ArcGIS Web Service Types

Tile Layer

These are pre-rendered map raster tiles.

Available Functions: You will not be able to complete any analysis using these services.

Imagery Layer

Dynamically displayed raster data.

Available Functions: You will be able to complete imagery based analysis on these services. This can include Near Infrared, NDVI, Hillshade, Slope etc.

Feature Layer

A feature layer is a grouping of similar geographic features (e.g. buildings, land parcels or roads). Features can be points, lines or polygons.

Available Functions: You will be able to view, edit, analyse and execute queries against features and their attributes. You will also be able to change the layers symbology. The contents of some feature layers can be downloaded.

Map Image Layer

A collection of map cartography based on vector data. Map image layers are dynamically rendered image tiles.

Available Functions: You will not be able to complete any analysis using these services.

Locator

Locators are based on address data and allow you to find addresses and places that you can visualise on a map.

Available Functions: You will be able to complete Geosearch (Locate an address or point of interest and have the map zoom to that location) and Geocoding (convert an address to an Irish Grid easting and northing).

Geoprocessing Service	🟨
Geoprocessing services contain geoprocessing tasks which take simple data captured in a web application, process it and return a meaningful and useful output to the user.	
Available Functions: You will be able to complete printing using Spatial NI applications.	

OGC Web Service Types:

Web Map Service (WMS)
• This is a simple HTTP interface for requesting geo-registered map images from one or more geospatial databases. • A WMS request defines the geographic layers and area of interest to be processed. • The response to the request is one or more geo-registered map images (JPEG or PNG) that can be displayed in an application. • This format is used mainly for rendering custom maps and is well-suited for dynamic data.

Web Map Tile Service (WMTS)
• A set of interfaces for making web based requests of map tiles of spatially referenced data using tile images with predefined content, extent and resolution. • WMTS trades the flexibility of custom map rendering for the scalability made possible by serving static basemaps where the bounding box and scales have been constrained to discrete tiles.