MapGenie - Getting Started

Connect to MapGenie

To create a connection to the OSi MapGenie Server in ArcGIS and thus avail of the mapping services offered by it, click on Add Data

Left click on GIS Servers and click on Add
Left click on **Add GIS Server** and click on **Add**

In the **Add ArcGIS Server** window, select **Use GIS Services** and click on **Next**
To complete the next screen, first please read this information (page 3 & 4):

There are two Server URLs – each provides access to different MapGenie map series, each can be added separately one at a time:

These two Server URLs are:

https://mapgenie.osi.ie/arcgis and https://mapgeniecore.osi.ie/arcgis

The map series (also known as layers) in these two URLs are listed below.

Some map series are available in either IG or ITM.

IG refers to the Irish National Grid and ITM to the Irish Transverse Mercator. These are two different spatial reference systems (i.e. coordinate-based frameworks for locating geographical features on space) - both of which are currently used in Ireland. IG is being phased out and all spatial datasets are currently being migrated to ITM (this has an improved positional accuracy, is GPS-compatible and is a EU standard spatial reference system).

MapGenie series available via each URL
(a brief description with a sample image of each is given on pages 8-14 of this document)

https://mapgenie.osi.ie/arcgis

IG (Irish National Grid)
**https://mapgenie.osi.ie/arcgis**

ITM (Irish Transverse Mercator)

**https://mapgeniecore.osi.ie/arcgis**

ITM (Irish Transverse Mercator)
When you have decided which URL has the data you need fill in the Server URL:
https://mapgeniecore.osi.ie/arcgis or https://mapgenie.osi.ie/arcgis

Request the Username and Password for MapGenie by e-mailing jane.nolan@ucd.ie. When you are adding the username and password be aware that the system is case sensitive.

When the username and password have been entered, left click on Finish.

You will now see a new link in the Add Data window – in this example it is arcgis on mapgeniecore.osi.ie (user).
Left click on `arcgis on mapgeniecore.osi.ie (user)` and it will display in the Name field.

Left click on Add.

Double click on the ITM folder.
ITM/basemap_premium is listed in the Table of Contents under Layers and the map is shown in the Data Window.

Double click on basemap_premium to see this mapping series/layer in ArcGIS.

To connect to the map series in https://mapgenie.osi.ie/arcgis, repeat all of the steps above starting with Add Data on Page 1.
<table>
<thead>
<tr>
<th>Map Series and Description</th>
<th>Sample Images</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.B. the maps can be zoomed to view at different scales which will alter their appearance / level of detail visible</td>
<td></td>
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</tbody>
</table>

### Basemap Greyscale

*MapGenie Greyscale Basemap, generated from Ordnance Survey Ireland Large Scale and Medium Scale vector data. Where applicable, data currency is provided as an attribute for each layer. ITM projection, cached from 1:8,000,000 to 1:1,000.*

This image displayed at scale 1:10,000

![Basemap Greyscale Image](image1.png)

### Basemap Premium

*Premium Basemap map service, generated from OSi medium scale and large scale vector data. ITM projection, cached from 1:4,000,000 to 1:1000.*

This image displayed at scale 1:1,000

![Basemap Premium Image](image2.png)

### Basemap Public

*Public Basemap map service, generated from OSi medium scale and large scale vector data. ITM projection, cached from 1:4,000,000 to 1:1000.*

This image displayed at scale 1:1,000

![Basemap Public Image](image3.png)
Basemap ms premium

*Premium Basemap map service, generated from OSi medium scale vector data. ITM projection, cached from 1:4,000,000 to 1:10,000. (The ms in the title stands for medium scale) This image displayed at scale 1:20,000*

6inch_Cassini

*Map service generated from OSi Cassini 6 inch raster mapping dated 1830s -1930s. ITM projection, cached from 1:10,000 to 1:1000, with overview map cached from 1:4,000,000 to 1:25,000. Watermarked with OSi logo. This image displayed at scale 1:5000*

Basemap Eire

*Generated from OSi medium and large scale vector data, with Irish text from the Placenames Database of Ireland, courtesy of the Placenames and Enterprise Branch. MFL projection, deposited from 1: 4,000,000 to 1: 10,000 nationally, and 1: 5000 to 1: 1000 in Gaeltacht areas. This image displayed at scale 1:12,500*
**Discovery**

Map service generated from OSi Discovery Raster Series mapping (1:50,000). ITM projection, cached from 1:4,000,000 to 1:10,000. Watermarked with OSi logo.

This image displayed at scale 1:20,000

**Discovery hs**

Map service generated from OSi Discovery Raster Series mapping (1:50,000), with hill-shading from DEM generated from OSi 10m contour data. ITM projection, cached from 1:4,000,000 to 1:10,000. Watermarked with OSi logo. (The hs in the title stands for hill shading)

This image displayed at scale 1:20,000

**Historic 25inch**

Map service generated from OSi Historic 25 inch Raster mapping dated 1897-1913. ITM projection, cached from 1:5000 to 1:1000, with overview map cached from 1:4,000,000 to 1:10,000. Watermarked with OSi logo.

This image displayed at scale 1:2500
Historic 6inch b&w

Map service generated from OSi Historic 6 inch black & white raster mapping dated 1829-1841. ITM projection, cached from 1:10,000 to 1:2500, with overview map cached from 1:4,000,000 to 1:25,000. Watermarked with OSi logo.

This image displayed at scale 1:5000

Historic 6inch colour

Map service generated from OSI Historic 6 inch colour raster mapping dated 1829-41. ITM projection, cached from 1:10,000 to 1:2500, with overview map cached from 1:4,000,000 to 1:25,000. Watermarked with OSI logo.

This image displayed at scale 1:5000

Hybrid_Buildings

Map service generated from OSI large scale vector building and land parcel data, designed for display over MapGenie Ortho services to produce Hybrid map. ITM projection, cached from 1:5000 to 1:1000.

This image displayed at scale 1:5000
Hybrid_Transport

Map service generated from OSi medium and large scale vector road, rail & placename data, designed for display over MapGenie Ortho services to produce Hybrid map. ITM projection, cached from 1:4,000,000 to 1:1000.

This image displayed at scale 1:50,000

Hybrid_Water

Map service generated from OSi medium and large scale vector water data, designed for display over MapGenie Ortho services to produce Hybrid map. ITM projection, cached from 1:4,000,000 to 1:1000.

This image displayed at scale 1:200,000

Ortho

Map service generated from latest available OSI 1m per pixel orthophotography. Ortho capture date ranges from 2005 to 2012. ITM projection, cached from 1:4,000,000 to 1:1000. Watermarked with OSI logo.

This image displayed at scale 1:20,000
<table>
<thead>
<tr>
<th>Ortho 1995</th>
<th>![Ortho 1995 Image]</th>
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<tbody>
<tr>
<td>Map service generated from 1995 Series black &amp; white OSi 1m per pixel orthophotography. ITM projection, cached from 1:4,000,000 to 1:1000. Watermarked with OSi logo. (black &amp; white) This image displayed at scale 1:20,000</td>
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<tr>
<td>Map service generated from 2000 Series OSi 1m per pixel orthophotography. ITM projection, available from 1:4,000,000 to 1:2,500. Watermarked with OSi logo. (colour) This image displayed at scale 1:20,000</td>
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<tr>
<th>Ortho 2005</th>
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<tr>
<td>Service generated from 2005 Series OSi 1m per pixel orthophotography. ITM projection, available from 1:4,000,000 to 1:2,500. Watermarked with OSi logo. (colour) This image displayed at scale 1:20,000</td>
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</tr>
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Digital Globe

Service generated from Digital Globe Precision Aerial imagery at 30 cm natural color (RGB), © Digital Globe. ITM projection, available from 1:4,000,000 to 1:1,000. This data was captured between July 2011 and October 2013.

This image displayed at scale 1:2500

Jane Nolan, Maps & GIS Librarian, UCD Library, June 2017

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