Infraworks and PostGIS Data

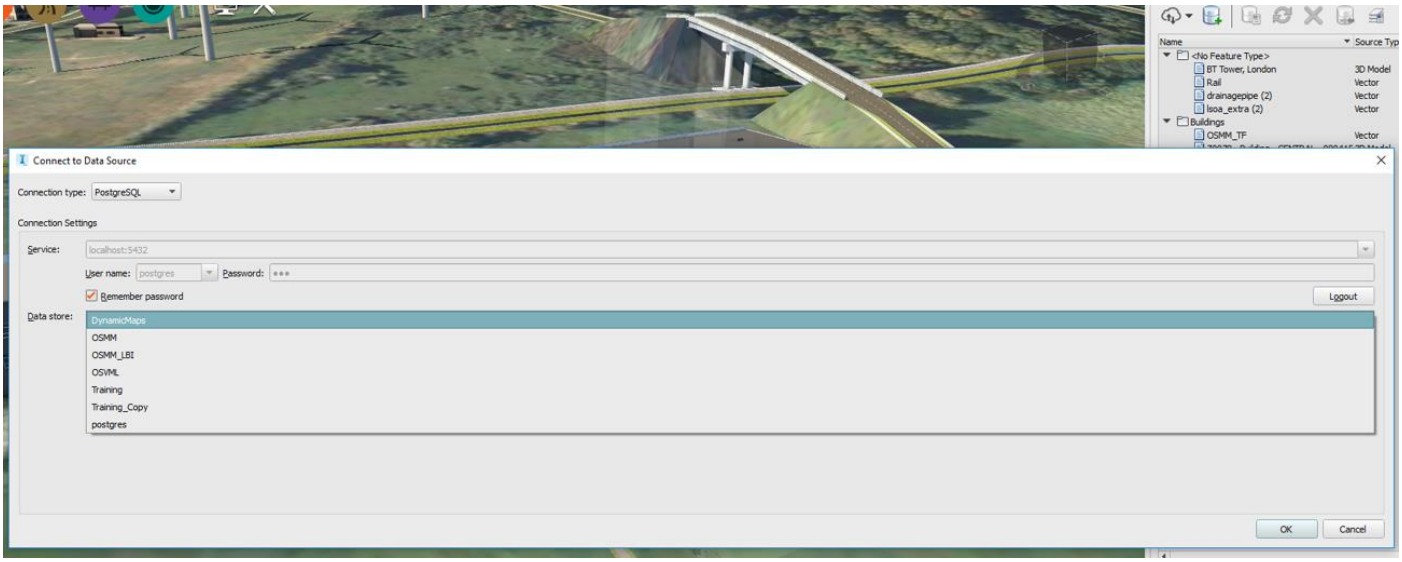
by David Crowther

Utilising Cadline's OS Model Builder - http://www.osmodelbuilder.co.uk/modelbuilder/ - application you can generate 3D Models for Infraworks within the UK using Ordnance Survey datasets within minutes.

Once the Model is then opened into Infraworks you can use the **Data Source** menu to then import and configure **GIS datasets**, such as; utility networks, rail lines, water features, trees etc…

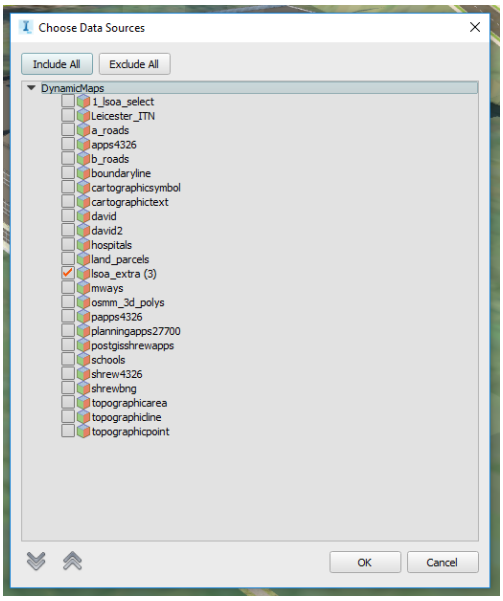
Infraworks also allows you to import **CAD datasets**, such as a Revit file representing a building.

As well as connecting to *flat file* sources, you may have your data stored in a spatial database, such as SQL, Oracle or PostGIS. Using the **Data Source > Add Database Source** option you can connect to a database and have live access to any spatial data. In this example we have chosen to connect to a **PostgreSQL** (PostGIS) database.

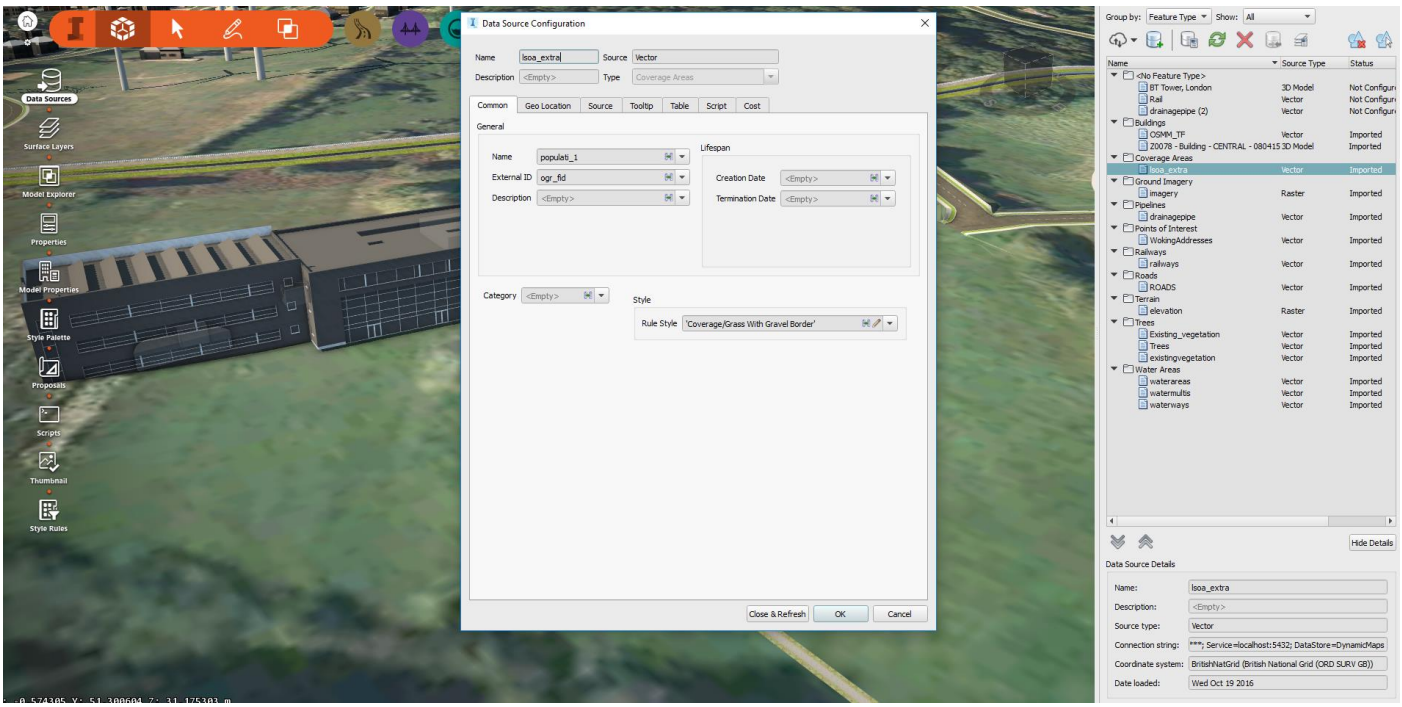


In the **Data Source Connection Settings**, choose the following options;

- **Connection Type:** PostgreSQL
- **Service:** Servername:PortNumber (e.g *localhost:5432*)
- **Username:** Username to log into PostgreSQL
- **Password:** Password to log into PostgreSQL
- *Choose **Login** and then select*
- **Data Store:** The PostGIS database name where the spatial table is located
- *Tick to **Show all Geometry Tables***
- *Then from the Tables list choose **Exclude All**, and then select only the spatial table that you wish to import*
- *Then press **OK***



Now the PostGIS table has been added to the Data Sources list, double click on the layer to **configure** it.



Once configured, choose **Close and Refresh** and the PostGIS data will be added into the 3D Model.

You have now successfully connected your Infraworks 3D Model to live data stored in a PostGIS database!,.. which means as the source data is updated your Model will automatically update to reflect those changes.