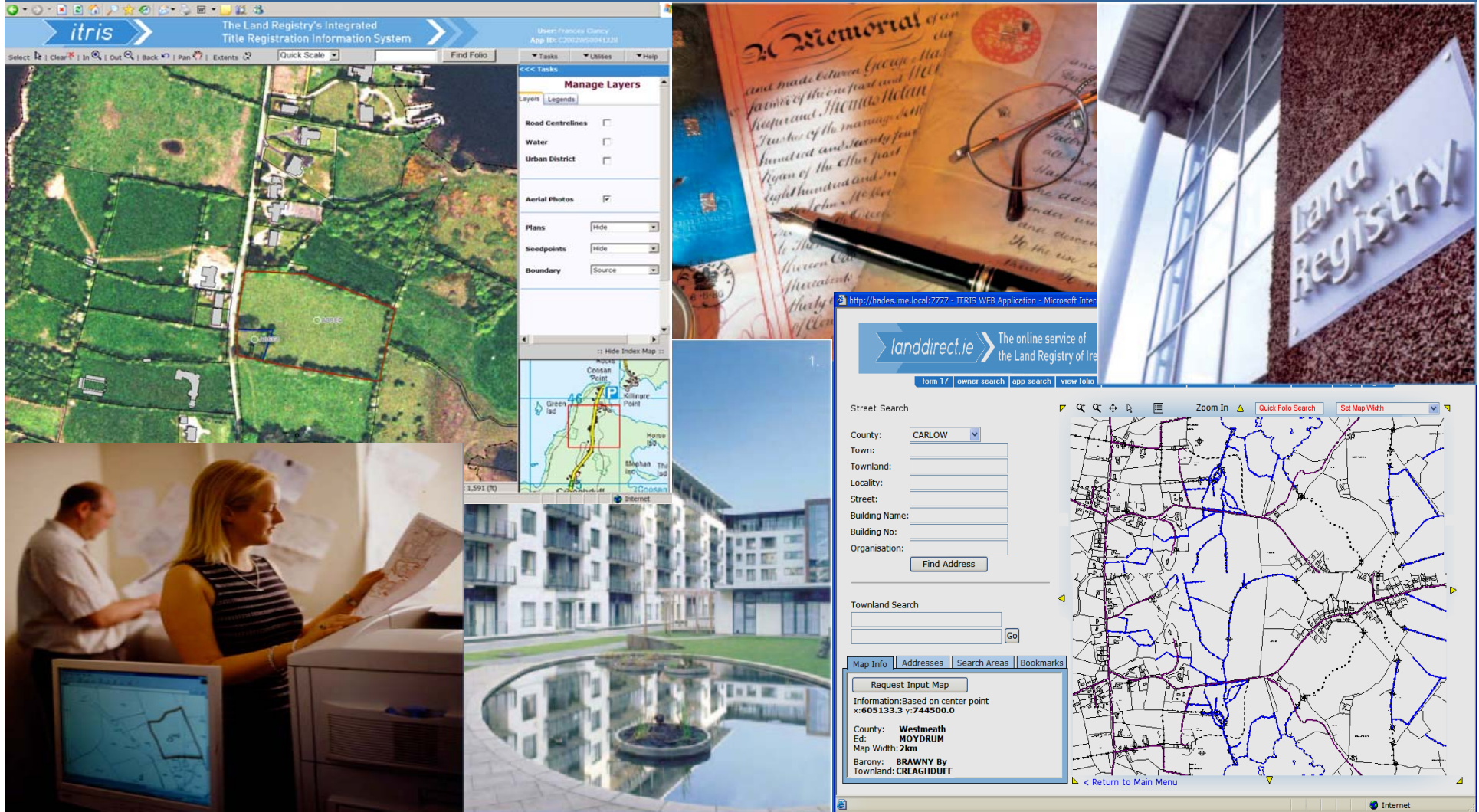


Land Registry Digital Mapping Project



Paul Brent

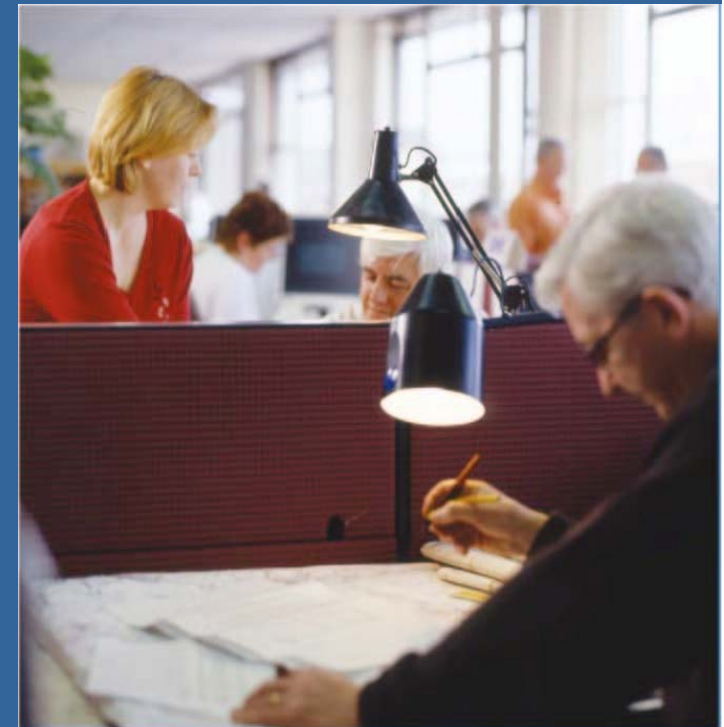
CLGE Conference Cork 8th April 2006

Context

- 90% of land mass and 85% of titles in Ireland registered in Land Registry
- 1.8 million registered titles covering approx. 2.4 million registered land parcels
- About 32,000 OSi paper map sheets on a variety of scales, projections and Map series
- No. of transactions affecting register: approx. 450,000 per annum

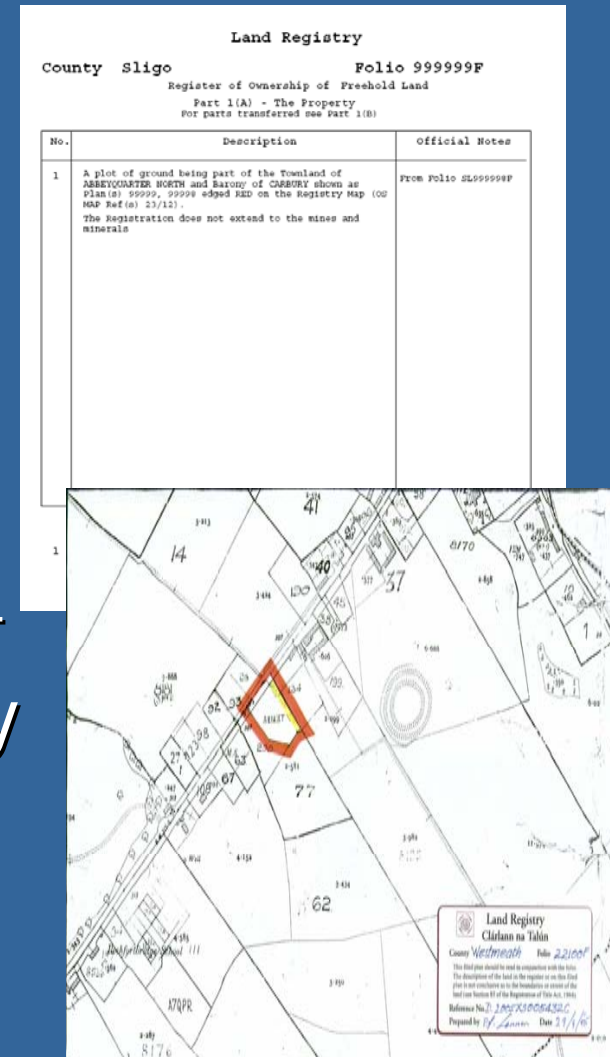
Land Registry Business

- A system of registration of title to land carrying a State Guarantee
- A Public Register
- Over €350 billion worth of housing indemnified in land register (Ireland's GDP 2004 = €148bn)
- Our Mission: *'Safeguarding the Legal, Social and Economic Fabric of Property Ownership'*
- Major reliance on Technology



Electronic Register

- 'Folios' and 'Maps'
- All folios are held in electronic form
- All maps of individual titles (filed plans) available as electronic images since 2004
- Seedpoints for entire country online by April/May 2006



ICT Systems are central to our business



- Online services since 1999: Electronic Access Service (EAS)
- EAS wins two categories and 'best overall' accolade in Irish eGovernment Awards, 2005
- EAS rebranded as

landdirect.ie >>

April 2006

Growth in online services

Year	2000	2001	2002	2003	2004	2005
No. of Subscribers	1,700	2,900	4,400	6,120	7,500	9,200
No. of fee-paying transactions conducted online annually	123,943	159,807	274,561	497,560	769,058	1,044,073

Digital Mapping - Key Elements

- OSi Irish Transverse Mercator (ITM) Vector dataset
 - 1/5000, 1/2500, 1/1000
- OSi Orthophotographs
- GeoDirectory Address Point database
- Graphical locator (seed-point) placed on each registered parcel and indexed to each parcel/folio
- Digitisation of each parcel boundary on a county-by-county basis
- New Filed Plans generated from ITM Digital Map
- Capture of historical LR attribute data for each parcel

Primary Objectives

- Safeguard the map element of the Register
- Improve the quality of customer service
- Facilitate LR participation in national and international initiatives e.g.
 - Irish Spatial Data Infrastructure (ISDI)
 - European Land Information Service (EULIS)
 - INSPIRE


Digital Mapping - Contracts

- Contract No. 1 = System Development and Implementation:
 - Consortium headed by Laser-Scan
 - Proteus Solutions
 - IME (UK)
 - Version [1] Software
- Technology
 - HP: Server and SAN Hardware
 - Oracle 9i Spatial Database
 - AutoDesk (AutoDesk Map, MapGuide, LiteView, Raster Design)
 - Radius Topology

Digital Mapping - Contracts

- Contract No. 2 = Data Conversion:
 - Consortium headed by Landmark
 - Proteus Solutions
 - RMSI
 - Paper Dock
- Extensive external and internal QA programme
- Contracts with OSi and GeoDirectory

Digital Mapping - Current Position

- Work nearing completion on seed-points for *all* counties (Delivery complete, QA well underway)
- Digitisation of first county almost complete (Westmeath)
- Launch of  April 2006
- Online Map Searching to be available from 28th April 2006

The logo for landdirect.ie is a blue horizontal banner with a white double arrow pointing to the right. The text "landdirect.ie" is written in white lowercase letters inside the banner.

landdirect.ie

Online Services now include:

- Search and locate ownership of property using digital
- Use property index to find an address and locate a folio
- Locate digital map via folio number
(Available from 28th April 2006)

- View & print folios and filed plans
- Obtain details of pending and completed applications
- Conduct names index searches
- Request official certified copy folios and filed plans
- Order official copies of Instruments
- Submit an application for registration online

Main Changes for our Customers

- Online map searching available for entire country
- Searches can be conducted using address (GeoDirectory)
- LR using 'upspec'ed' OSi ITM Mapping as backdrop to digitised LR legal boundaries

Main Changes for our Customers

- All subdivision maps to be prepared based on ITM Mapping
 - Land Registry 'ITM Filed Plan'
 - OSi ITM 'Place Map'
- Filed plans always available after digitisation has been completed in a county
- Temporary 'freeze' on subdivision cases while digitisation is underway in that county
- Improved processing of casework

Engaging with Customers

- Extensive communication between Land Registry and professional customers
 - Solicitors, engineers, surveyors, architects, law searching firms etc.
 - Customer Service Group
 - Working Groups with key stakeholders
 - Presentations and Workshops

Engaging with Other Key Stakeholders

- Extensive communication between Land Registry and:
 - OSi
 - GeoDirectory
 - ISDI Working Group
 - Government Departments and Offices
 - e-Conveyancing Project

Outline Timetable

Milestone	Indicative Date
Award contracts	31/5/2005
Go live with seed-points (all counties)	28/04/2006
Digitisation of first county complete (Westmeath)	May 2006
Duration of entire digitisation programme	5 years approx.
Initial Order: Westmeath, Longford, Meath, Carlow, Kilkenny, Wexford, Clare, Louth (order of roll out depends on availability of most up-to-date OSi ITM vector data)	

Note: All dates are indicative only and subject to change

landdirect.ie

The online service of
the Land Registry of Ireland

[form 17](#) [owner search](#) [app search](#) [view folio](#) [request certified copy](#) [map search](#) [scheme map](#) [account](#) [help](#) [logout](#)

Handh

Electronic Access Service

[Application for Registration \(incorporating Form 17\)](#)

[Search by Registered Owner Details](#)

[Search for Application](#)

[View or Print Folio](#)

[Request Certified Copy Document](#)

[Search by Map Details](#)


[Account Maintenance](#)

[Scheme Map for Approval](#)

landdirect.ie Maps

Welcome to the spatial element of landdirect.ie

From here you can go directly to a location on the Land Registry digital map in a number of ways:

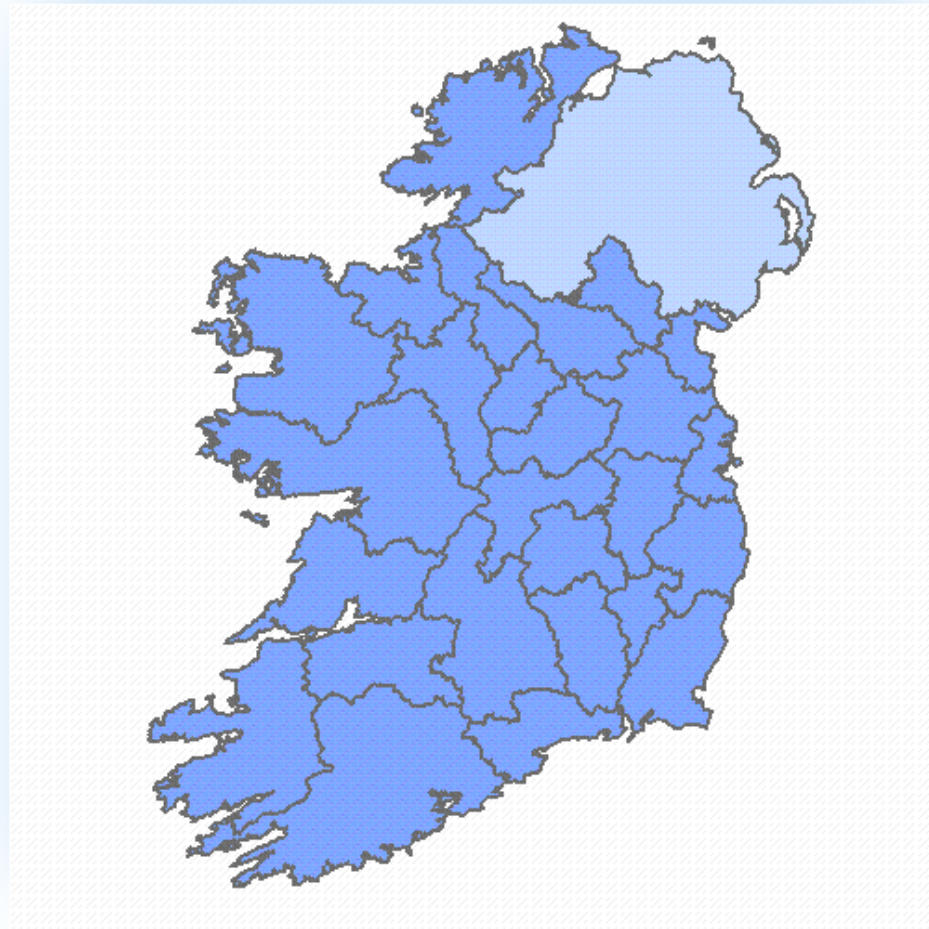
- Select County:
- Folio Search. Key the folio no. (e.g. DN99999F) into the 'Folio Search' box located above the map and then click 'Go'
- Map Navigation. Navigate the Map using the  icon. Simply select the icon, click on the relevant point on the map opposite, drag the mouse to enclose the area in question and release the mouse button. Selecting a smaller area will enable you to zoom directly to that area at a larger scale. You can use the other icons located directly above the map to navigate further within the map.
- Address Search. Click on the 'Addresses' tab below and then enter the relevant information.

Map Detail

Information:Based on center point
East:360,235 North:500,235
Map Width:470Km

Townland:
Ed:
Barony:
County:






Current mode is: Zoom In



landdirect.ie Maps

Welcome to the spatial element of landdirect.ie

From here you can go directly to a location on the Land Registry digital map in a number of ways:

- ▶ **Select County:**
- ▶ **Folio Search.** Key the folio no. (e.g. DN99999F) into the 'Folio Search' box located above the map and then click 'Go'
- ▶ **Map Navigation.** Navigate the Map using the  icon. Simply select the icon, click on the relevant point on the map opposite, drag the mouse to enclose the area in question and release the mouse button. Selecting a smaller area will enable you to zoom directly to that area at a larger scale. You can use the other icons located directly above the map to navigate further within the map.
- ▶ **Address Search.** Click on the 'Addresses' tab below and then enter the relevant information.

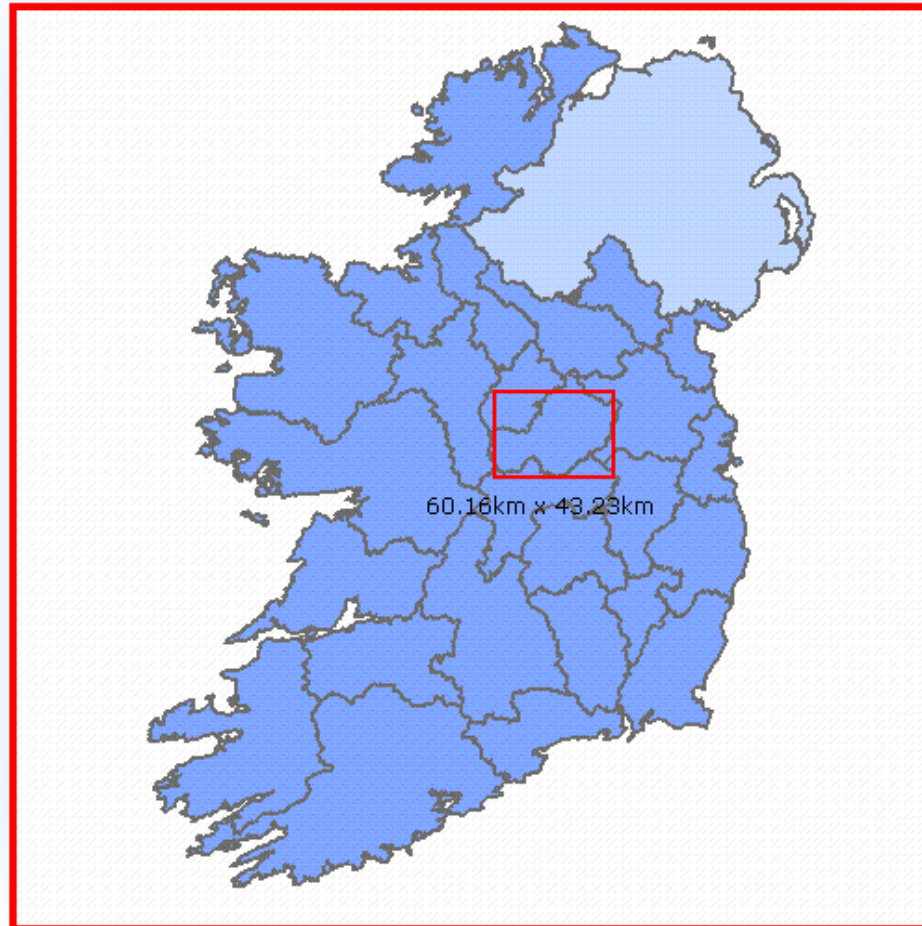
Map Detail | **Addresses** | Bookmarks

Information:Based on center point
East:**360,235** North:**500,235**
Map Width:**470Km**

Townland:
Ed:
Barony:
County:



▾



Current mode is: **Zoom Window**



landdirect.ie


The online service of the Land Registry of Ireland

[form 17](#) [owner search](#) [app search](#) [view folio](#) [request certified copy](#) [map search](#) [scheme map](#) [account](#) [help](#) [logout](#)

landdirect.ie Maps

Welcome to the spatial element of [landdirect.ie](#)

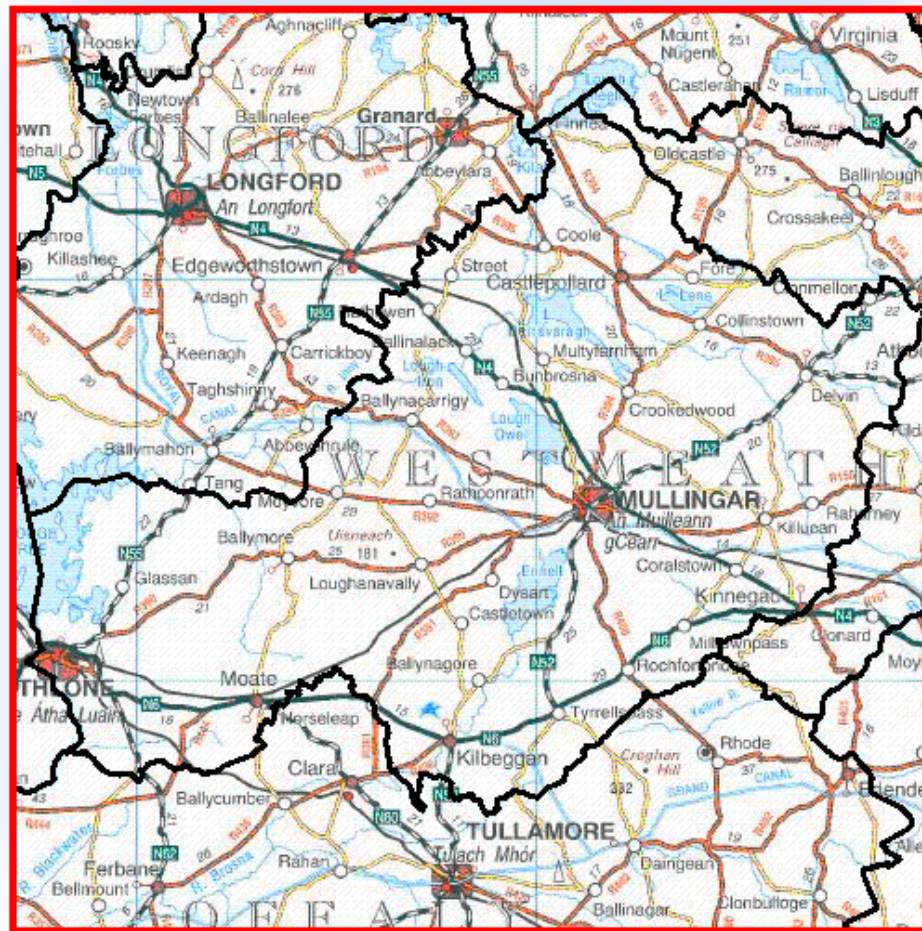
From here you can go directly to a location on the Land Registry digital map in a number of ways:

- ▶ **Select County:**
- ▶ **Folio Search.** Key the folio no. (e.g. DN99999F) into the 'Folio Search' box located above the map and then click 'Go'
- ▶ **Map Navigation.** Navigate the Map using the  icon. Simply select the icon, click on the relevant point on the map opposite, drag the mouse to enclose the area in question and release the mouse button. Selecting a smaller area will enable you to zoom directly to that area at a larger scale. You can use the other icons located directly above the map to navigate further within the map.
- ▶ **Address Search.** Click on the 'Addresses' tab below and then enter the relevant information.

[Map Detail](#) [Addresses](#) [Bookmarks](#)

Information:Based on center point
East:**600,675** North:**720,935**
Map Width:**69.56Km**

Townland: **CARTA**
Ed: **KILMACSHANE**
Barony: **LONGFORD By**
County: **Galway**




Current mode is: **Zoom Window**



landdirect.ie Maps

Welcome to the spatial element of landdirect.ie

From here you can go directly to a location on the Land Registry digital map in a number of ways:

- ▶ **Select County:**
- ▶ **Folio Search.** Key the folio no. (e.g. DN999999F) into the 'Folio Search' box located above the map and then click 'Go'
- ▶ **Map Navigation.** Navigate the Map using the  icon. Simply select the icon, click on the relevant point on the map opposite, drag the mouse to enclose the area in question and release the mouse button. Selecting a smaller area will enable you to zoom directly to that area at a larger scale. You can use the other icons located directly above the map to navigate further within the map.
- ▶ **Address Search.** Click on the 'Addresses' tab below and then enter the relevant information.

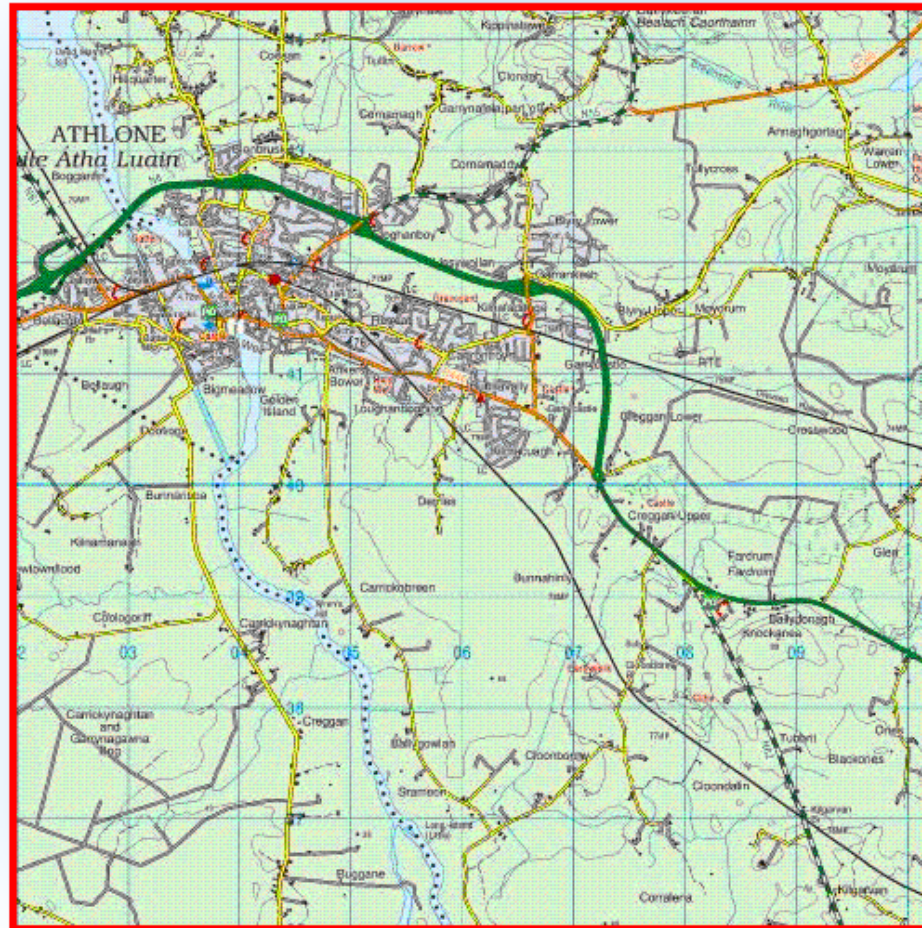
Map Detail | **Addresses** | Bookmarks

Request Input Map

Information:Based on center point
East:601,896 North:735,999
Map Width:8.35Km

Townland: CLOONOWN
Ed: CRANNAGH
Barony: ATHLONE SOUTH By
County: Roscommon






Current mode is: Zoom Window



landdirect.ie Maps

Welcome to the spatial element of [landdirect.ie](#)

From here you can go directly to a location on the Land Registry digital map in a number of ways:

- ▶ **Select County:**
- ▶ **Folio Search.** Key the folio no. (e.g. DN99999F) into the 'Folio Search' box located above the map and then click 'Go'
- ▶ **Map Navigation.** Navigate the Map using the  icon. Simply select the icon, click on the relevant point on the map opposite, drag the mouse to enclose the area in question and release the mouse button. Selecting a smaller area will enable you to zoom directly to that area at a larger scale. You can use the other icons located directly above the map to navigate further within the map.
- ▶ **Address Search.** Click on the 'Addresses' tab below and then enter the relevant information.

Map Detail | **Addresses** | Bookmarks

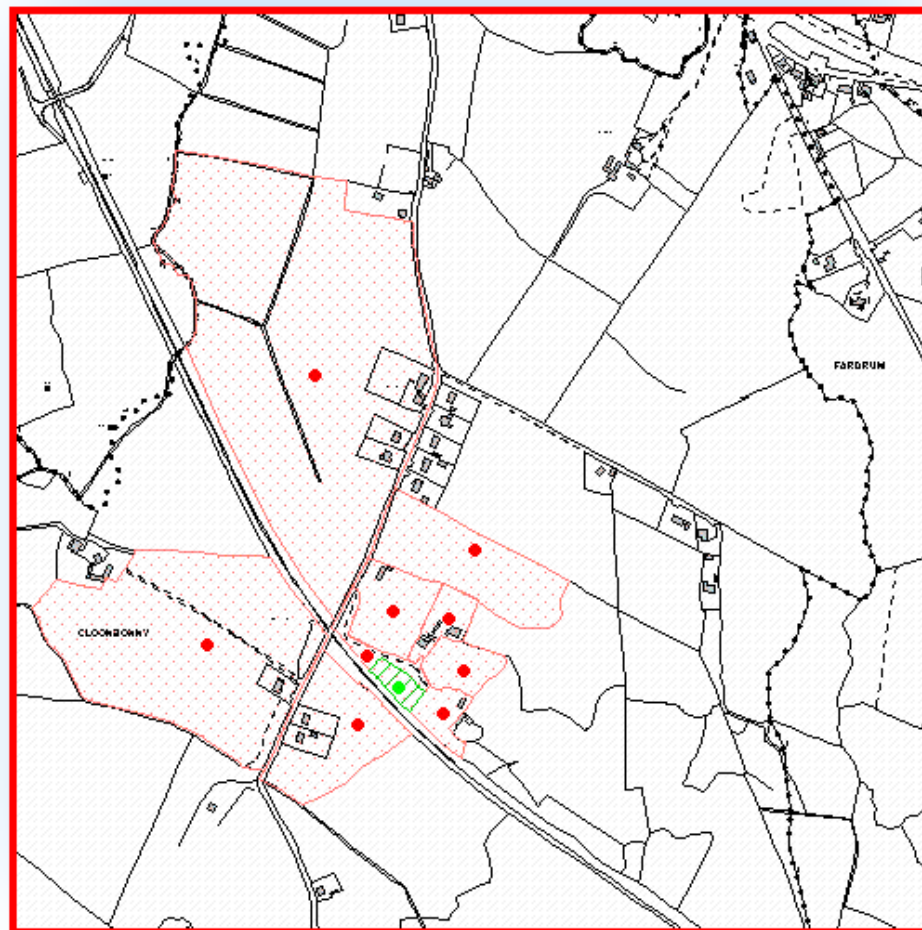
Request Input Map

Information:Based on center point
East:**606,968** North:**737,773**
Map Width:**1.35Km**

Townland: **CLOONBONNY**
Ed: **TUBBRIT**
Barony: **BRAWNY By**
County: **Westmeath**



Folio Search Set Map Width



Current mode is: **Zoom Window**



Address Search

Select County: Westmeath

Zoom to Townland: Enter at least 3 characters

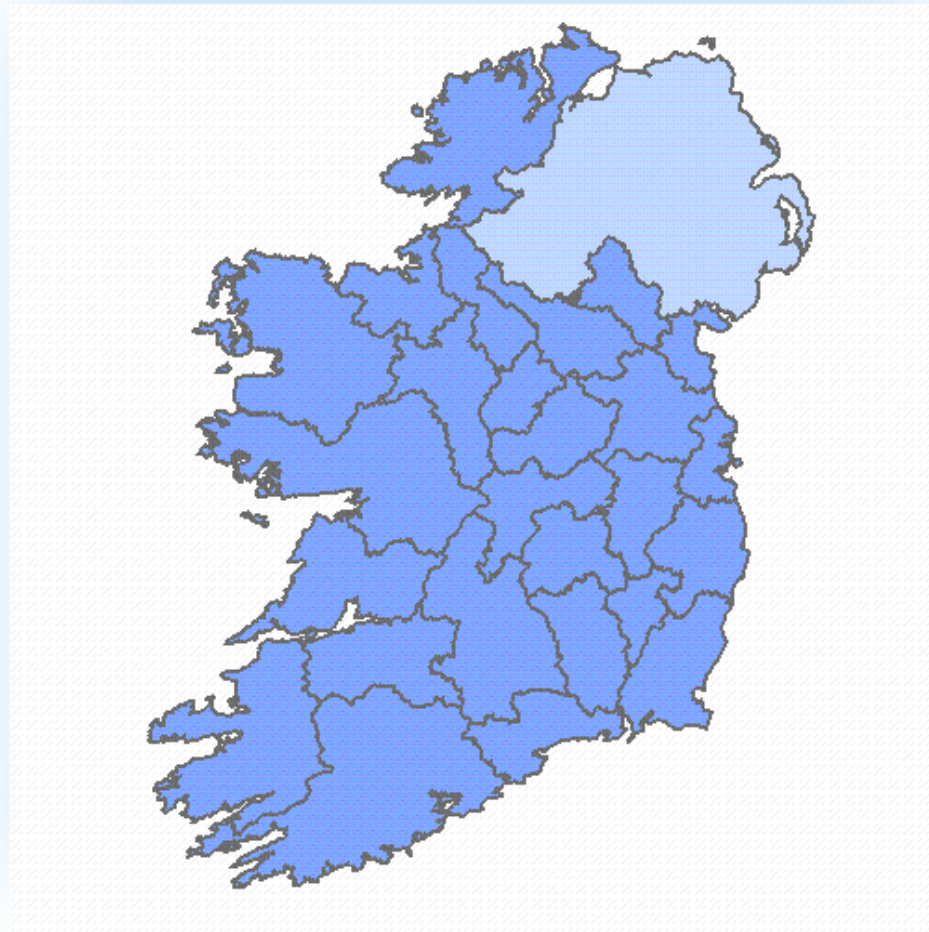
Address Search:

Building No: 11
Building Name:
Street: Willow
Locality:
Townland:
Town: Athlone

Map Detail | Addresses | Bookmarks

- [11 Willow Crescent, Athlone,](#)
Co. Westmeath,
- [11 Willow Park Drive, Athlone,](#)
Co. Westmeath,
- [11 Willow Place, Athlone,](#)
Co. Westmeath,
- [11 Willow View, Athlone,](#)
Co. Westmeath.

Folio Search Go Set Map Width



Current mode is: Zoom In

Address Search

Select County: Westmeath

Zoom to Townland: Enter at least 3 characters

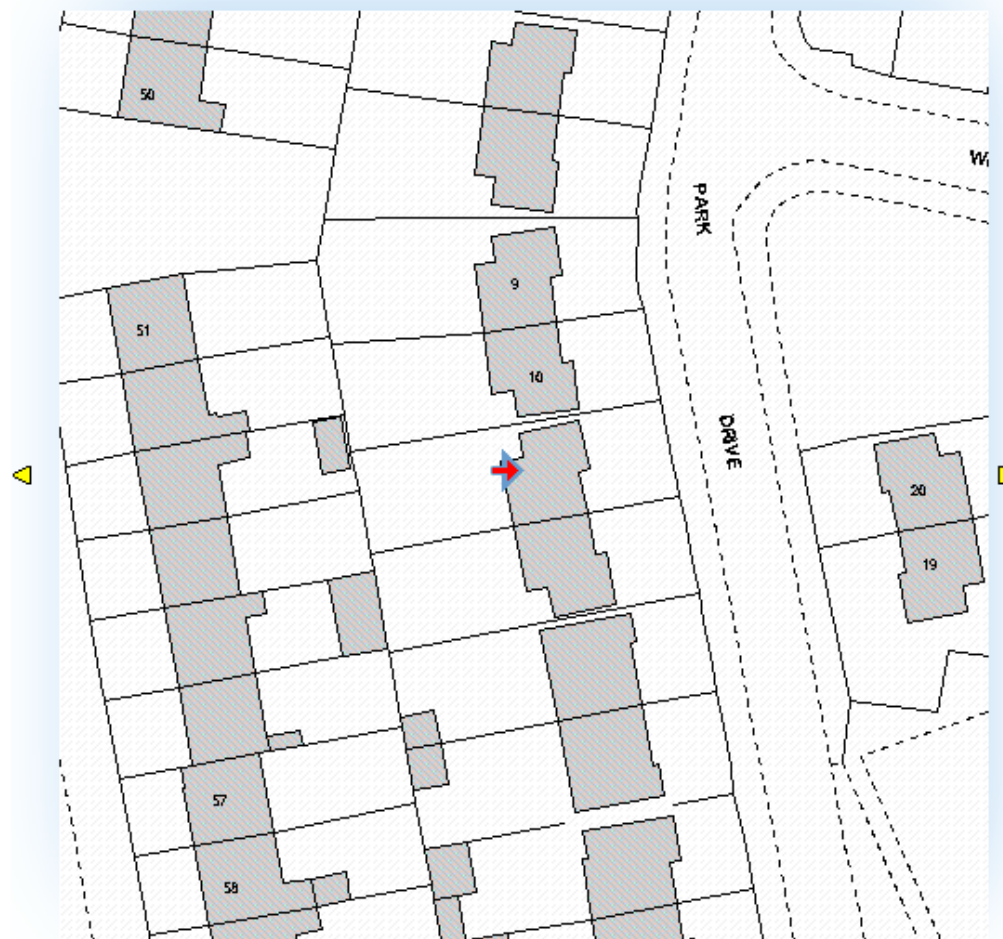
Address Search:

Building No: 11
Building Name:
Street: Willow
Locality:
Townland:
Town: Athlone
Find Address

Map Detail Addresses Bookmarks

- 11 Willow Crescent, Athlone, Co. Westmeath,
- 11 Willow Park Drive, Athlone, Co. Westmeath,
- 11 Willow Place, Athlone, Co. Westmeath,
- 11 Willow View, Athlone, Co. Westmeath.

Folio Search Go Set Map Width



Current mode is: Zoom In

My Bookmarks

1 Bookmark added successfully.

This has been saved to your list
and available from the Bookmark tab below.

Map Detail | Addresses | Bookmarks

01. My Area of Interest

Show

Del

02.

Add

03.

Add

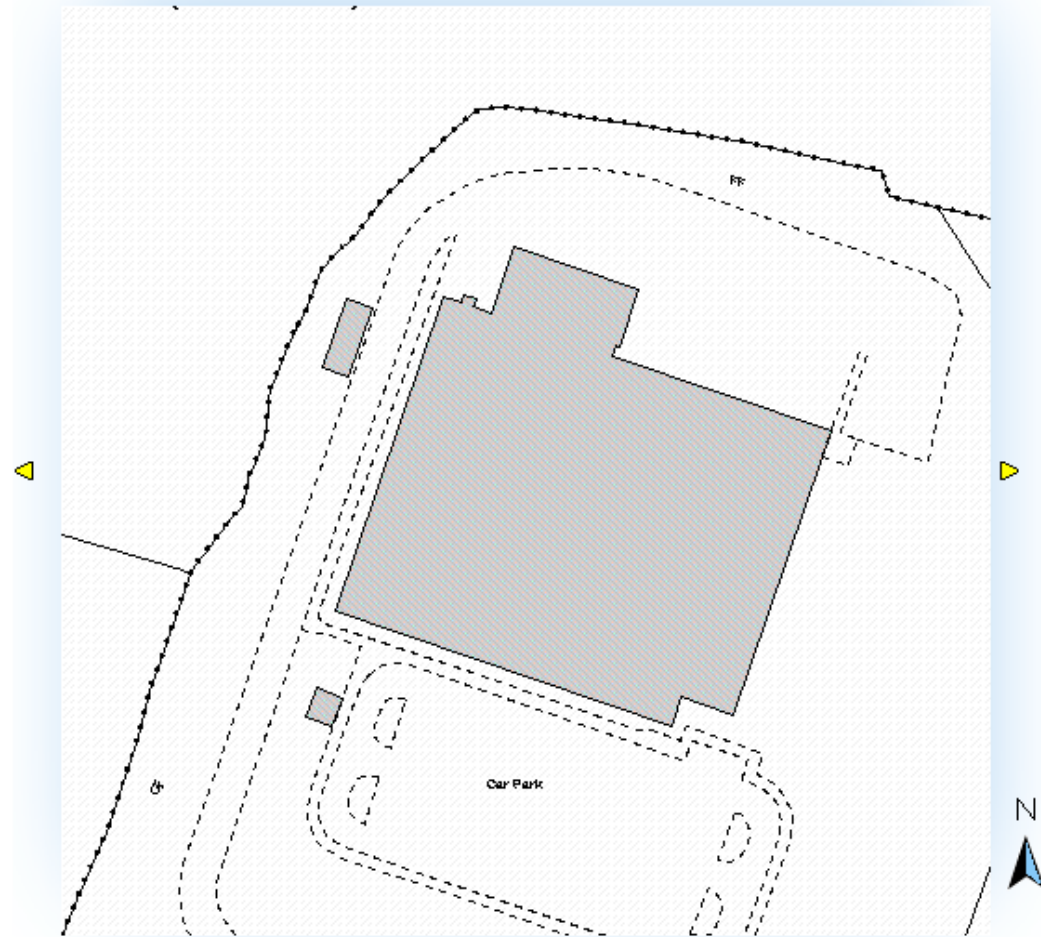
04.

Add

05.

Add

Folio Search Go Set Map Width



Current mode is: Pan



Legends

Folio WH23173F (1 Plan)

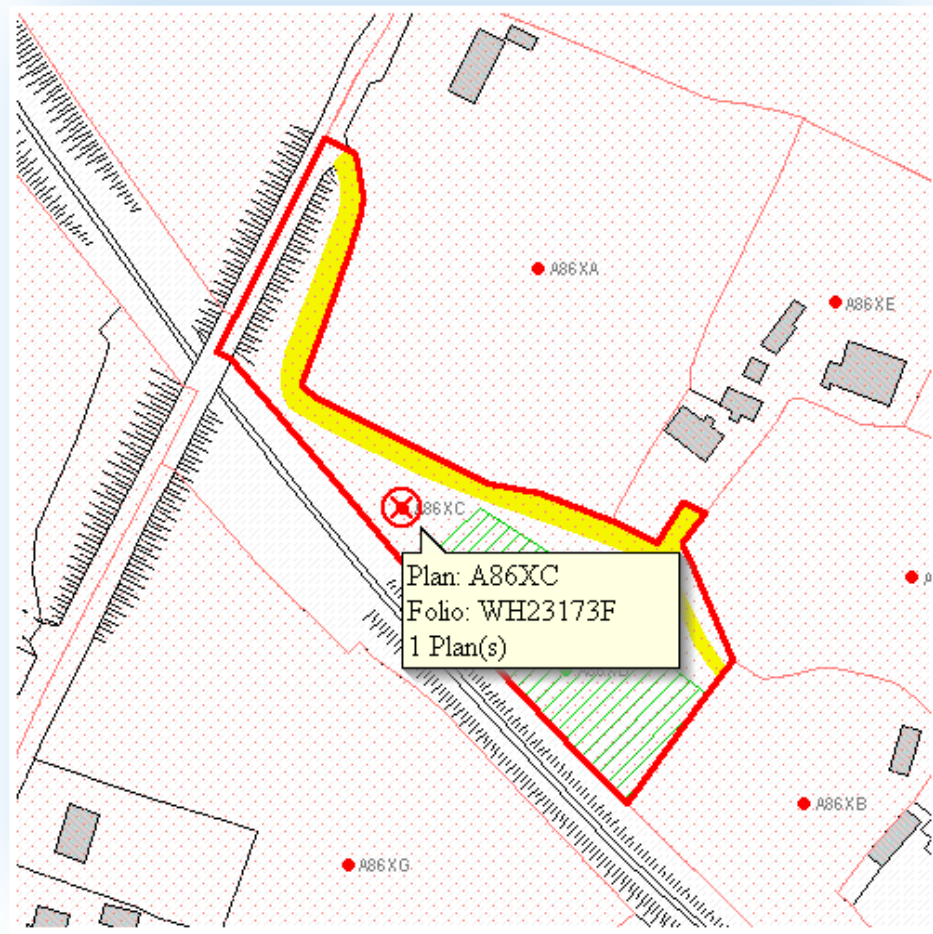
View Folio Request Copy

Map Detail Addresses Bookmarks

Request Input Map
Information:Based on center point
East:607,506 North:738,190
Map Width:254.8M

Townland: CLOONBONNY
Ed: TUBBRIT
Barony: BRAWNY By
County: Westmeath

Map navigation icons: Home, Previous, Next, Zoom In, Zoom Out, Info, Legend, WH23173F, Go, Set Map Width



Current mode is: Zoom In

Legends

Legend

The layers below are available to view on the current map.

You can "toggle" any of these layers ON and OFF.

- OSi + Title Plans
- OSi + Title Plans + Burdens
- OSi + Burdens
- Orthos + Title Plans + Burdens

Map Detail | Addresses | Bookmarks

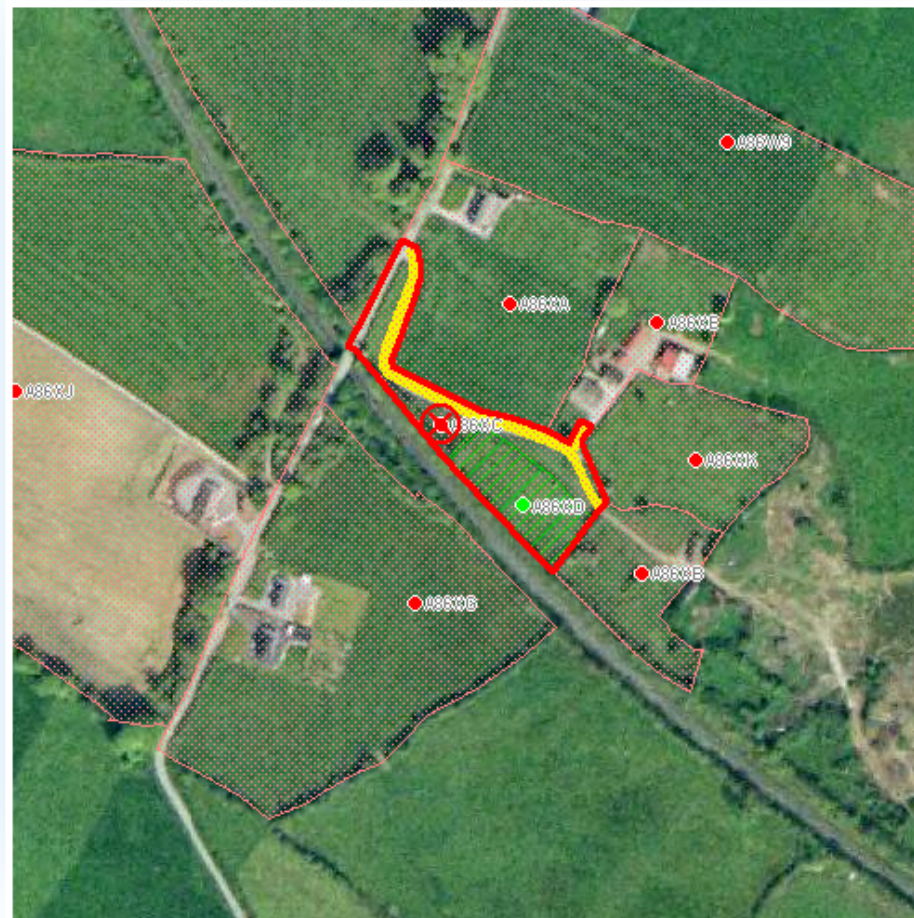
Request Input Map

Information:Based on center point
East:**607,503** North:**738,157**
Map Width:**509.5M**

Townland: **CLOONBONNY**
Ed: **TUBBRIT**
Barony: **BRAWNY By**
County: **Westmeath**



WH23173F | Go | Set Map Width



Current mode is: Zoom Out

