

Importing Existing Models and GIS Data

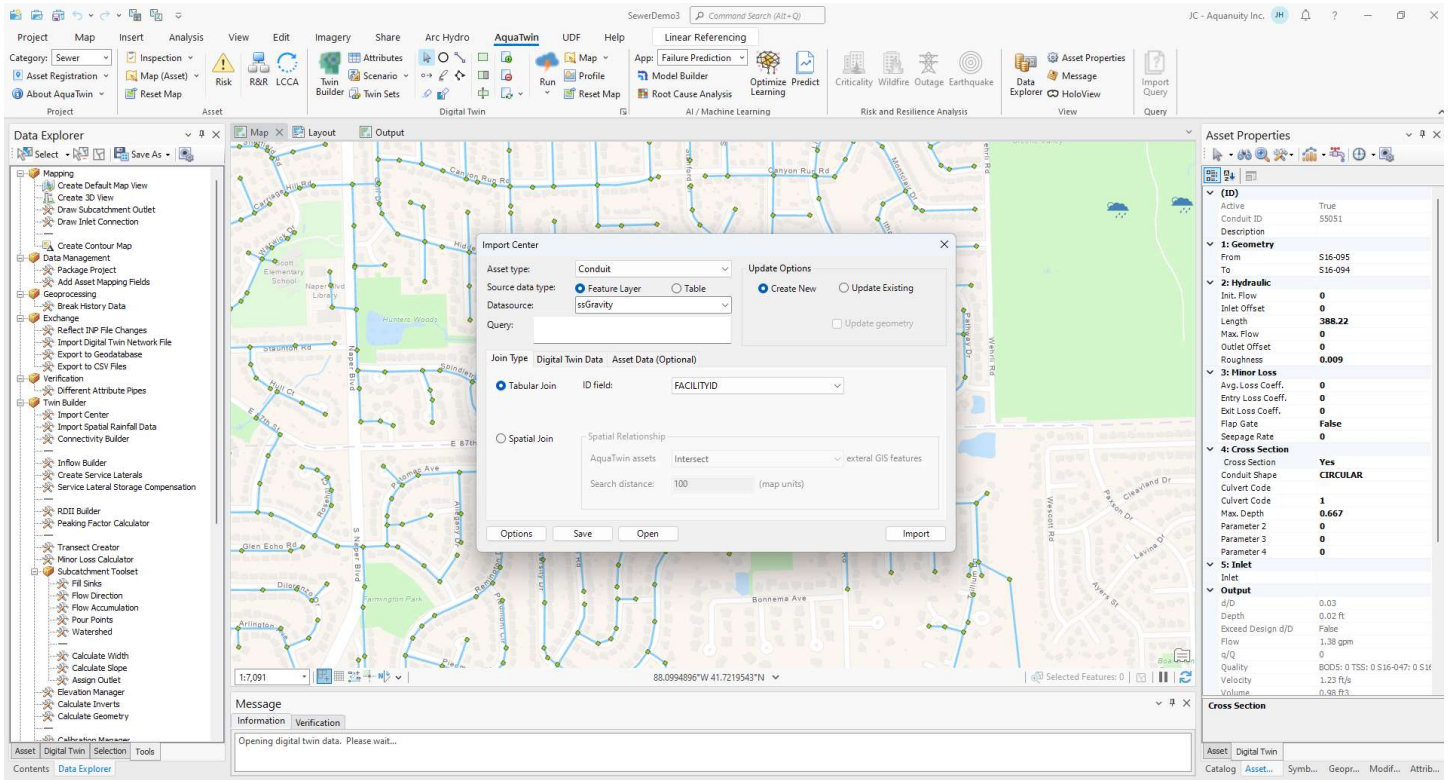


Figure 1: Import GIS data into AquaTwin using the Import Center.

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Overview

The document outlines the process for importing an existing EPANET 2.2 or EPA SWMM model into AquaTwin Water/Sewer, as well as importing GIS data to the model.

First Steps for Importing Existing Model or GIS Data

These steps need to be completed before an existing model is imported or if GIS data is being imported to start a model from scratch.

1. Open a blank ArcGIS Pro project and map.
2. Set the spatial reference of the map. This must be done for the model to be georeferenced correctly.

Importing Existing EPANET Model



Figure 2: AquaTwin ribbon containing Water Category and Twin Builder.

After the first steps above are completed, follow these steps to import an existing EPANET model:

1. If needed, update the EPANET .inp file to the EPANET 2.2 .inp file format.
 - a. Download EPANET 2.2 [EPANET | US EPA](#).
 - b. Open the old .inp file inside of EPANET 2.2.
 - c. Export the Network to an updated EPANET 2.2 .inp file.
2. Make sure the Category is set to AquaTwin Water (**Figure 2**).
3. Open the Twin Builder (**Figure 2**) and browse for the updated EPANET 2.2 .inp file. Click *Next*.
4. Choose the Active Map spatial reference and click *Next*.
5. A summary of the model import will appear (**Figure 3**). Click *Finish*.

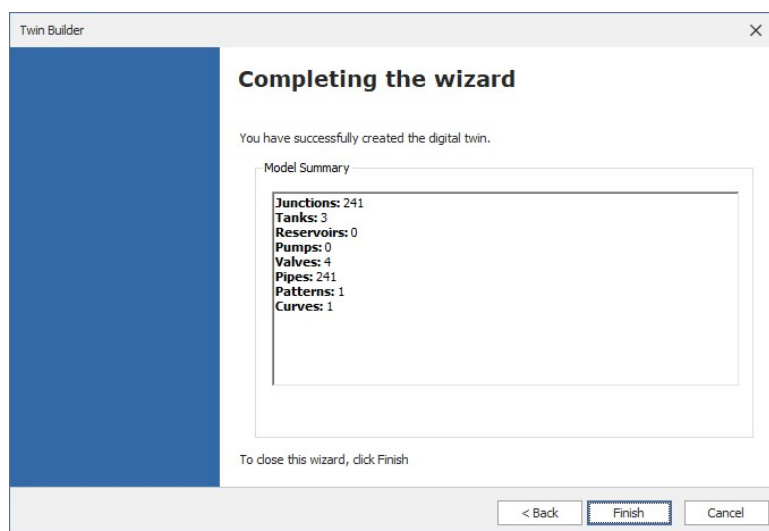


Figure 3: A summary of an EPANET 2.2 model import into AquaTwin Water.

Importing Existing EPA SWMM Model

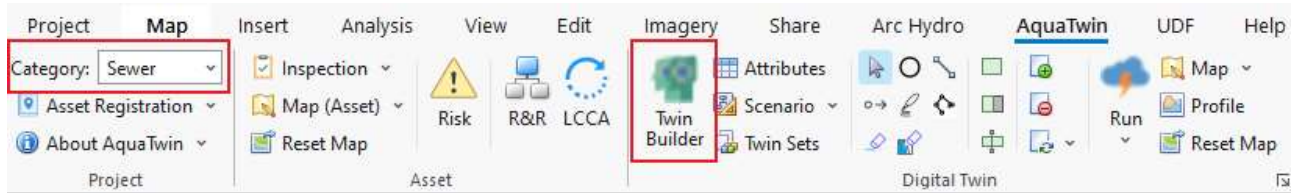


Figure 4: AquaTwin ribbon containing Sewer Category and Twin Builder.

After the first steps above are completed, follow these steps to import an existing EPA SWMM model:

1. If needed, update the EPA SWMM .inp file to the latest version.
 - a. Download EPA SWMM [Storm Water Management Model \(SWMM\) | US EPA](#).
 - b. Open the old .inp file inside of EPA SWMM.
 - c. Save the updated .inp file (File→Save As).
2. Make sure the Category is set to AquaTwin Sewer (**Figure 4**).
3. Open the Twin Builder (**Figure 4**) and browse for the updated EPA SWMM .inp file. Click *Next*.
4. Choose the Active Map spatial reference and click *Next*.
5. A summary of the model import will appear (**Figure 5**). Click *Finish*.

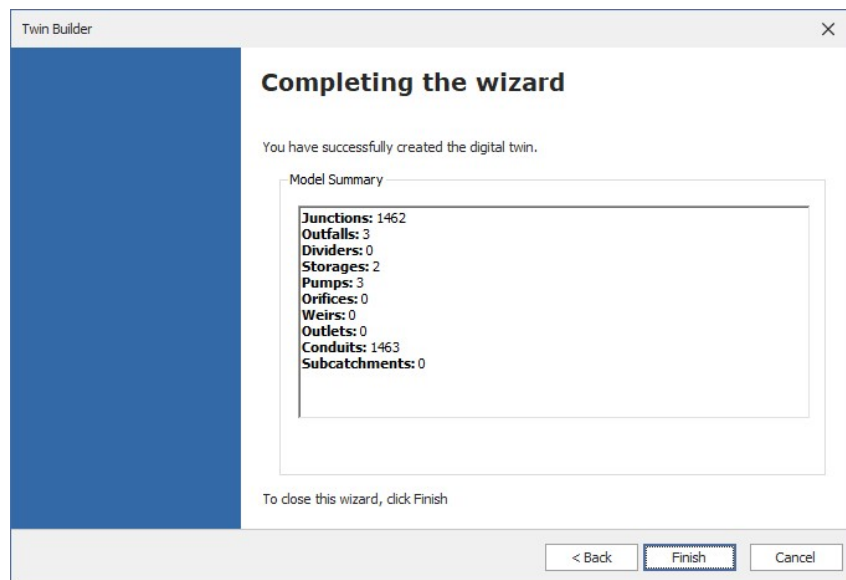


Figure 5: A summary of an EPA SWMM model import into AquaTwin Sewer.

Importing GIS Data

After creating a new project and map, and setting the spatial reference of the map (see First Steps for Importing Existing Model or GIS Data), existing GIS data may be imported into AquaTwin Water/Sewer using the [Import Center](#) (**Figure 6**).

If building a model from scratch using GIS, a user needs to create a new blank AquaTwin geodatabase before using the Import Center (**Figure 7**).

If adding GIS data to an existing model, a user can use the [Import Center](#) without having to create a new AquaTwin geodatabase.

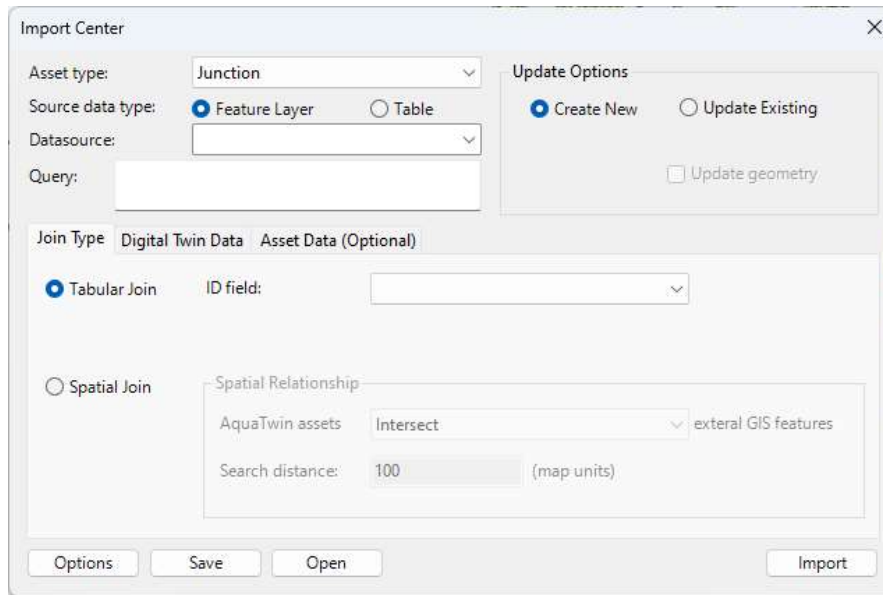


Figure 6: The AquaTwin Import Center.

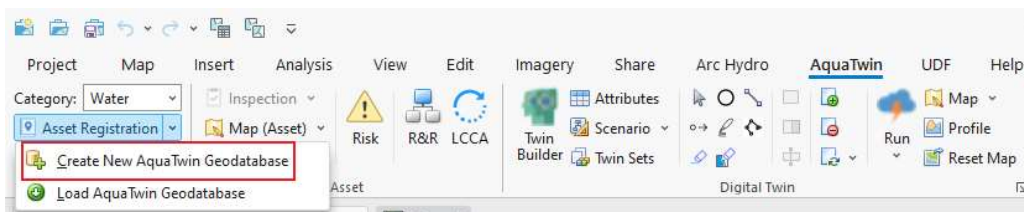


Figure 7: A user first needs to create an AquaTwin geodatabase if building a model from scratch using GIS data.