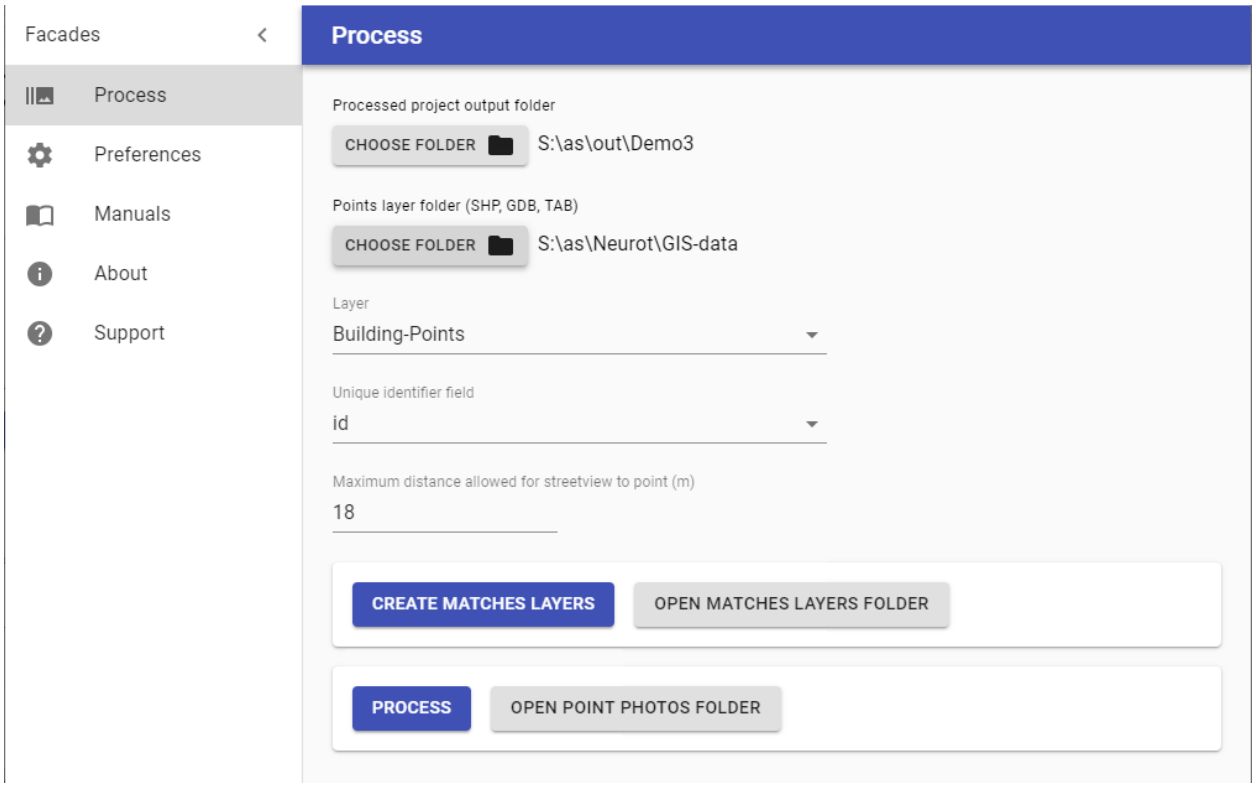
APPLIEDSTREETVIEW

Facades

Manual
version 1.10.4



Index

Overview **3**

QGIS screenshot 3

File Manager screenshot 4

Recommended Hardware **5**

Downloads **6**

Programs 6

Evaluation Data 6

Abstract Workflow **7**

Record 7

Prepare a points layer 8

Facades 8

Process 8

Review 9

Results 9

Workflow with Example Data **10**

Creator 5 10

Facades 11

Process 11

Review 12

Process 13

Using the results 13

Support **14**

Overview

The **Facades** program creates photos from your streetview recordings. These photos then can be used in any online or offline documentation.

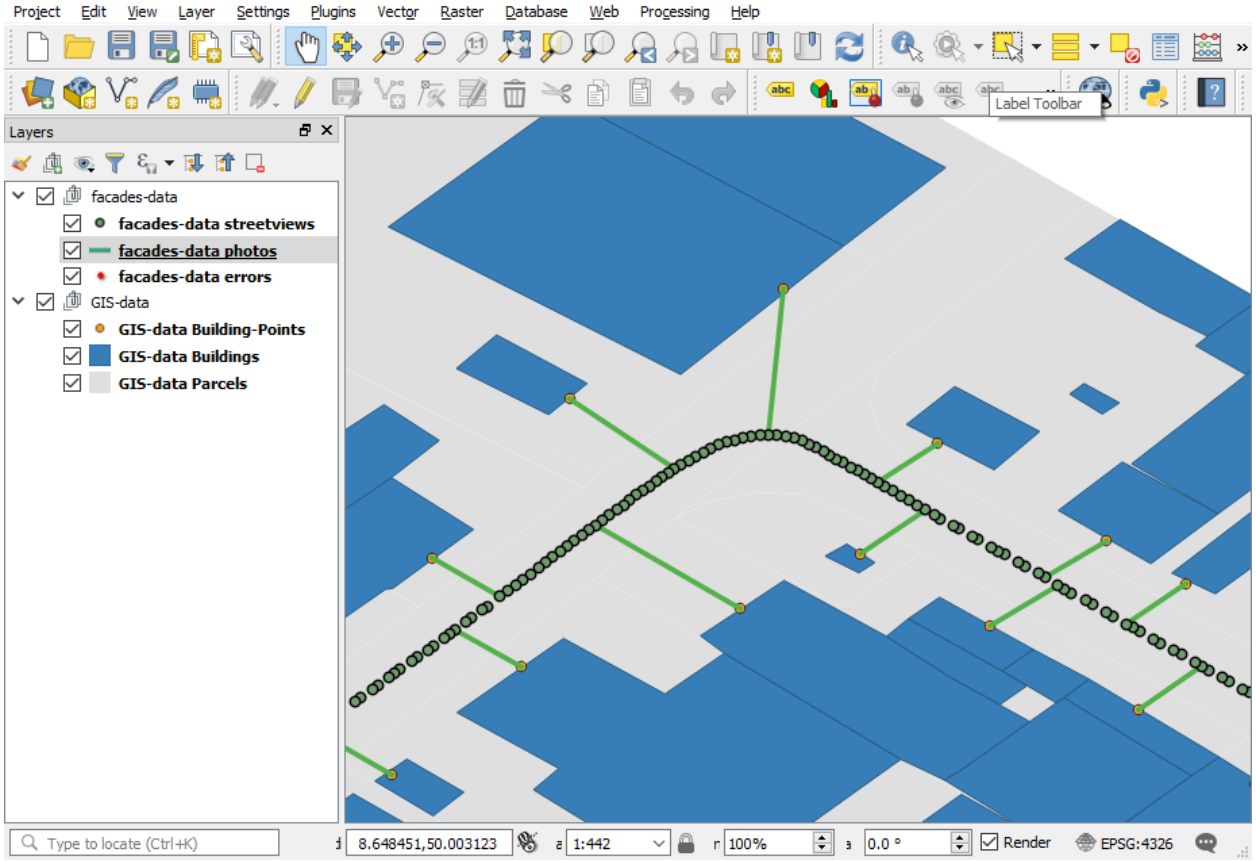
Facades automatically matches a large number of streetviews to a layer of point coordinates (Lat/Lon) from a GIS program like QGIS or ArcGIS.

It then creates photos from the matched streetviews, looking at the points, for example buildings.

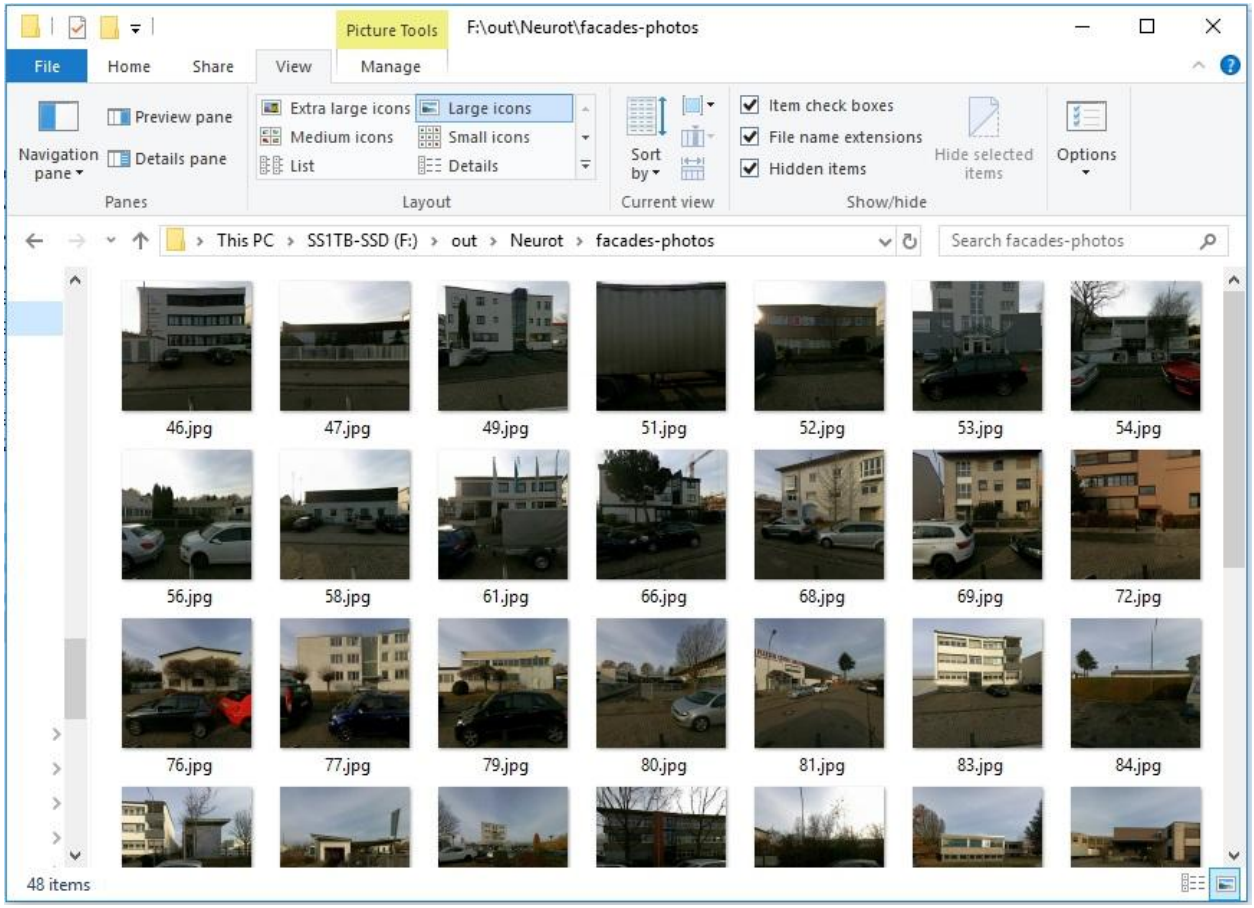
For the point coordinates (Lat/Lon) point layer data in SHP, GDB and TAB formats are accepted.

QGIS screenshot

Reviewing the points and matched streetviews



Resulting images



Recommended Hardware

- 64-bit Windows 10 PC
- NVIDIA RTX 2060 Super graphics card with 8GB VRAM
- 16GB RAM
- 250GB SATA SSD for Windows
- 2TB HDD for the data

Performance:
Approx. 250.000 photos in 24 hours.

Downloads

Programs

Creator 5
https://www.applied-streetview.com/downloads/#creator

Facades
https://www.applied-streetview.com/downloads/#facades

Evaluation Data

Creator 5 project backup (439 kB)
http://aplsv-new.s3.amazonaws.com/Facades-Demo/out/Neurot-20181207-154915-Creator.backup

Creator 5 output for Facades. (800 kB)
http://aplsv-new.s3.amazonaws.com/Facades-Demo/out/Neurot.zip

GIS data for our recording area. (58 kB)
http://aplsv-new.s3.amazonaws.com/Facades-Demo/Neurot-GIS.zip

Recordings (3.38 GB)
http://aplsv-new.s3.amazonaws.com/Facades-Demo/in/Neurot.zip

Abstract Workflow

For a step-by-step introduction see the Example Workflow.

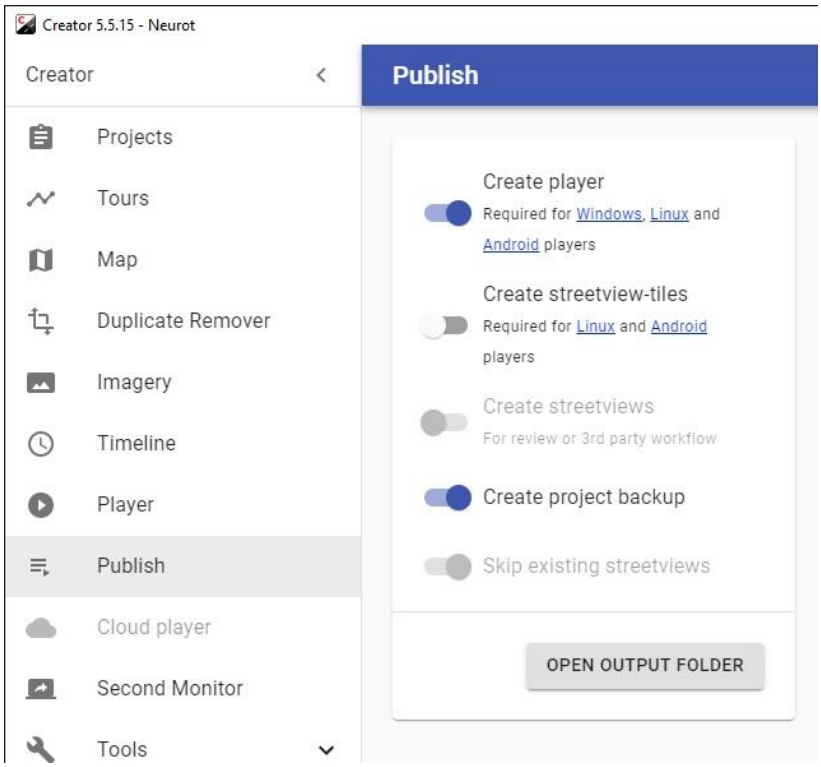
The main steps of the workflow:

Record

Record streetviews by car with the recording mode set to **Distance** and **1 meter**. Preferably use the OBD2 wheel sensor for robustness and RTK for high positioning accuracy.

Publish

With **Creator 5** configure the project as usual and then publish it with the following settings:



It should only need a minute even for big projects.
No images are created.

Prepare a points layer

With your favorite GIS program (e.g. QGIS or ArcGIS) create a points layer for the places you would like to create the photos for.

Supported formats: SHP, GDB and TAB.

Make sure the points layer is in WGS84 projection.

Facades

Process

Select the Creator **project**.
Select the **points layer**.

Maximum distance allowed between streetview and point (m)
Only streetviews inside this distance will be considered for a point.
Change this value for best results, depending on the geographic makeup of your project.

Click the **CREATE MATCHES LAYERS** button to generate three streetview layers for your GIS program:

- errors
- photos
- streetviews

Statistics will be shown at the bottom of the Facades program.

Test with different distances and **review** with your GIS program before continuing.

Review

This step is optional but highly recommended.
Click the **OPEN MATCHES LAYERS FOLDER** button.
Drag and drop the **facades-data** folder to e.g. QGIS and review it.
Adjust the **Maximum distance allowed between streetview and point (m)** value for best results.

Process

Click the **PROCESS** button.

A progress bar should appear for **Creating streetviews.**
After that, another progress bar appears for **Creating point photos.**
When done click the **OPEN POINT PHOTOS FOLDER** button.

Results

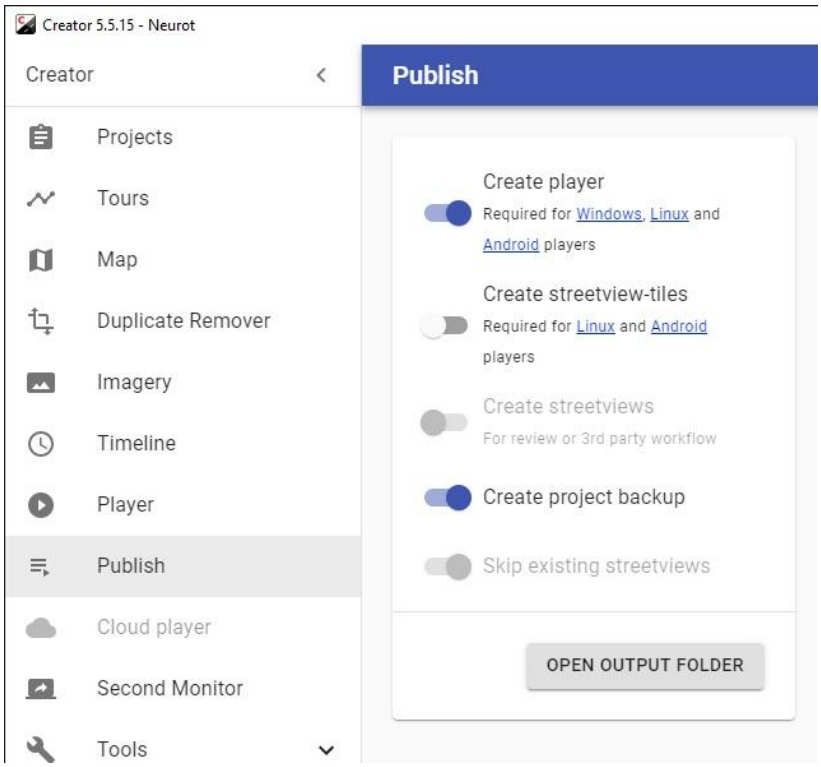
The photos are named after the points.
This makes using these photos very easy.

Workflow with Example Data

Creator 5

Import the **Neurot-Creator.backup** file.
Rename the project to **Neurot**.
Adjust the path to the **in** folder.

Publish it with the following settings:



This should only need a few minutes even for very large projects.
No images are created.

Facades

Process

Select the **Processed projects output folder**.
Example: **F:\out\Neurot**

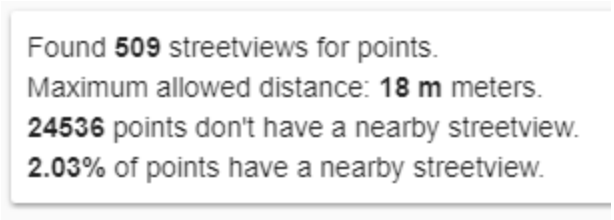
Select the **Point layers folder (SHP, GDB and TAB)**
The folder containing your points data from e.g. ArcGIS or QGIS.
For our example data this si folder **...\Neurot-GIS\GIS-data**
HINT:
The folder appears empty. The files are not shown. This is correct.
Select the folder and continue.

Maximum distance allowed between streetview and point (m)
Only streetviews inside this distance will be considered for a point.
Change the **distance** value for best results, depending on the geographic makeup of your project.

Click the **CREATE MATCHES LAYERS** button to generate three streetview layers for your GIS program:

- errors
- photos
- streetviews

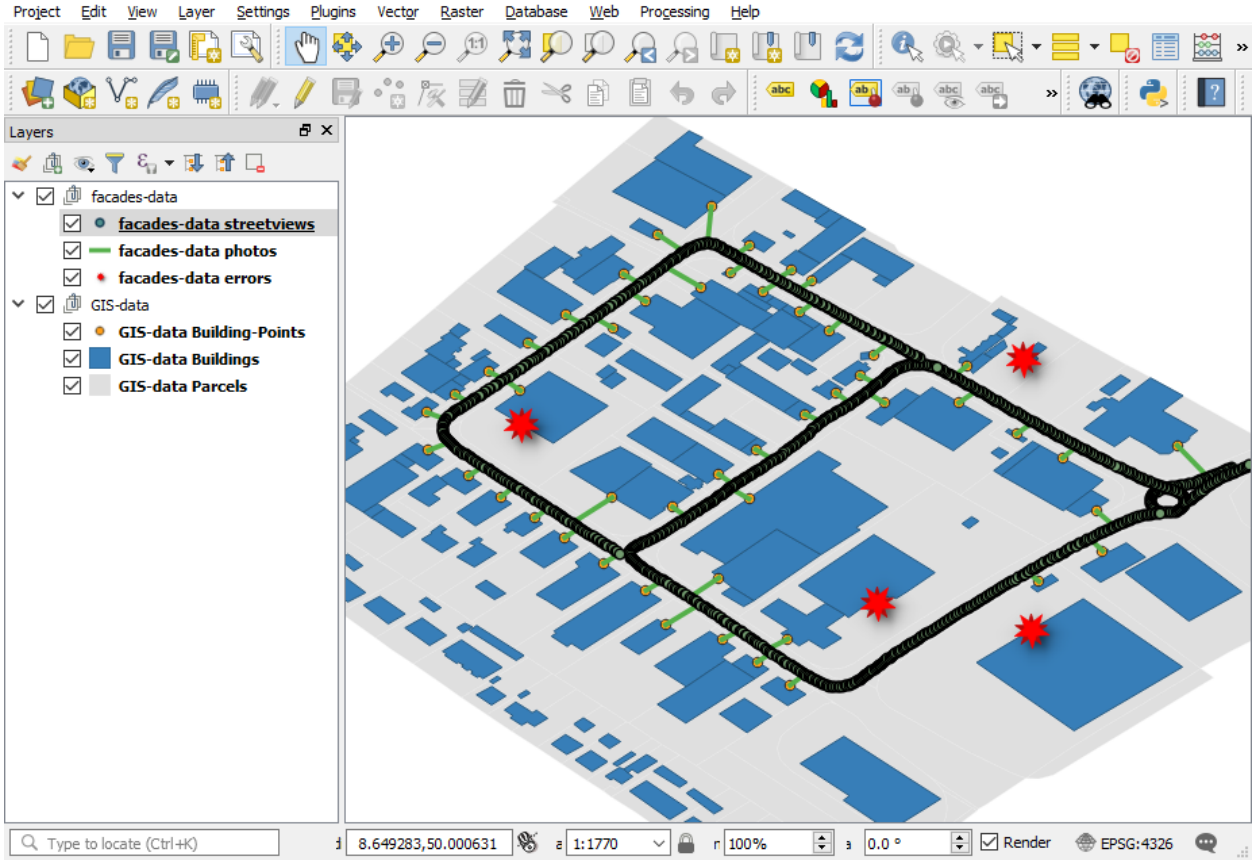
Statistics will be shown at the bottom of the Facades program.



Test with different distances and **check the results** with your GIS program before continuing.

Review

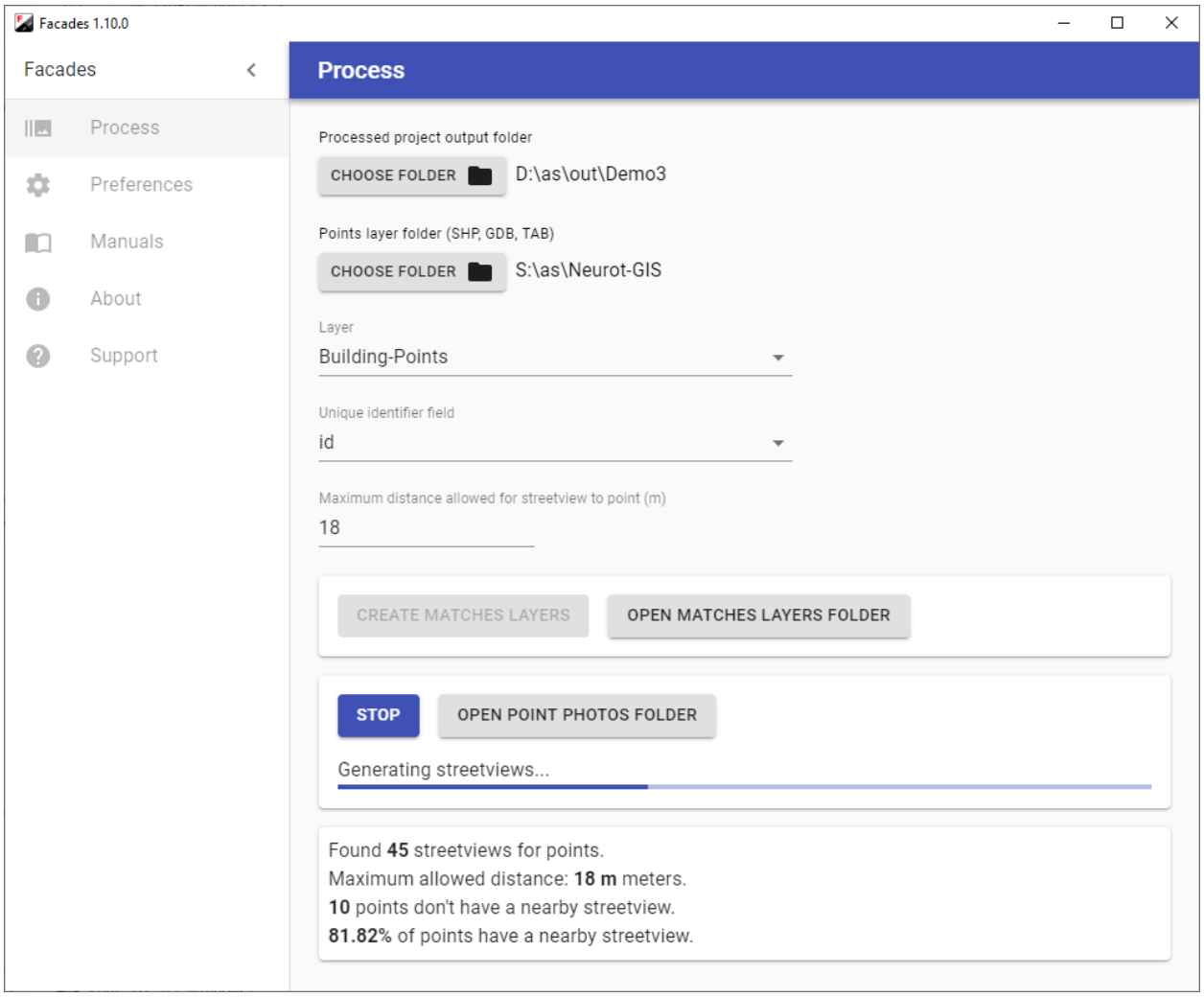
Click the **OPEN MATCHES LAYERS FOLDER** button.
Drag and drop the **facades-data** folder to e.g. QGIS for review it together with your GIS data:



Yellow: Your points. E.g. buildings.
Green lines: Matched streetviews
Red stars: Errors. The distance value was to small. Increase and try again.

Process

Click the **PROCESS** button.



A progress bar should appear for **Creating streetviews.**
After that, another progress bar appears for **Creating point photos.**

When done click the **OPEN POINT PHOTOS FOLDER** button.

Using the results

The photos are named after the points.
This makes using these photos very easy.

Support

Please update first.
Support is provided for the newest Facades release only.
Maybe your problem has already been solved?

Check
https://www.applied-streetview.com/products/programs/facades/
for a new release.

Contact
Support is available in English.

Helpdesk: support.applied-streetview.com
E-Mail: support@applied-streetview.com
Skype ID: applied-streetview
Phone: +49 6103 - 372 7494