

Invasive Alien Plant Species A year on...

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TII NATIONAL ROADS CONFERENCE

WEDNESDAY, 28TH OF SEPTEMBER, 2016

Contents of Presentation

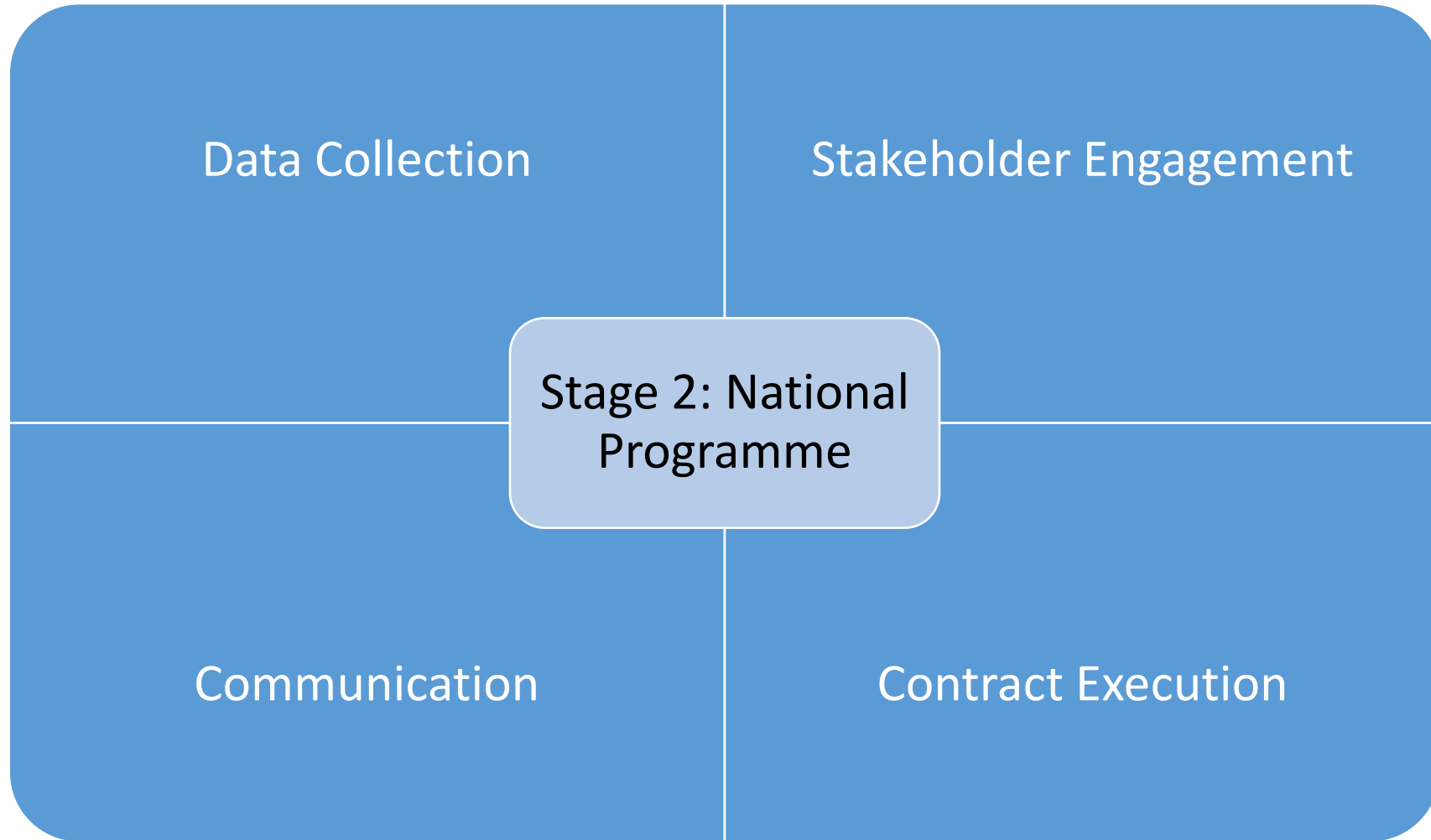


Contents of Presentation

Invasive Alien Plant Species (IAPS) Project

1. Stage 1: Pilot Programme 2014/2015
2. Stage 2: National Programme 2015/2016

Contents of Presentation



**Invasive alien plant species-
what are the risks?**

IAPS: What are the risks?

Consequences

- Cost
- Damage to infrastructure
- Impacts on biodiversity/creation of monocultures

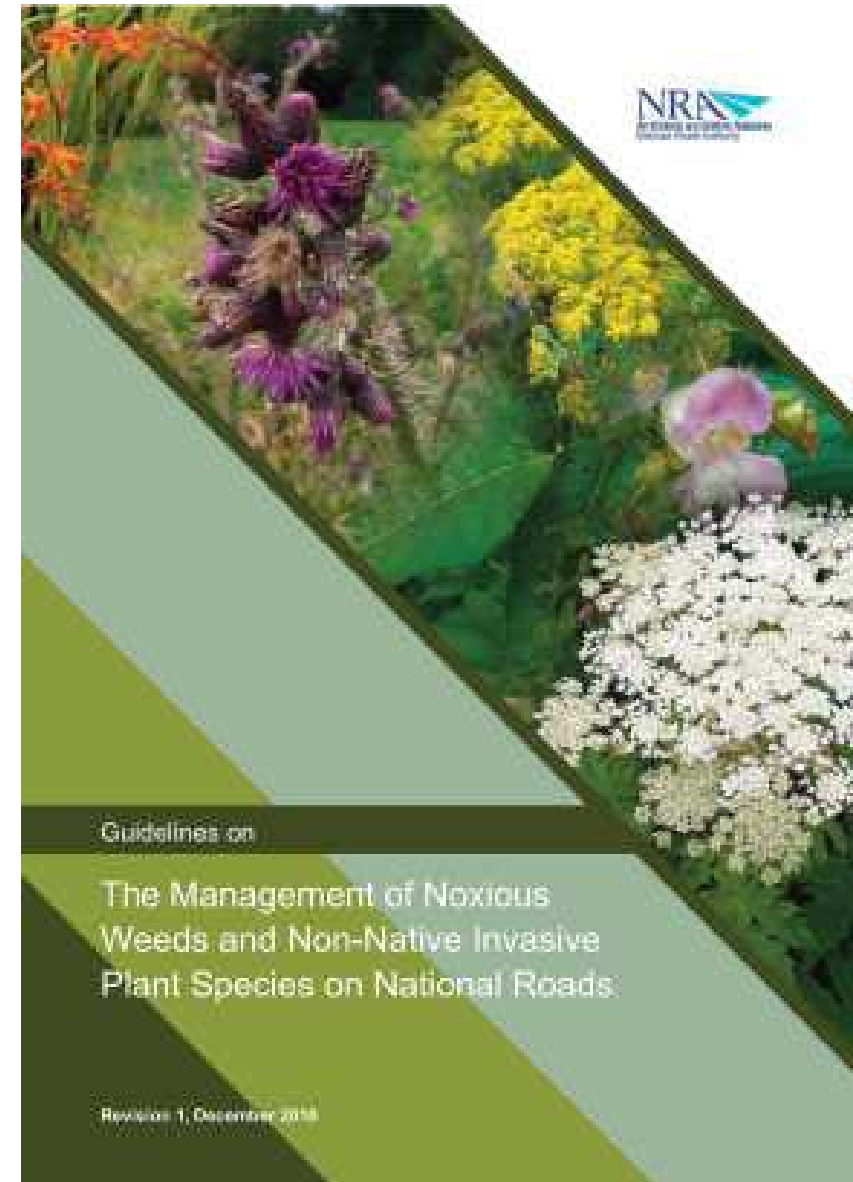




2006: Good practice guidelines on noxious weeds and IAPS

2010: Updated guidelines to include new innovation in IAPS control

2014/15: Pilot research programme to develop a national strategy for control



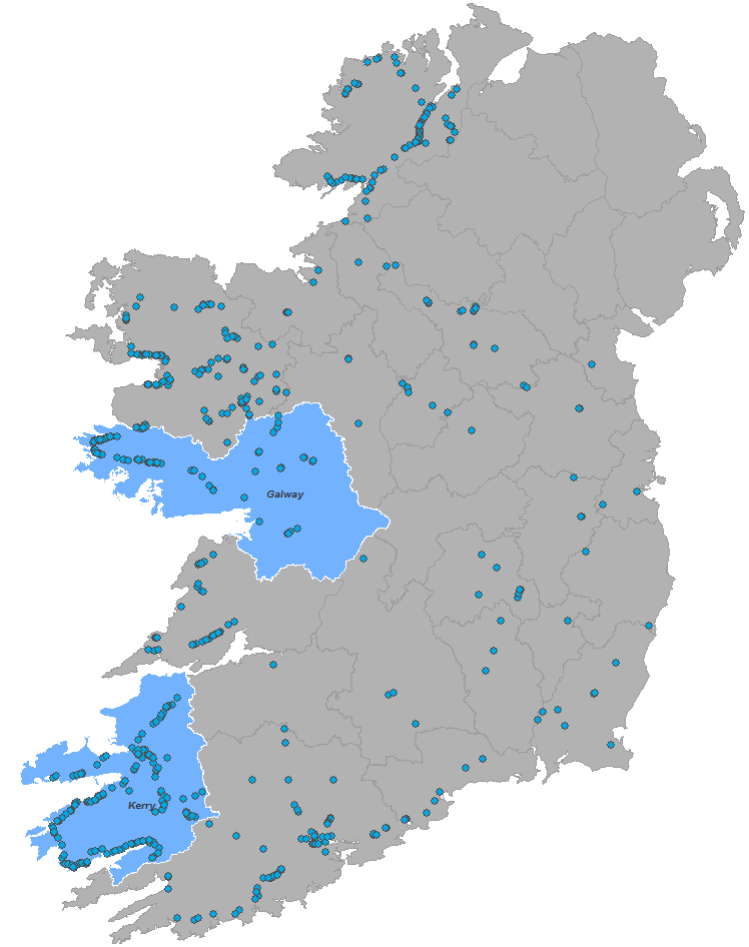
Data collection for the management of Japanese and other knotweed species

Data Collection

NRA GeoApp & The Map Portal

Defects database system for local authorities and NRA staff

Pilot Study Galway & Kerry



Data Collection Stage 1

TII Pilot Treatment Programme

Developed a method to survey and measure scale of infestations using Google Earth Pro

Treatment programme N70 Kerry in September 2015- 10,000m² Japanese knotweed treated



TII Pilot Treatment Programme



TII Pilot Treatment Programme



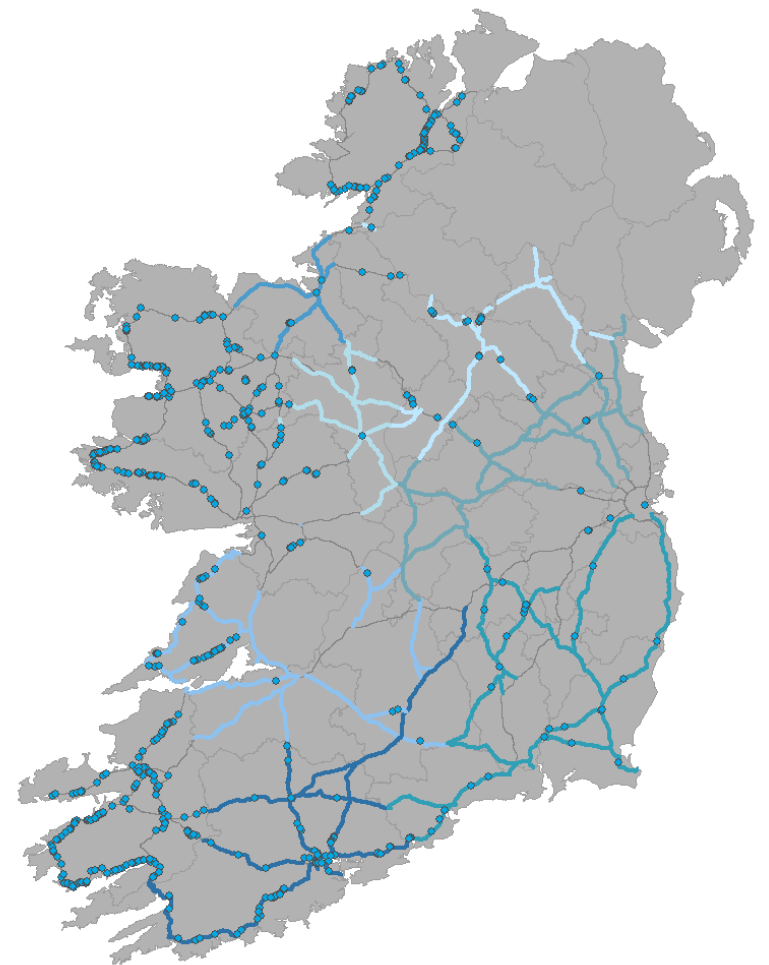
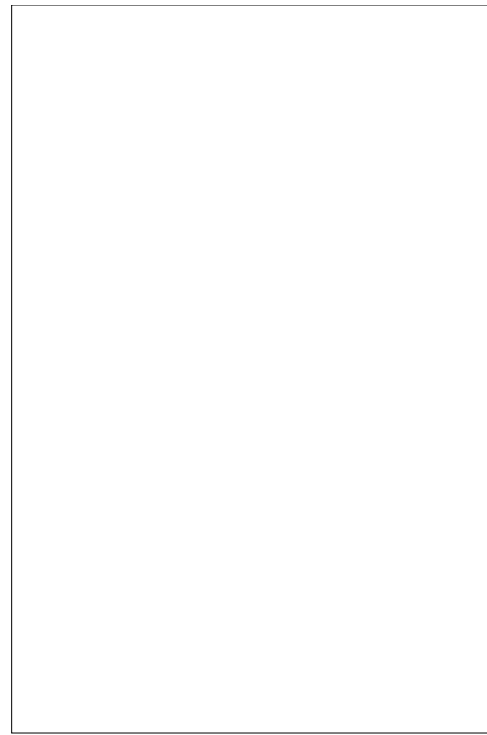
Data Collection Stage 2

NRO/ PO Data Collection

Clarify data collected to date

Inform the extent of the treatment programme for September 2016

Help prepare lots for call off contracts



Data Collection Stage 2

Map tracks your position

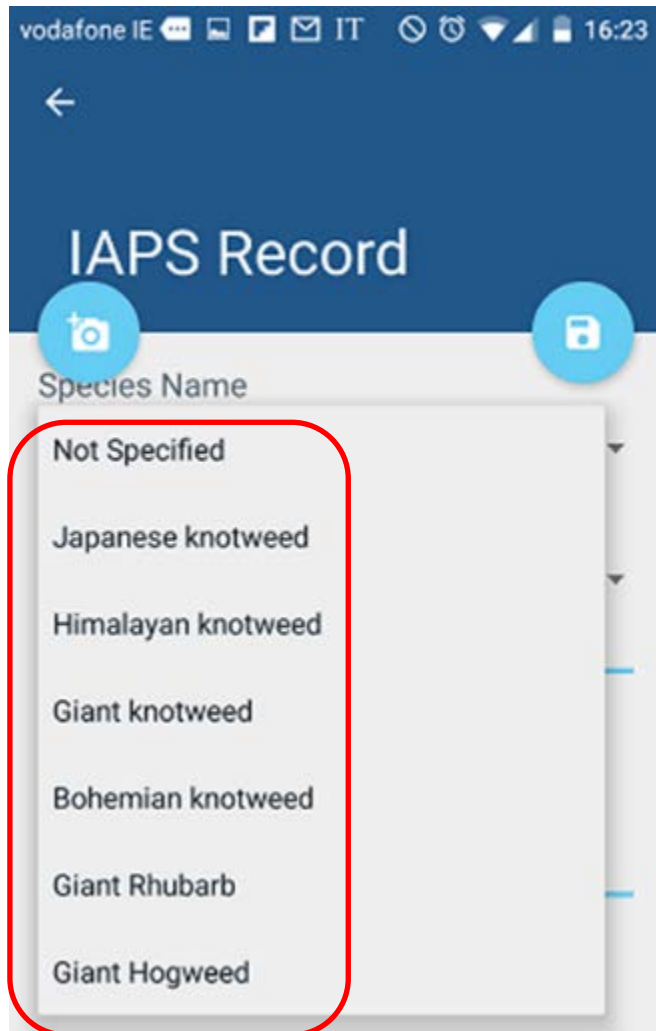
Drop a pin on the infestation

Add required information



TII IAPS
Surveys

Data Collection Stage 2



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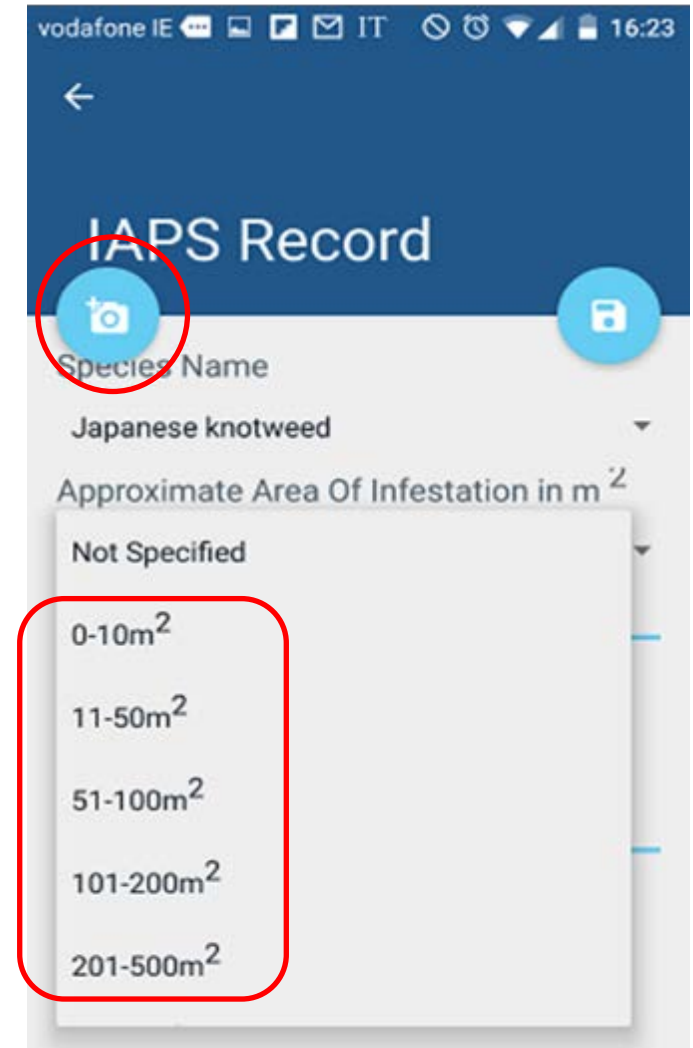
IAPS Record

Species Name

- Not Specified
- Japanese knotweed
- Himalayan knotweed
- Giant knotweed
- Bohemian knotweed
- Giant Rhubarb
- Giant Hogweed

This screenshot shows the 'IAPS Record' app interface. The 'Species Name' dropdown menu is open, displaying a list of species options. A red rounded rectangle highlights the entire list of species names.

- ❖ TII Defined List Of Species
- ❖ TII Defined Bandings



vodafone IE 16:23

IAPS Record

Species Name

Japanese knotweed

Approximate Area Of Infestation in m²

- Not Specified
- 0-10m²
- 11-50m²
- 51-100m²
- 101-200m²
- 201-500m²

This screenshot shows the 'IAPS Record' app interface. The 'Approximate Area Of Infestation in m²' dropdown menu is open, displaying a list of area banding options. A red rounded rectangle highlights the entire list of area bandings. Additionally, a red circle highlights the camera icon in the top left corner of the app header.

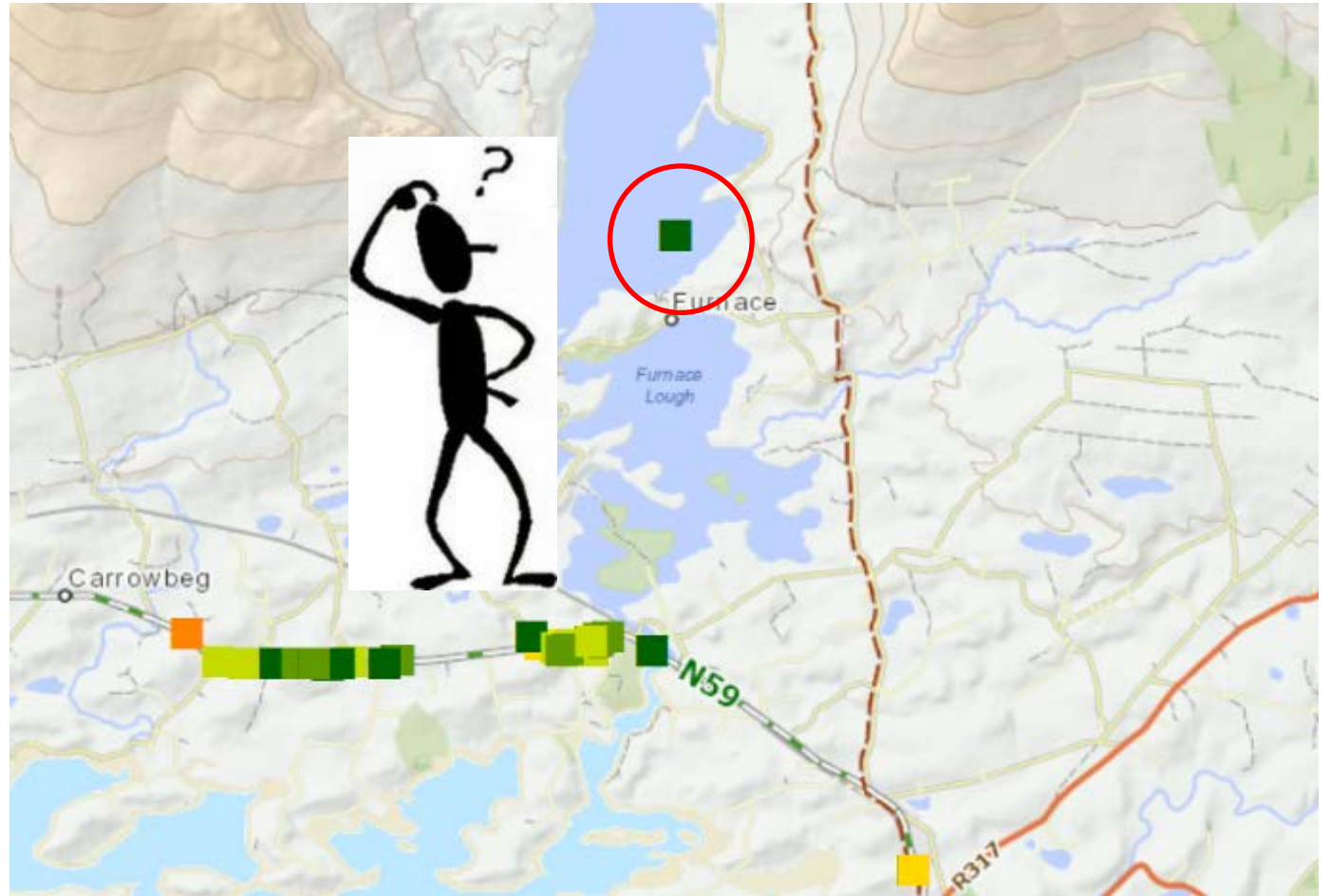
Data Collection Stage 2

Issues Encountered

Functionality/Usability

Uploading the data

Difficulties assessing the size of infestations



Stakeholder engagement for the management of Japanese and other knotweed species

Stakeholder Engagement

NPWS Interagency Working Group

“to consider the implications for various Department’s and agencies around the implementation of the EU regulation on invasives as well as the provisions in our domestic legislation which deal with this issue”

Members include:

Dept. of Agriculture, Food and the Marine

Dept. of Arts, Heritage, Regional, Rural &

Gaeltacht Affairs

Dept. of Transport, Tourism & Sport

*Dept. of Housing, Planning, Community & Local
Government*

Dept. of Foreign Affairs & Trade

OPW

Waterways Ireland

National Biodiversity Data Centre

Inland Fisheries Ireland

Stakeholder Engagement



An Roinn Iompair
Turasóireachta agus Spóirt

Department of Transport,
Tourism and Sport



IFA



Department of
**Agriculture,
Food and the Marine**

An Roinn
**Talmhaíochta,
Bia agus Mara**

Communication of the management of Japanese and other knotweed species

Communication

Hedge Cutting Flier

Japanese Knotweed
Do Not Cut! - Avoid and Report



Foliage



Leaves



Flowers



Winter stems



Communication

Important Note:

Those engaged in road-side hedge-cutting may be guilty of an offence if they allow or cause the dispersal or spread of Japanese knotweed in the course of their work. In order to avoid potential liability you should:

- **Avoid it!** Japanese knotweed plants and an area of seven meters offset from visible infestations should not be disturbed in any way. Do not cut or trim Japanese knotweed! Cutting or trimming can generate thousands of small fragments, each of which can regenerate into a new plant.
- **Report it!** The location and extent of the infestation should be reported to the relevant Area Engineer of your local authority.



National Ploughing Championships 2015



Kerry Japanese Knotweed
awareness and survey project

Communication

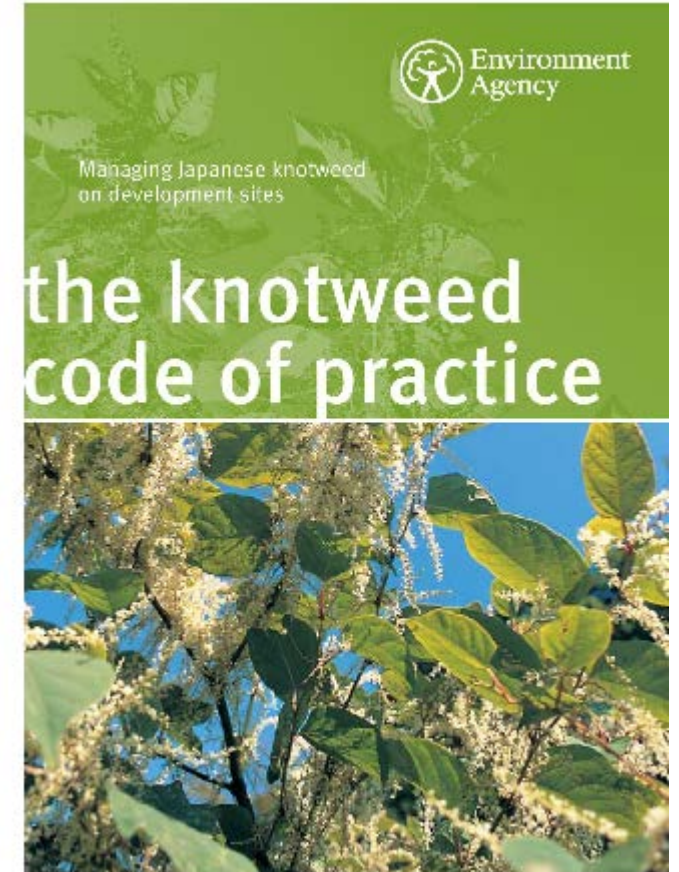
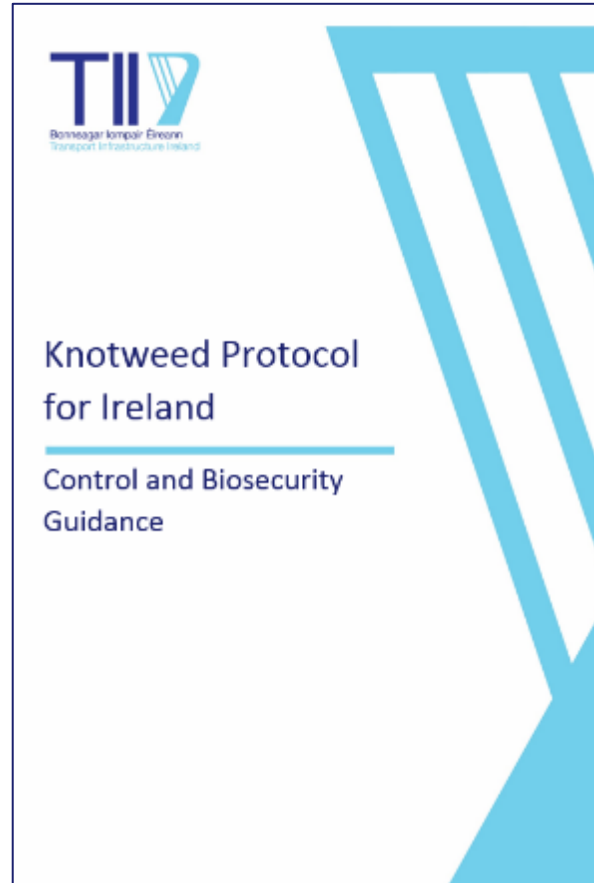
Japanese knotweed Protocol



*An Roinn
Ealaíon, Oidhreachta agus Gaeltachta*
**Department of
Arts, Heritage and the Gaeltacht**



**Iascach Intíre Éireann
Inland Fisheries Ireland**



Communication

Presentations

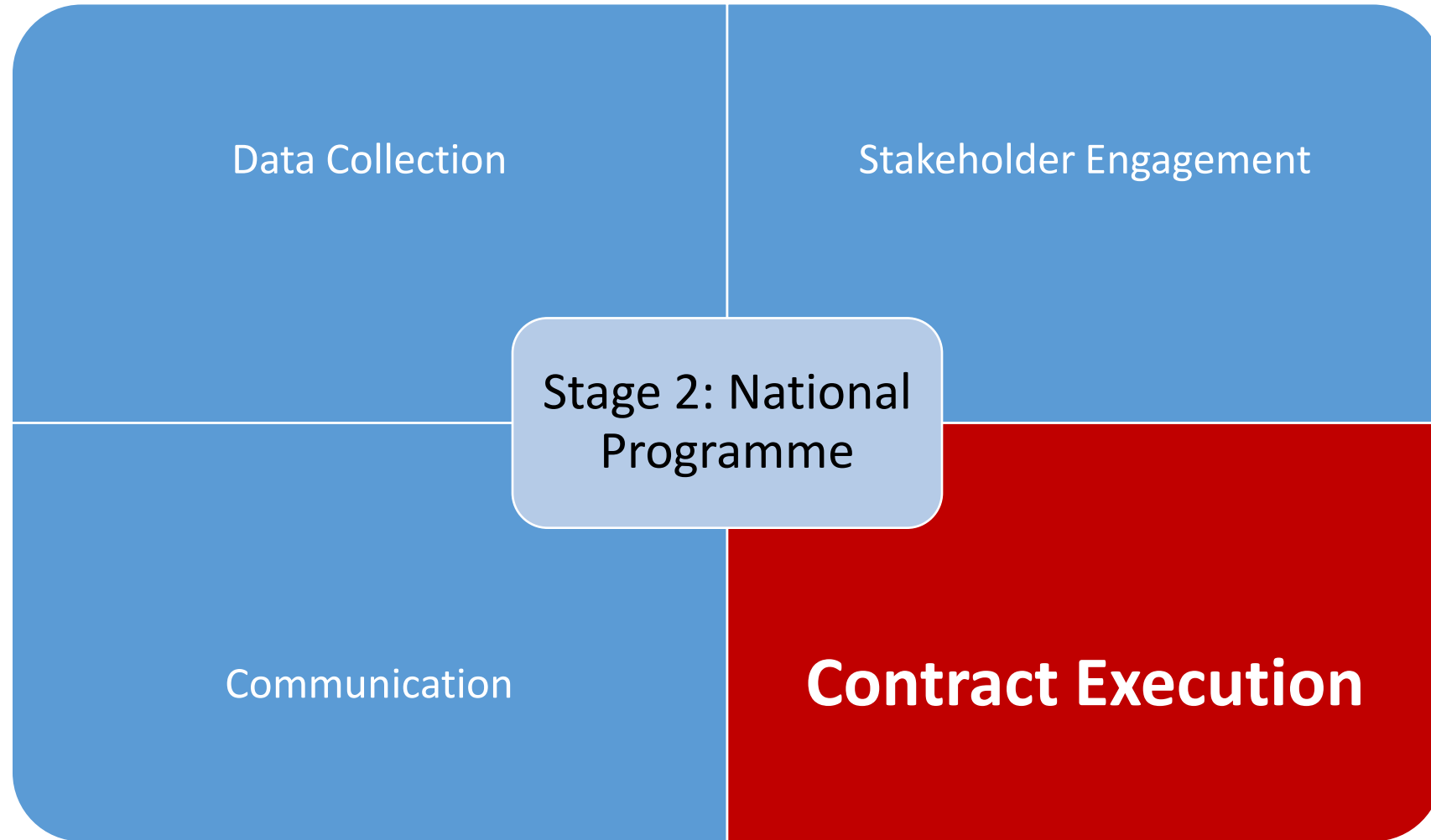


Comhairle Chontae na Gaillimhe
Galway County Council



Contract Execution

Contract Execution – Overview



Contract Execution – Overview

Market Consultation

Information Memorandum and Pre-
Qualification Questionnaire (Stage 1)

Framework Agreement (Stage 2)

Call-Off Contracts

Contract Execution – Market Consultation

Market Consultation

Information Memorandum and Pre-
Qualification Questionnaire (Stage 1)

Framework Agreement (Stage 2)

Call-Off Contracts

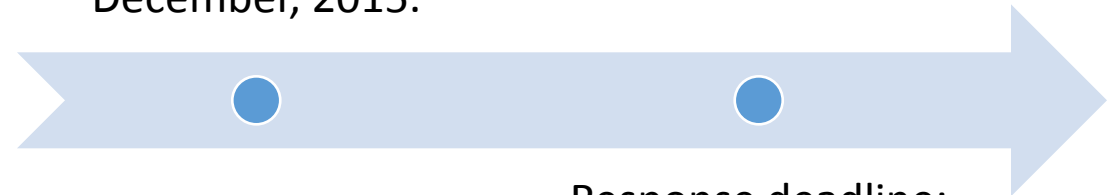
Contract Execution – Market Consultation

- Received 31 completed questionnaires.
- Met with two Contractors.
- The aim of Market Consultation was:
 - to assist TII in identifying:

‘The number, size, capacity and form of contractors capable of performing potential contracts [...] to manage [IAPS] on the Irish national road network.’

- to flag the potential for future work and prompt early preparation.

Publication date: 21st
December, 2015.



Response deadline:
29th January, 2016.

Contract Execution – Pre-Qualification (Stage 1)

Market Consultation

**Information Memorandum and Pre-
Qualification Questionnaire (Stage 1)**

Framework Agreement (Stage 2)

Call-Off Contracts

Contract Execution – Pre-Qualification (Stage 1)

- Pass/Fail criteria include:

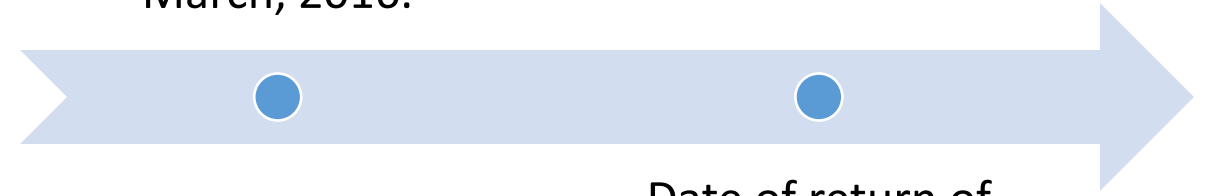
- **Financial & economical standing:** minimum average turnover over the past 3 years should be €100k (ex. VAT);

- **Experience and technical capacity:** one contract performed in the last five years relating to the treatment of IAPS with a minimum value of €10,000;

- **Resources and sub-contractors/consultants:** health and safety manager, competent person, 2 registered professional users, ecologist or horticulturalist, GIS technician and land surveyor.

- **Safety and Health:** Competent to fulfil the roles of PSDP, PSCS and Works Contractor.

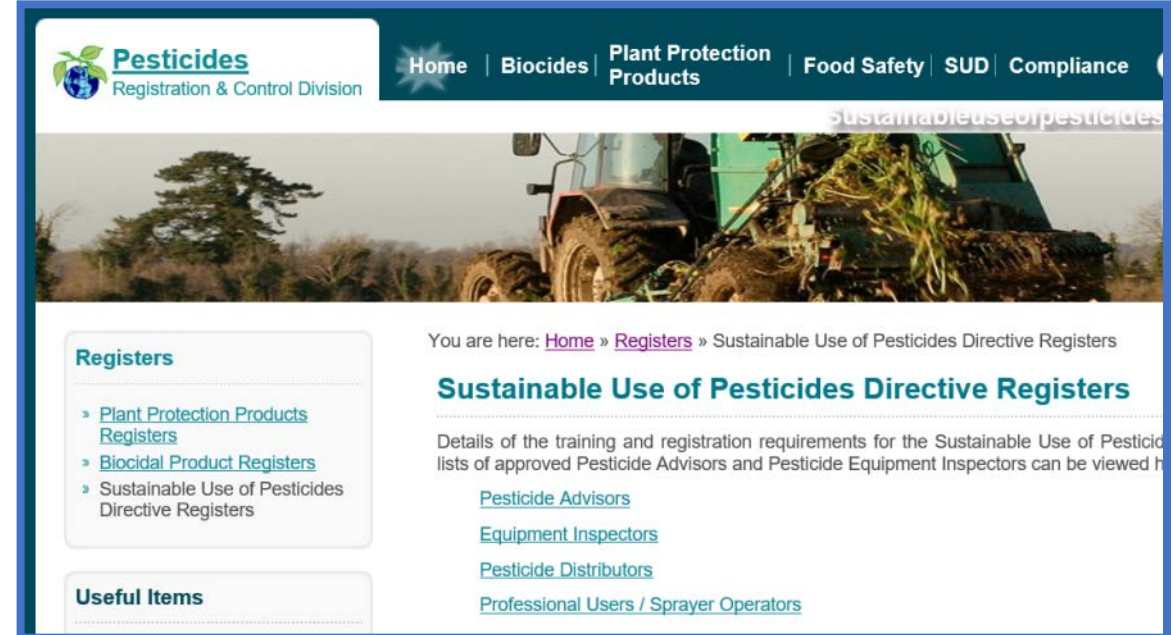
Publication date: 7th
March, 2016.



Date of return of
PQQ: 15th April, 2016.

Contract Execution – Pre-Qualification (Stage 1)

- Resources and sub-contractors/consultants to include:
 - 2 Registered Professional Users;
 - Ecologist or Horticulturalist;
 - GIS Technician; and,
 - Land Surveyor.
- Access to the advice of a Registered Pesticide Advisor.



The screenshot displays the website for the Pesticides Registration & Control Division. The header includes the division's logo and navigation links for Home, Biocides, Plant Protection Products, Food Safety, SUD, and Compliance. The main content area features a banner image of a tractor in a field. Below the banner, a breadcrumb trail indicates the current page: Home » Registers » Sustainable Use of Pesticides Directive Registers. The page title is "Sustainable Use of Pesticides Directive Registers". The main text states: "Details of the training and registration requirements for the Sustainable Use of Pesticides lists of approved Pesticide Advisors and Pesticide Equipment Inspectors can be viewed here". There are four hyperlinks: "Pesticide Advisors", "Equipment Inspectors", "Pesticide Distributors", and "Professional Users / Sprayer Operators". A sidebar on the left contains a "Registers" section with links to "Plant Protection Products Registers", "Biocidal Product Registers", and "Sustainable Use of Pesticides Directive Registers", and a "Useful Items" section.

Contract Execution – Pre-Qualification (Stage 1)

- 34 returned Pre-Qualification Questionnaires:
 - 12 either withdrew or were issued with regret letters;
 - 11 passed; and,
 - 11 passed with clarification/s.
-

Contract Execution – Framework Agreement (Stage 2)

Market Consultation

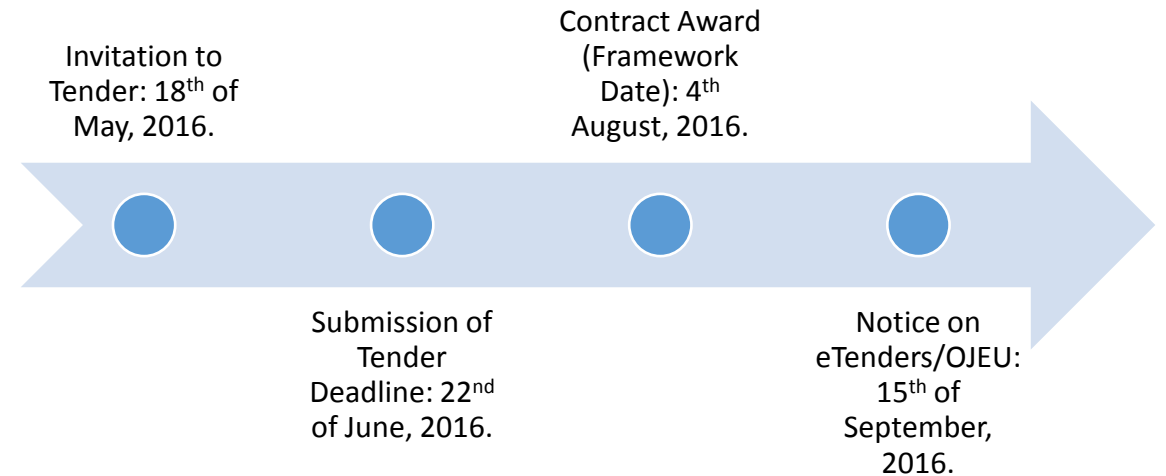
Information Memorandum and Pre-
Qualification Questionnaire (Stage 1)

Framework Agreement (Stage 2)

Call-Off Contracts

Contract Execution – Framework Agreement (Stage 2)

- Six documents sent to shortlisted Tenderers:
 - Instructions to Tenderers;
 - **Specimen Works Requirements;**
 - **Specimen Works Drawing;**
 - Form of Tender;
 - Pricing Document; and,
 - Framework Agreement.



Contract Execution – Framework Agreement (Stage 2)

- Specimen Works Requirements and Drawing:
'To assist Tenderers in preparing their Quality Submission and Pricing Document ...'
- Specimen Works Requirements:
 - Communication with Adjacent Landowners;
 - Surveying;
 - Geographic Information Systems and Reporting;
 - Signing knotweed infestations;
 - Traffic Safety and Management;
 - Eradication of IAPS; and,
 - Carrying out role of PSDP and PSCS.



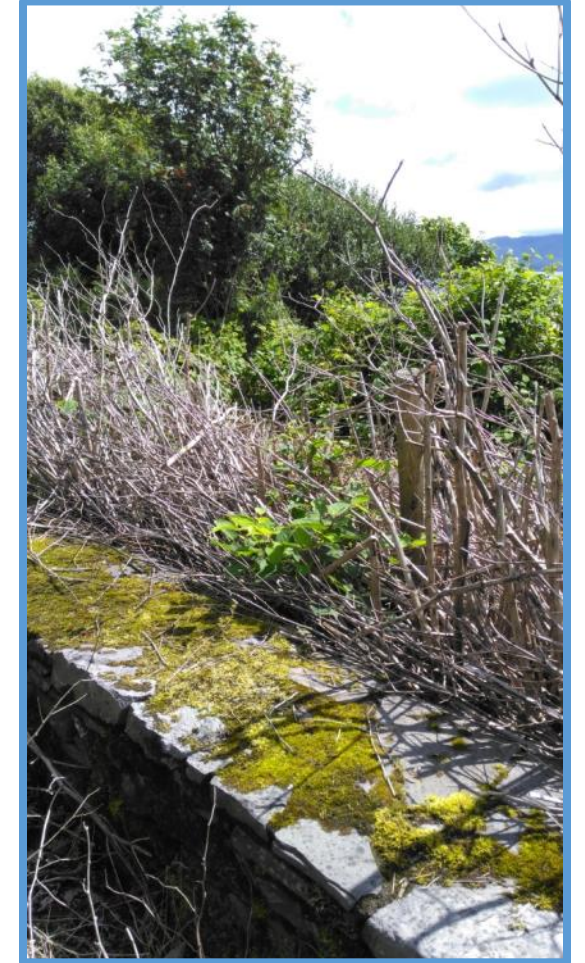
Contract Execution – Framework Agreement (Stage 2)

Definition of ‘eradication’

The term ‘eradication’ means the complete removal of Japanese and other knotweed species and *Gunnera tinctoria* within a three year period. Whether ‘eradication’ of Japanese and other knotweed species and *Gunnera tinctoria* has been achieved will be determined after the growing season in the fourth year has finished.



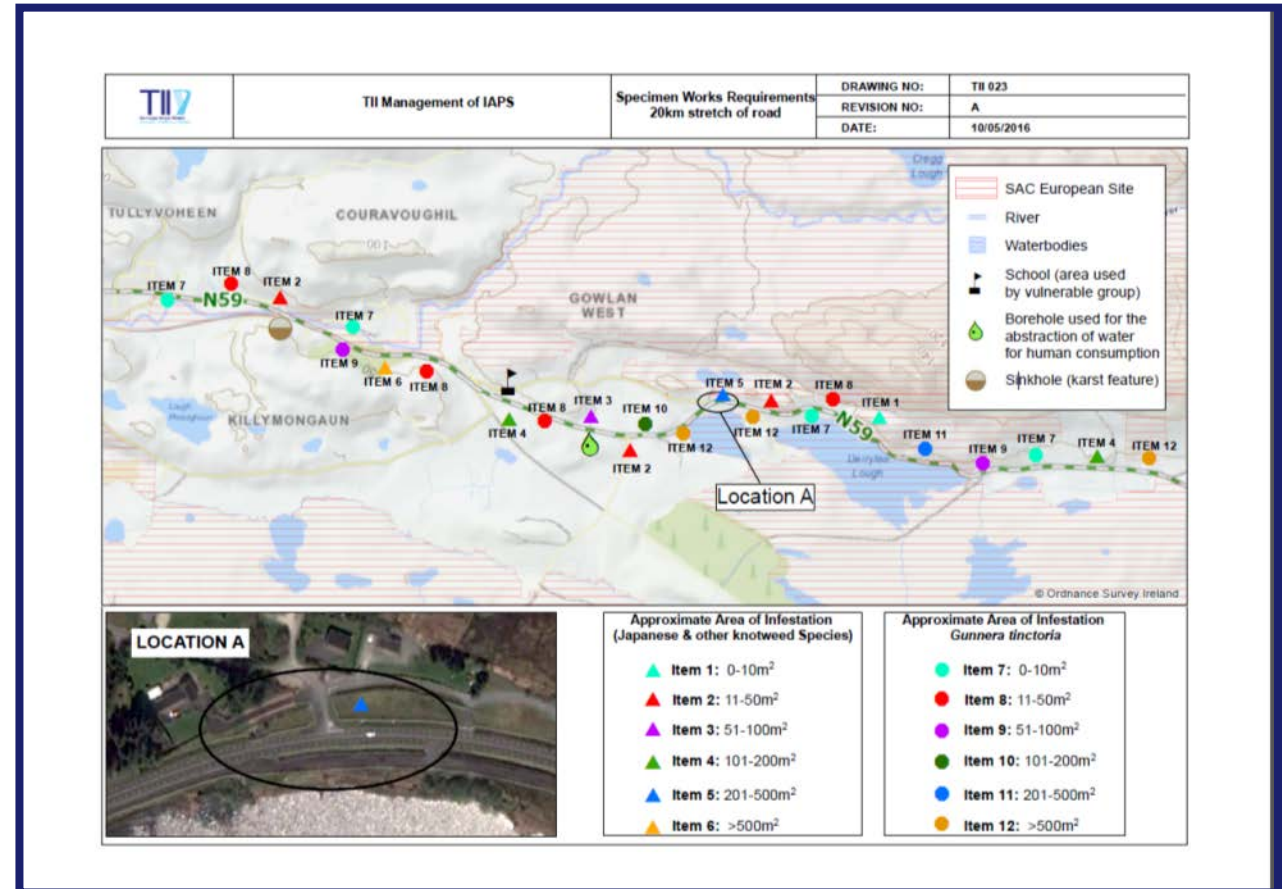
Himalayan knotweed on N59 Moycullen Bypass.



Japanese knotweed regrowth 1 year after treatment on N70.

Contract Execution – Framework Agreement (Stage 2)

- Areas where there are restrictions and, in some cases, prohibitions, on the use of pesticides include:
 - areas for the abstraction of drinking water;
 - areas with sealed or very permeable surfaces;
 - groundwater vulnerable areas;
 - areas used by the general public or defined vulnerable groups; and,
 - European sites.



Contract Execution – Framework Agreement (Stage 2)

- Tenders will consist of:
 - Completed and executed Form of Tender;
 - Completed Pricing Document;
 - Completed Quality Submission; and,
 - Evidence to support the educational and professional qualifications of key personnel.
 - 30% Price and 70% Quality.
 - 15 Framework Participants.
-

Contract Execution – Call-Off Contracts

Market Consultation

Information Memorandum and Pre-
Qualification Questionnaire (Stage 1)

Framework Agreement (Stage 2)

Call-Off Contracts

Contract Execution – Call-Off Contracts

- Creation of suite of **template documents**:
 - *Aide Mémoire*;
 - Deed of Adherence;
 - Information Pack;
 - Instructions to Tenderers;
 - Invitation to Tender;
 - Preliminary Health and Safety Plan;
 - Volume A – Works Requirements;
 - Volume B – Tender and Schedule; and,
 - Volume C – Pricing Document.
-

Contract Execution – Call-Off Contracts

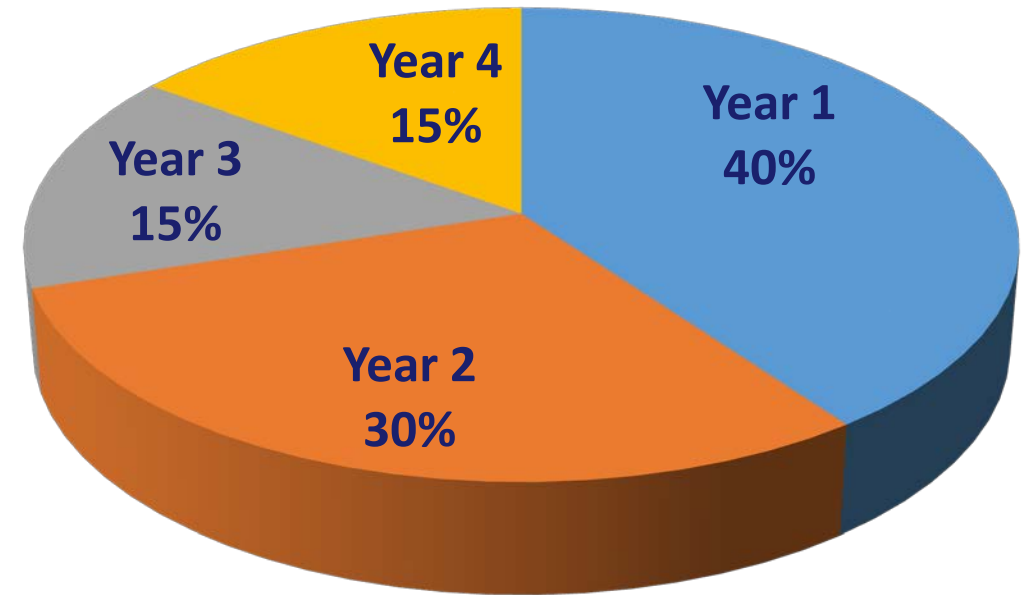
Payment Schedule

Year 1: 40% of Call-Off Contract.

Year 2: 30% of Call-Off Contract.

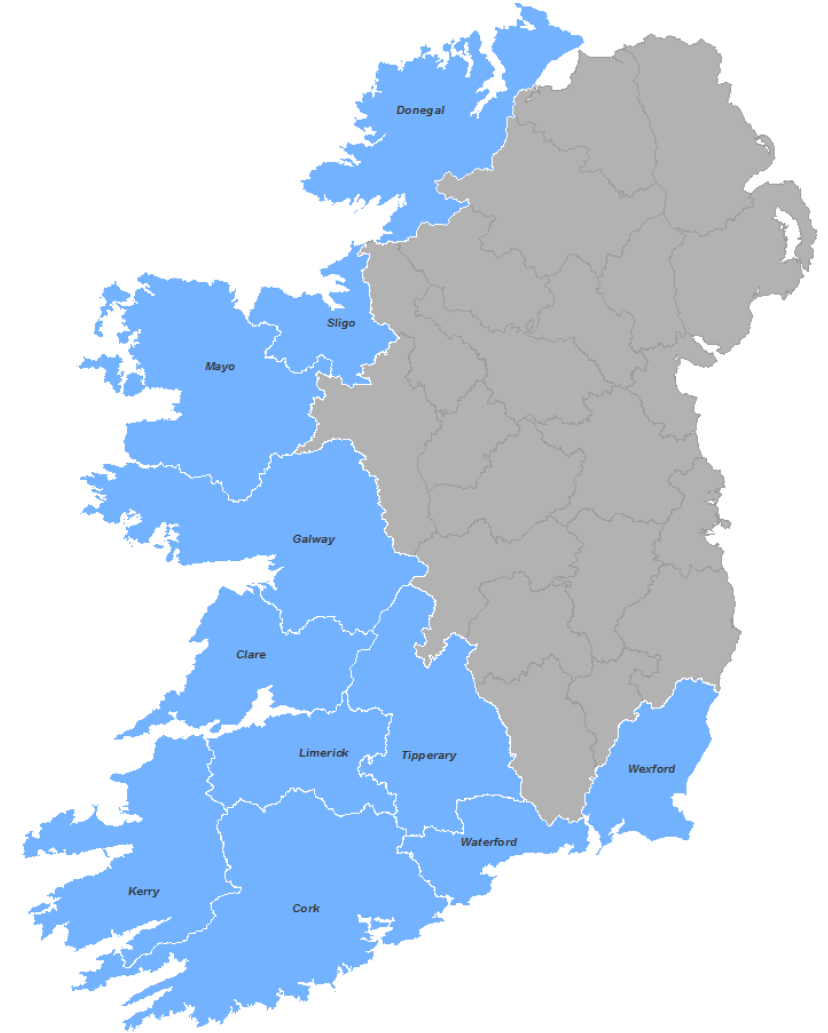
Year 3: 15% of Call-Off Contract.

Year 4: 15% of Call-Off Contract.

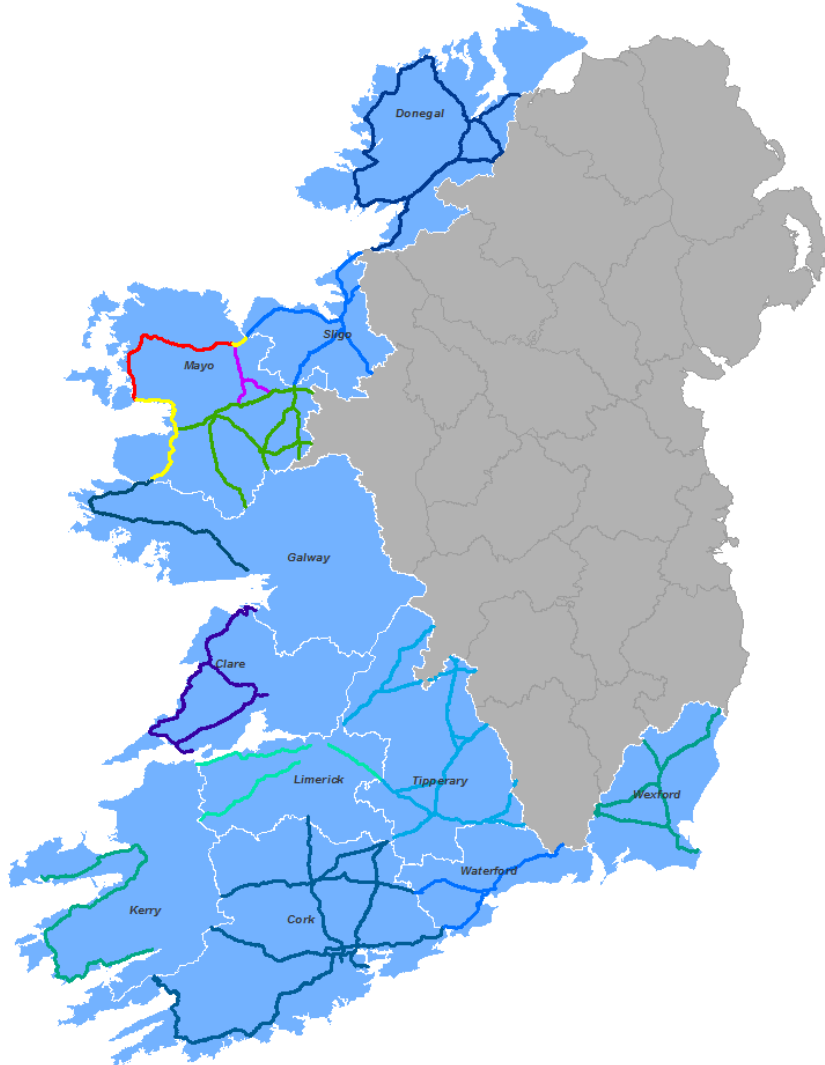


Contract Execution – Call-Off Contracts

- 11 Priority 1 Counties:
Donegal, Sligo, Mayo,
Galway, Clare, Tipperary,
Limerick, Kerry, Cork,
Waterford and Wexford.



Contract Execution – Call-Off Contracts



- 15 Call Off Contracts, including:
 - County Clare;
 - Mayo County Council Management of Invasive Alien Plant Species Lot 1 – N59 Westport to Mulranny Contract;
 - Mayo County Council Management of Invasive Alien Plant Species Lot 2: N84, N60, N17, N83 & N5 Contract;
 - Mayo County Council Management of Invasive Alien Plant Species Lot 3: N59 (excl. N59 Westport to Mulranny), N58 and N26 Contract;
 - Kerry County Council – N70 from Tralee to Kenmare; and,
 - Kerry County Council – N86.

Contract Execution – Call-Off Contracts

- Value of Call-Off Contracts: Approximately €1m over four years.
- 5 different successful Contractors.
- Optimal control of Japanese and other knotweed species is achieved after the flowering period (generally August/September), but prior to senescence (when the plant begins to die back in Autumn) (generally October/November).

Contract Name:	Estimated Start Date:
County Donegal	06 October 2016
County Sligo	03 October 2016
County Mayo - Lot 1	27 September 2016
County Mayo - Lot 2	30 September 2016
County Mayo - Lot 3	04 October 2016
County Galway - Section of N59	Uncertain
County Clare	24 September 2016
County Limerick	Uncertain
County Tipperary	Uncertain
County Kerry - N86	05 October 2016
County Kerry - N70	05 October 2016
County Cork	08 October 2016
Cork City	Uncertain
County Waterford	28 September 2016
County Wexford	10 October 2016

Contract Execution – Call-Off Contracts



County Clare Call-Off Contract: Successful contractor treating on the N68, east of Lissycasey (Monday, 26th of September, 2016).

Contract Execution – Call-Off Contracts

- **Future Work:**
 - Call-Off Contracts for national roads in Priority 2 and 3 Counties in 2017 and 2018;
 - Engagement with DTTAS re: Call-Off Contracts for regional and local roads in Priority 1 Counties.
-

Contract Execution – Contributors



Comhairle Contae Mhaigh Eo
Mayo County Council



Comhairle Chontae na Gaillimhe
Galway County Council



Cork
County Council
Comhairle Contae Chorcaí



SLIGO COUNTY COUNCIL



Comhairle Contae
Dhún na nGall
Donegal County Council



cork
national roads office



Cork
City Council
Comhairle Cathrach Chorcaí



Mid West
National Road Design Office



Comhairle Contae an Chláir
Clare County Council



Comhairle Contae Thiobraid Árann
Tipperary County Council



Kerry NRDO
National Road Design Office
Oifig Deartha um Boithre Náisiúnta Chiarraí



Comhairle Cathrach
& Contae Phort Láirge
Waterford City
& County Council



Kerry County Council
Comhairle Contae Chiarraí



Contract Execution – Contributors

Transport Infrastructure Ireland

- Alastair de Beer Roads and Tunnel Safety
- Ann Church Information Technology
- Billy O’Keeffe Environmental Policy and Compliance
- Christian Nea Environmental Policy and Compliance
- Eoin Scully Information Technology
- Edel McCormick Legal and Governance
- Geraldine Walsh Network Operations
- Harry Cullen Roads and Tunnel Safety
- Herbert Nyamakope Network Operations
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- Mairéad D’Arcy Rail Safety and OHS
- Micheál O’Connor Project Services
- Niall Hayden Information Technology
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- Reddy Morley Rail Safety and OHS
- Sarah-Jane Phelan Environmental Policy and Compliance
- Stephanie Bissett Finance/Accounting
- Stephen Byrne Environmental Policy and Compliance
- Tony Redmond Procurement
- Vincent O’Malley Environmental Policy and Compliance

National Roads Offices/Project Offices

- Anthony Callery Cork NRO
- Con Daly Tramore House NRO
- David Kelly Kildare NRO
- Dara Walsh Kerry NRDO
- Eoin McCarthy Kerry NRDO
- Eamonn Gillen Donegal NRO
- Emer Concannon Sligo PO
- Fergus Meehan Sligo PO
- Frank Joy Kerry NRDO
- Ger Carey Mid West NRDO
- Ger Kearney Kerry NRDO
- Glen Jones Tramore House NRO
- James Vaughan Mid West NRDO
- Jari Howard Mid West NRDO
- Jerry Crowley Cork NRO
- Marian McHugh Mayo Co. Co. NRDO
- Orla Devanny Mid West NRDO
- Sean Devaney Galway NRPO
- Sean Keane Cork NRO
- Tim Fitzgerald Mid West NRDO
- Trevor Gordon Donegal NRO

Local Authorities

- Caroline Conmy Sligo Co. Co.
 - Declan Ginnelly Mayo Co. Co.
 - Eamonn Brennan Sligo Co. Co.
 - Eileen Lorinyenko Donegal Co. Co.
 - Eunan O’Donnell Donegal Co. Co.
 - Jane O’Neill Waterford Co. Co.
 - John Coyle Galway Co. Co.
 - Michael Devery Tipperary Co. Co.
 - Michael F Hayes Tipperary Co. Co.
 - PJ Carmody Clare Co. Co.
 - Tim Murphy Wexford Co. Co.
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Conclusion

Conclusion

Invasive Alien Plant Species (IAPS) Project (Stage 2 – National Programme)

1. Data Collection,
 2. Stakeholder Engagement,
 3. Communication, and
 4. Contract Execution.
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