

LOXODROME White Paper

Integrating Geospatial Data and Information with ArcGIS® and SharePoint®

It is often quoted that something like 80% of the data that a typical E&P company owns and manages has a geospatial component. In short, location matters. But how many people in your company actually use that geospatial information every day in support of the decision making process? I very much doubt that it is 80% - or anywhere near that. More like 20% perhaps, maybe 30%? Because whilst geospatial information and analysis is central to much of what we do in E&P, regular use of geospatial information still tends to sit within “silos of excellence”, buried deep within the organisation.

But what if we could bring key geospatial information and analytical capability to the majority of the organisation – exposing it to, say, 80%, or more, of the company, in a simple, easy to use, easy to access way? Reliable and trusted maps showing licences, well locations, field outlines, seismic lines, pipelines etc. Available to all in a simple and intuitive interface with which they are immediately familiar. Something like SharePoint, perhaps? And not only that, but what if we could geo-enable the rich information content we hold within SharePoint? Things like documents, SharePoint lists etc.? Well, by utilising the power of the Esri ArcGIS Platform, tools like Safe FME and with a little help from Loxodrome, here is how you can in three short steps.

Step One: embed ArcGIS® map content in SharePoint®

With an implementation of Esri's ArcGIS Maps for SharePoint tool you can quickly and easily embed map services that you have published from ArcGIS Server directly into a SharePoint page.

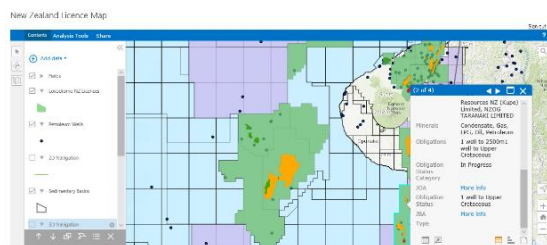


Fig. 1: GIS web map data embedded in a SharePoint web part

In this example we have used the open spatial data from the New Zealand

Petroleum and Minerals Authority to display well, seismic, field, licensing and infrastructure data. We can extend our SharePoint geospatial capability further by making use of the ArcGIS Map App Part to geo-locate information stored in SharePoint and display this on the map combined with our existing map layers from ArcGIS Server.

Step Two: find SharePoint® information from the map

We can do this by making use of the extremely powerful ETL (Extract, Transform, Load) tool, Safe FME™ (Feature Manipulation Engine).

At Loxodrome we use FME extensively to automate data update, loading and re-formatting tasks. It can also be used to

