**Using Dynamo to prepare Models for Exchange**

Revit models can get quite messy – luckily Dynamo is here to do some model cleaning for us!

The script prepared for the workshop uses data shapes to generate a user interface, which then feeds some outputs into script modules which target and clean the following;

* Remove unused view templates
* Remove unused filters
* Remove ‘IMPORT’ patterns (usually from CAD files)
* Purge all
* Views with a Type Name that contains ‘working’
* Remove all Legends
* Remove all Schedules

Once all the data has been processed, the results are tallied and displayed to the user in a secondary interface.

The merit of this script, is it combines all of these functions into one single script, as well as putting a high level audit for exchange in the hands of any capable Dynamo user (as opposed to Model/BIM Managers only).

Techniques the script uses that are worth learning include;

* Filtering large lists of elements (filter by Boolean mask)
* Logic gates (‘If’ nodes)
* List/data set tallies (using ‘Count’)
* Checking for text matches (using ‘String Contains’)

This tool operates to similarly to another plugin called ‘E-transmit’, but with increased level of flexibility, customization and performance speed.

**Version of Dynamo**

2.0.3

**Version of Revit**

2019

**Custom packages required:**

archi-lab.net (2019.2.7)

Data Shapes (2019.2.30)

Modelical (1.3.12)

Zebra (2016.7.2)