



David Bibby

Survey2GIS

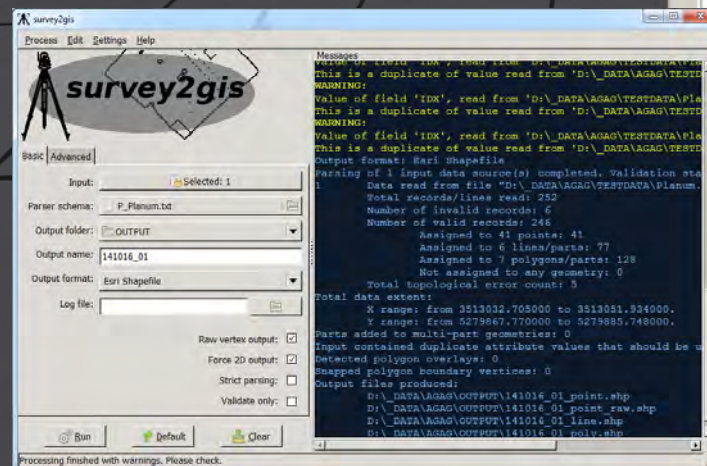
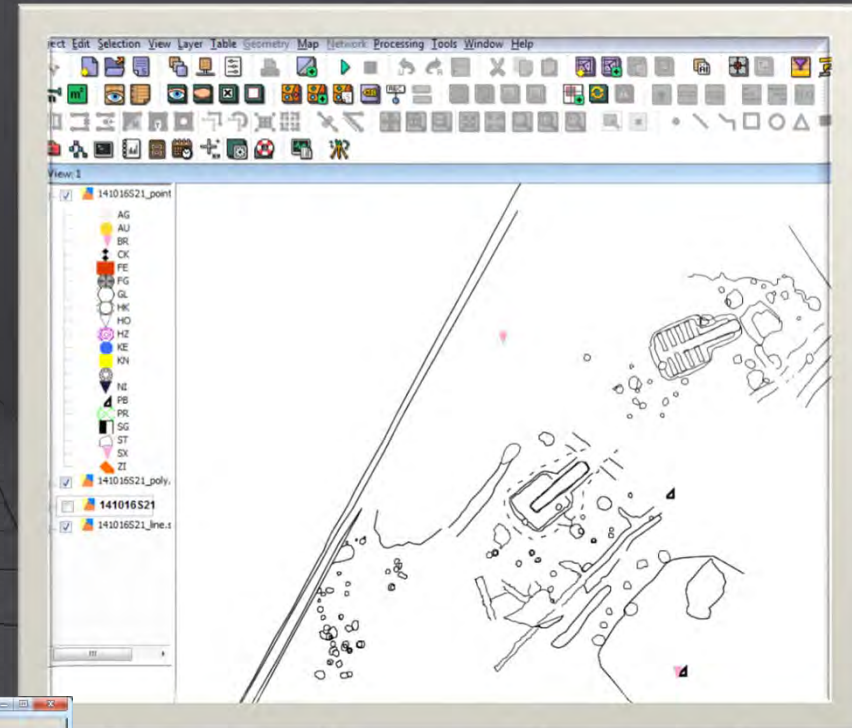
Eine Anwendung für den Transfer von Vermessungsdaten ins GIS

- Gratis (Open Source, GNU General Public License)
- Leicht bedienbar
- Flexibel
- Installierbar auf Windows, Linux & Mac
- Standalone oder Plugin für gvSIG CE





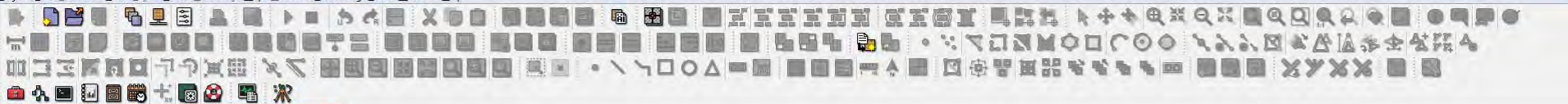
- Survey2GIS verarbeitet 2D or 3D Punktvermessungen von Total Stations, GPS etc. zu beliebig komplexen voll attributierten geometrischen Objekten (Punkte, Polygone und Linien - ESRI(tm) Shapefile oder DXF)





Untitled - gvSIG Community Edition

Project Edit Selection View Layer Table Geometry Map Network Processing Tools Window Help



Project manager

View Table Map

View

New
Open
Rename...
Delete
Properties

Session
Name: Untitled
Saved as:
Creation date: Sep 22, 2014

Properties

i Application started. [Free RAM: 30447/30638MB] [Free CPUs: 24]

1: 10,000



Untitled - gvSIG Community Edition

Project Edit Selection View Layer Table Geometry Map Network Processing Tools Window Help

Project manager

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View Table Map

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Project Edit Selection View Layer Table Geometry Map Network Processing Tools Window Help

Project manager

survey2gis

Process Edit Settings Help

Messages

This is survey2gis 1.1.1.
Fill in options on the left, then click "Run".
Messages, errors and warnings will appear in this area.

Basic | Advanced

Input: Selected: 0

Parser schema: (None)

Output folder: bin

Output name:

Output format: Esri Shapefile

Log file:

Raw vertex output:

Force 2D output:

Strict parsing:

Validate only:

Run Default Clear

Ready.

Session Name: Untitled
Saved as:
Creation date: Sep 22, 2014

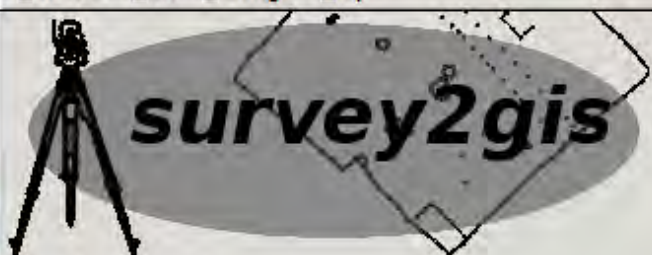
i Application started. [Free RAM: 30447/30638MB] [Free CPUs: 24]

1: 10,000



survey2gis

Process Edit Settings Help



Messages

```
This is survey2gis 1.1.1.  
Fill in options on the left, then click "Run".  
Messages, errors and warnings will appear in this area.  
---
```

Basic | Advanced

Input: Selected: 0

Parser schema: (None)

Output folder: bin

Output name:

Output format: Esri Shapefile

Log file:

Raw vertex output:

Force 2D output:

Strict parsing:

Validate only:

Ready.





survey2gis

Process Edit Settings Help

Basic | Advanced

Input: Selected: 0

Parser schema: (None)

Output folder: bin

Output name:

Output format: Esri Shapefile

Log file:

Raw vertex output:

Force 2D output:

Strict parsing:

Validate only:

Run Default Clear

Ready.

Messages

This is survey2gis 1.1.1.
Fill in options on the left, then click "Run".

File selection

List of input files

D:\D\PROJECTS\Projects 2011\AGAG\GT130228\TESTDATEN\TESTAGAG.dat

248	1_US_C_12	X	3513045.299	Y	5279878.865	Z	399.448
249	1_US_C_12	X	3513045.114	Y	5279878.657	Z	399.537
250	1_US_C_12	X	3513045.575	Y	5279878.151	Z	399.530
251	1_US_C_12	X	3513045.989	Y	5279877.742	Z	399.546
252	1_US_C_12	X	3513046.214	Y	5279877.924	Z	399.523
253	1_US_C_12	X	3513046.494	Y	5279878.184	Z	399.390
254	1_US_S_12	X	3513046.497	Y	5279878.180	Z	399.389
256	1_AU_FZ_0	X	3513040.585	Y	5279881.854	Z	399.102
257	1_AG_FZ_0	X	3513048.410	Y	5279873.696	Z	399.100
258	1_BR_FZ_0	X	3513048.116	Y	5279874.035	Z	399.103
259	1_CK_FZ_0	X	3513047.542	Y	5279874.628	Z	399.103
260	1_FE_FZ_0	X	3513046.908	Y	5279875.294	Z	399.105
261	1_GL_FZ_0	X	3513046.304	Y	5279875.924	Z	399.103
262	1_HK_FZ_0	X	3513045.707	Y	5279876.567	Z	399.099
263	1_HZ_FZ_0	X	3513045.149	Y	5279877.161	Z	399.097
264	1_KE_FZ_0	X	3513044.576	Y	5279877.767	Z	399.097
265	1_KN_FZ_0	X	3513044.019	Y	5279878.369	Z	399.096
266	1_MU_FZ_0	X	3513043.474	Y	5279878.961	Z	399.093
267	1_PB_FZ_0	X	3513042.951	Y	5279879.490	Z	399.095
268	1_SG_FZ_0	X	3513042.446	Y	5279880.020	Z	399.093
269	1_ST_FZ_0	X	3513041.959	Y	5279880.517	Z	399.092
270	1_SX_FZ_0	X	3513041.434	Y	5279881.080	Z	399.099
271	1_ZI_FZ_0	X	3513040.969	Y	5279881.467	Z	399.101
273	1_AU_FZ_110	X	3513047.973	Y	5279872.838	Z	399.400
274	1_AG_FZ_111	X	3513047.409	Y	5279873.409	Z	399.407
275	1_BR_FZ_112	X	3513046.911	Y	5279873.934	Z	399.402

Add Remove Close



The screenshot shows the 'survey2gis' software interface. On the left, a configuration window displays the following settings:

```
# Parser for AGAG format survey files
#
[Parser]
name = Survey2GIS compatible parser
tagging_mode = end
tag_field = ZUSATZ
key_field = NUMMER
tag_strict = No
no_data = -1
geom_tag_line = "$"
geom_tag_poly = "@"
coord_x = COORX
coord_y = COORY
coord_z = COORZ

# Field definitions.

# Index field
[Field]
name = IDX
info = Field with measurement index [0..n]
type = integer
empty_allowed = No
unique = Yes
separator = space
merge_separators = Yes

# Level
[Field]
name = PLANUM
info = N/A
type = Integer
empty_allowed = No
separator = _
merge_separators = No

# Typ
[Field]
name = TYP
info = N/A
type = Text
empty_allowed = No
separator = _
merge_separators = No
change_case = upper

# Zusatz
[Field]
name = ZUSATZ
info = N/A
type = Text
empty_allowed = No
separator = _
merge_separators = No
change_case = upper
```

In the center, a 'Messages' window displays the following text:

```
This is survey2gis 1.1.1.
Fill in options on the left, then click "Run".
```

Overlaid on the messages window is a 'File selection' dialog box titled 'List of input files'. It shows the file path 'D:\D\PROJECTS\Projects 2011\AGAG\GT130228\TESTDATEN\TESTAGAG.dat' and a list of 27 data points:

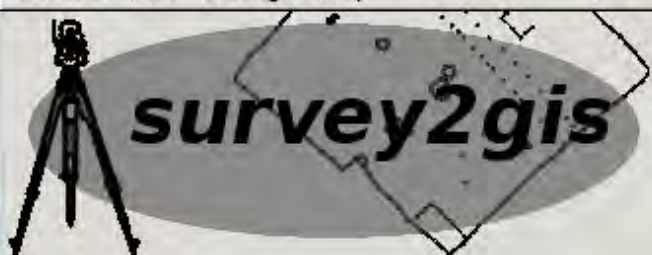
248	1_US_C_12	X	3513045.299	Y	5279878.865	Z	399.448
249	1_US_C_12	X	3513045.114	Y	5279878.657	Z	399.537
250	1_US_C_12	X	3513045.575	Y	5279878.151	Z	399.530
251	1_US_C_12	X	3513045.989	Y	5279877.742	Z	399.546
252	1_US_C_12	X	3513046.214	Y	5279877.924	Z	399.523
253	1_US_C_12	X	3513046.494	Y	5279878.184	Z	399.390
254	1_US_\$_12	X	3513046.497	Y	5279878.180	Z	399.389
256	1_AU_FZ_0	X	3513040.585	Y	5279881.854	Z	399.102
257	1_AG_FZ_0	X	3513048.410	Y	5279873.696	Z	399.100
258	1_BR_FZ_0	X	3513048.116	Y	5279874.035	Z	399.103
259	1_CK_FZ_0	X	3513047.542	Y	5279874.628	Z	399.103
260	1_FE_FZ_0	X	3513046.908	Y	5279875.294	Z	399.105
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266	1_MU_FZ_0	X	3513043.474	Y	5279878.961	Z	399.093
267	1_PB_FZ_0	X	3513042.951	Y	5279879.490	Z	399.095
268	1_SG_FZ_0	X	3513042.446	Y	5279880.020	Z	399.093
269	1_ST_FZ_0	X	3513041.959	Y	5279880.517	Z	399.092
270	1_SX_FZ_0	X	3513041.434	Y	5279881.080	Z	399.099
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273	1_AU_FZ_110	X	3513047.973	Y	5279872.838	Z	399.400
274	1_AG_FZ_111	X	3513047.409	Y	5279873.409	Z	399.407
275	1_BR_FZ_112	X	3513046.911	Y	5279873.934	Z	399.402

The dialog box also features 'Add', 'Remove', and 'Close' buttons at the bottom.



survey2gis

Process Edit Settings Help



Messages

```
This is survey2gis 1.1.1.  
Fill in options on the left, then click "Run".  
Messages, errors and warnings will appear in this area.  
---
```

Basic | Advanced

Input:

Parser schema:

Output folder:

Output name:

Output format:

Log file:

Raw vertex output:

Force 2D output:

Strict parsing:

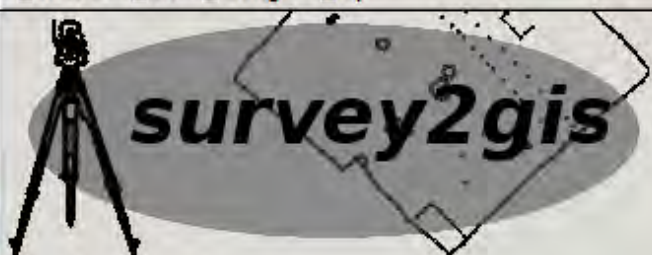
Validate only:

Ready.



survey2gis

Process Edit Settings Help



Messages

```
This is survey2gis 1.1.1.  
Fill in options on the left, then click "Run".  
Messages, errors and warnings will appear in this area.  
---
```

Basic | Advanced

Input:

Parser schema:

Output folder:

Output name:

Output format:

Log file:

Raw vertex output:

Force 2D output:

Strict parsing:

Validate only:

Ready.



survey2gis

Process Edit **Settings** Help

- Open Ctrl+O
- Save Ctrl+S
- Save As
- Default

Basic | Advanced

Input: Selected: 1

Parser schema: P_Planum.txt

Output folder: OUTPUT

Output name: survey

Output format: Esri Shapefile

Log file: log.log

Raw vertex output:

Force 2D output:

Strict parsing:

Validate only:

Run Default Clear

Ready.

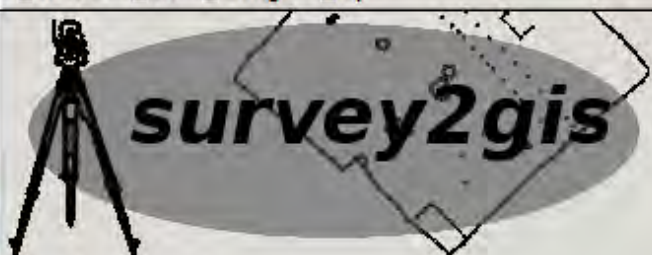
Messages

This is survey2gis 1.1.1.
Fill in options on the left, then click "Run".
Messages, errors and warnings will appear in this area.



survey2gis

Process Edit Settings Help



Messages

```
This is survey2gis 1.1.1.  
Fill in options on the left, then click "Run".  
Messages, errors and warnings will appear in this area.  
---
```

Basic | Advanced

Input: Selected: 0

Parser schema: (None)

Output folder: bin

Output name:

Output format: Esri Shapefile

Log file:

Raw vertex output:

Force 2D output:

Strict parsing:

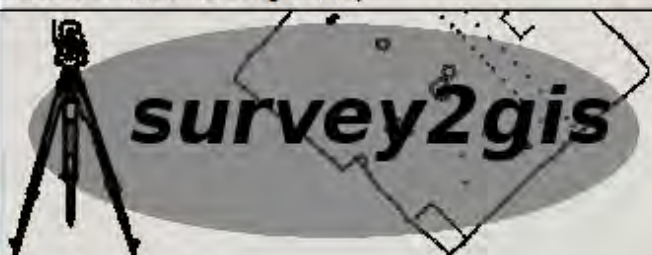
Validate only:

Ready.



survey2gis

Process Edit Settings Help



Messages

```
This is survey2gis 1.1.1.  
Fill in options on the left, then click "Run".  
Messages, errors and warnings will appear in this area.  
---
```

Basic | Advanced

Input: Selected: 0

Parser schema: (None)

Output folder: bin

Output name:

Output format: Esri Shapefile

Log file:

Raw vertex output:

Force 2D output:

Strict parsing:

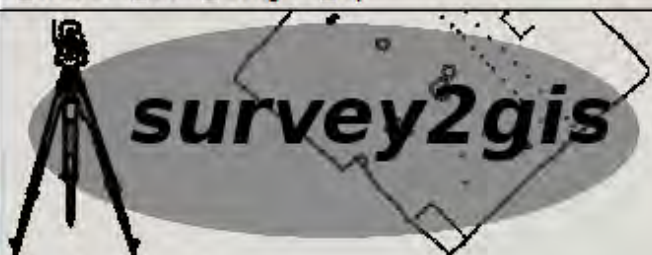
Validate only:

Ready.



survey2gis

Process Edit Settings Help



Messages

```
This is survey2gis 1.1.1.  
Fill in options on the left, then click "Run".  
Messages, errors and warnings will appear in this area.  
---
```

Basic | Advanced

Input:

Parser schema:

Output folder:

Output name:

Output format:

Log file:

Raw vertex output:

Force 2D output:

Strict parsing:

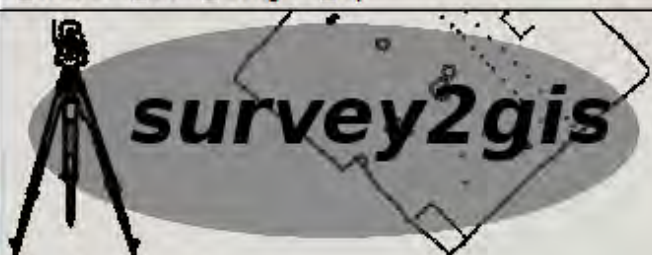
Validate only:

Ready.



survey2gis

Process Edit Settings Help



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```
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Fill in options on the left, then click "Run".  
Messages, errors and warnings will appear in this area.  
---
```

Basic | Advanced

Input:

Parser schema:

Output folder:

Output name:

Output format:

Log file:

Raw vertex output:

Force 2D output:

Strict parsing:

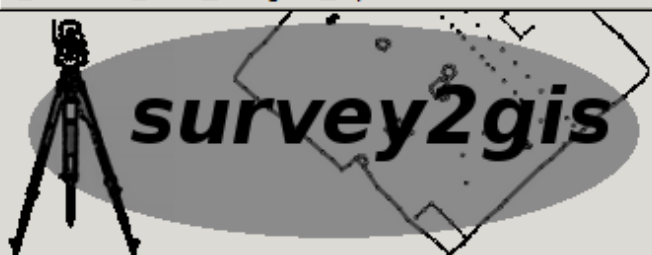
Validate only:

Ready.



survey2gis

Process Edit Settings Help



Basic | Advanced

Input: Selected: 1

Parser schema: P_Planum.txt

Output folder: OUTPUT

Output name: survey

Output format: Esri Shapefile

Log file: log.log

Raw vertex output:

Force 2D output:

Strict parsing:

Validate only:

Run Default Clear

Messages

```
Value of field 'IDX', read from 'D:\_DATA\AGAG\TESTDATA\Pla
This is a duplicate of value read from 'D:\_DATA\AGAG\TESTD
WARNING:
Value of field 'IDX', read from 'D:\_DATA\AGAG\TESTDATA\Pla
This is a duplicate of value read from 'D:\_DATA\AGAG\TESTD
WARNING:
Value of field 'IDX', read from 'D:\_DATA\AGAG\TESTDATA\Pla
This is a duplicate of value read from 'D:\_DATA\AGAG\TESTD
Output format: Esri Shapefile
Parsing of 1 input data source(s) completed. Validation sta
1 Data read from file "D:\_DATA\AGAG\TESTDATA\Planum.
Total records/lines read: 252
Number of invalid records: 6
Number of valid records: 246
Assigned to 41 points: 41
Assigned to 6 lines/parts: 77
Assigned to 7 polygons/parts: 128
Not assigned to any geometry: 0
Total topological error count: 5
Total data extent:
X range: from 3513032705,000000 to 3513051934,00000
Y range: from 5279867770,000000 to 5279885748,00000
Z range: from 398654,000000 to 399982,000000.
Parts added to multi-part geometries: 0
Input contained duplicate attribute values that should be u
Detected polygon overlays: 0
Snapped polygon boundary vertices: 0
Output files produced:
D:\_DATA\AGAG\OUTPUT\survey_point.shp
D:\_DATA\AGAG\OUTPUT\survey_line.shp
D:\_DATA\AGAG\OUTPUT\survey_poly.shp
```

Processing finished with warnings. Please check.



gvsig Community Edition

Project Edit Selection View Layer Table Geometry Map Network Processing Tools Window Help

Project manager

survey2gis

Process Edit Settings Help

Basic Advanced

Input: Selected: 1

Parser schema: P_Planum.txt

Output folder: OUTPUT

Output name: survey

Output format: Esri Shapefile

Log file: log.log

Raw vertex output:

Force 2D output:

Strict parsing:

Validate only:

Run Default Clear

Messages

```
THIS IS A DUPLICATE OF VALUE READ FROM 'D:\_DATA\AGAG\TESTD
WARNING:
Value of field 'IDX', read from 'D:\_DATA\AGAG\TESTDATA\Pla
This is a duplicate of value read from 'D:\_DATA\AGAG\TESTD
WARNING:
Value of field 'IDX', read from 'D:\_DATA\AGAG\TESTDATA\Pla
This is a duplicate of value read from 'D:\_DATA\AGAG\TESTD
Output format: Esri Shapefile
Parsing of 1 input data source(s) completed. Validation sta
1
Data read from file "D:\_DATA\AGAG\TESTDATA\Planum.
Total records/lines read: 252
Number of invalid records: 6
Number of valid records: 246
Assigned to 41 points: 41
Assigned to 6 lines/parts: 77
Assigned to 7 polygons/parts: 128
Not assigned to any geometry: 0
Total topological error count: 5
Total data extent:
X range: from 3513032705,000000 to 3513051934,000000
Y range: from 5279867770,000000 to 5279885748,000000
Z range: from 398654,000000 to 399982,000000.
Parts added to multi-part geometries: 0
Input contained duplicate attribute values that should be u
Detected polygon overlays: 0
Snapped polygon boundary vertices: 0
Output files produced:
D:\_DATA\AGAG\OUTPUT\survey_point.shp
D:\_DATA\AGAG\OUTPUT\survey_point_raw.shp
D:\_DATA\AGAG\OUTPUT\survey_line.shp
D:\_DATA\AGAG\OUTPUT\survey_poly.shp
```

Processing finished with warnings. Please check.

Session Name: Untitled Saved as: Creation date: Sep 22, 2014

Application started. [Free RAM: 30447/30638MB] [Free CPUs: 24]

1: 10,000



Untitled - gvSIG Community Edition

Project Edit Selection View Layer Table Geometry Map Network Processing Tools Window Help

Project manager

View Table Map

View

New
Open
Rename...
Delete
Properties

Session
Name: Untitled
Saved as:
Creation date: Sep 22, 2014

Properties

Survey2GIS - Layer selection

Choose the layers to import into the view:

- D:_DATA\AGAG\OUTPUT\survey_line.shp
- D:_DATA\AGAG\OUTPUT\survey_point.shp
- D:_DATA\AGAG\OUTPUT\survey_point_raw.shp
- D:_DATA\AGAG\OUTPUT\survey_poly.shp

Choose a view to add the results or enter a name for a new one:

[Empty text box]

Apply default survey2gis legend for generated layers.

Ok Cancel

i Application started. [Free RAM: 30569/30638MB] [Free CPUs: 24]

1: 10,000



Untitled - gvSIG Community Edition

Project Edit Selection View Layer Table Geometry Map Network Processing Tools Window Help

Project manager

View Table Map

View

New
Open
Rename...
Delete
Properties

Session
Name: Untitled
Saved as:
Creation date: Sep 22, 2014

Properties

Survey2GIS - Layer selection

Choose the layers to import into the view:

- D:_DATA\AGAG\OUTPUT\survey_line.shp
- D:_DATA\AGAG\OUTPUT\survey_point.shp
- D:_DATA\AGAG\OUTPUT\survey_point_raw.shp
- D:_DATA\AGAG\OUTPUT\survey_poly.shp

Choose a view to add the results or enter a name for a new one:

Apply default survey2gis legend for generated layers.

Ok Cancel

i Application started. [Free RAM: 30558/30638MB] [Free CPUs: 24]

1: 10,000



Untitled - gvSIG Community Edition

Project Edit Selection View Layer Table Geometry Map Network Processing Tools Window Help

Project manager

View Table Map

View

New
Open
Rename...
Delete
Properties

Session
Name: Untitled
Saved as:
Creation date: Sep 22, 2014

Properties

Survey2GIS - Layer selection

Choose the layers to import into the view:

- D:_DATA\AGAG\OUTPUT\survey_line.shp
- D:_DATA\AGAG\OUTPUT\survey_point.shp
- D:_DATA\AGAG\OUTPUT\survey_point_raw.shp
- D:_DATA\AGAG\OUTPUT\survey_poly.shp

Choose a view to add the results or enter a name for a new one:

survey

Apply default survey2gis legend for generated layers.

Ok Cancel

i Application started. [Free RAM: 30551/30638MB] [Free CPUs: 24]

1: 10,000



Untitled - gvSIG Community Edition

Project Edit Selection View Layer Table Geometry Map Network Processing Tools Window Help

Project manager

View Table Map

View

New
Open
Rename...
Delete
Properties

Session
Name: Untitled
Saved as:
Creation date: Sep 22, 2014

Properties

Survey2GIS - Layer selection

Choose the layers to import into the view:

- D:_DATA\AGAG\OUTPUT\survey_line.shp
- D:_DATA\AGAG\OUTPUT\survey_point.shp
- D:_DATA\AGAG\OUTPUT\survey_point_raw.shp
- D:_DATA\AGAG\OUTPUT\survey_poly.shp

Choose a view to add the results or enter a name for a new one:

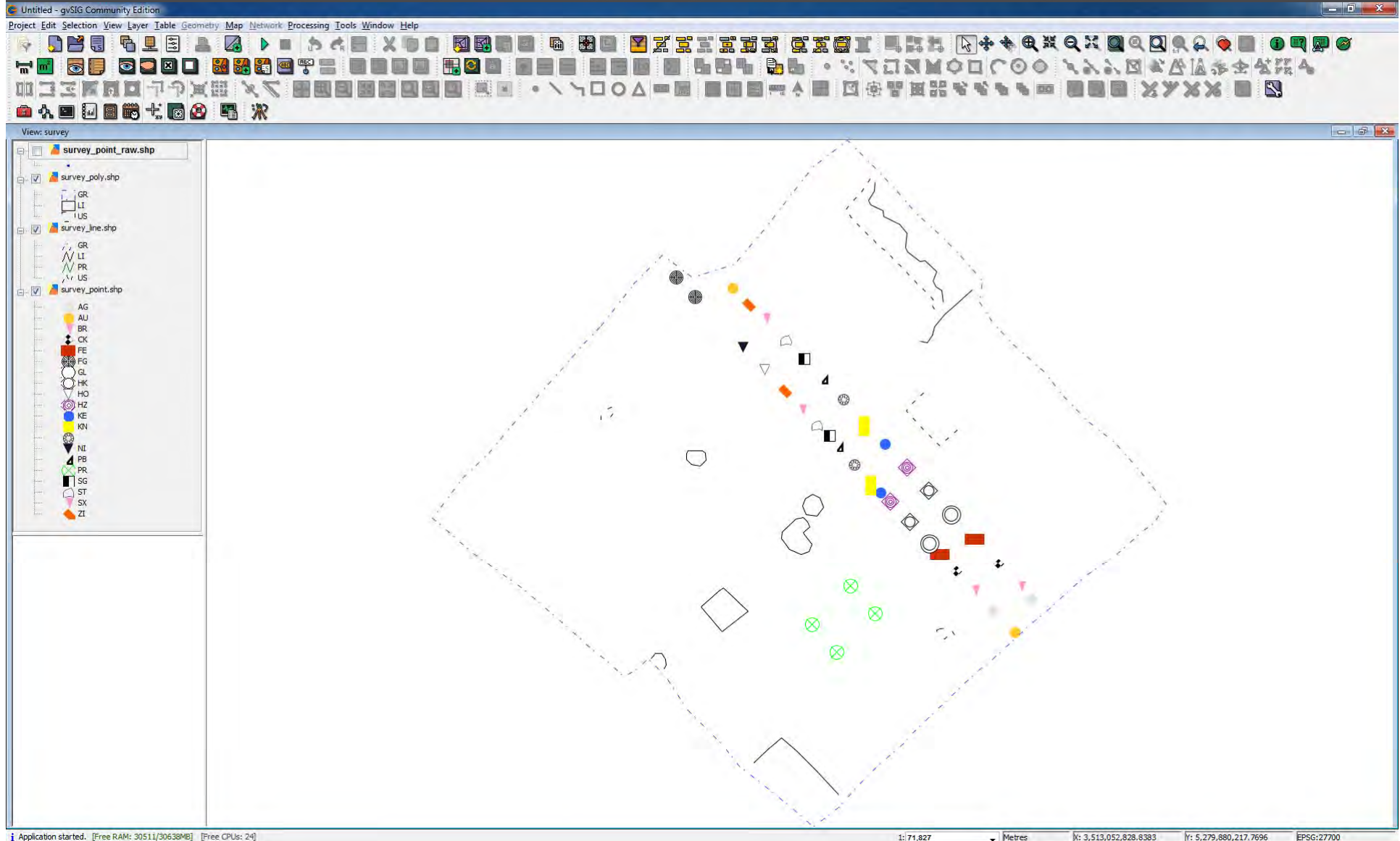
survey

Apply default survey2gis legend for generated layers.

Ok Cancel

i Application started. [Free RAM: 30549/30638MB] [Free CPUs: 24]

1:10,000





Unbenannt - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Tools Window Help

Layers

- 333_point
- 333_line
- 333_poly
TYP
 - L
 - U
 - G

Display Source Selection

Drawing Arial 10 B I U A

3513052,761 5279867,132 Unknown Units



OpenJUMP

File Edit View Layer Customize Tools Raster Window Help

20 m

Project 1

- Working
 - 333_point
 - 333_poly
 - 333_line
- System

Number Select... 44 MB Commit... 1:112 (3513046.892...



QGIS 2.0.1-Dufour

Projekt Bearbeiten Ansicht Layer Einstellungen Erweiterungen Vektor Raster Datenbank Verarbeitung Hilfe

Layer

- 1129_point
- 1129_line
- 1129_poly

Layer Browser

Kürzester Weg

Start

Stopp

Kriterium Länge

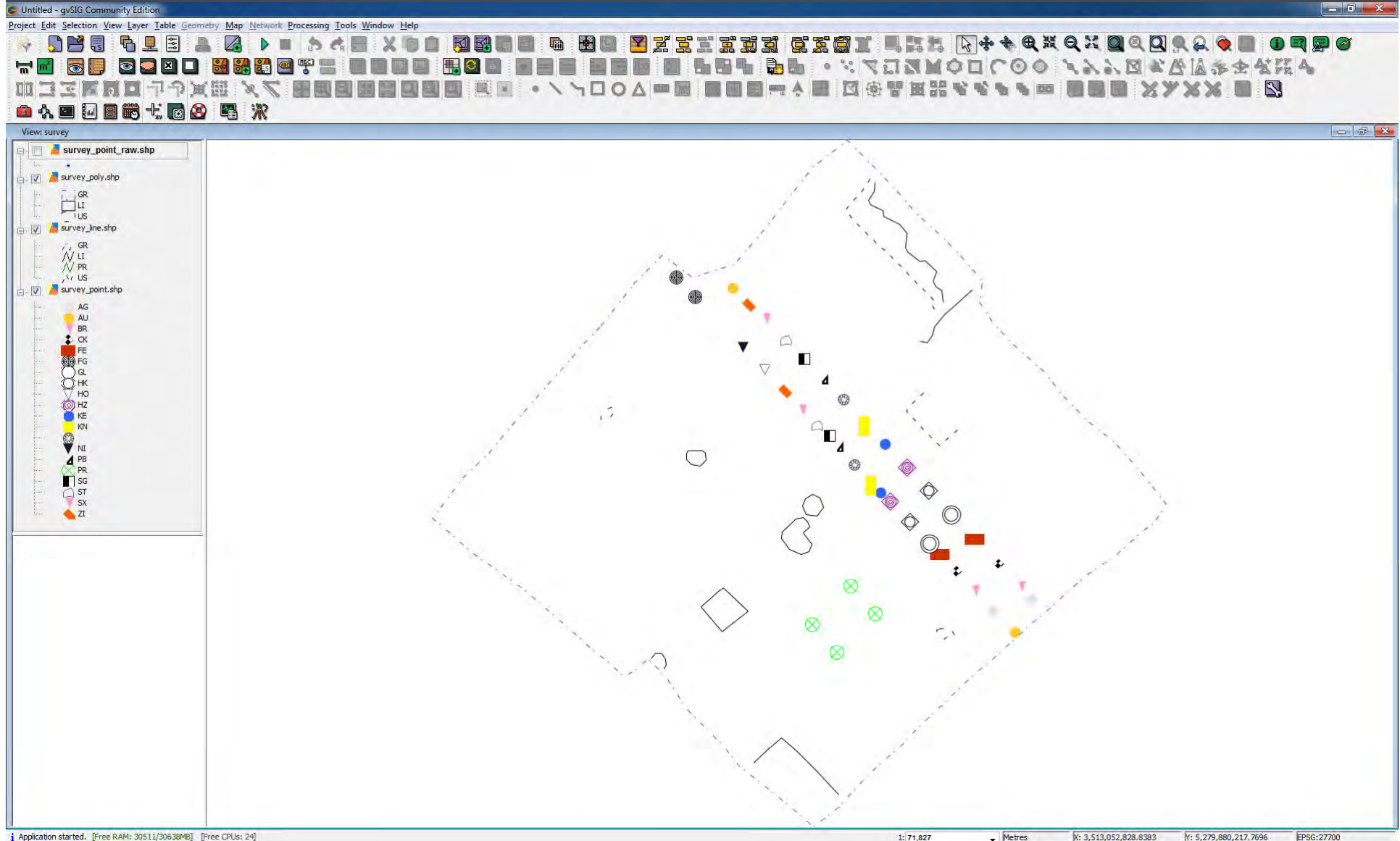
Länge

Zeit

Berechnen Exportieren Löschen

Hilfe

Koordinate: 3513032.22,5279867.44 Maßstab 1:4169974 EPSG:4326





Untitled - gvSIG Community Edition

Project Edit Selection View Layer Table Geometry Map Network Processing Tools Window Help

View: Survey

- Survey_poly.shp
 - GR
 - LI
 - US
- Survey_point.shp
- Survey_line.shp

Application started. [Free RAM: 30560/30638MB] [Free CPUs: 24]

1: 15 Metres X: 3,513,045.6167 Y: 5,279,879.9266 EPSG:27700

The screenshot displays the gvSIG Community Edition interface. The main map area shows a white background with several survey data points and lines. There are two orange diamonds, one pink triangle pointing down, one black triangle pointing down, one black square, one black triangle pointing up, and one black circle. A dashed line forms a boundary around the top and right sides of the map. The left sidebar shows a layer list with 'Survey_poly.shp' expanded to show sub-layers 'GR', 'LI', and 'US'. The bottom status bar provides system information and map coordinates.



gvsig Community Edition

Project Edit Selection View Layer Table Geometry Map Network Processing Tools Window Help

View: Survey

- Survey_poly.
- Survey_pot
- Survey_line.shp

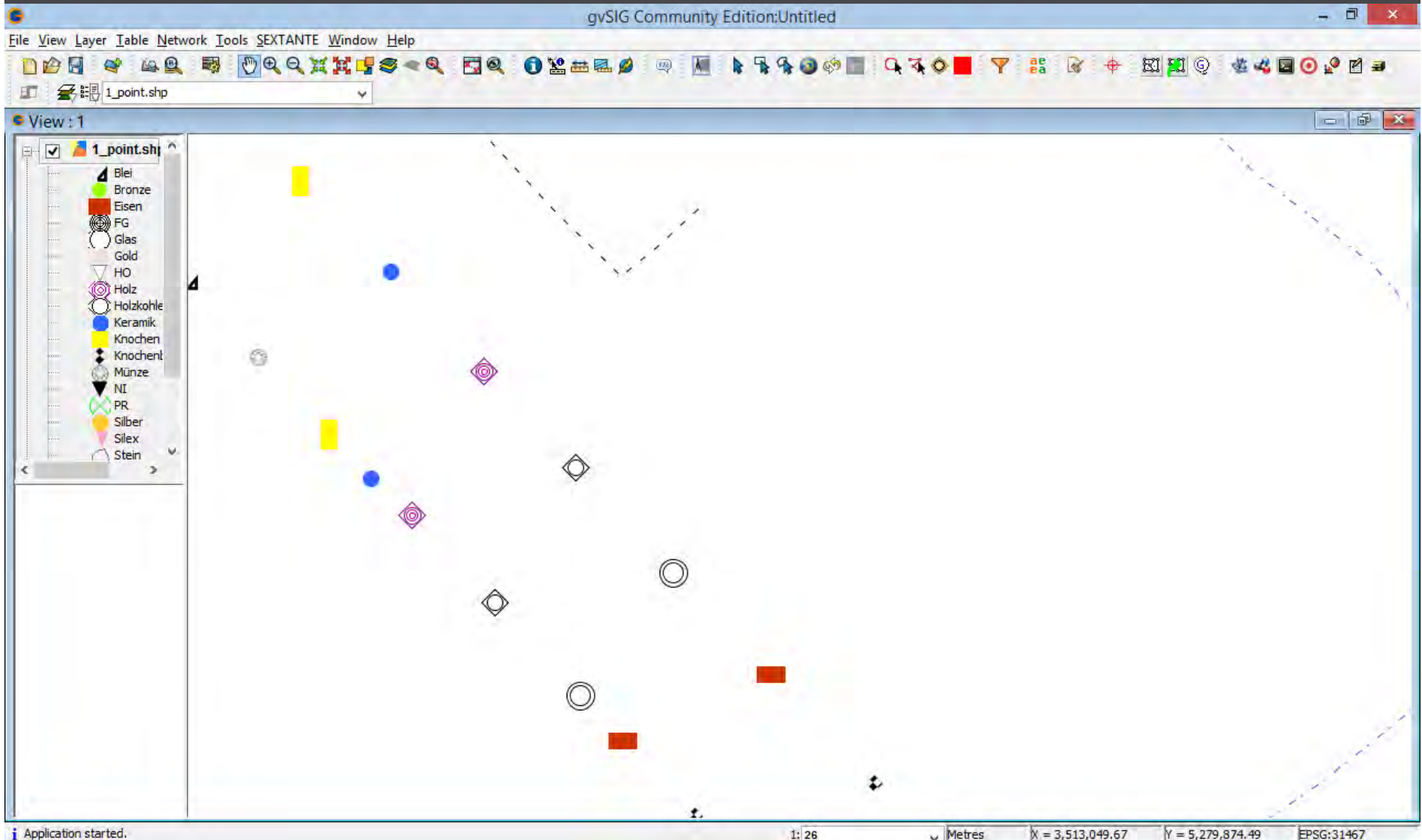
GEOM_ID	IDX	PLANUM	TYP	ZUSATZ	NUMMER	COORX	COORY	COORZ
22	279	1	HK	FZ	116	3513045.217	5279875.739	399.406
23	280	1	HZ	FZ	117	3513044.701	5279876.277	399.33
24	281	1	KE	FZ	118	3513044.45	5279876.5	399.404
25	282	1	KN	FZ	119	3513044.197	5279876.814	399.392
26	283	1	MU	FZ	120	3513043.759	5279877.249	399.423
27	284	1	PB	FZ	121	3513043.342	5279877.71	399.389
28	285	1	SG	FZ	122	3513043.1	5279878.0	399.375
29	286	1	ST	FZ	123	3513042.773	5279878.287	399.387
30	287	1	SX	FZ	124	3513042.384	5279878.688	399.42
31	288	1	ZI	FZ	125	3513041.917	5279879.207	399.42
32	290	1	FG	P	0	3513039.601	5279881.625	399.375

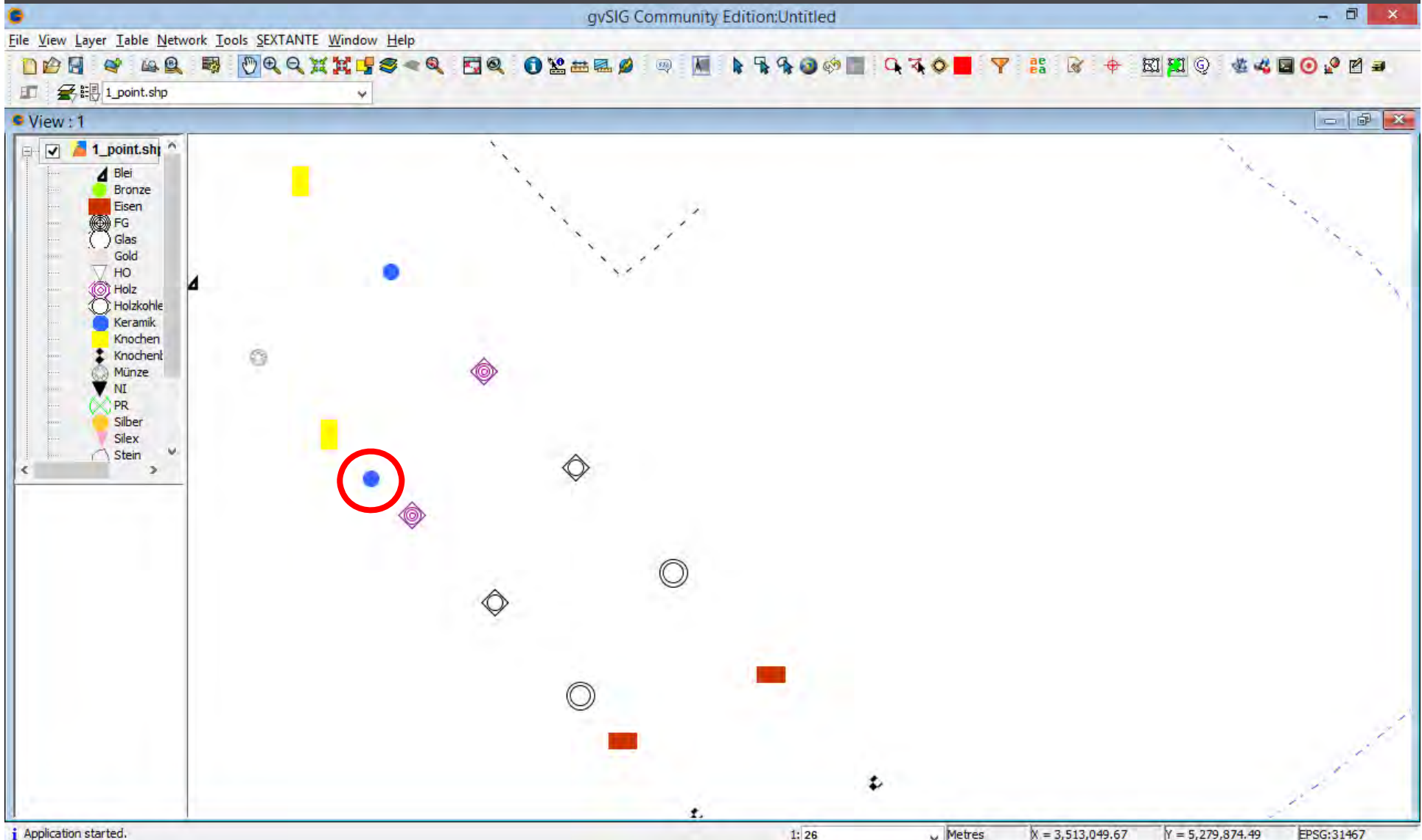
1 / 41 Total records selected.

280	1_HZ_FZ_117	X	3513044.701	Y	5279876.277	Z	399.330
281	1_KE_FZ_118	X	3513044.450	Y	5279876.500	Z	399.404
282	1_KE_FZ_118	X	3513044.450	Y	5279876.500	Z	399.404
282	1_KN_FZ_119	X	3513044.197	Y	5279876.814	Z	399.392
283	1_MU_FZ_120	X	3513043.759	Y	5279877.249	Z	399.423
284	1_PB_FZ_121	X	3513043.342	Y	5279877.710	Z	399.389
285	1_SG_FZ_122	X	3513043.100	Y	5279878.000	Z	399.375
286	1_ST_FZ_123	X	3513042.773	Y	5279878.287	Z	399.387
287	1_SX_FZ_124	X	3513042.384	Y	5279878.688	Z	399.420
288	1_ZI_FZ_125	X	3513041.917	Y	5279879.207	Z	399.420
290	1_FG_P_0	X	3513039.601	Y	5279881.625	Z	399.375
291	1_FG_P_0	X	3513039.099	Y	5279882.141	Z	399.325
294	1_HO_P_0	X	3513041.411	Y	5279879.736	Z	399.425

Application started. [Free RAM: 30563/30638MB] [Free CPUs: 24]

1:15 Metres X: 3,513,042.0029 Y: 5,279,879.1651 EPSG:27700







gvSIG Community Edition:Untitled

File View Layer Table Network Tools SEXTANTE Window Help

Table: Attribute table: 1_point.shp

GEOM_ID	VORGANG	GRABUNG	IDX	PLANUM	TYP	TYP2	ZUSATZ	NUMMER	COORX	COORY	COORZ
21	2013_999	any excavat...	278	1	Glas	Unbestimmt	FZ	115	3513045.734	5279875.17	399.431
22	2013_999	any excavat...	279	1	Holzkohle	Unbestimmt	FZ	116	3513045.217	5279875.739	399.406
23	2013_999	any excavat...	280	1	Holz	Unbestimmt	FZ	117	3513044.701	5279876.277	399.33
24	2013_999	any excavat...	281	1	Keramik	Wandscherbe	FZ	118	3513044.45	5279876.5	399.404
25	2013_999	any excavat...	282	1	Knochen	Unbestimmt	FZ	119	3513044.197	5279876.814	399.392
26	2013_999	any excavat...	283	1	Münze	Unbestimmt	FZ	120	3513043.759	5279877.249	399.423
27	2013_999	any excavat...	284	1	Blei	Unbestimmt	FZ	121	3513043.342	5279877.71	399.389
28	2013_999	any excavat...	285	1	Steingerät	Unbestimmt	FZ	122	3513043.1	5279878.0	399.375
29	2013_999	any excavat...	286	1	Stein	Unbestimmt	FZ	123	3513042.773	5279878.287	399.387
30	2013_999	any excavat...	287	1	Silex	Unbestimmt	FZ	124	3513042.384	5279878.688	399.42

1 / 41 Total records selected.

- Silber
- Silex
- Stein



279	1_HK_U_FZ_116	X	3513045.217	Y	5279875.739	Z	399.406
280	1_HZ_U_FZ_117	X	3513044.701	Y	5279876.277	Z	399.330
281	1_KE_WS_FZ_118	X	3513044.450	Y	5279876.500	Z	399.404
282	1_KN_U_FZ_119	X	3513044.197	Y	5279876.814	Z	399.392
283	1_MU_U_FZ_120	X	3513043.759	Y	5279877.249	Z	399.423



```
# Typ
[Field]
name = TYP
info = N/A
type = Text
empty_allowed = No
separator = _
merge_separators = No
change_case = upper
@AU = Gold
@AG = Silber
@BR = Bronze
@CK = Knochenbrand
@FE = Eisen
@GL = Glas
@HK = Holzkohle
@HZ = Holz
@KE = Keramik
@KN = Knochen
@MU = Münze
@PB = Blei
@SG = Steingerät
@ST = Stein
@SX = Silex
@ZI = Ziegel

type = integer
empty_allowed = No
unique = Yes
separator = space
merge_separators =

# Level
[Field]
name = PLANUM
info = N/A
type = Integer
empty_allowed = No
separator = _
merge_separators = N
```

```
# Typ 2
[Field]
name = TYP2
info = N/A
type = Text
empty_allowed = No
separator = _
merge_separators = No
change_case = upper
@BS = Bodenscherbe
@D = Dach
@FB = Fibel
@FG = Fotogrammetrie
@G = Grube
@GE = Granit
@GN = Graben
@GR = Grabungsgrenze
@K = Klinge
@M = Mensch
@MS = Messer
@NI = Nivellement
@PL = Pfostenloch
@OR = Ohrring
@PN = Profilnagel
@PP = Passpunkt
@RS = Randscherbe
@S = Schicht
@SP = Spiegel
@T = Tier
@U = Unbestimmt
@WS = Wandscherbe
```

Community Edition:Untitled

Attribute	Value
GEOM_ID	24
VORGANG	2013_999
GRABUNG	any excavation
IDX	281
PLANUM	
TYP	Keramik
TYP2	Wandscherbe
ZUSATZ	12
NUMMER	118
COORX	3513044.45
COORY	5279876.5
COORZ	399.404

279	1_HK_U_FZ_116	X	3513045.217	Y	5279875.73
280	1_HZ_U_FZ_117	X	3513044.701	Y	5279876.27
281	1_KE_WS_FZ_118	X	3513044.450	Y	5279876.50
282	1_KN_U_FZ_119	X	3513044.197	Y	5279876.81
283	1_MU_U_FZ_120	X	3513043.759	Y	5279877.24

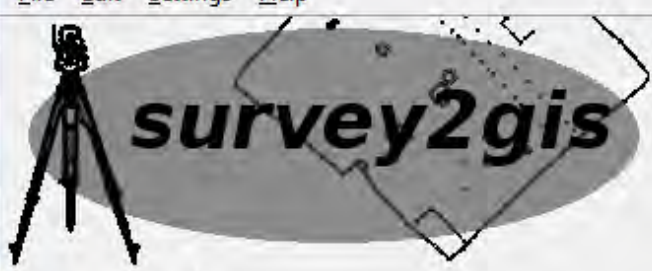
1: 26 Metres X = 3,513,049.67 Y = 5,279,874.49 EPSG:31467





survey2gis

File Edit Settings Help



Messages

```
This is: survey2gis 1.0  
Fill in options on the left, then click "Execute".  
Messages, errors and warnings will appear in this area.  
---
```

Basic | Advanced

Coord. tolerance: 0.000000

Snapping distance: 0.000000

Coord. X offset: 0.000000

Coord. Y offset: 0.000000

Coord. Z offset: 0.000000

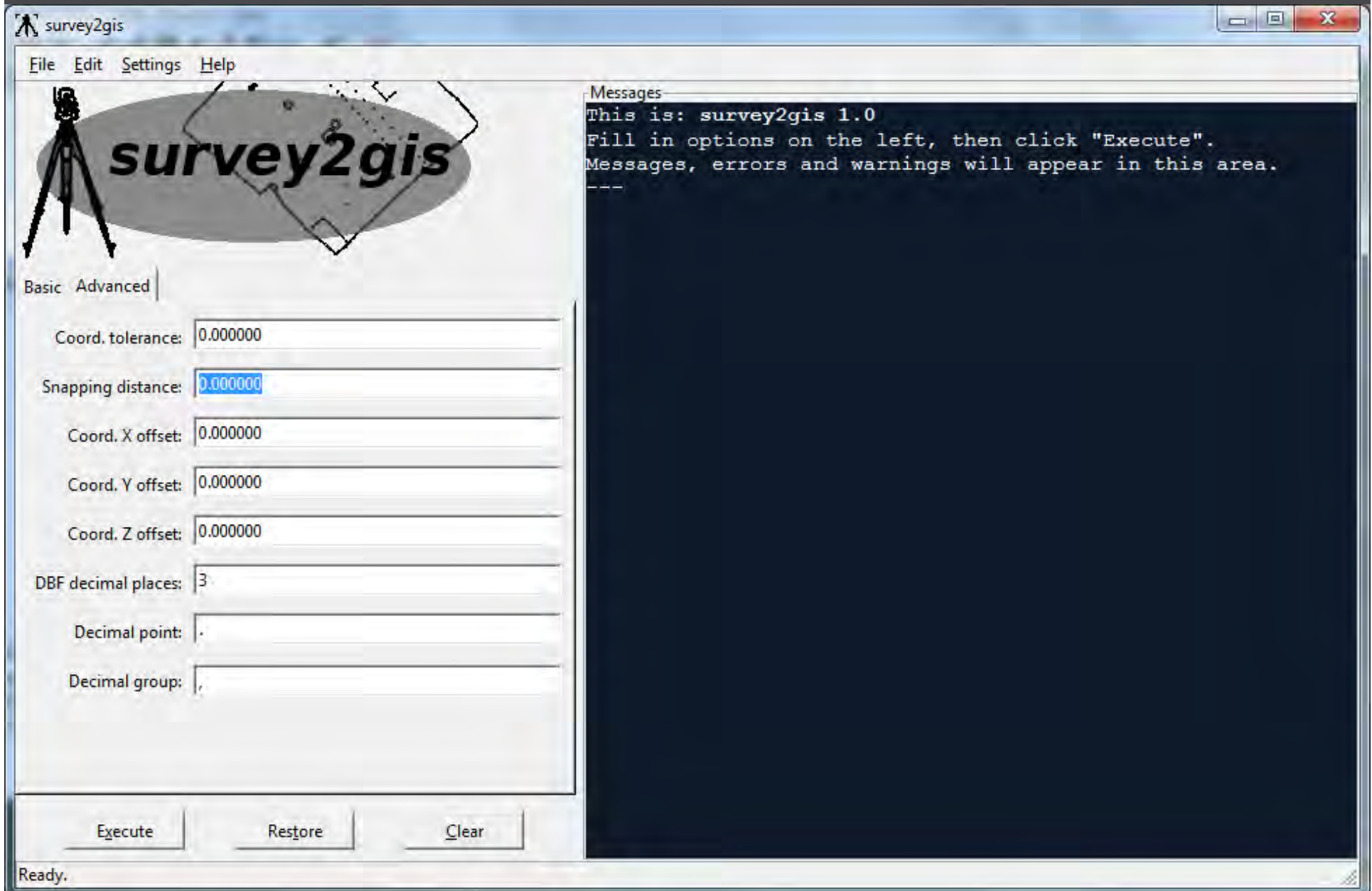
DBF decimal places: 3

Decimal point: .

Decimal group: ,

Execute Restore Clear

Ready.





gvSIG Community Edition:Untitled

File Table View SEXTANTE Layer Network Tools Window Help

1_point_raw.shp

View:1

- 1_point_ra
- 1_point.shp
- 1_poly.shp

1:6 Meters X = 3,522,303.96 Y = 5,400,424.73 EPSG:31467

Adding support for legend file formats: Ok

The screenshot shows the gvSIG Community Edition interface. The main map area displays two overlapping polygonal shapes, likely representing archaeological sites or land parcels. The left sidebar shows a layer list with three items: '1_point_ra', '1_point.shp', and '1_poly.shp'. The '1_poly.shp' layer is currently selected and checked. The status bar at the bottom indicates the current scale is 1:6 meters, with X and Y coordinates of 3,522,303.96 and 5,400,424.73 respectively, and the coordinate system is EPSG:31467. A small dialog box is visible in the bottom left corner with the text 'Adding support for legend file formats: Ok'.



gvSIG Community Edition:Untitled

File Table View SEXTANTE Layer Network Tools Window Help

1_point_raw.shp

View:1

- 1_point_ra
- 1_point.shp
- 1_poly.shp

1:6 Meters X = 3,522,303.96 Y = 5,400,424.73 EPSG:31467

Adding support for legend file formats: Ok



gvSIG Community Edition:Untitled

File Table View SEXTANTE Layer Network Tools Window Help

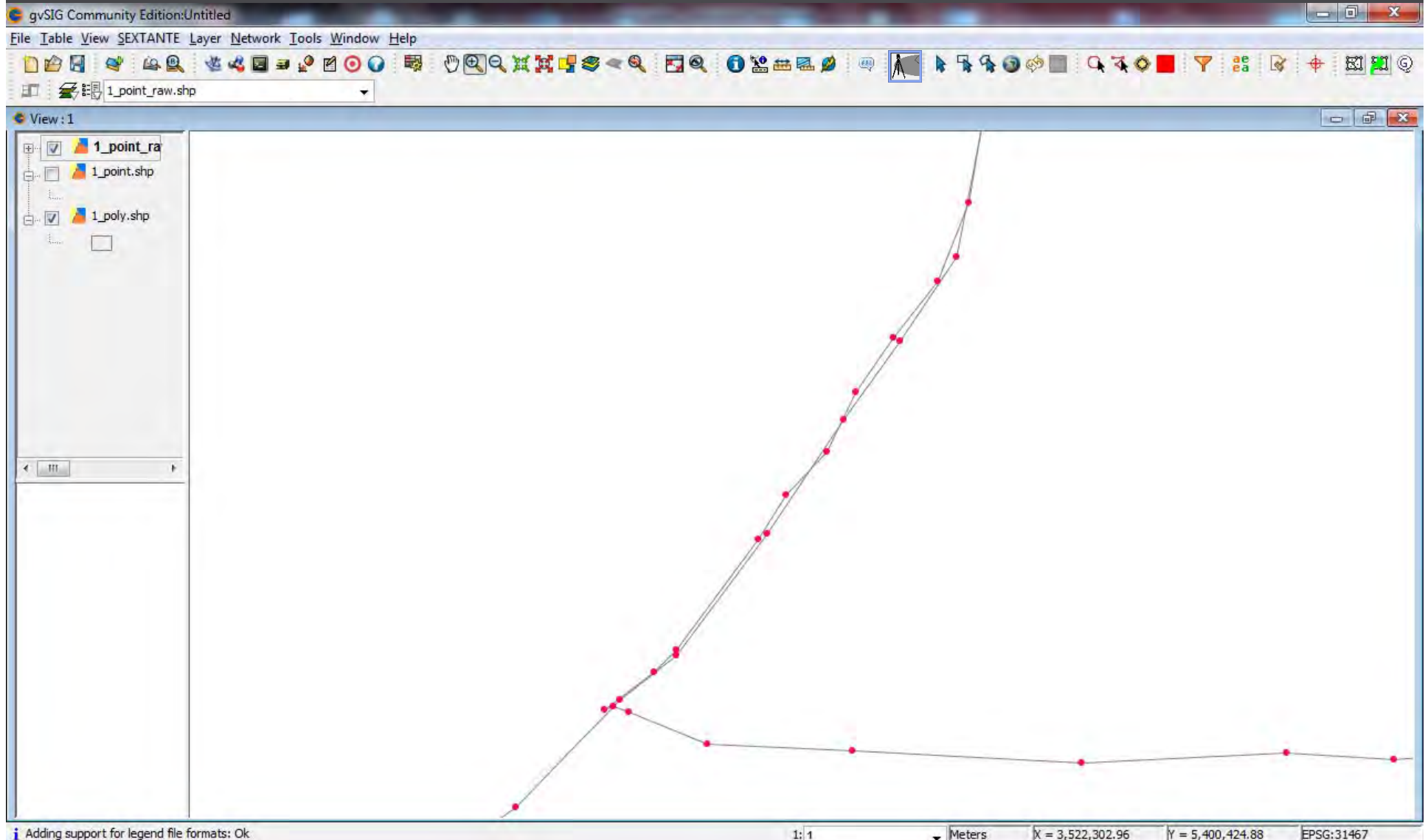
1_point_raw.shp

View:1

- 1_point_ra
- 1_point.shp
- 1_poly.shp

1:1 Meters X = 3,522,303.09 Y = 5,400,424.75 EPSG:31467

Adding support for legend file formats: Ok



Adding support for legend file formats: Ok

1:1

Meters

X = 3,522,302.96

Y = 5,400,424.88

EPSG:31467



survey2gis

File Edit Settings Help

survey2gis

Basic Advanced

Coord. tolerance: 0.000000

Snapping distance: 0.050000

Coord. X offset: 0.000000

Coord. Y offset: 0.000000

Coord. Z offset: 0.000000

DBF decimal places: 3

Decimal point: .

Decimal group: ,

Execute Restore Clear

Messages

This is: survey2gis 1.0
Fill in options on the left, then click "Execute".
Messages, errors and warnings will appear in this area.



gvSIG Community Edition:Untitled

File Table View SEXTANTE Layer Network Tools Window Help

1_point_raw.shp

View:1

- 1_point_ra
- 1_poly.shp

1:6 Meters X = 3,522,303.96 Y = 5,400,425.53 EPSG:31467

Adding support for legend file formats: Ok

The screenshot shows the gvSIG Community Edition interface. The main map area displays two overlapping polygons. The left sidebar shows a legend with two layers: '1_point_ra' and '1_poly.shp'. The bottom status bar indicates the current scale is 1:6, the units are Meters, and the coordinates are X = 3,522,303.96 and Y = 5,400,425.53, with the projection set to EPSG:31467. A message box at the bottom left says 'Adding support for legend file formats: Ok'.



gvSIG Community Edition:Untitled

File Table View SEXTANTE Layer Network Tools Window Help

1_point_raw.shp

View:1

- 1_point_ra
- 1_poly.shp

1:6 Meters X = 3,522,303.96 Y = 5,400,425.53 EPSG:31467

Adding support for legend file formats: Ok

The screenshot shows the gvSIG Community Edition interface. The main map area displays two overlapping polygons. A red rectangle highlights the intersection of these two polygons. The interface includes a menu bar, a toolbar, a layer list on the left, and a status bar at the bottom.



gvSIG Community Edition:Untitled

File Table View SEXTANTE Layer Network Tools Window Help

1_point_raw.shp

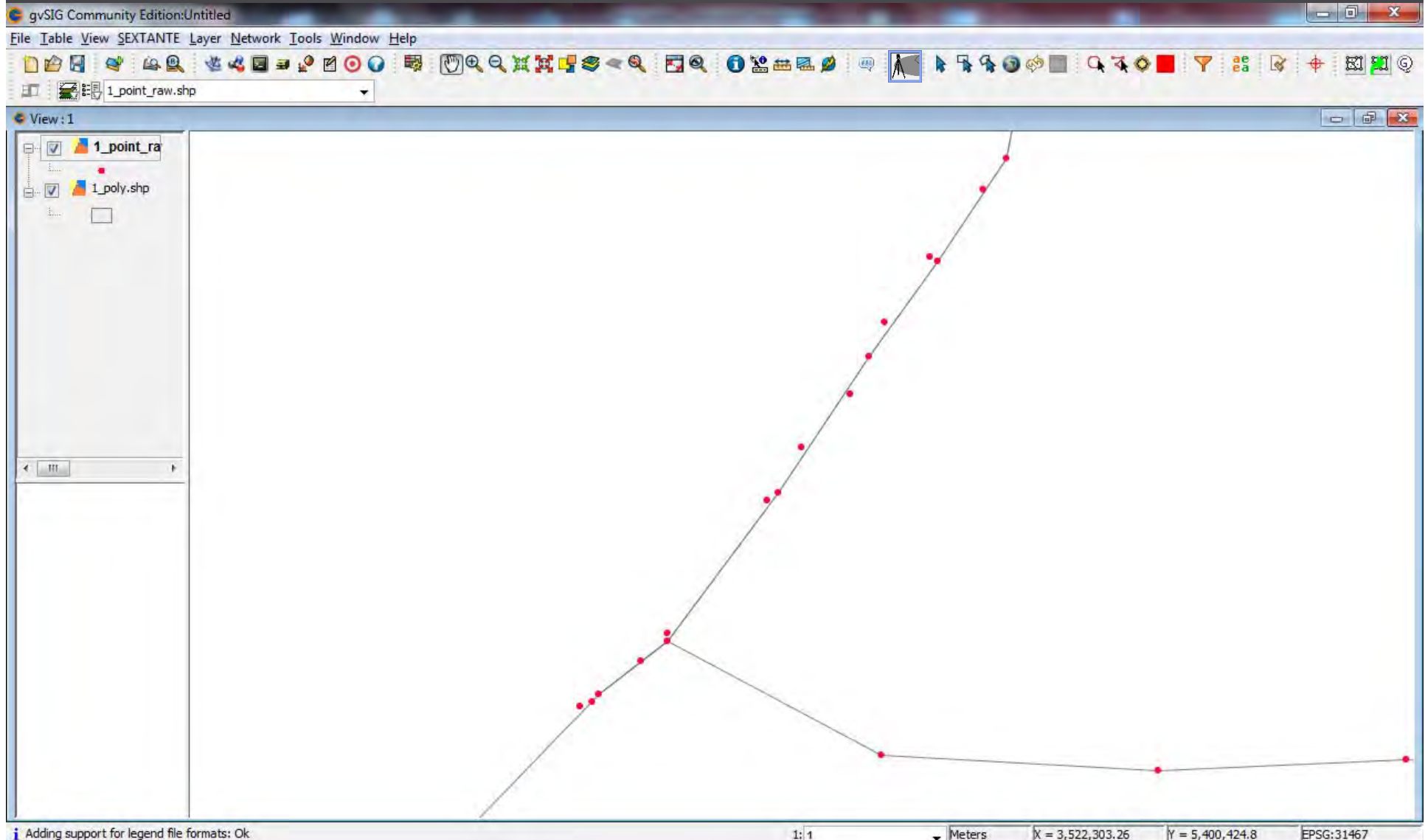
View:1

- 1_point_ra
- 1_poly.shp

1:1 Meters X = 3,522,302.97 Y = 5,400,424.88 EPSG:31467

Adding support for legend file formats: Ok

The screenshot shows the gvSIG Community Edition software interface. The main window displays a map view with a single polygon boundary. The left sidebar shows a layer list with '1_poly.shp' selected. The bottom status bar provides coordinate information (X=3,522,302.97, Y=5,400,424.88) and the EPSG:31467 projection. A message box at the bottom left indicates 'Adding support for legend file formats: Ok'.





gvSIG Community Edition:Untitled

File Table SEXTANTE View Tools Window Help

View : 2

2_poly.shp

Application started. Meters X = 5.86 Y = 2.38 EPSG:31467



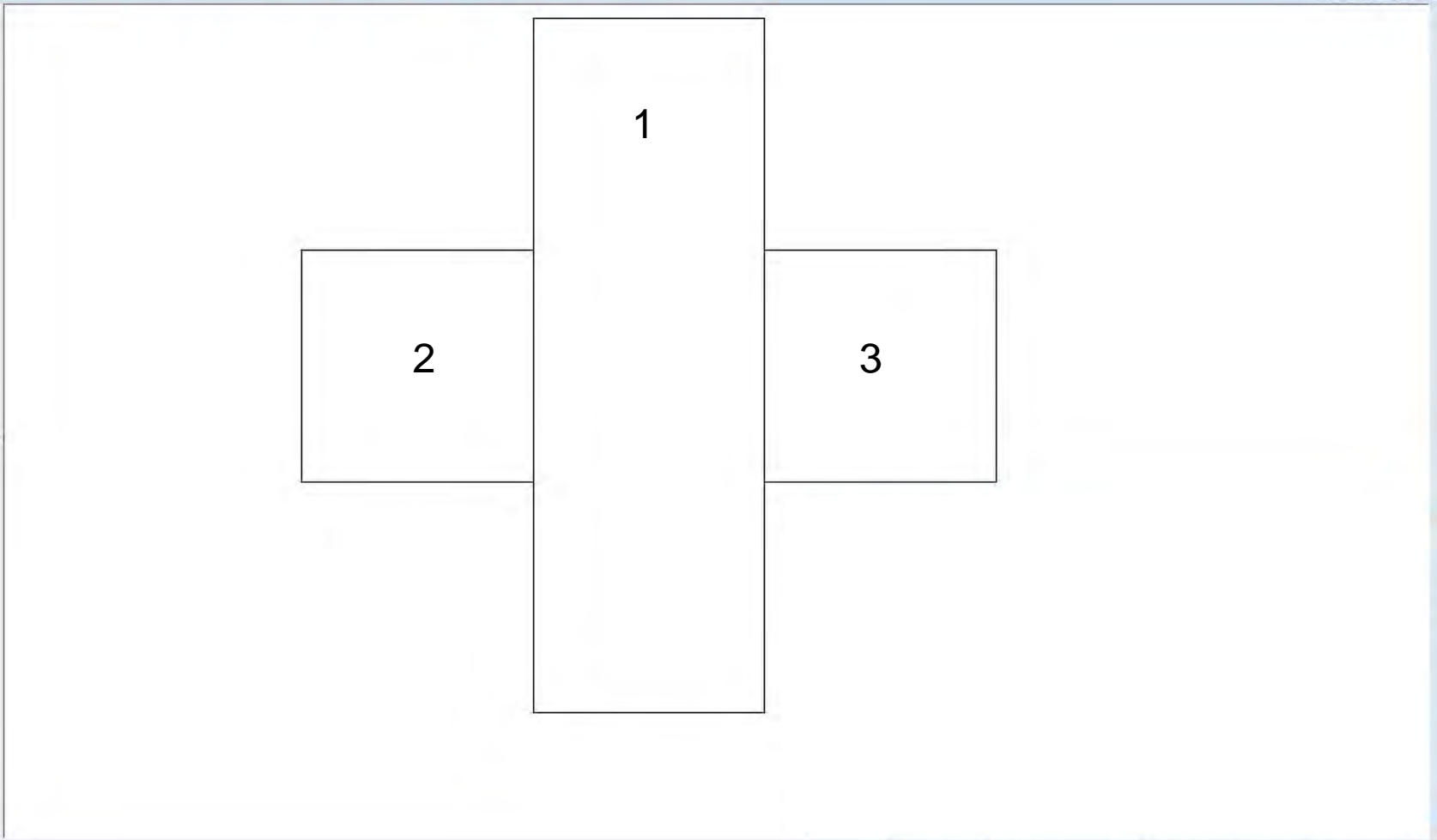
gvSIG Community Edition:Untitled

File Table SEXTANTE View Tools Window Help



View : 2

2_poly.shp



Application started.

Meters

X = 5.86

Y = 2.38

EPSG:31467



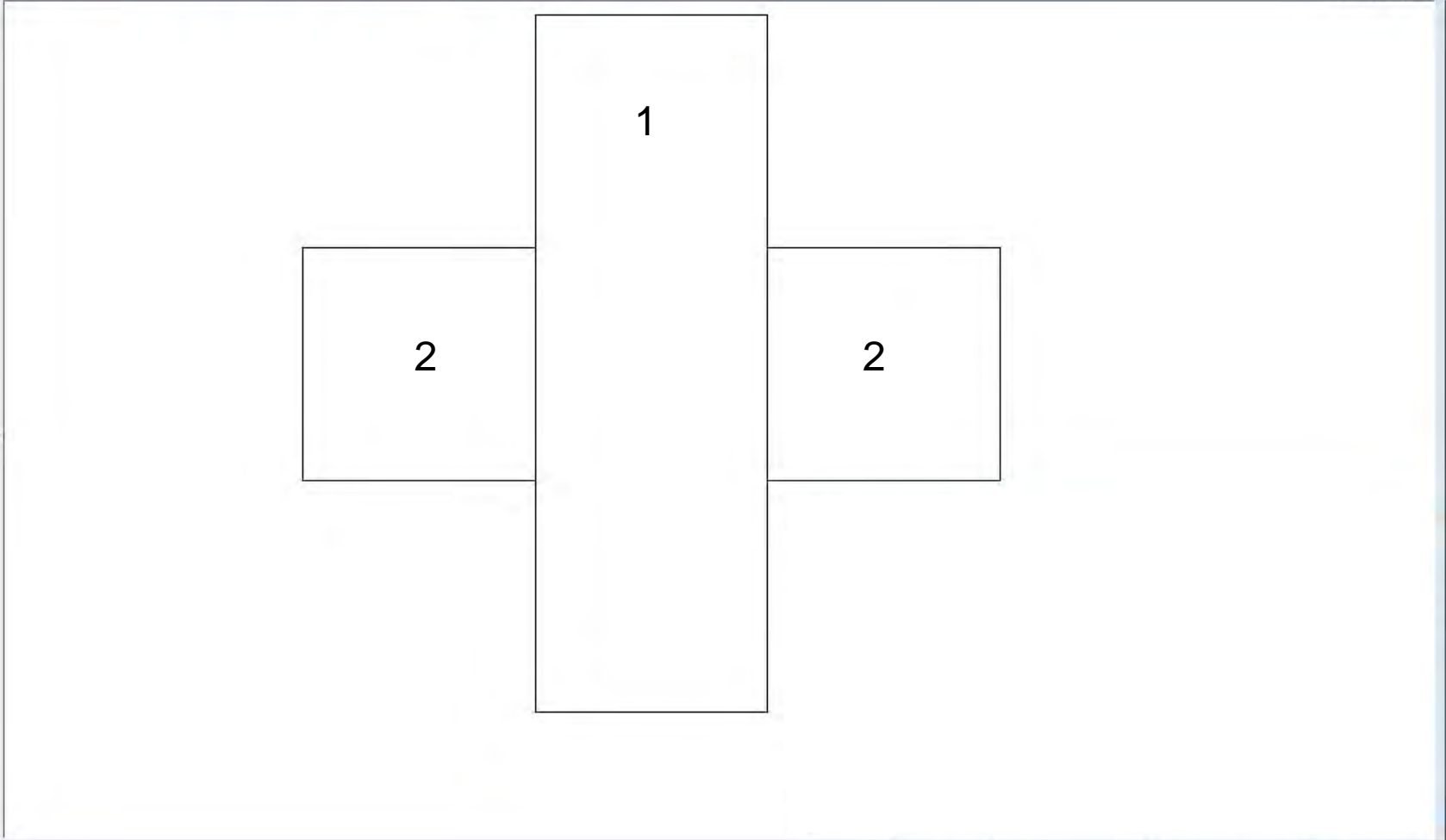
gvSIG Community Edition:Untitled

File Table SEXTANTE View Tools Window Help



View : 2

2_poly.shp



Application started.

Meters

X = 5.86

Y = 2.38

EPSG:31467

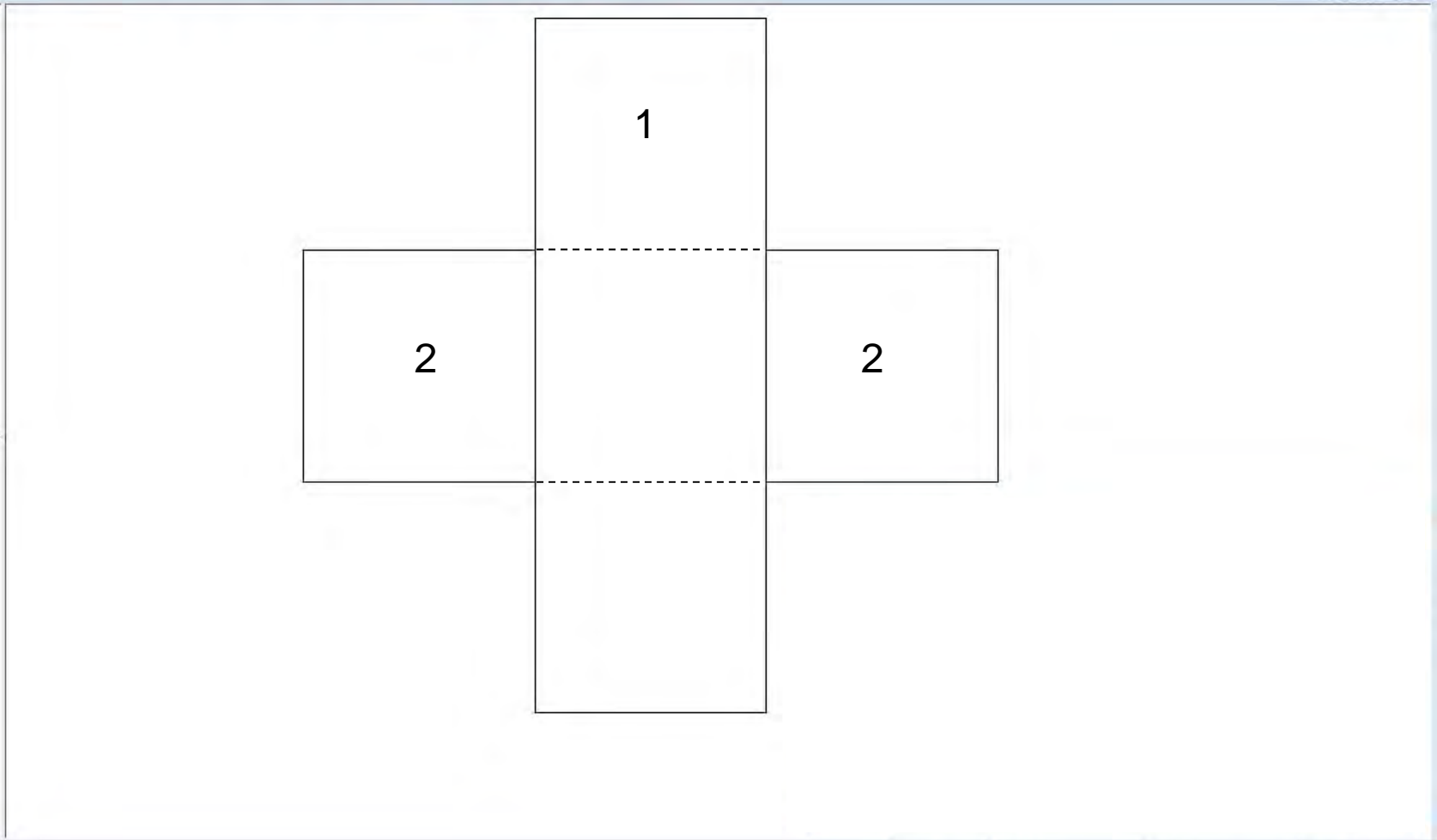
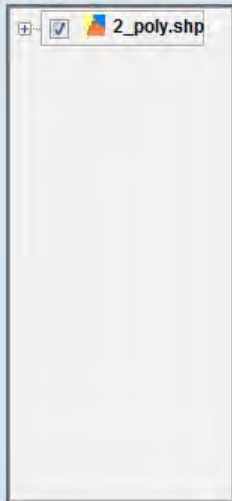


gvSIG Community Edition:Untitled

File Table SEXTANTE View Tools Window Help



View : 2



Application started.

Meters

X = 5.86

Y = 2.38

EPSG:31467



gvSIG Community Edition:Untitled

File Table SEXTANTE View Tools Window Help

View: 2

2_poly.shp

AGAG_Planum_Bef_disjunkt.txt...

```
#
# Parser for AGAG format survey files
#

[Parser]
name = Survey2GIS compatible parser
tagging_mode = end
tag_field = ZUSATZ
key_field = NUMMER
key_unique = yes
tag_strict = no
no_data = -1
geom_tag_line = "$"
geom_tag_poly = "@"
coor_x = COORX
coor_y = COORY
coor_z = COORZ
```

Meters | X = 5.86 | Y = 2.38 | EPSG:31467

The screenshot shows the gvSIG software interface. The main map area displays three polygons: a central vertical rectangle labeled '1', and two horizontal rectangles labeled '2' positioned to the left and right of the central one. A dashed horizontal line is drawn across the middle of the central rectangle. A text editor window is open in the foreground, displaying the configuration for an AGAG parser. The configuration includes fields for name, tagging mode, tag field, key field, key uniqueness, tag strictness, no data value, and coordinate fields. The status bar at the bottom indicates the current units are meters, with X and Y coordinates and the EPSG projection code.



gvSIG Community Edition:Untitled

File Table SEXTANTE View Tools Window Help

View: 2

2_poly.shp

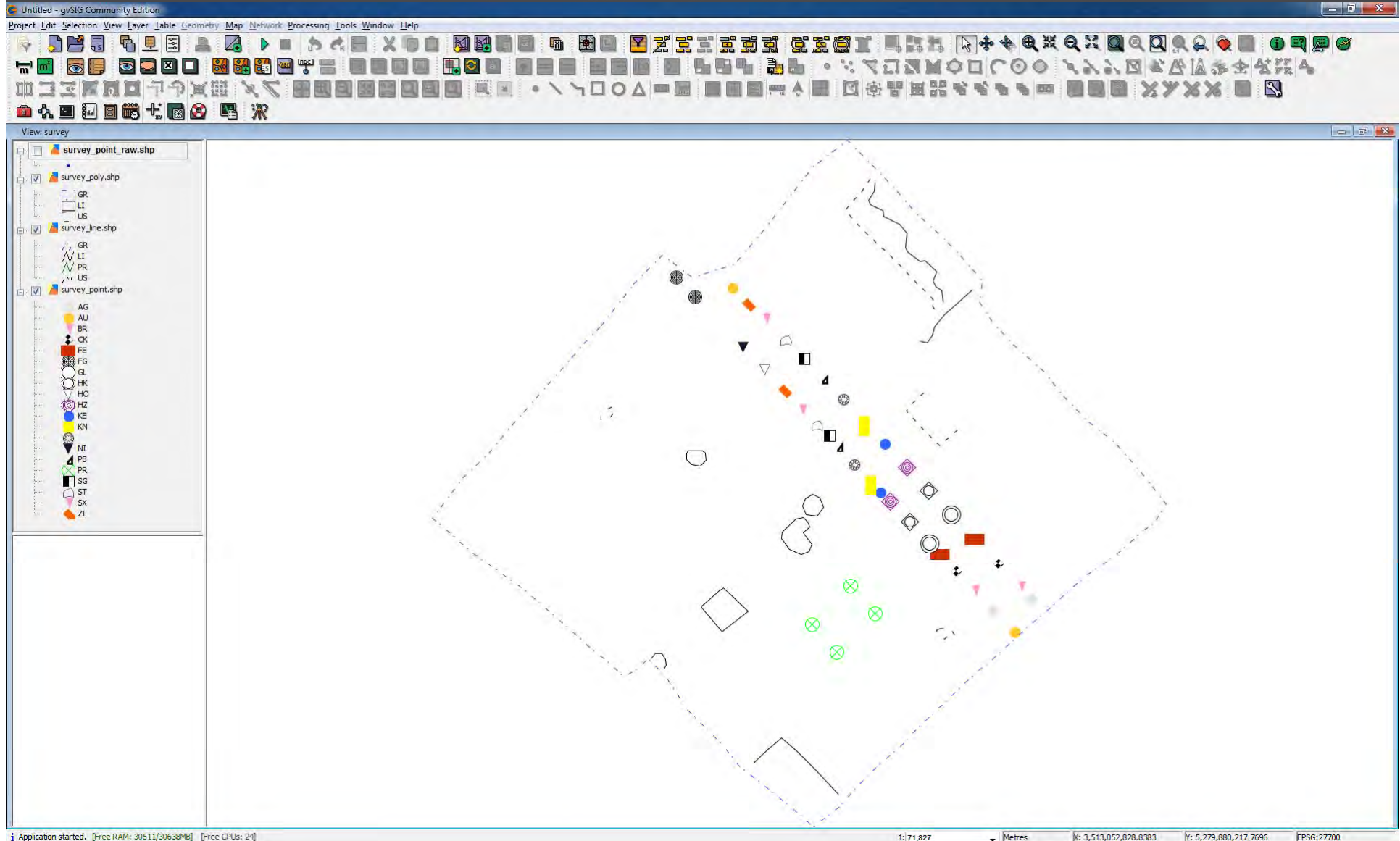
- Default
- GR
- LI
- US

Table: Attribute table: 2_poly.shp

GEOM_ID	IDX	PLANUM	TYP	ZUSATZ	NUMMER
0	5	1	LI	C	2
1	1	1	LI	C	1

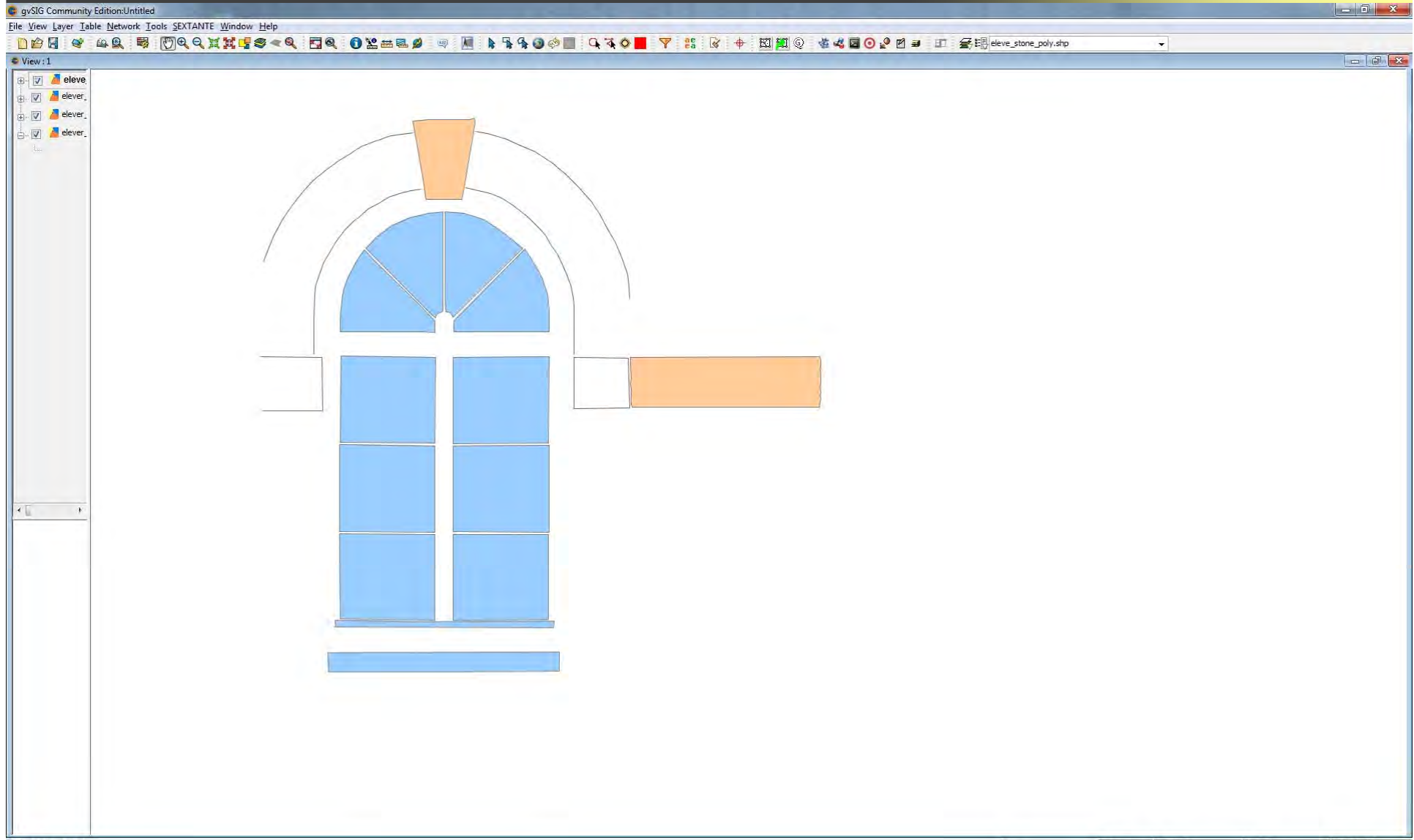
1 / 2 Total records selected.

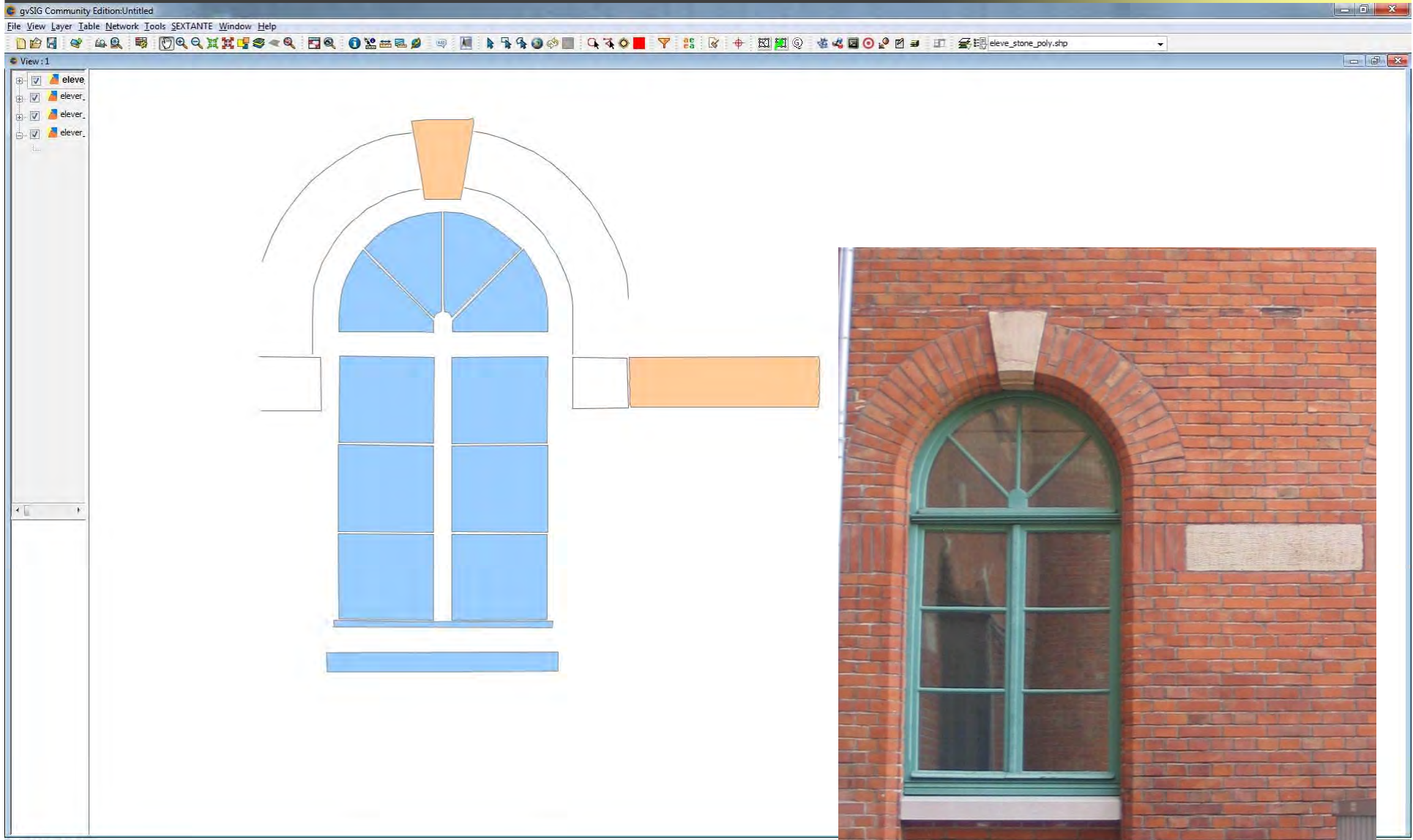
Application started. Meters X = 1.34 Y = 1.96 EPSG:31467





Profile und Ansichten mit Survey2GIS







The screenshot displays the gvSIG Community Edition interface. The main window shows a 3D model of a window with a blue frame and an orange arch. Overlaid on this is the 'survey2gis' tool window, which has a menu bar (Process, Edit, Settings, Help) and a 'Messages' pane on the right. The 'Messages' pane contains the following text:

```
This is survey2gis 1.1.1.  
Fill in options on the left, then click "Run".  
Messages, errors and warnings will appear in this area.  
---
```

The 'survey2gis' tool has two tabs: 'Basic' and 'Advanced'. The 'Basic' tab is active and contains the following settings:

- Coord. tolerance: 0.000000
- Snapping distance: 0.000000
- Coord. X offset: 0.000000
- Coord. Y offset: 320.15
- Coord. Z offset: 0.000000
- DBF decimal places: 3
- Decimal point: .
- Decimal group: ,

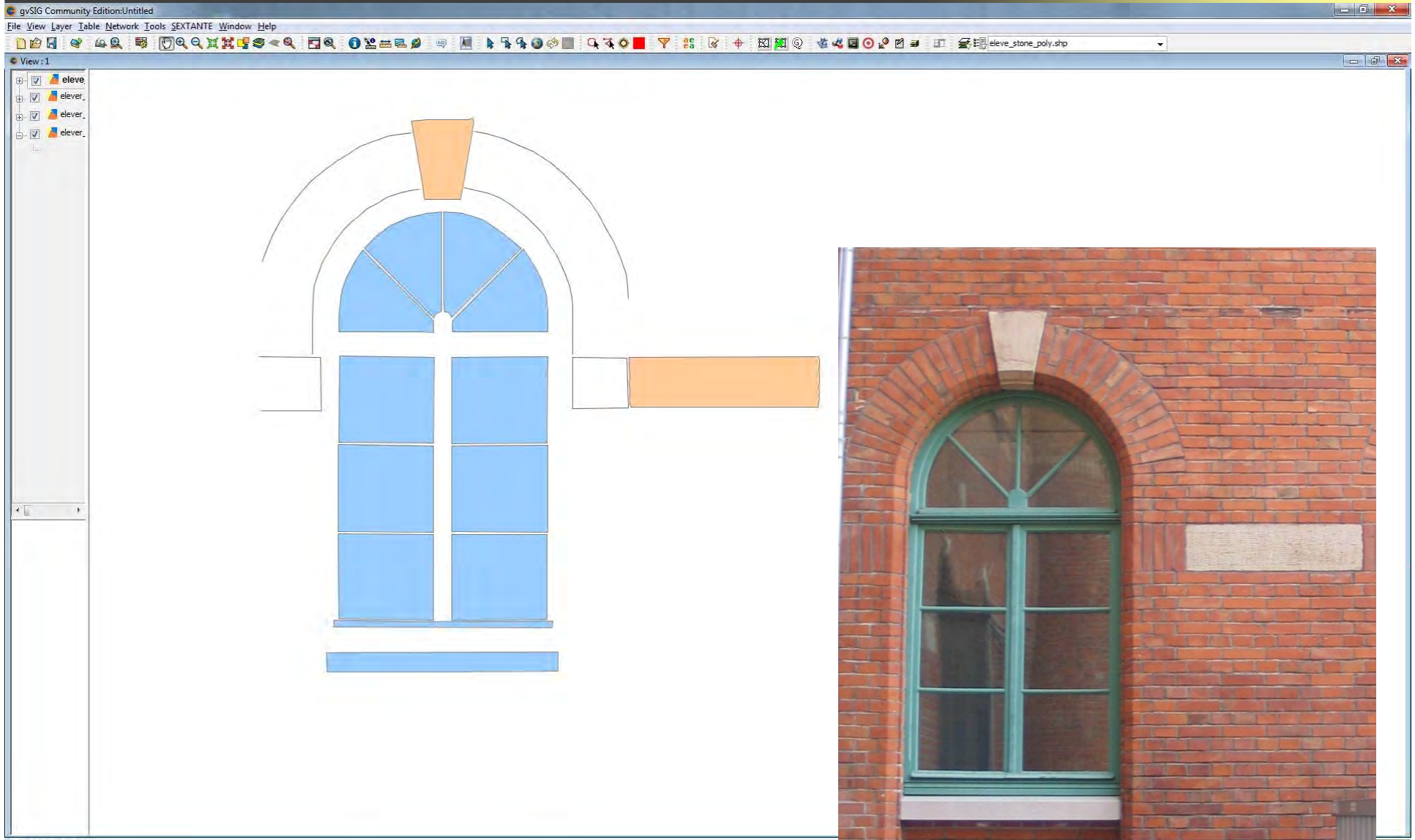
At the bottom of the 'survey2gis' window are buttons for 'Run', 'Default', and 'Clear', and a status bar that says 'Ready.'.

In the bottom-left corner, the 'P_Profil - Editor' window is open, showing a text editor with the following content:

```
#  
# Parser for AGAG format survey files - Profil  
#  
[Parser]  
name = Survey2GIS compatible parser  
tagging_mode = end  
tag_field = ZUSATZ  
key_field = NUMMER  
tag_strict = No  
no_data = -1  
geom_tag_line = "$"  
geom_tag_poly = "@"  
coord_x = COORX  
coord_y = COORY  
coord_z = COORZ
```

Application started.







CAD



survey2gis

Process Edit Settings Help

Messages
This is survey2gis 1.1.0.

File selection

List of input files
D:\D\PROJECTS\Projects 2011\AGAG\GT130228\TESTDATEN\TESTAGAG.dat

248	1_US_C_12	X	3513045.299	Y	5279878.865	Z	399.448
249	1_US_C_12	X	3513045.114	Y	5279878.657	Z	399.537
250	1_US_C_12	X	3513045.575	Y	5279878.151	Z	399.530
251	1_US_C_12	X	3513045.989	Y	5279877.742	Z	399.546
252	1_US_C_12	X	3513046.214	Y	5279877.924	Z	399.523
253	1_US_C_12	X	3513046.494	Y	5279878.184	Z	399.390
254	1_US_S_12	X	3513046.497	Y	5279878.180	Z	399.389
256	1_AU_FZ_0	X	3513040.585	Y	5279881.854	Z	399.102
257	1_AG_FZ_0	X	3513048.410	Y	5279873.696	Z	399.100
258	1_BR_FZ_0	X	3513048.116	Y	5279874.035	Z	399.103
259	1_CK_FZ_0	X	3513047.542	Y	5279874.628	Z	399.103
260	1_FE_FZ_0	X	3513046.908	Y	5279875.294	Z	399.105
261	1_GL_FZ_0	X	3513046.304	Y	5279875.924	Z	399.103
262	1_HK_FZ_0	X	3513045.707	Y	5279876.567	Z	399.099
263	1_HZ_FZ_0	X	3513045.149	Y	5279877.161	Z	399.097
264	1_KE_FZ_0	X	3513044.576	Y	5279877.767	Z	399.097
265	1_KN_FZ_0	X	3513044.019	Y	5279878.369	Z	399.096
266	1_MU_FZ_0	X	3513043.474	Y	5279878.961	Z	399.093
267	1_PB_FZ_0	X	3513042.951	Y	5279879.490	Z	399.095
268	1_SG_FZ_0	X	3513042.446	Y	5279880.020	Z	399.093
269	1_ST_FZ_0	X	3513041.959	Y	5279880.517	Z	399.092
270	1_SX_FZ_0	X	3513041.434	Y	5279881.080	Z	399.099
271	1_ZI_FZ_0	X	3513040.969	Y	5279881.467	Z	399.101
273	1_AU_FZ_110	X	3513047.973	Y	5279872.838	Z	399.400
274	1_AG_FZ_111	X	3513047.409	Y	5279873.409	Z	399.407
275	1_BR_FZ_112	X	3513046.911	Y	5279873.934	Z	399.402

Basic | Advanced

Input: Selected: 1

Parser schema: AGAG_Planum.txt

Output folder: 1

Output name: CAD

Output format: AutoCAD Drawing Exchange Format

Log file:

Raw vertex output:

Force 2D output:

Strict parsing:

Validate only:

Run Default Clear

Ready.

Add Remove Close



Ansichten Ansicht-Manager Welt Opazität 60 Ansichtsfenster-konfiguration Werkzeug- Paletten Eigenschaft- Paletten Plansatz- Manager Benutzer...

Ansichten Koordinaten Visuelle Stile Modellansichtsfenster Paletten

_all.dxf*





Ansichten | _all.dxf* | Aktueller Layer: 0 | Suche nach Layer

S..	Name	E...	Frie...	Sperre	Farbe	Linientyp	Linienstärke	Trans...	Plotstil	P...	F...	Beschreibu
✓	0	☹	☀	🔒	rot	CONTIN...	—	Vorgabe	0	Color_1	🖨	⚙
/	001_RAW_POINTS	☹	☀	🔒	gr...	CONTIN...	—	Vorgabe	0	Color_3	🖨	⚙
/	002_RAW_POINT_COOR...	☹	☀	🔒	rot	CONTIN...	—	Vorgabe	0	Color_1	🖨	⚙
/	003_POINTS	☹	☀	🔒	cy...	CONTIN...	—	Vorgabe	0	Color_4	🖨	⚙
/	004_POINT_IDS	☹	☀	🔒	rot	CONTIN...	—	Vorgabe	0	Color_1	🖨	⚙
/	005_LINES	☹	☀	🔒	bl...	CONTIN...	—	Vorgabe	0	Color_5	🖨	⚙
/	006_LINE_IDS	☹	☀	🔒	rot	CONTIN...	—	Vorgabe	0	Color_1	🖨	⚙
/	007_AREAS	☹	☀	🔒	m...	CONTIN...	—	Vorgabe	0	Color_6	🖨	⚙
/	008_AREA_IDS	☹	☀	🔒	rot	CONTIN...	—	Vorgabe	0	Color_1	🖨	⚙
/	009_IDX	☹	☀	🔒	w...	CONTIN...	—	Vorgabe	0	Color_7	🖨	⚙
/	010_PLANUM	☹	☀	🔒	8	CONTIN...	—	Vorgabe	0	Color_8	🖨	⚙
/	011_TYP	☹	☀	🔒	9	CONTIN...	—	Vorgabe	0	Color_9	🖨	⚙
/	012_ZUSATZ	☹	☀	🔒	10	CONTIN...	—	Vorgabe	0	Color_...	🖨	⚙
/	013_NUMMER	☹	☀	🔒	11	CONTIN...	—	Vorgabe	0	Color_...	🖨	⚙
/	014_XLABEL	☹	☀	🔒	12	CONTIN...	—	Vorgabe	0	Color_...	🖨	⚙
/	015_COORX	☹	☀	🔒	13	CONTIN...	—	Vorgabe	0	Color_...	🖨	⚙
/	016_YLABEL	☹	☀	🔒	14	CONTIN...	—	Vorgabe	0	Color_...	🖨	⚙
/	017_COORY	☹	☀	🔒	15	CONTIN...	—	Vorgabe	0	Color_...	🖨	⚙
/	018_ZLABEL	☹	☀	🔒	16	CONTIN...	—	Vorgabe	0	Color_...	🖨	⚙
/	019_COORZ	☹	☀	🔒	17	CONTIN...	—	Vorgabe	0	Color_...	🖨	⚙

ALLE: 20 Layer angezeigt von 20 Gesamtlayern

LayerEigenschaften-Manager



Ansichten Anichts- Mana Ansichtsfenster Werkzeug- Eigenschaften Plansatz- Benutzer...

- Ansichten
- Aktueller Layer: 0
- 0
 - 001_RAW_POINTS
 - 002_RAW_POINT_COOR...
 - 003_POINTS
 - 004_POINT_IDS
 - 005_LINES
 - 006_LINE_IDS
 - 007_AREAS
 - 008_AREA_IDS
 - 009_IDX
 - 010_PLANUM
 - 011_TYP
 - 012_ZUSATZ
 - 013_NUMMER
 - 014_XLABEL
 - 015_COORX
 - 016_YLABEL
 - 017_COORY
 - 018_ZLABEL
 - 019_COORZ

Table: Attribute table: survey_point.shp

GEOM_ID	IDX	PLANUM	TYP	ZUSATZ	NUMMER	COORX	COORY	COORZ
22	279	1	HK	FZ	116	3513045.217	5279875.739	399.406
23	280	1	HZ	FZ	117	3513044.701	5279876.277	399.33
24	281	1	KE	FZ	118	3513044.45	5279876.5	399.404
25	282	1	KN	FZ	119	3513044.197	5279876.814	399.392
26	283	1	MU	FZ	120	3513043.759	5279877.249	399.423
27	284	1	PB	FZ	121	3513043.342	5279877.71	399.389
28	285	1	SG	FZ	122	3513043.1	5279878.0	399.375
29	286	1	ST	FZ	123	3513042.773	5279878.287	399.387
30	287	1	SX	FZ	124	3513042.384	5279878.688	399.42
31	288	1	ZI	FZ	125	3513041.917	5279879.207	399.42
32	290	1	FG	P	0	3513039.601	5279881.625	399.375

0 / 41 Total records selected.

				m...	CONTIN...	—	Vorgabe	0	Color_6		
				rot	CONTIN...	—	Vorgabe	0	Color_1		
				w...	CONTIN...	—	Vorgabe	0	Color_7		
				8	CONTIN...	—	Vorgabe	0	Color_8		
				9	CONTIN...	—	Vorgabe	0	Color_9		
				10	CONTIN...	—	Vorgabe	0	Color_...		
				11	CONTIN...	—	Vorgabe	0	Color_...		
				12	CONTIN...	—	Vorgabe	0	Color_...		
				13	CONTIN...	—	Vorgabe	0	Color_...		
				14	CONTIN...	—	Vorgabe	0	Color_...		
				15	CONTIN...	—	Vorgabe	0	Color_...		
				16	CONTIN...	—	Vorgabe	0	Color_...		
				17	CONTIN...	—	Vorgabe	0	Color_...		

LayerEigenschaften-Manager

ALLE: 20 Layer angezeigt von 20 Gesamtlayern



Ansichten Ansehungs- Mana Ansichtsfenster- Werkzeug- Eigenschaften Plansatz- Benutzer...

Ansichten

all.dxf*

Aktueller Layer: 0

Suche nach Layer

S..	Name	E...	Frie...	Sperre	Farbe	Linientyp	Linienstärke	Trans...	Plotstil	P...	F...	Beschreibu
✓	0	☹	☀	🔒	rot	CONTIN...	Vorgabe	0	Color_1	🖨	⚙	
/	001_RAW_POINTS	☹	☀	🔒	gr...	CONTIN...	Vorgabe	0	Color_3	🖨	⚙	
/	002_RAW_POINT_COOR...	☹	☀	🔒	rot	CONTIN...	Vorgabe	0	Color_1	🖨	⚙	
/	003_POINTS	☹	☀	🔒	cy...	CONTIN...	Vorgabe	0	Color_4	🖨	⚙	
/	004_POINT_IDS	☹	☀	🔒	rot	CONTIN...	Vorgabe	0	Color_1	🖨	⚙	
/	005_LINES	☹	☀	🔒	bl...	CONTIN...	Vorgabe	0	Color_5	🖨	⚙	
/	006_LINE_IDS	☹	☀	🔒	rot	CONTIN...	Vorgabe	0	Color_1	🖨	⚙	
/	007_AREAS	☹	☀	🔒	m...	CONTIN...	Vorgabe	0	Color_6	🖨	⚙	
/	008_AREA_IDS	☹	☀	🔒	rot	CONTIN...	Vorgabe	0	Color_1	🖨	⚙	
/	009_IDX	☹	☀	🔒	w...	CONTIN...	Vorgabe	0	Color_7	🖨	⚙	
/	010_PLANUM	☹	☀	🔒	8	CONTIN...	Vorgabe	0	Color_8	🖨	⚙	
/	011_TYP	☹	☀	🔒	9	CONTIN...	Vorgabe	0	Color_9	🖨	⚙	
/	012_ZUSATZ	☹	☀	🔒	10	CONTIN...	Vorgabe	0	Color_...	🖨	⚙	
/	013_NUMMER	☹	☀	🔒	11	CONTIN...	Vorgabe	0	Color_...	🖨	⚙	
/	014_XLABEL	☹	☀	🔒	12	CONTIN...	Vorgabe	0	Color_...	🖨	⚙	
/	015_COORX	☹	☀	🔒	13	CONTIN...	Vorgabe	0	Color_...	🖨	⚙	
/	016_YLABEL	☹	☀	🔒	14	CONTIN...	Vorgabe	0	Color_...	🖨	⚙	
/	017_COORY	☹	☀	🔒	15	CONTIN...	Vorgabe	0	Color_...	🖨	⚙	
/	018_ZLABEL	☹	☀	🔒	16	CONTIN...	Vorgabe	0	Color_...	🖨	⚙	
/	019_COORZ	☹	☀	🔒	17	CONTIN...	Vorgabe	0	Color_...	🖨	⚙	

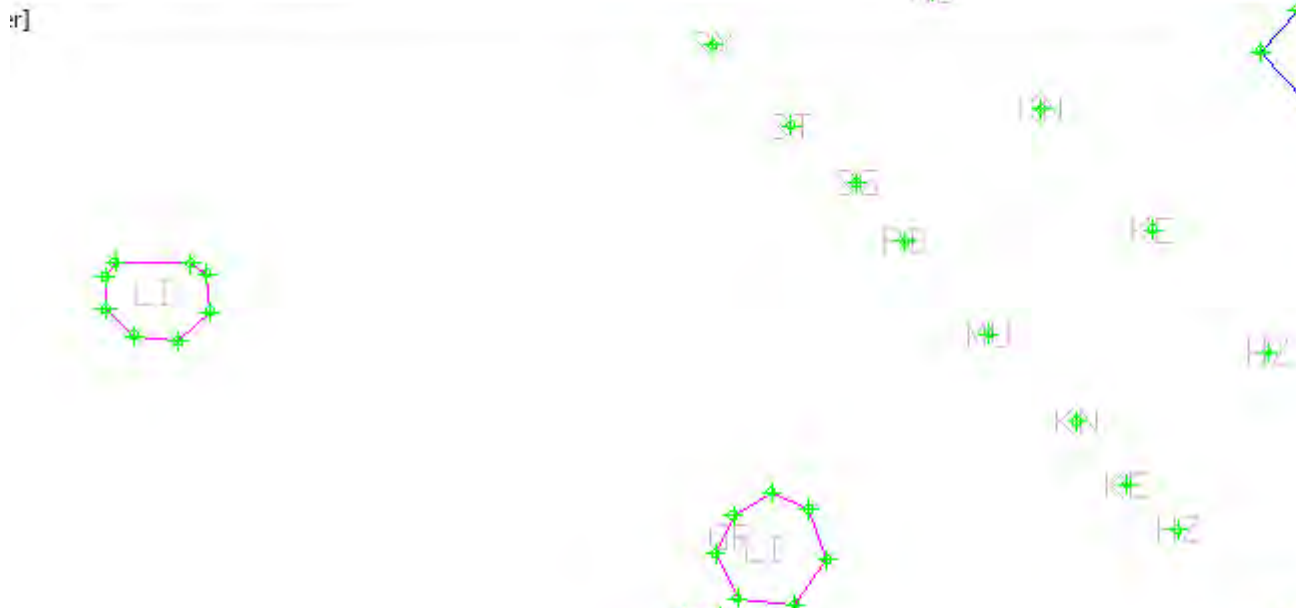
ALLE: 20 Layer angezeigt von 20 Gesamtlayers

LayerEigenschaften-Manager

1:1



Software interface showing a toolbar with various tools like 'Bogen', 'Text', 'Einfügen', 'Layer', 'Beschriftung', 'Block', 'Eigenschaften', and 'Gruppen'. The current layer is '1_all.dxf*'.



TESTAGAG.dat - Editor

Datei	Bearbeiten	Format	Ansicht	?
280	1_HZ_FZ_117		X	3
281	1_KE_FZ_118		X	3
282	1_KN_FZ_119		X	3
283	1_MU_FZ_120		X	3
284	1_PB_FZ_121		X	3
285	1_SG_FZ_122		X	3
286	1_ST_FZ_123		X	3
287	1_SX_FZ_124		X	3
288	1_ZI_FZ_125		X	3
290	1_FG_P_0		X	3
291	1_FG_P_0		X	3
294	1_HO_P_0		X	3

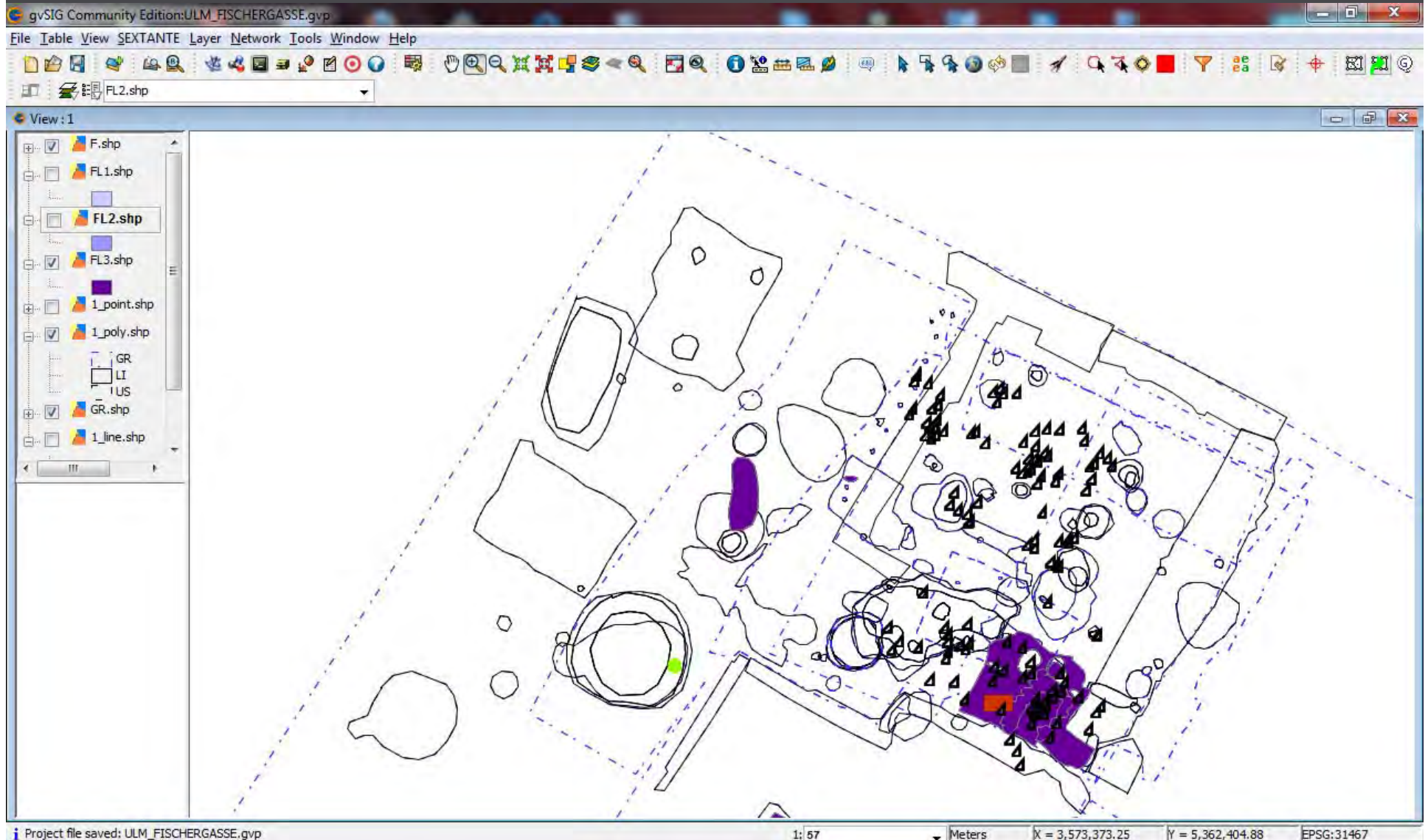
Table: Attribute table: survey_point.shp

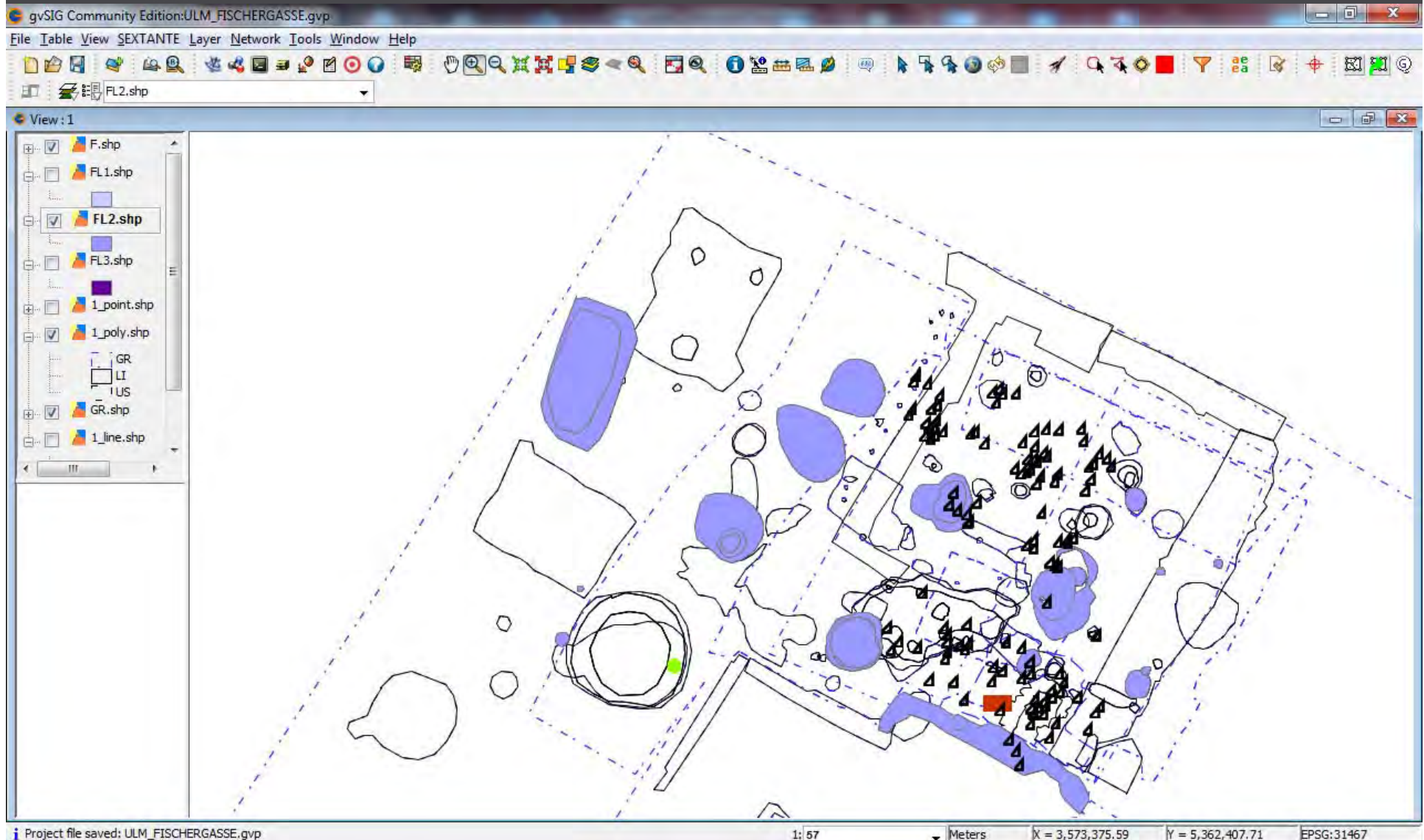
GEOM_ID	IDX	PLANUM	TYP	ZUSATZ	NUMMER	COORX	COORY	COORZ
22	279	1	HK	FZ	116	3513045.217	5279875.739	399.406
23	280	1	HZ	FZ	117	3513044.701	5279876.277	399.33
24	281	1	KE	FZ	118	3513044.45	5279876.5	399.404
25	282	1	KN	FZ	119	3513044.197	5279876.814	399.392
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29	286	1	ST	FZ	123	3513042.773	5279878.287	399.387
30	287	1	SX	FZ	124	3513042.384	5279878.688	399.42
31	288	1	ZI	FZ	125	3513041.917	5279879.207	399.42
32	290	1	FG	P	0	3513039.601	5279881.625	399.375

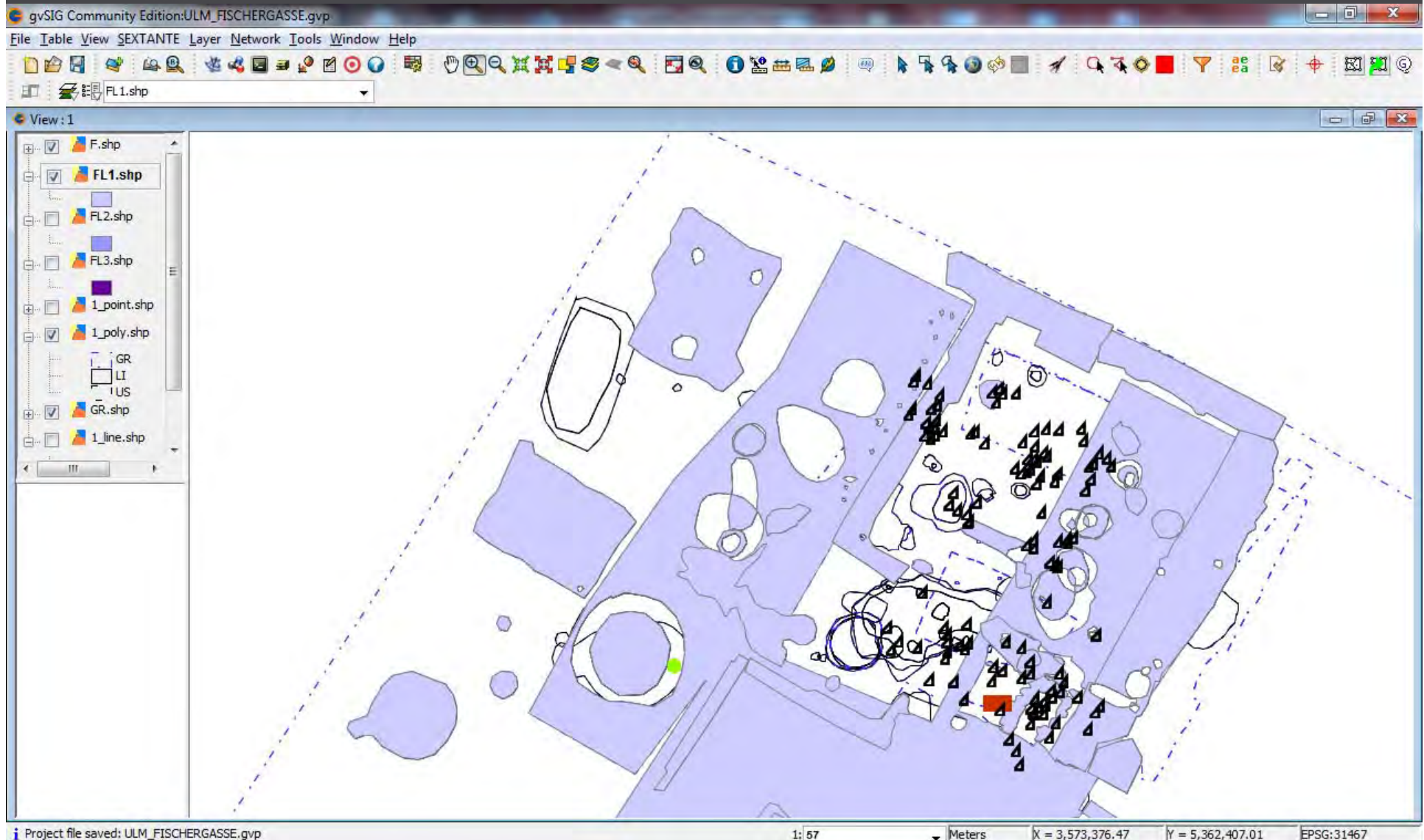
0 / 41 Total records selected.

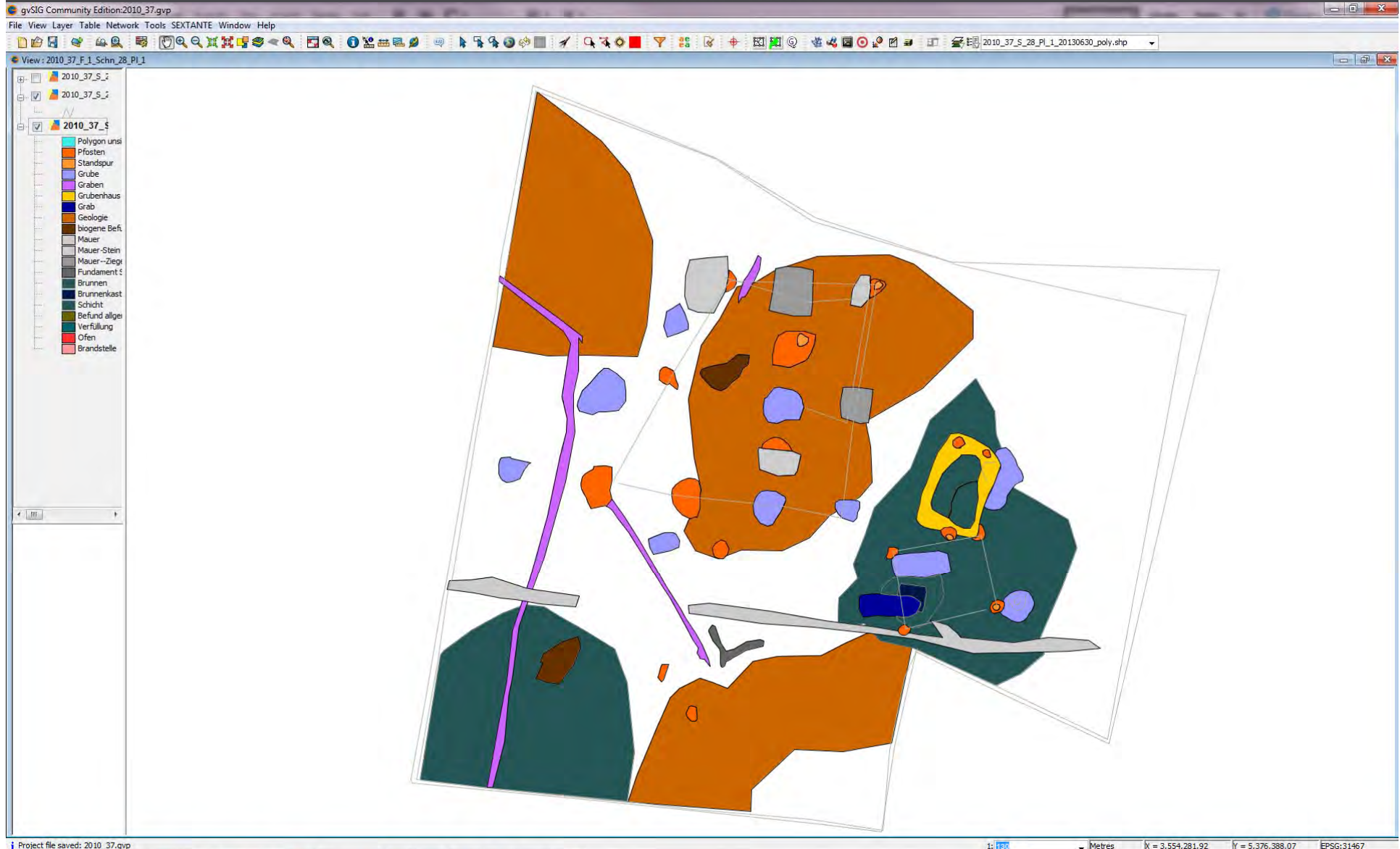
Software interface showing a toolbar with various tools like 'Bogen', 'Text', 'Einfügen', 'Layer', 'Beschriftung', 'Block', 'Eigenschaften', and 'Gruppen'. The current layer is '1_all.dxf*'.

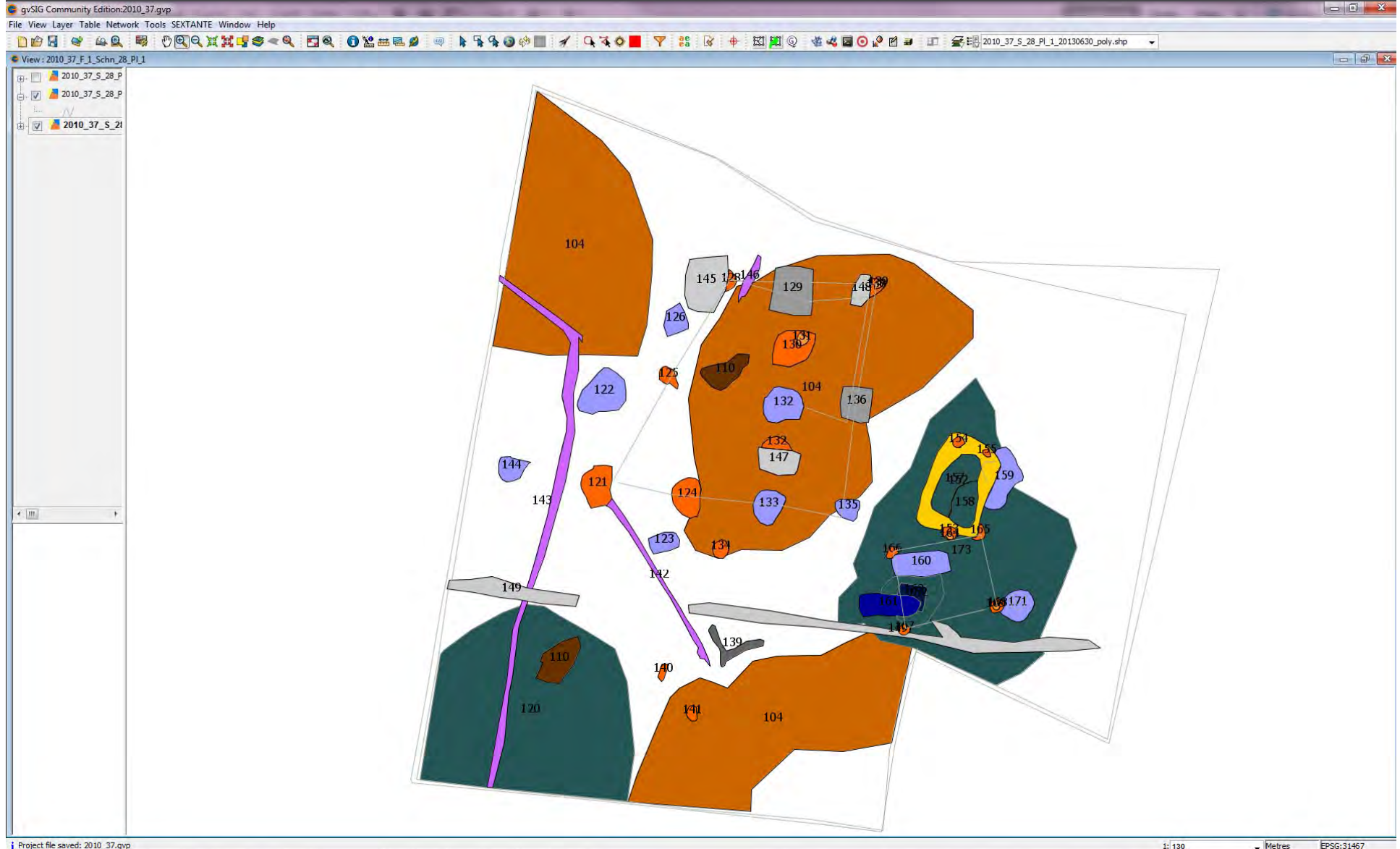
Klicken Sie, um Notizen hinzuzufügen

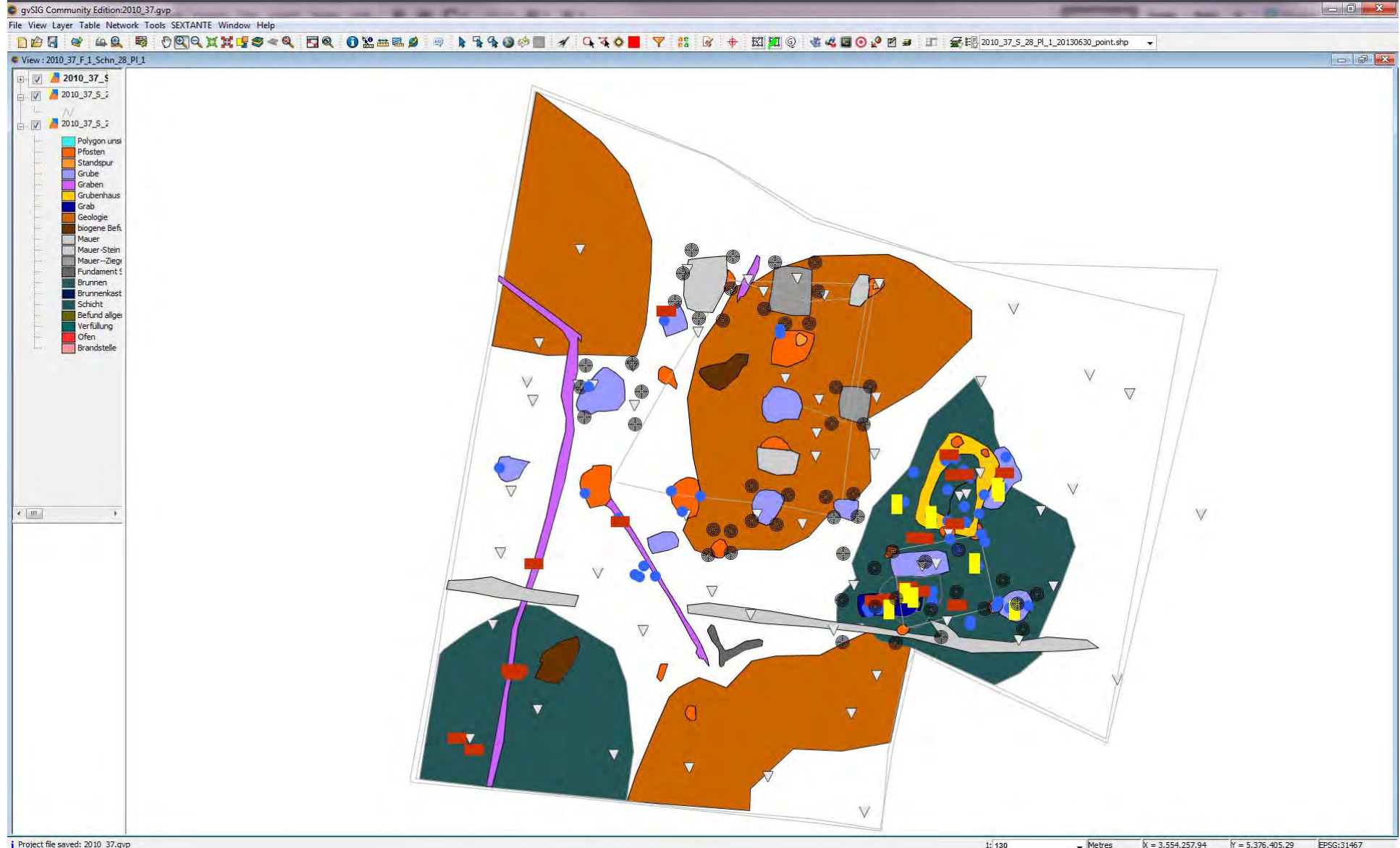


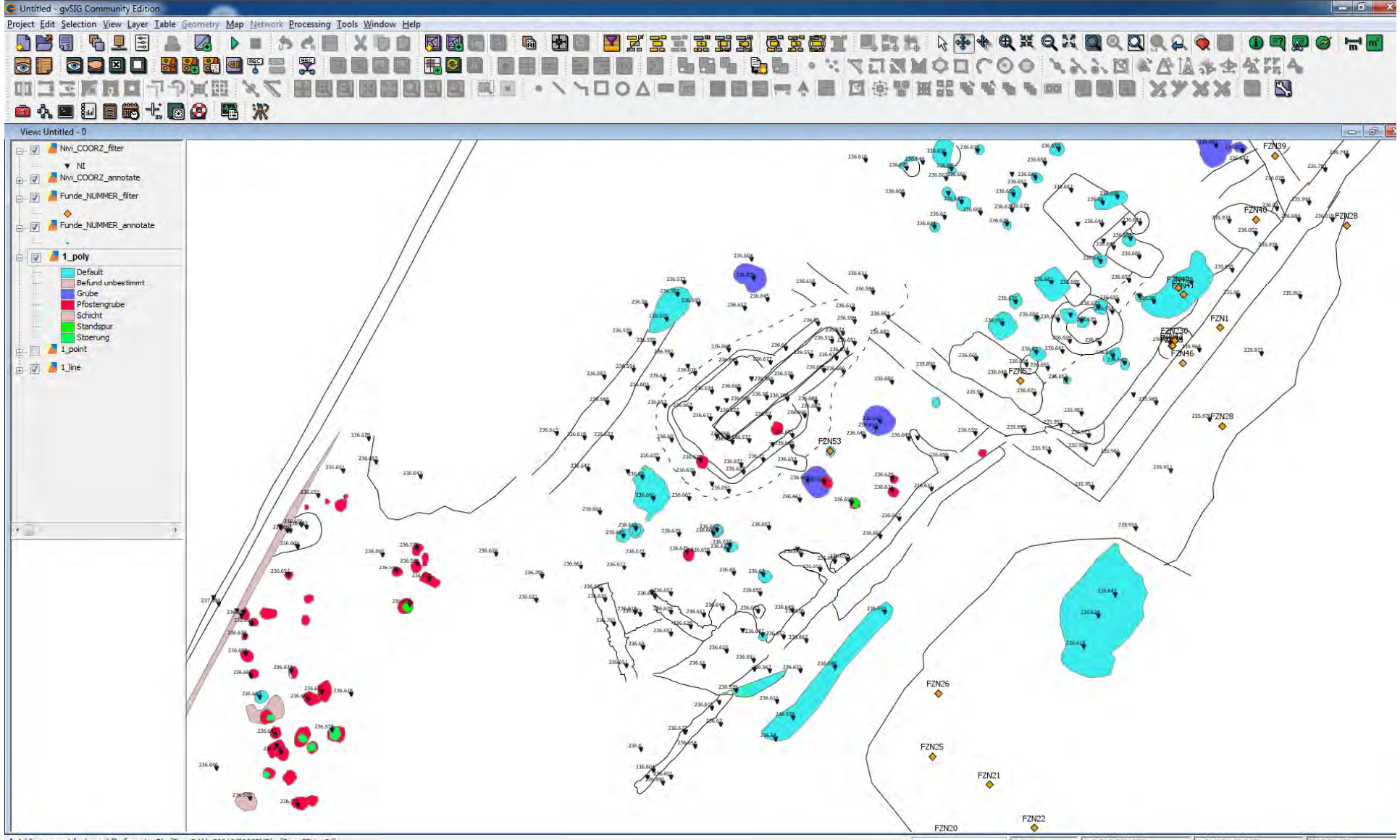


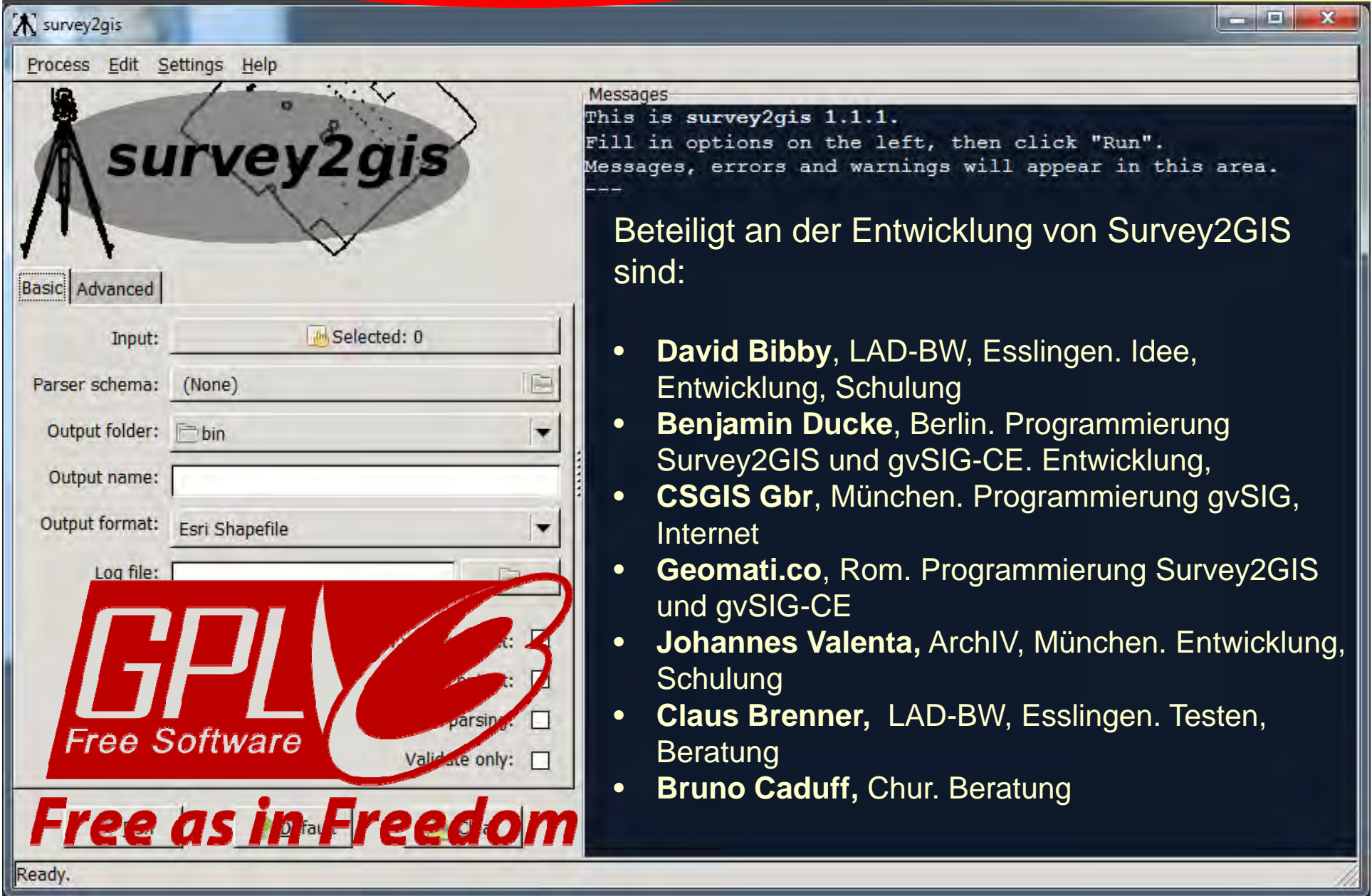












Messages

```
This is survey2gis 1.1.1.  
Fill in options on the left, then click "Run".  
Messages, errors and warnings will appear in this area.  
---
```

Beteiligt an der Entwicklung von Survey2GIS sind:

- **David Bibby**, LAD-BW, Esslingen. Idee, Entwicklung, Schulung
- **Benjamin Ducke**, Berlin. Programmierung Survey2GIS und gvSIG-CE. Entwicklung,
- **CSGIS Gbr**, München. Programmierung gvSIG, Internet
- **Geomati.co**, Rom. Programmierung Survey2GIS und gvSIG-CE
- **Johannes Valenta**, ArchIV, München. Entwicklung, Schulung
- **Claus Brenner**, LAD-BW, Esslingen. Testen, Beratung
- **Bruno Caduff**, Chur. Beratung

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Survey2GIS

<http://www.survey-tools.org>

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