TUTORIAL FOR RISKSCAPE – ASSET BUILDER TOOL

RiskScape is a natural hazard impact and risk modelling tool.

This tutorial provides an understanding to the functionality of RiskScape. In this tutorial you will add new asset data for Vanuatu. This scenario is a demonstration only and the results should not be used for decision making.

This tutorial has been created for the PARTneR: Pacific Risk Tool for Resilience Advanced Training
January 2018

For more information about the tool visit www.riskscape.org.nz

Contents

This tutorial follows an asset data collection visit and assumes participants have new building assets and attributes to add to an existing dataset.

This tutorial is for <u>demonstration purposes only</u> and the results produced should not inform decision making in any way.

RiskScape v1.0.3. was used to create this tutorial

Date: 12th December 2017

1.1 Asset Builder Tool

Please make notes

Add new asset data to an existing dataset.

You have collected new building asset data using either the RiACT application on a hand-held tablet or via paper templates.

You will be shown how to download your new asset data from the tablet or manually update the existing dataset with new information.

1.1.Step 1: **Open the asset excel sheet for Port Vila and scroll to the bottom**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	X	Y	OBJECTID_ID		BLDG_ID	POINT_X	POINT_Y	Use_Cat	Storeys	Flr_Area	Flr_Hgt	Const_Typ	Wall_Clad	Rep_Cost	Cont_Valu	Occ_D
15389	-171.755	-13.8347	48714	14588	WS-UP-01	-171.755	-13.8347	2	1	77	0.05	3	12	172788	69115.2	
15390	-171.763	-13.843	48715	14735	WS-UP-01	-171.763	-13.843	4	1	134	0.25	10	8	210112	63033.6	
15391	-171.753	-13.8328	48716	14947	WS-UP-01	-171.753	-13.8328	1	1	140	2.05	5	1	266840	53368	
15392	-171.756	-13.8314	48717	15013	WS-UP-01	-171.756	-13.8314	22	1	36	0.25	5	1	18000	3600	
15393	-171.747	-13.846	48718	20609	WS-UP-02	-171.747	-13.846	16	1	774	0.05	1	8	1736856	521056.8	
15394	-171.746	-13.8339	48719	4168	WS-UP-00	-171.746	-13.8339	13	1	126	0.25	1	8	197568	59270.4	
15395	-171.774	-13.8287	48721	16525	WS-UP-01	-171.774	-13.8287	3	2	176	0.25	10	8	579040	173712	
15396	-171.777	-13.8354	48722	16619	WS-UP-01	-171.777	-13.8354	22	1	187	0.25	5	1	356422	71284.4	
15397	-171.79	-13.8531	48724	17309	WS-UP-01	-171.79	-13.8531	14	1	223	0.05	3	8	500412	150123.6	
15398	-171.732	-13.8437	48725	4762	WS-UP-00	-171.732	-13.8437	22	1	36	0.25	5	12	18000	3600	
15399	-171.773	-13.8329	48726	5117	WS-UP-00	-171.773	-13.8329	2	2	774	0.25	1	1	2127726	851090.4	
15400	-171.732	-13.8436	48727	6073	WS-UP-00	-171.732	-13.8436	22	1	126	0.35	5	12	240156	48031.2	
15401	-171.729	-13.8435	48728	6049	WS-UP-00	-171.729	-13.8435	22	1	101	0.7	5	15	192506	38501.2	
15402	-171.726	-13.8479	48729	6019	WS-UP-00	-171.726	-13.8479	1	1	176	0.25	5	1	335456	67091.2	
15403	-171.73	-13.846	48730	5217	WS-UP-00	-171.73	-13.846	1	1	187	0.25	1	8	356422	71284.4	
15404	-171.787	-13.8367	48731	5273	WS-UP-00	-171.787	-13.8367	1	1	113	0.7	1	8	215378	43075.6	
15405	-171.746	-13.8427	48732	5723	WS-UP-00	-171.746	-13.8427	1	1	223	0.25	5	1	664986	132997.2	
15406																
15407																
15408																

Add your new asset data to the existing dataset.

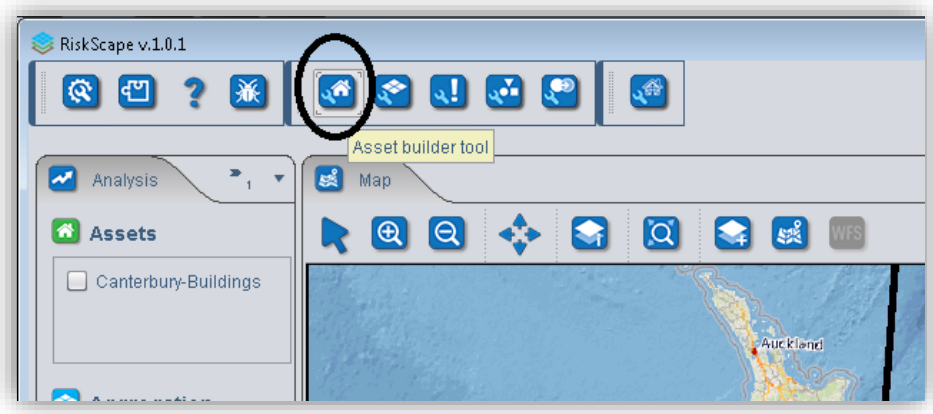
1.1.Step 2: **Import or type in your new asset data**

If you are manually updating the data, make sure to **fill in every column** so that the new asset can be read by RiskScape.

Once complete, **save** your new dataset under a **new name** and as a **.csv**.

1.1.Step 3: **Open the asset builder tool**

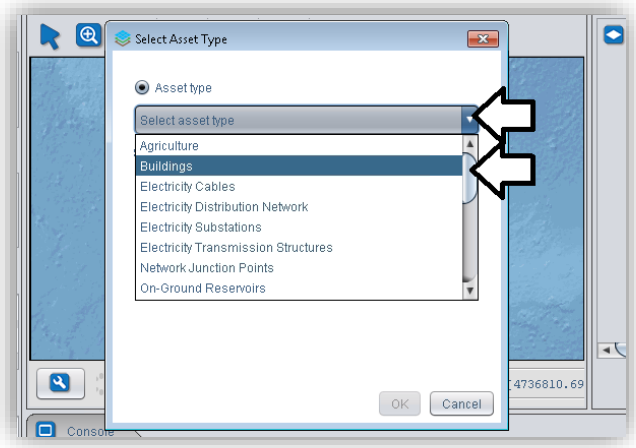
The asset builder tool is located at the top of the user interface.



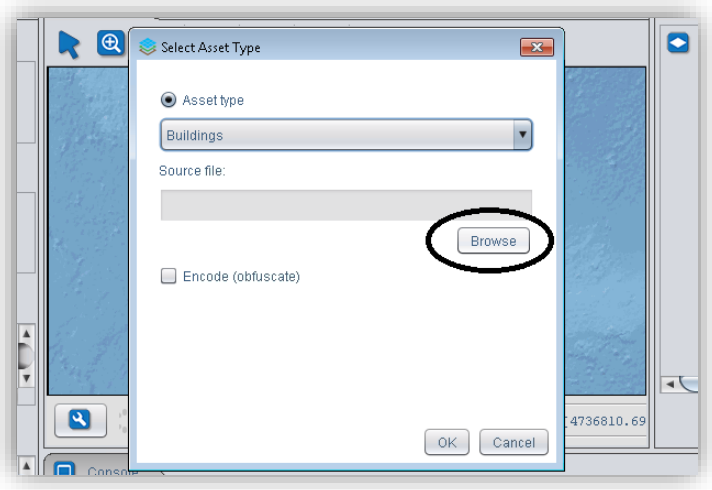
1.1.Step 4: **Load your new dataset**

First you will load your updated building dataset (CSV file).

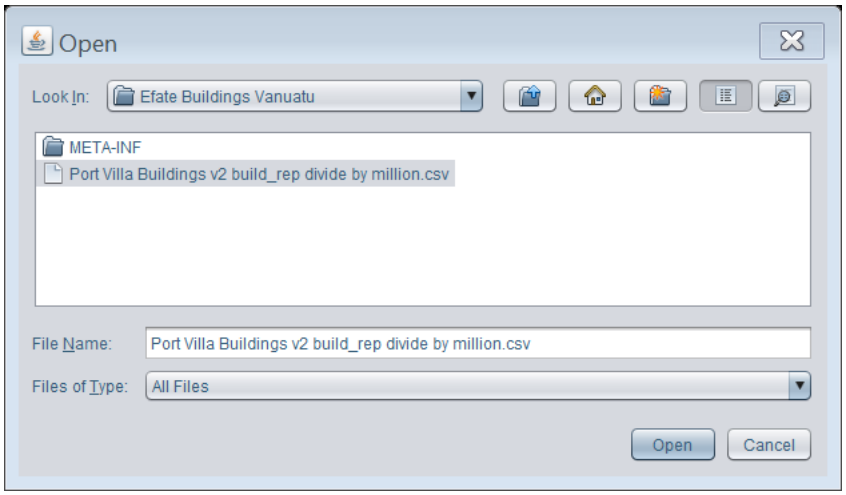
Select **buildings** from the asset type drop down



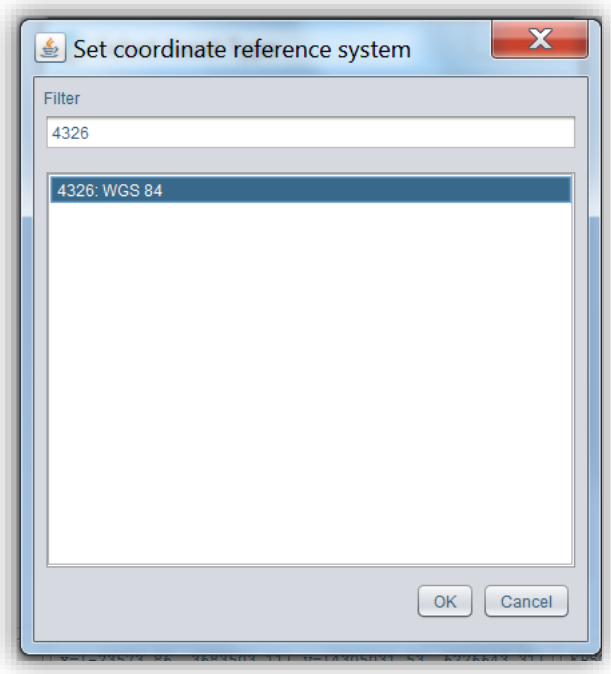
Then **Browse** to the where you saved your updated data file.



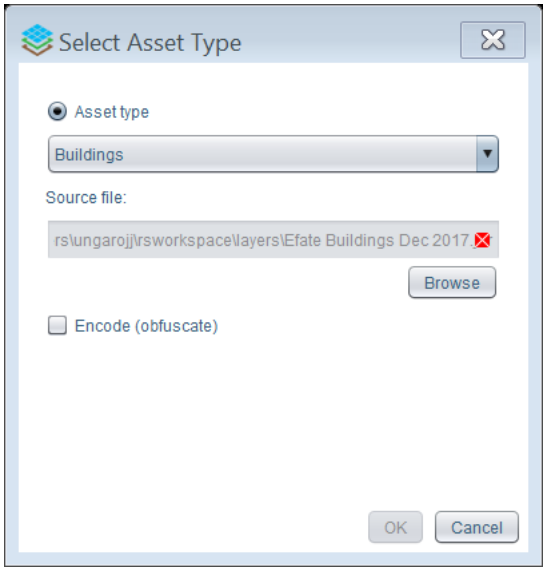
Select the **.csv file** and click **"Open"**



RiskScape will automatically ask you to select the coordinate system for your file. For this tutorial, the coordinate system is **4326: WGS 84** coordinate system and click **OK**

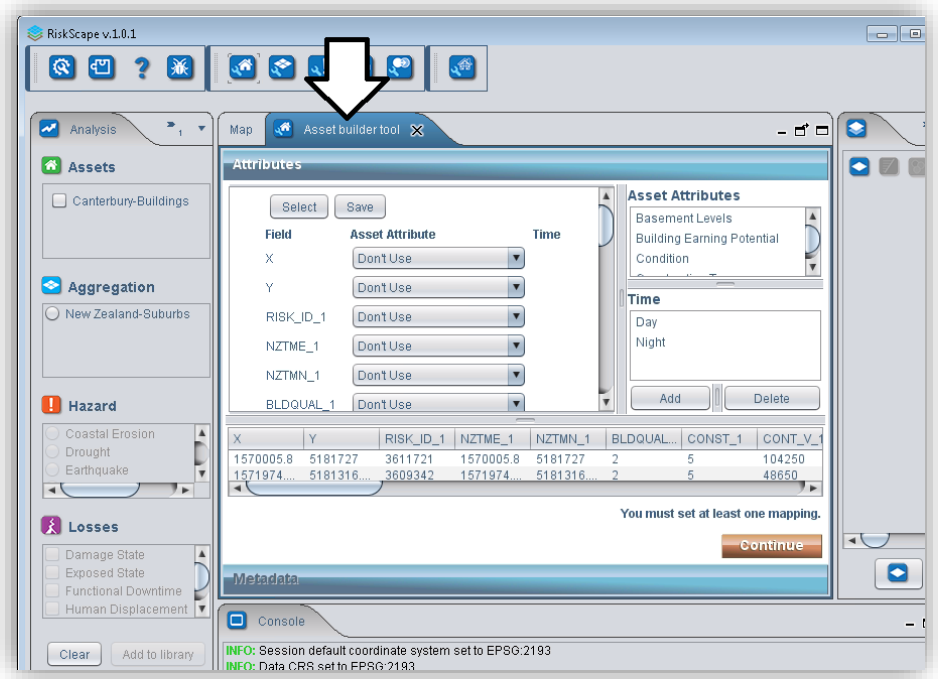


Now you have filled in this first step, Click **OK** to proceed.



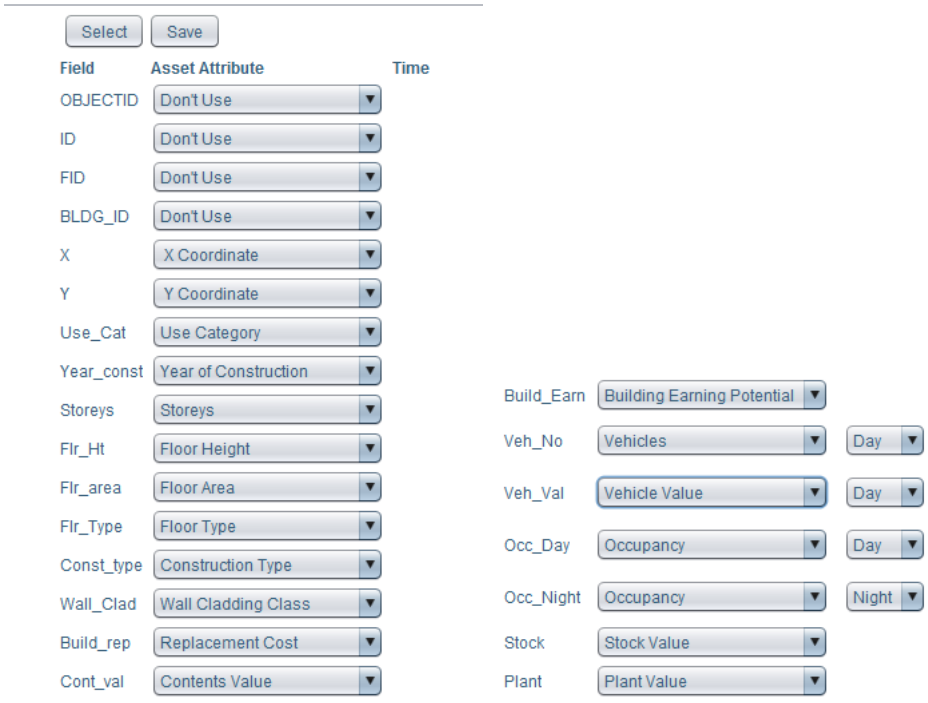
1.1.Step 5: **Match the attributes**

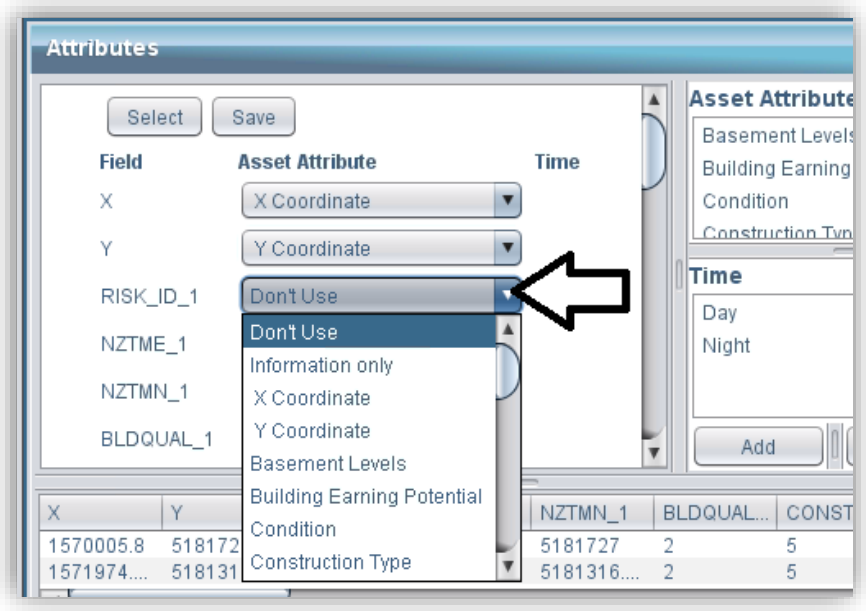
The Asset Builder tool interface appears docked in the middle screen.



For each entry in the list "Asset Attribute", you must match a field from the drop-down menu. This way you are helping RiskScape to 'read' your CSV file.

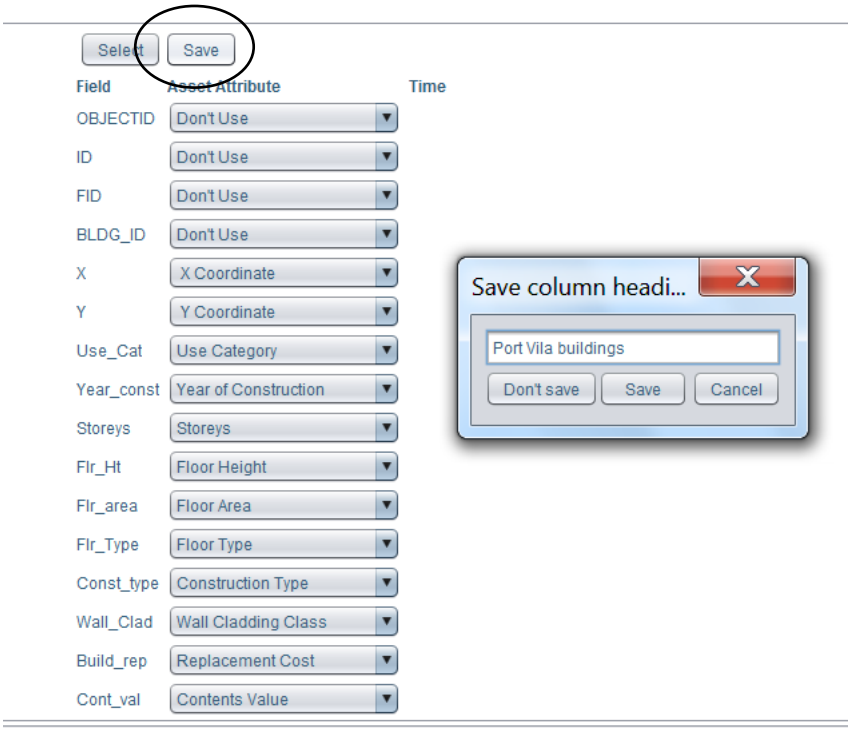
Many of these are easily matched- see the picture above if you get stuck on any.





1.1.Step 6: ***Top tip!*** Save your selections

When you have mapped the attributes select **save** to save this mapping template for a future occasion.

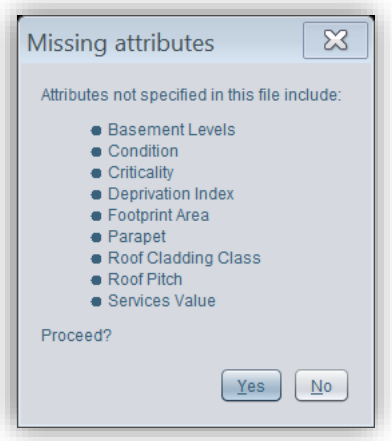


1.1.Step 7: **Metadata and Save**

Once you have mapped the fields and asset attributes, and saved your mapping as a template click **Continue**.

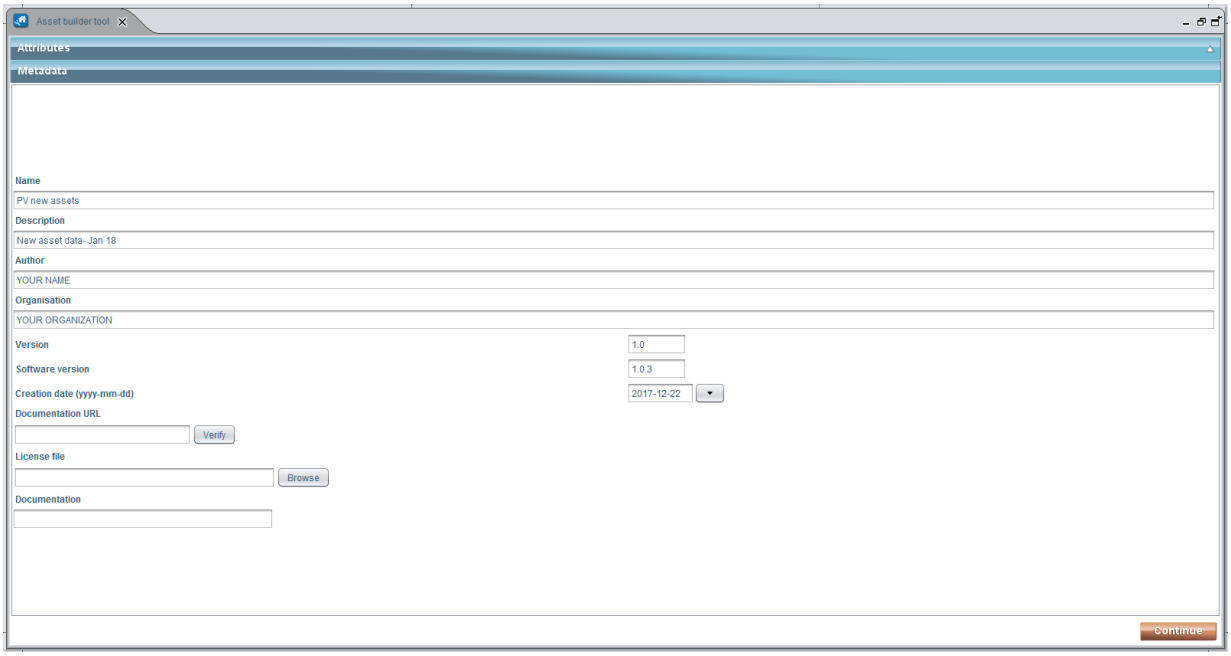
You will receive a warning for any attributes not matched.

Check you have completely matched the fields and Click Yes. RiskScape has capacity to use many attributes but this dataset does not contain them all.



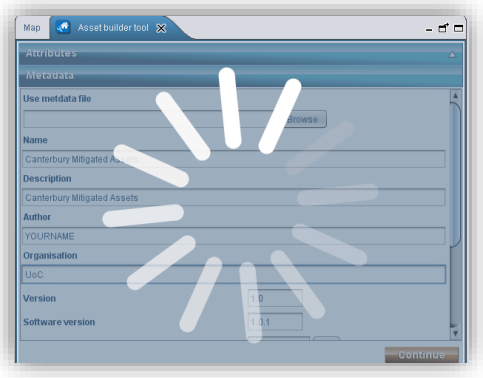
The next step asks you to complete the Metadata

On the Metadata tab fill in the "Name" "Description" "Author" and "Organisation" Fields

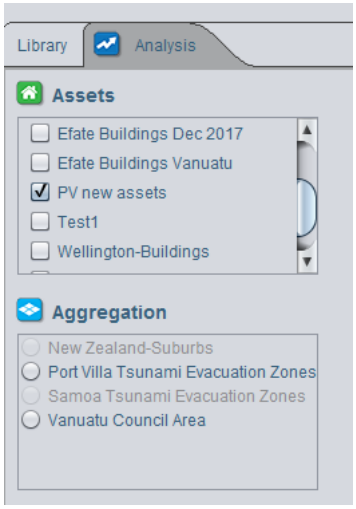


Click **Continue**

A processing wheel shows until the builder is finished



Your new layer will now automatically appear under assets in the analysis bar.



1.1.Step 8: **Re-run tutorial 1 and identify your new buildings**

Using your new asset layer re-run tutorial 1 and see what damage is expected for the buildings you surveyed.

You will need to create the scenario, run the analysis and view the per building results.

Disclaimer:

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Please note: ***This tutorial is for demonstration purposes only and the results produced are not intended to inform natural hazard management decision making.***