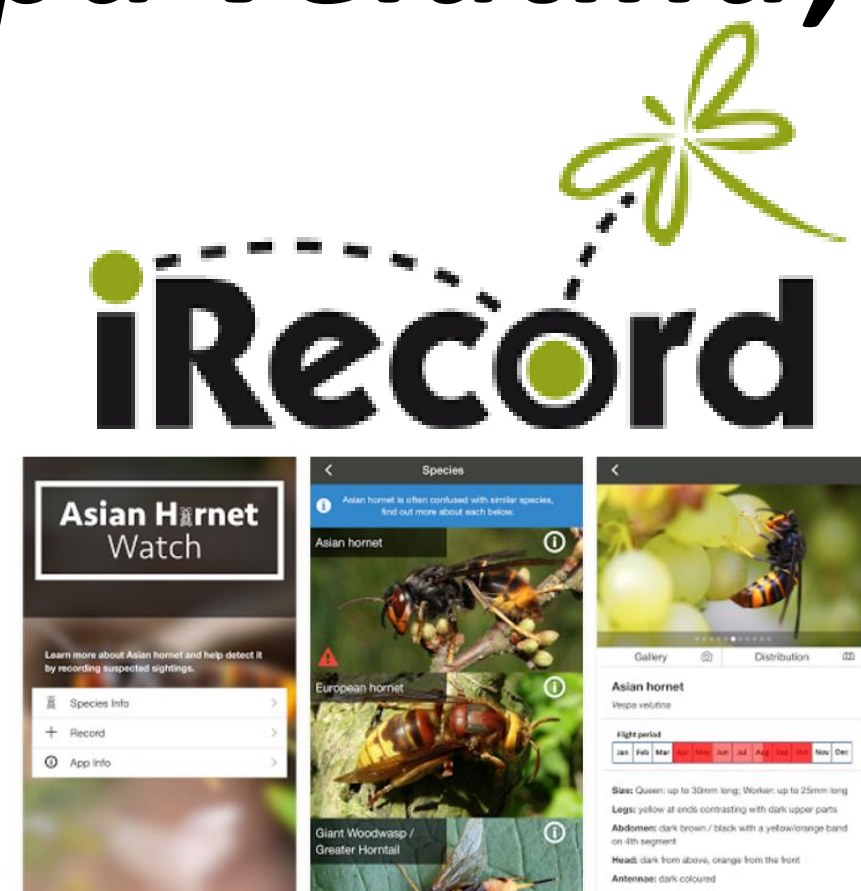


Raising awareness of the threat from invasive non-native species across the UK Overseas Territories

Preys on pollinating insects

Horizon scanning for invasive alien species with the potential to threaten biodiversity in Great Britain

Horizon scanning



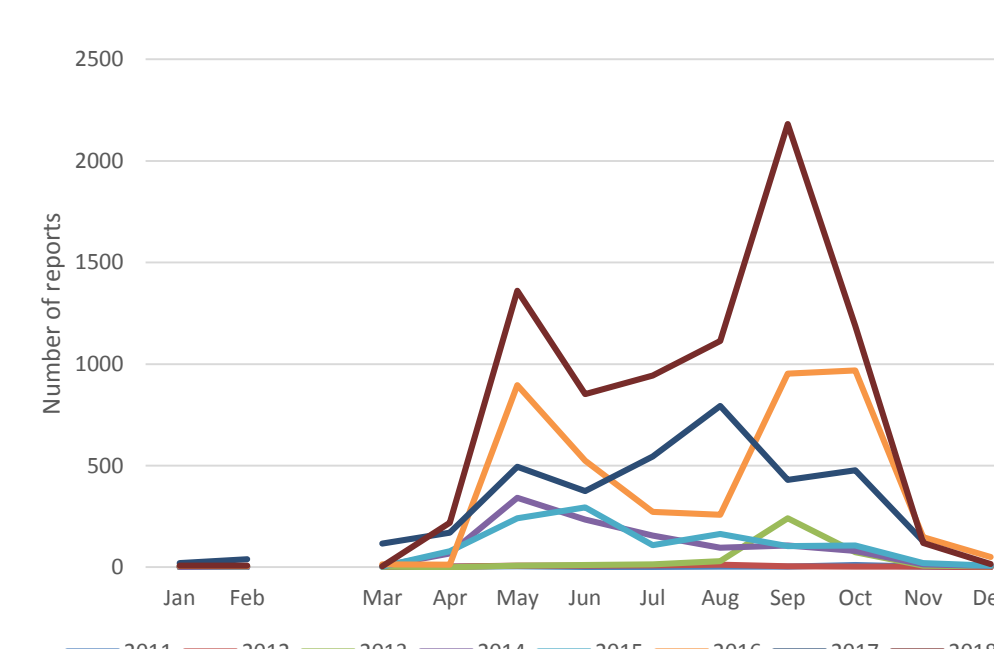
Development of recording platforms



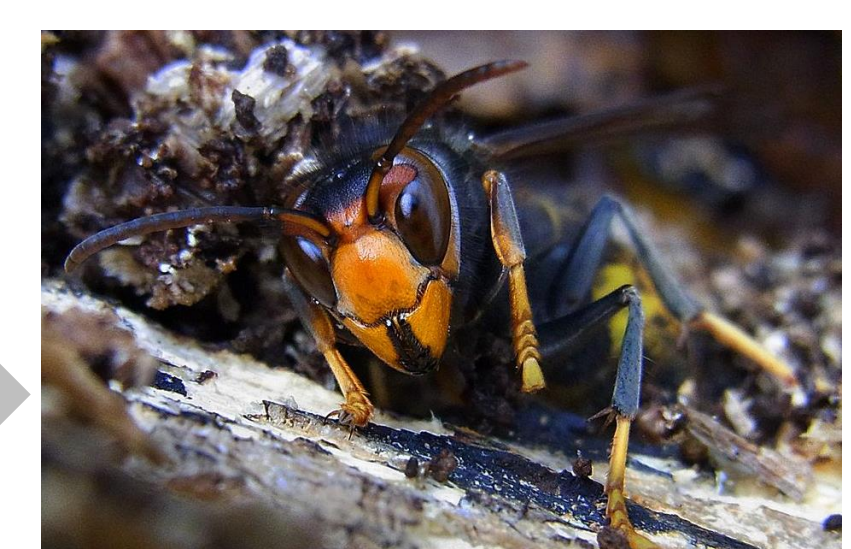
Alien arrival:
Asian hornet

noninvasivespecies.org/alerts/asianhornet

Raising awareness through public engagement



Reports of potential Asian
hornets. To date, only 13
confirmed sightings of
Asian hornet in England



Six nests destroyed



Eradicated 2016, 2017, 2018

Thank you to all the volunteer recorders and our collaborators. Additional thanks to Stuart Roberts and Matt Smith for verifying records of hornets

References: Roy et al. (2014) *Global Change Biology* 20, 3859-3871; Roy et al. (2018) *Journal of Applied Ecology* 55, 526-538; Roy et al. (2018) *Global Change Biology*