

GvSIG: la georeferenziazione dei piani regolatori e delle mappe catastali della provincia di Trieste

Trasformazione, georeferenziazione e sovrapposizione
dei piani regolatori in formato .pdf.

Trasformazione delle mappe catastali vettoriali
dal sistema di coordinate

3004 GB Est al sistema WGS84 UTM33
(cod. EPSG 32633)

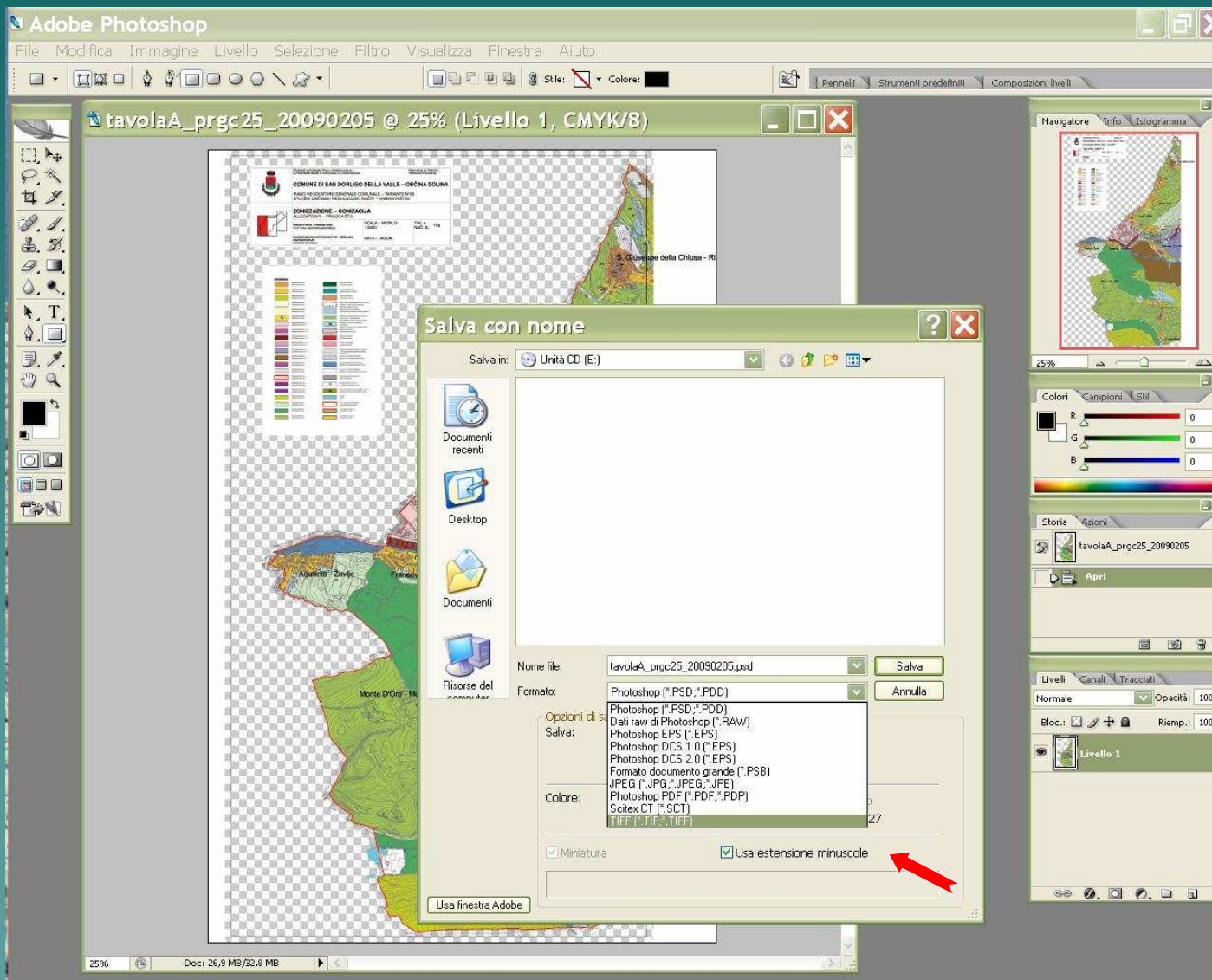
Dal file grafico all'utilizzo in campagna con il palmare.

Relatori:

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M.Ilo Marco Severi - Stazione Forestale di Trieste

Trasformazione file da .pdf in .tif

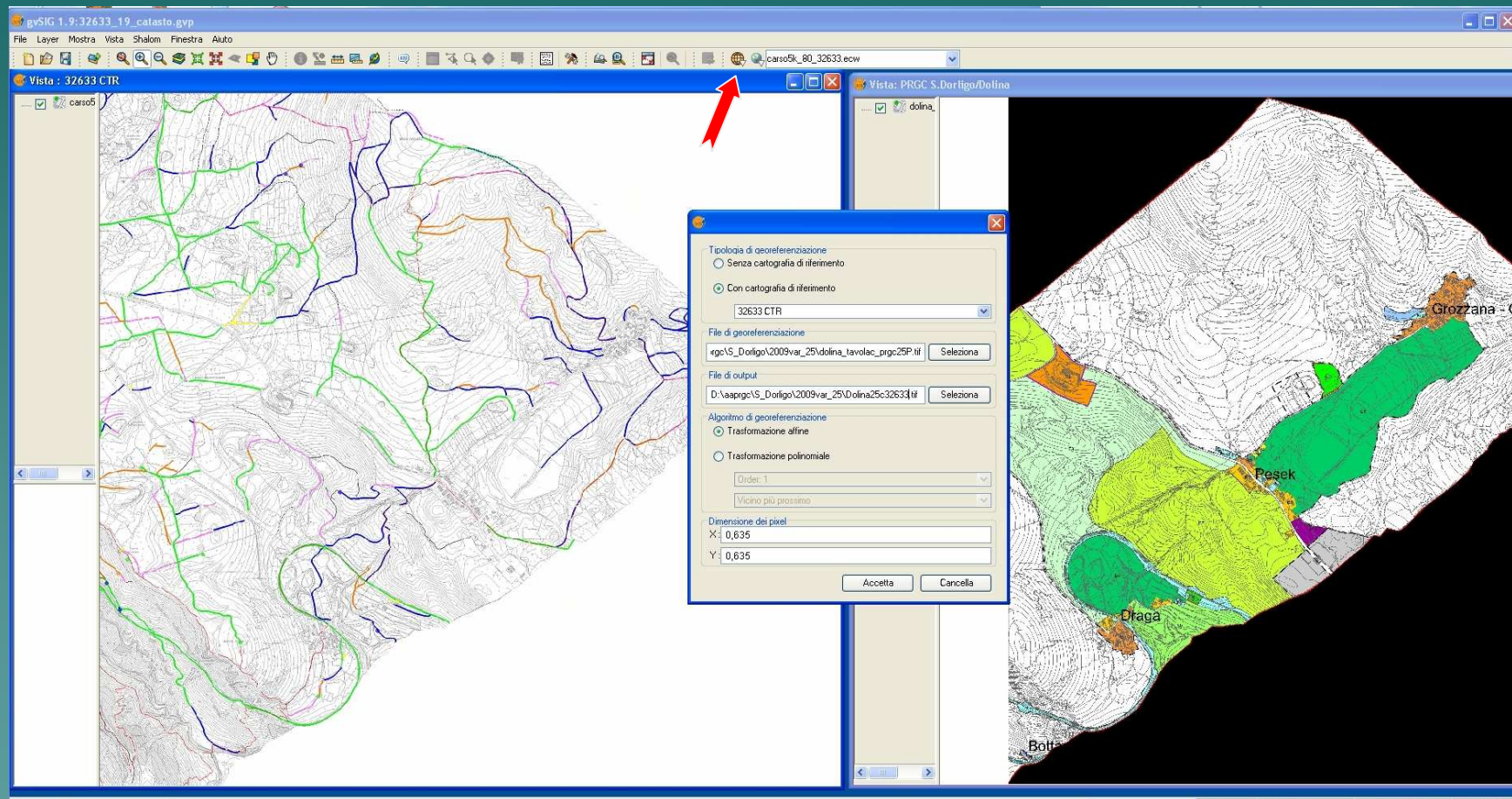


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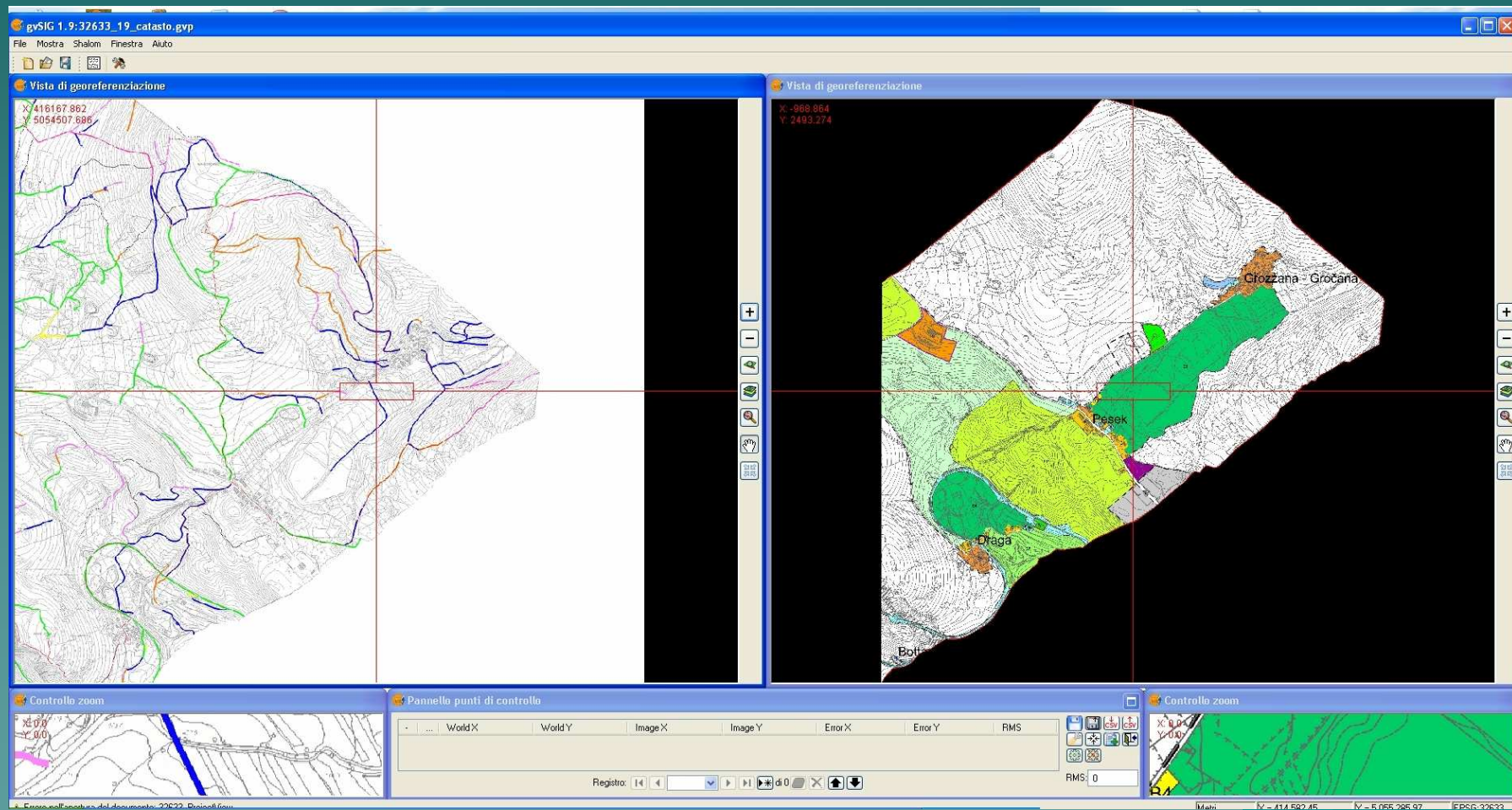
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Georeferenziazione



Vista di georeferenziazione



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Posizionamento punti e pannello punti di controllo

The screenshot displays the gvSIG 1.9.32633_19_catasto.gvp interface. It features two main map windows for georeferencing, a control points panel, and zoom controls. The left map window shows a topographic map with several control points marked with squares and labeled 0, 1, 2, 3, 4. The right map window shows a similar map with a different set of control points and labels: Bot, Draga, Pesek, and Crozzana - Grociana. The control points panel at the bottom center contains a table with the following data:

	World X	World Y	Image X	Image Y	Error X	Error Y	RMS
0	415706.90533859254	5053885.618416246	4399.092592592593	1765.7750342935528	0.02892539664831...	0.02096526895030...	0.22336218...
1	415684.52879538265	5053648.427058222	4396.713991769547	2147.18244170096	0.05150989977297...	0.03921773494166...	0.30121028...
2	414145.02262254315	5055011.3366194024	1548.1968445931414	7.063100132174211	0.1480845503874542	0.126720266376709	0.52378890

Below the table, the 'Registro' (Registration) section shows a value of 6. The RMS value is 0,571. The status bar at the bottom indicates the current coordinates: X = 414.582,45; Y = 5.055.285,97; EPSG:32633.

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Pannello punti di controllo

The screenshot displays the gvSIG 1.9.32633_19_catasto.gvp interface. It features two main georeferencing views: 'Vista di georeferenziazione' on the left and right, showing a topographic map with control points. The 'Pannello punti di controllo' (Control Points Panel) is open in the foreground, displaying a table of control points with columns for World X, World Y, Image X, Image Y, Error X, Error Y, and RMS. A red arrow points to the 'RMS' column header.

	World X	World Y	Image X	Image Y	Error X	Error Y	RMS
0	415706.30533859254	5053885.619416246	4399.092582592593	1765.7750342935528	0.43779059984409...	0.11196591029578...	0.741455669...
1	415684.52879538265	5053648.427058222	4356.713991769647	2147.18244170096	0.5864415477633521	0.15794756066124...	0.862779872...
2	414145.02262254315	5055013.396194024	1948.1968449931414	7.063100137174211	0.6903906279811116	0.24026208736387...	0.964703433...
3	414449.3436101975	5052748.890021184	2414.361454046639	9566.865692729767	0.22159829902015...	0.07308590164903...	0.542811385...
4	412972.4917583456	5054024.352984147	90.60150891632406	1560.9451303155006	1.1050690569599613	0.33061527661137...	1.198200456...
5	413639.31274599995	5052748.890021184	1079.4395281207136	3517.4238683127573	0.00308999576187...	7.84989590808377...	0.056289383...
6	412954.5905237777	5051836.927058221	104.72770919067239	5000.674897119342	0.00156466798130...	0.00513137126276...	0.081829329...

Riposizionamento punti

The screenshot shows the gvSIG 1.9.32633_19_catasto.gvp application window. The main map area is divided into two panes, both titled "Vista di georeferenziazione". The left pane shows a map with a red boundary and a coordinate display: X: 440516.304, Y: 5053711.00. The right pane shows a map of "Grozzana - Gročana" with a green area and a coordinate display: X: 4367468, Y: 5360278. Below the maps is a "Pannello punti di controllo" (Control Points Panel) with a table of data. The table has columns for World X, World Y, Image X, Image Y, Error X, Error Y, and RMS. The table contains 7 rows of data, with the first row being the header and the following 6 rows representing control points. The table is as follows:

	World X	World Y	Image X	Image Y	Error X	Error Y	RMS
0	415716.1604436335	5053885.030790185	4408.916161997353	1772.0901860537554	0.01609148259762...	6.69844961639061...	0.129465545...
1	415687.6138223063	5053835.205471406	4383.730827058861	2185.0753716882014	0.01615868232515	5.55664112389541...	0.129283975...
2	414145.02262254315	5055013.396194024	1948.1968449931414	7.063100137174211	6.09936301575260...	1.1847535667822...	0.026989102...
3	414449.3436101975	5052748.890021184	2414.361454046639	3568.865692729767	7.35452091843890...	2.86415881600270...	0.027171975...
4	412972.4917583456	5054024.352984147	90.60150891632406	1560.9451303195006	0.0140233404906...	2.02887342678564...	0.119276659...
5	413638.6947271875	5052753.535817775	1136.757674867169	3569.4641115723516	0.00202333149349...	1.92421988072454...	0.047071790...
6	412954.5905237777	5051835.927058221	104.72770919067239	5000.674897119342	0.00864630423991...	9.32765246695870...	0.097872720...

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Prova di georeferenziazione

The screenshot displays the gvSIG 1.9.32633_19_calasto.gvp application window. The main interface is divided into several panels:

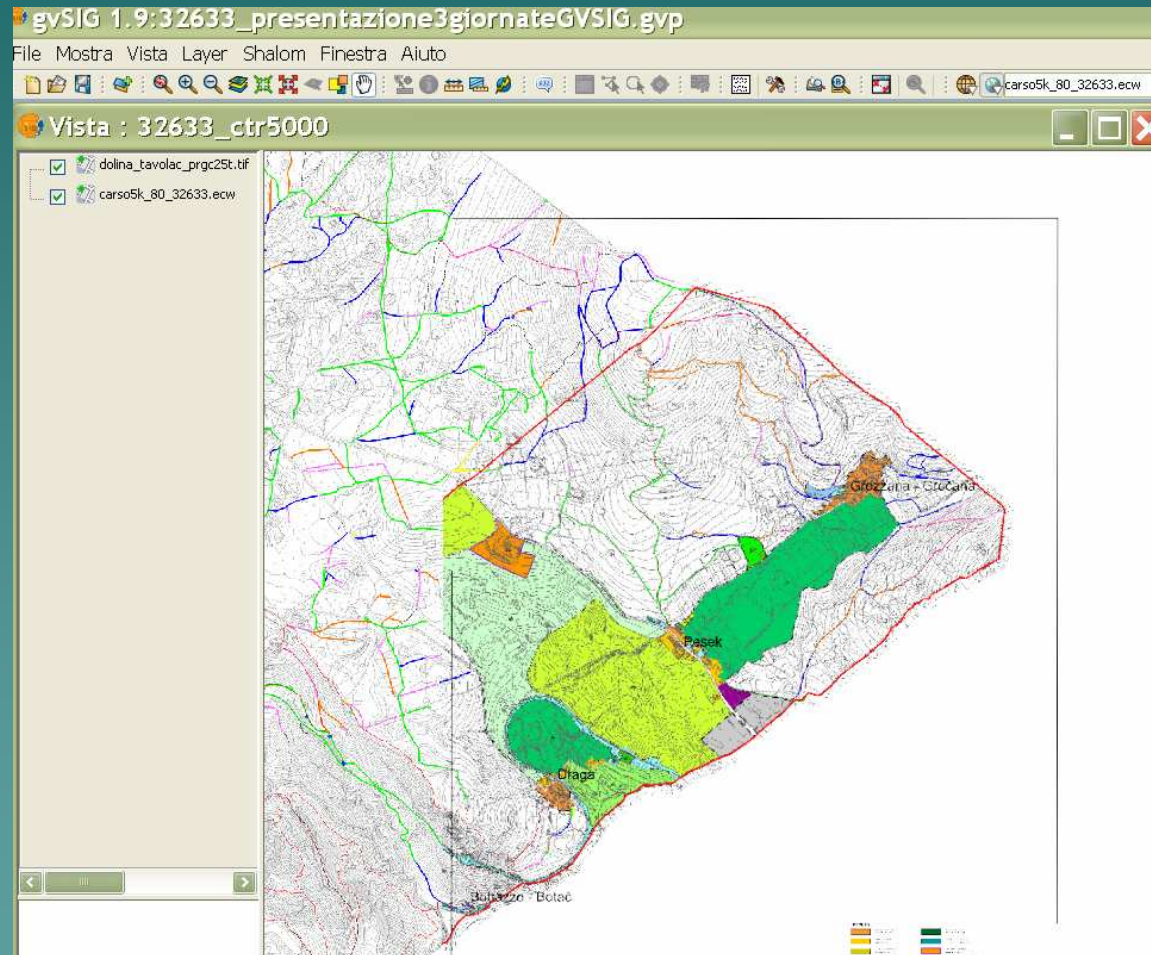
- Visto di georeferenziazione (Left):** Shows a wide view of a map with a red crosshair indicating the current cursor position. Coordinates are displayed as X: 418375.005 and Y: 5050328.490.
- Visto di georeferenziazione (Right):** Shows a zoomed-in view of the map with a red crosshair. Coordinates are displayed as X: 1227.761 and Y: 5015.165. Labels for 'Crozzana - Grociana', 'Peseck', 'Dhaga', and 'Bott' are visible.
- Pannello punti di controllo:** A table listing control points used for georeferencing. A red arrow points to the 'Prova di georeferenziazione' button in the bottom right corner of the interface.
- Controllo zoom:** A small panel showing a zoomed-in view of the map with coordinates X: 413788.681 and Y: 5052783.243.

	WorldX	WorldY	ImageX	ImageY	ErrorX	ErrorY	RMS
0	415706.30533895254	5053885.618416246	4399.082592592593	1765.7750342935528	0.01757211223451...	9.94391059103290...	0.136258956...
1	415684.52879538265	5053648.427058222	4356.713991769547	2147.18244170096	0.01744125740804...	8.079326138996781...	0.135089538...
2	414145.02262254315	5056013.396194024	1948.196844931414	7.063100137174211	3.93412396349753...	2.56167593240623...	0.025487251...
3	414449.3436101975	5052748.890021184	2414.361454046639	3566.865692729767	6.71623681406950...	1.08523834880071...	0.026124242...
4	412972.4917583456	5054024.352984147	90.60150891632406	1560.9451303155006	0.0144799673521434	2.459180435227176...	0.121350259...
5	413638.6947271875	5052753.535817775	1136.757674867169	3569.4641115723516	0.00237614537807...	3.14433145124931...	0.051870786...
6	412954.5905237777	5051835.927058221	104.72770919067239	5000.674897119342	0.01032821303646...	0.00154099616398...	0.108945900...

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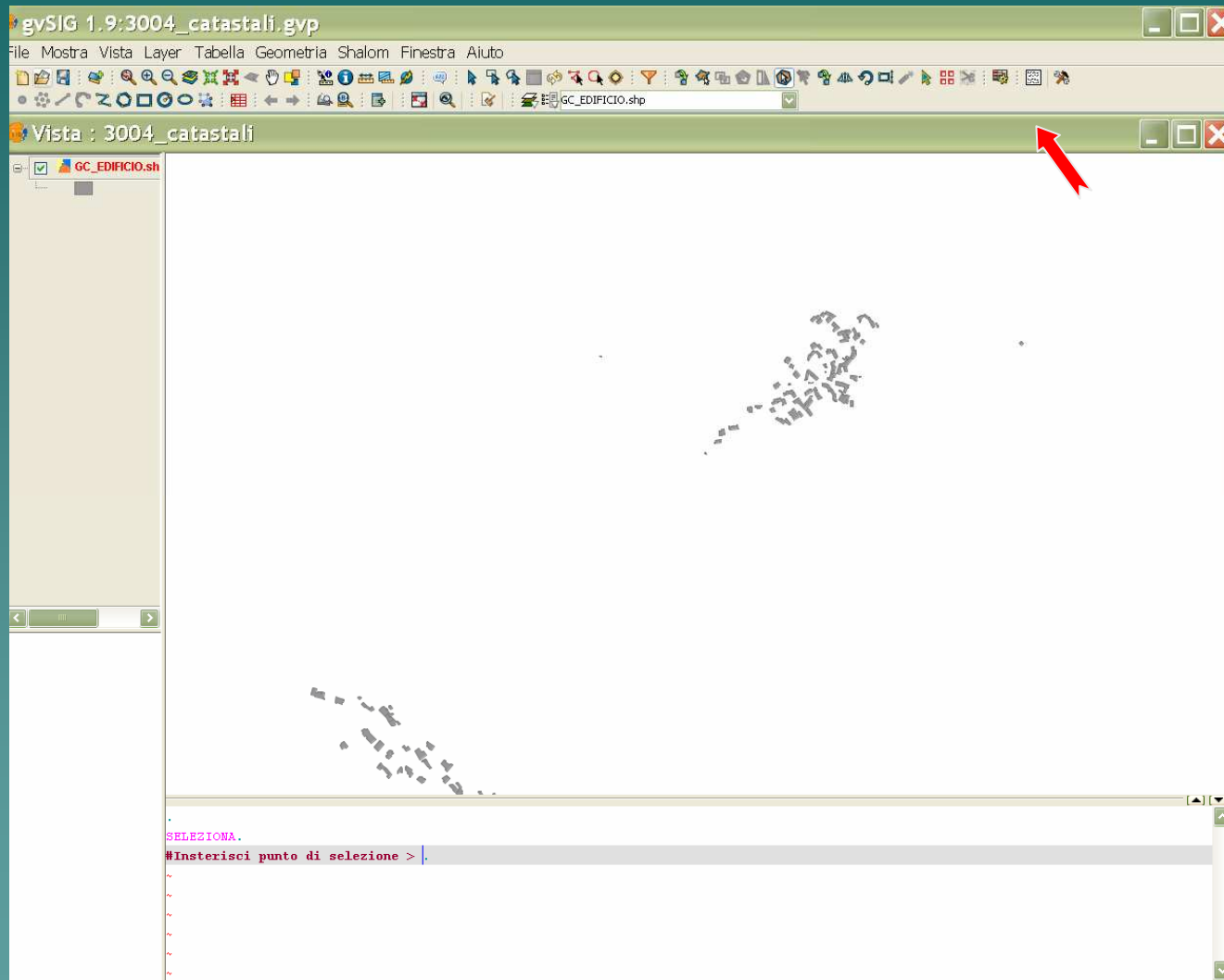
Sovrapposizione files e trasparenze



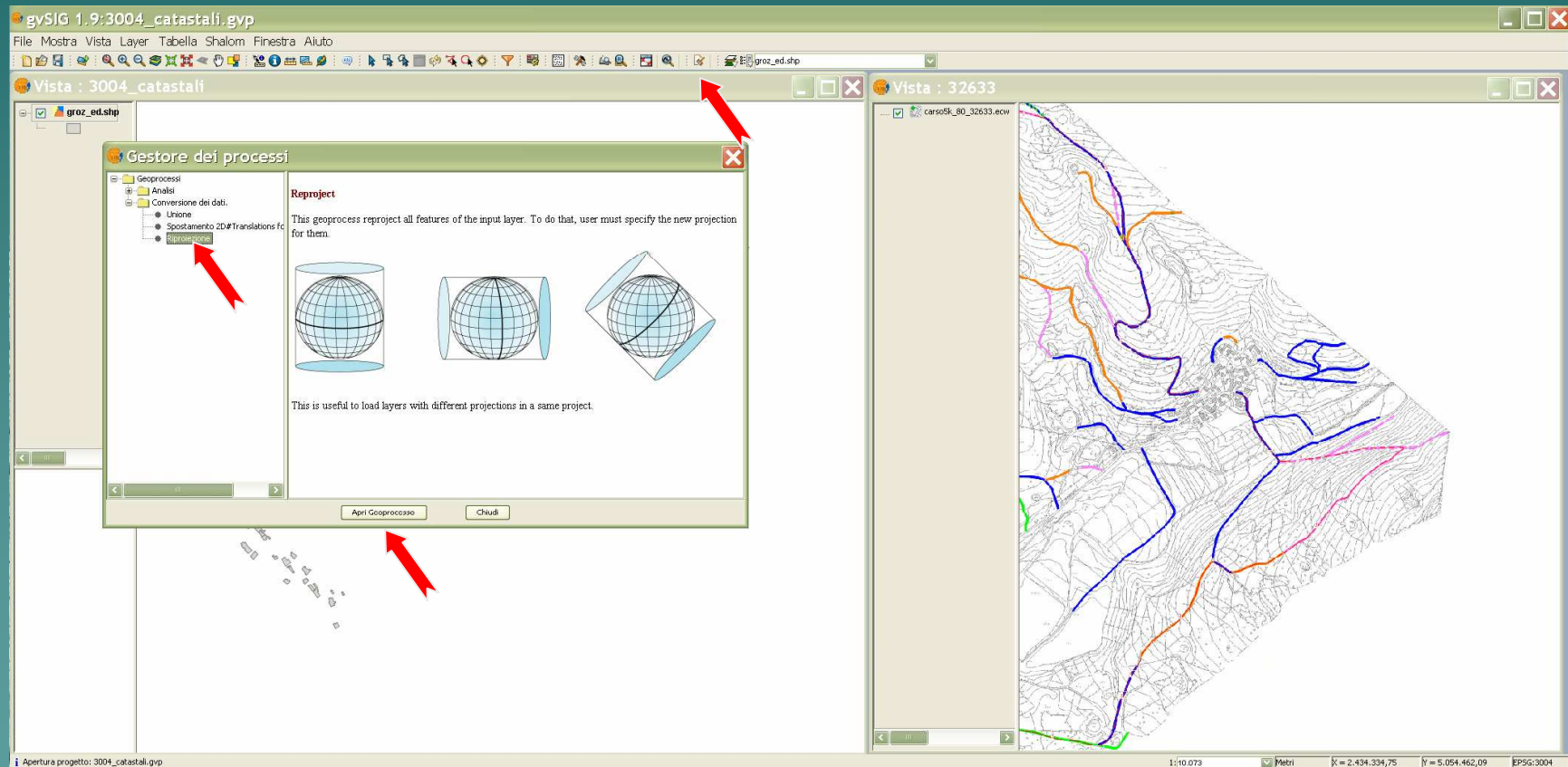
Trasformazione dei files vettoriali di particelle catastali ed edificiali

**Come trasformare i files vettoriali dal sistema di coordinate
EPSG 3004 GB Est al sistema
UTM33-WGS84 EPSG 32633**

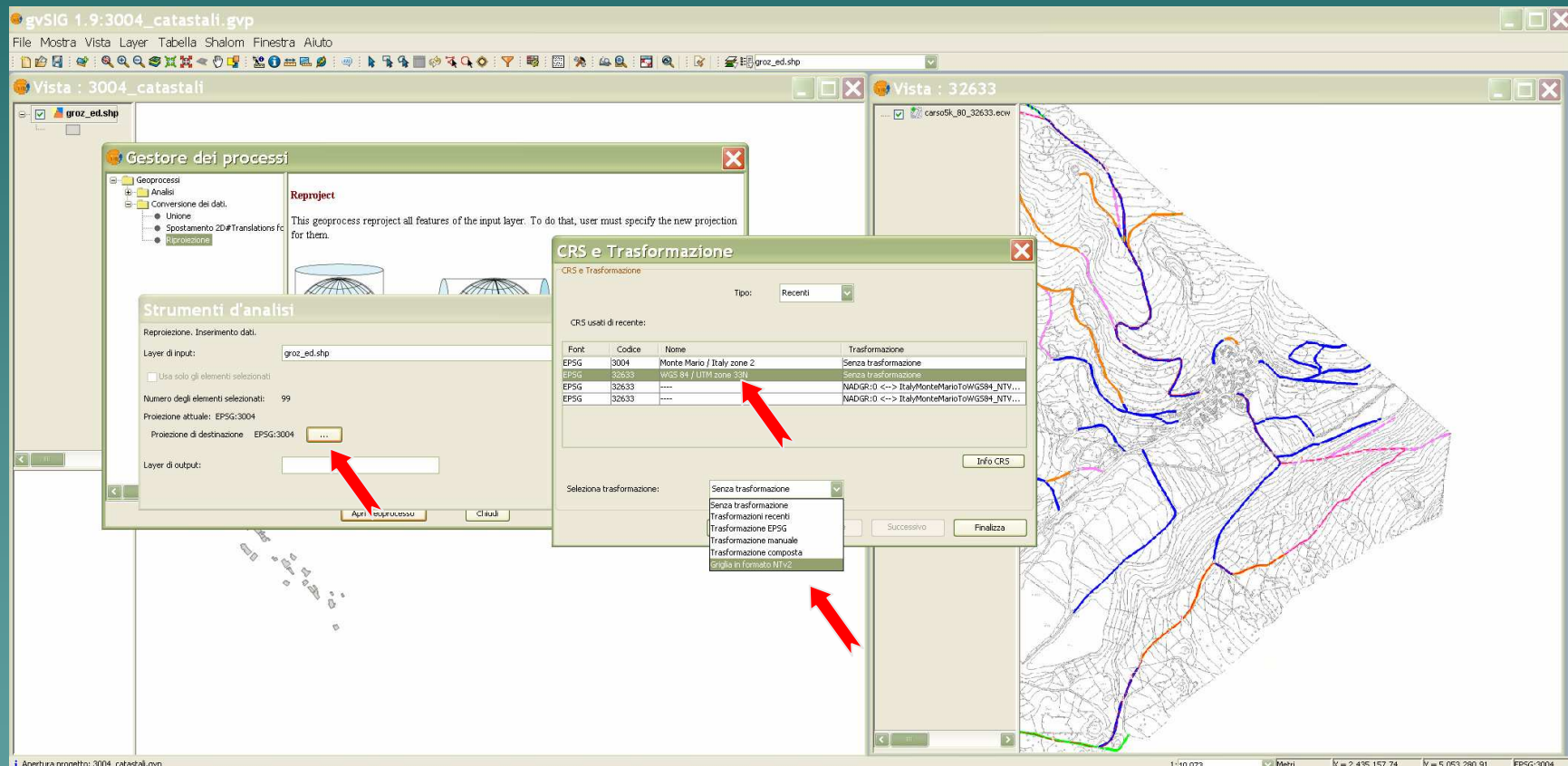
Modifica del data base



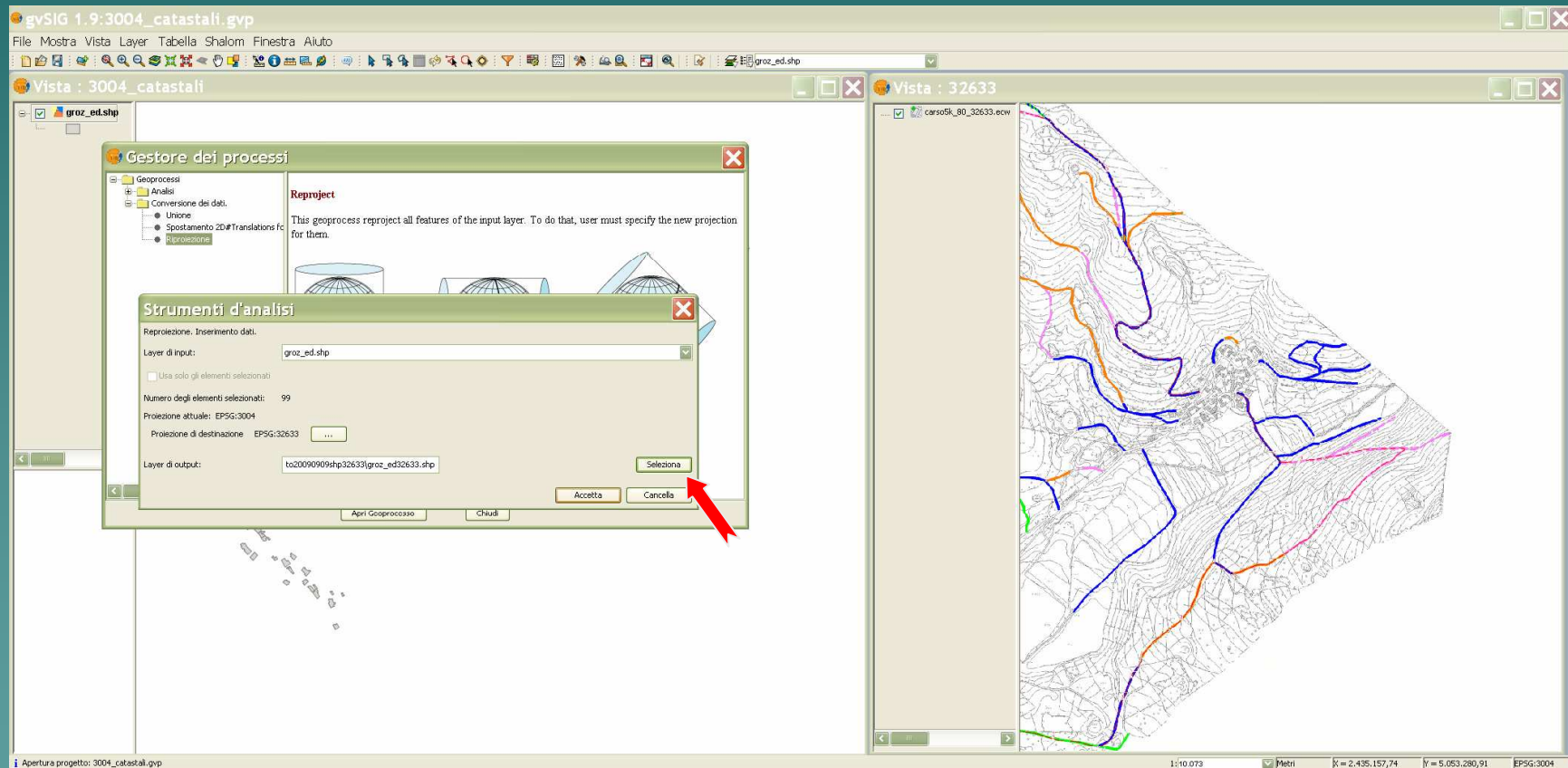
Apertura del geoprocesso



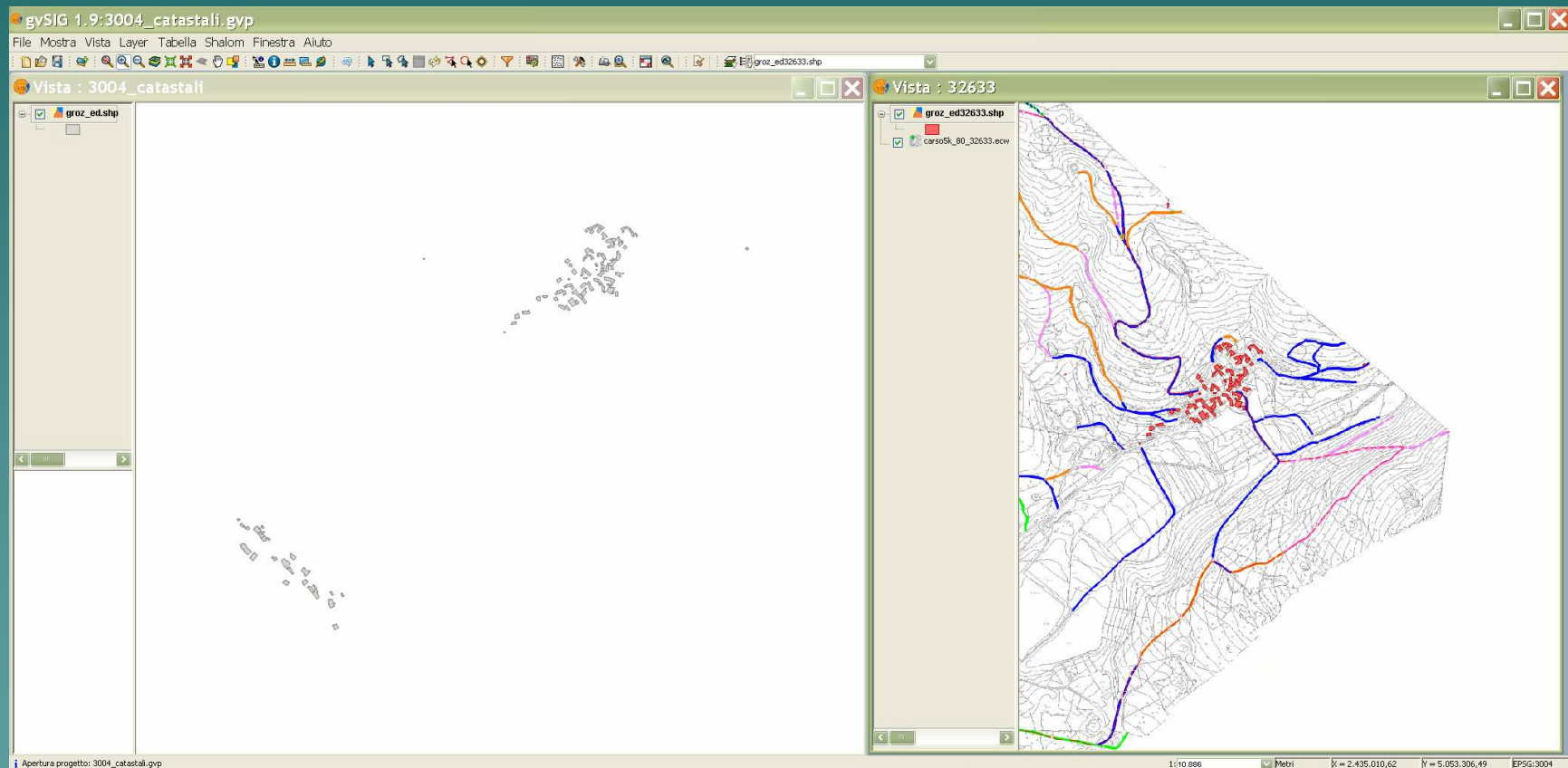
Sistema di riferimento e trasformazione



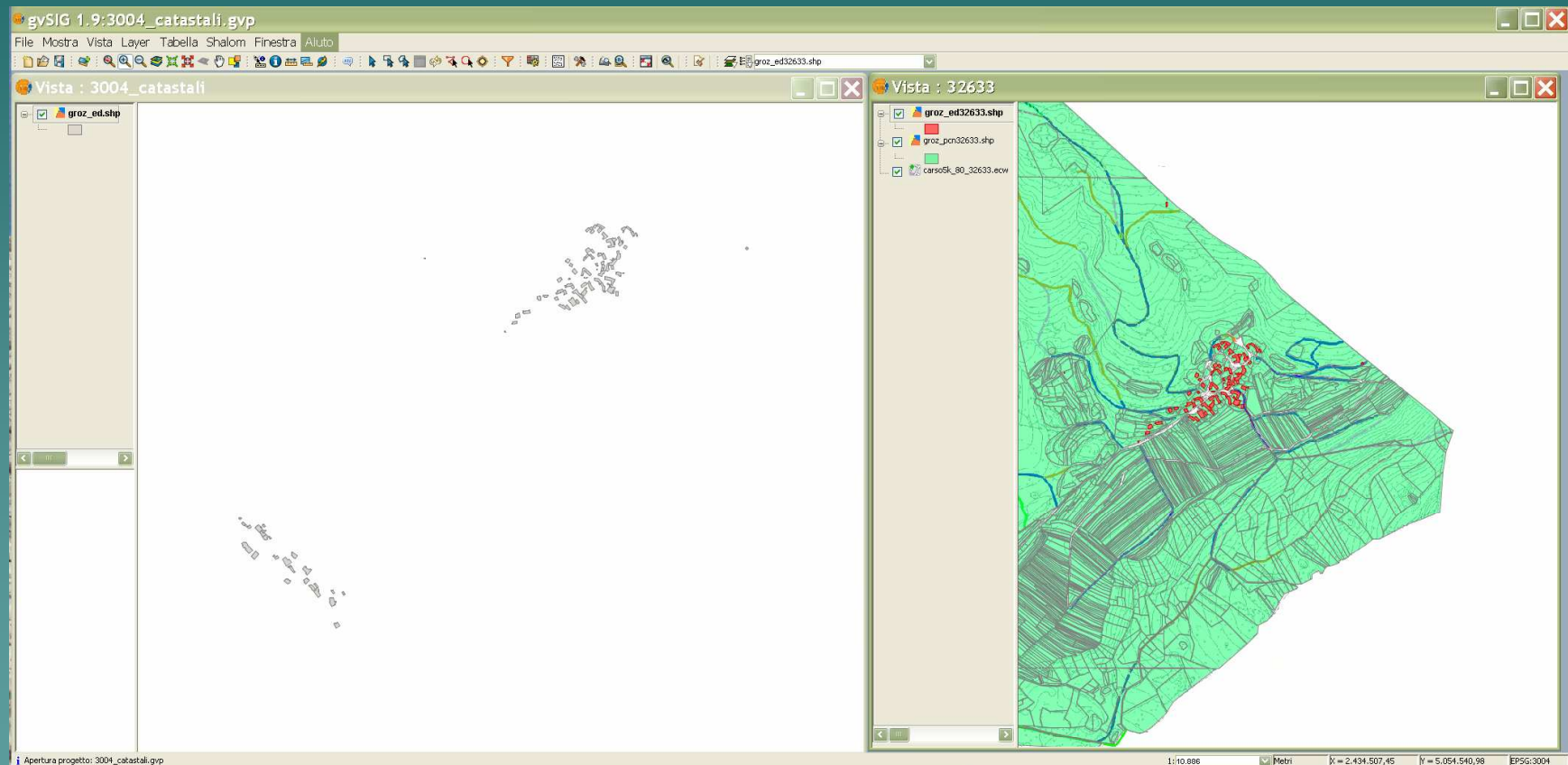
Salvataggio del nuovo file



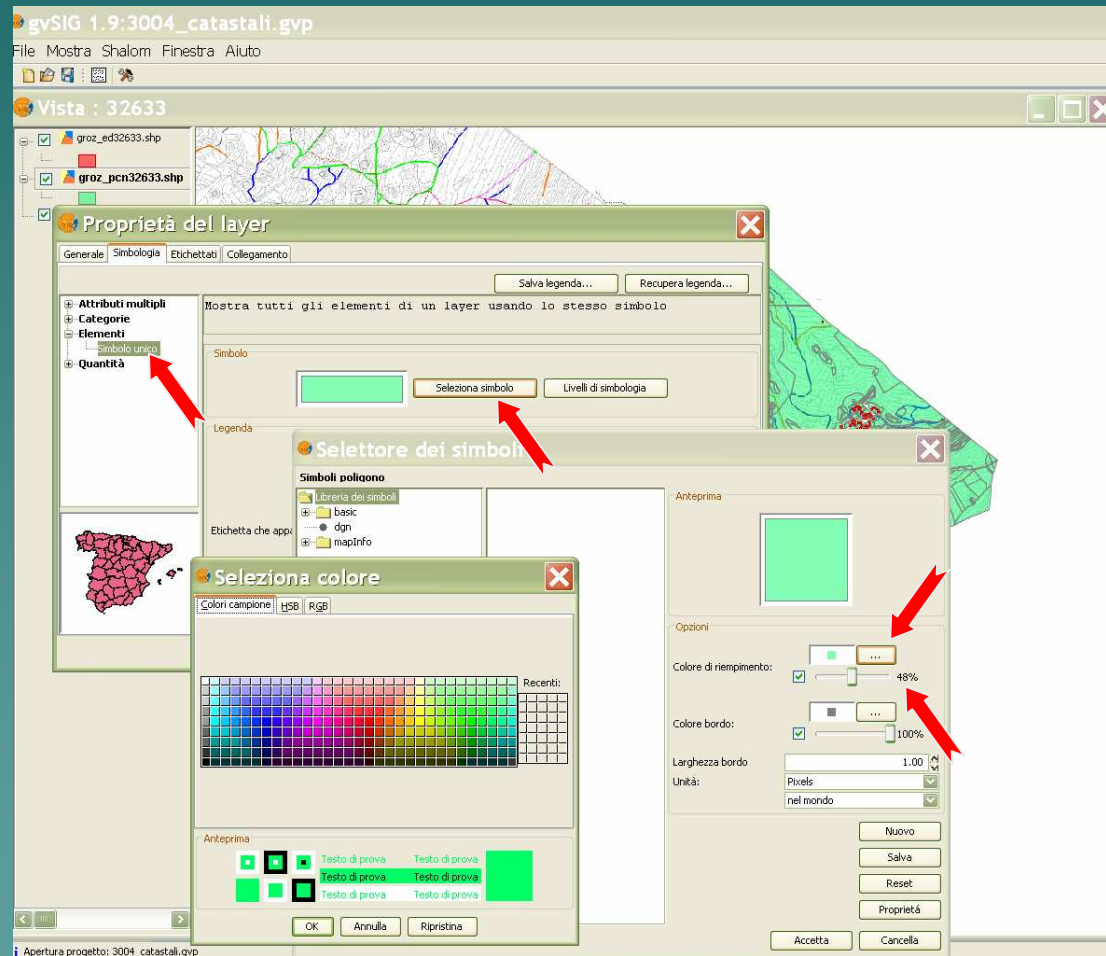
Apertura file nel nuovo sistema



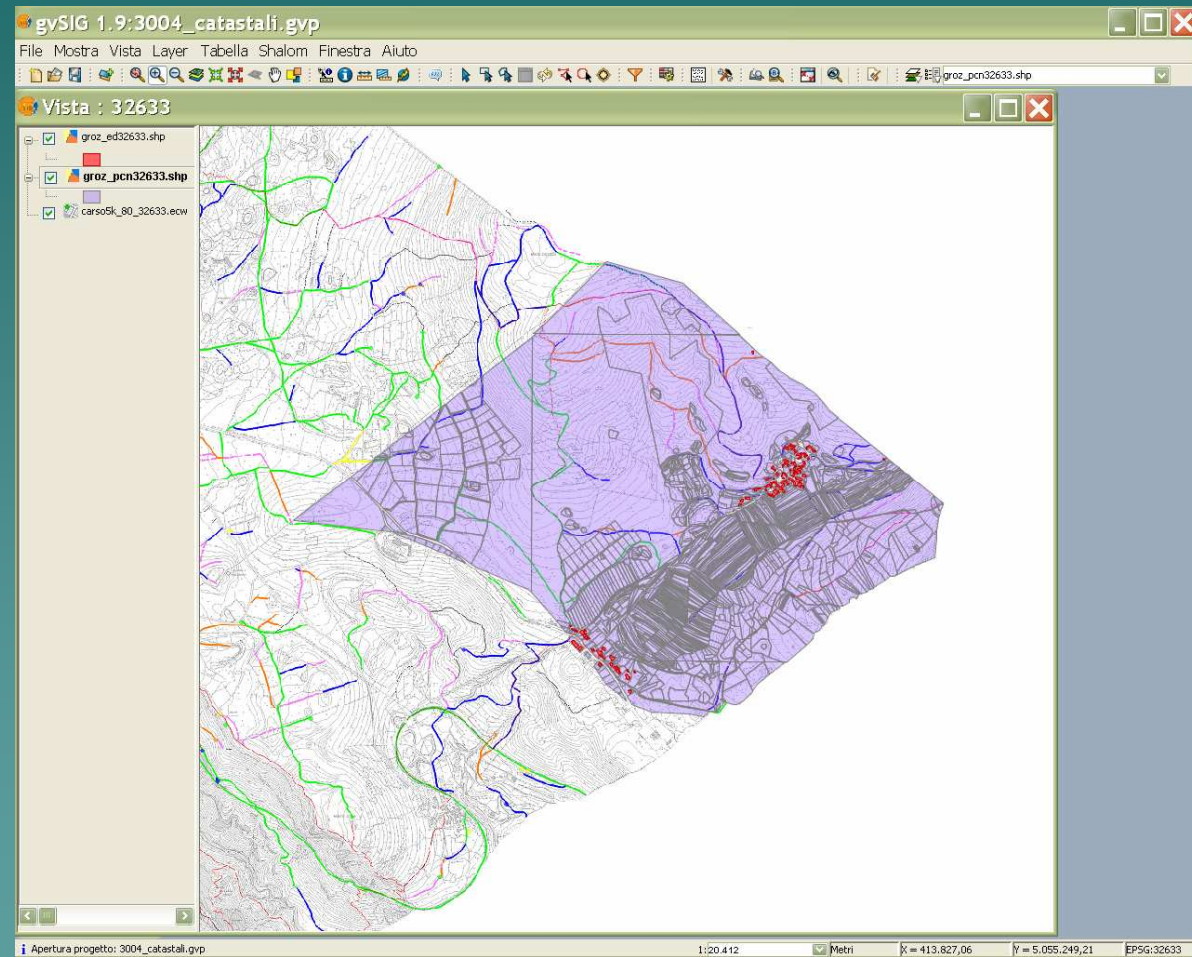
Apertura di più files e trasparenze



Scelta della simbologia e della trasparenza su pc



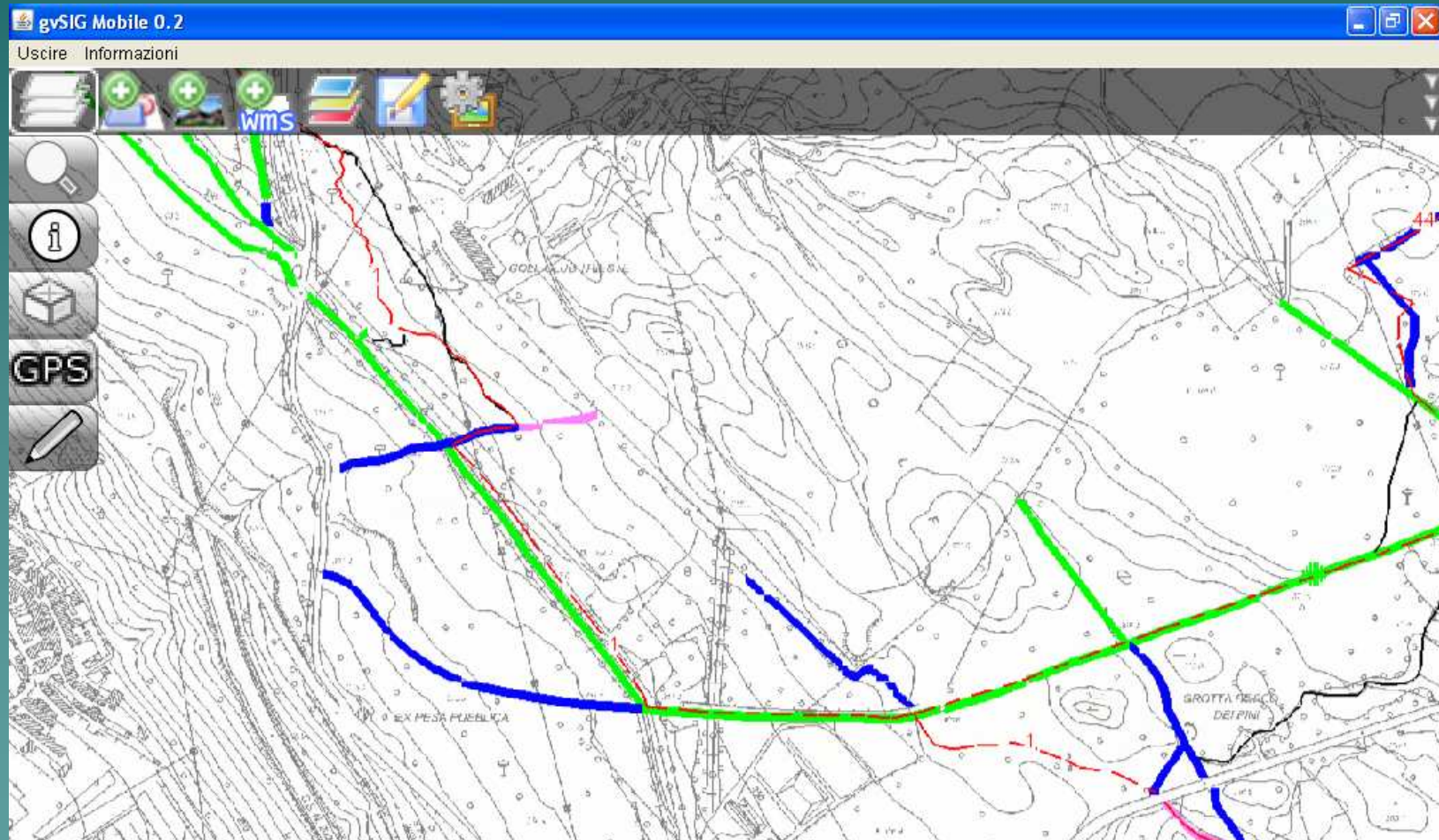
Risultato finale



In pratica sul palmare

Esempio pratico di un controllo di conformità da parte del personale della stazione forestale di Trieste mediante l'utilizzo di gvSIG Mobile

Vista sul palmare

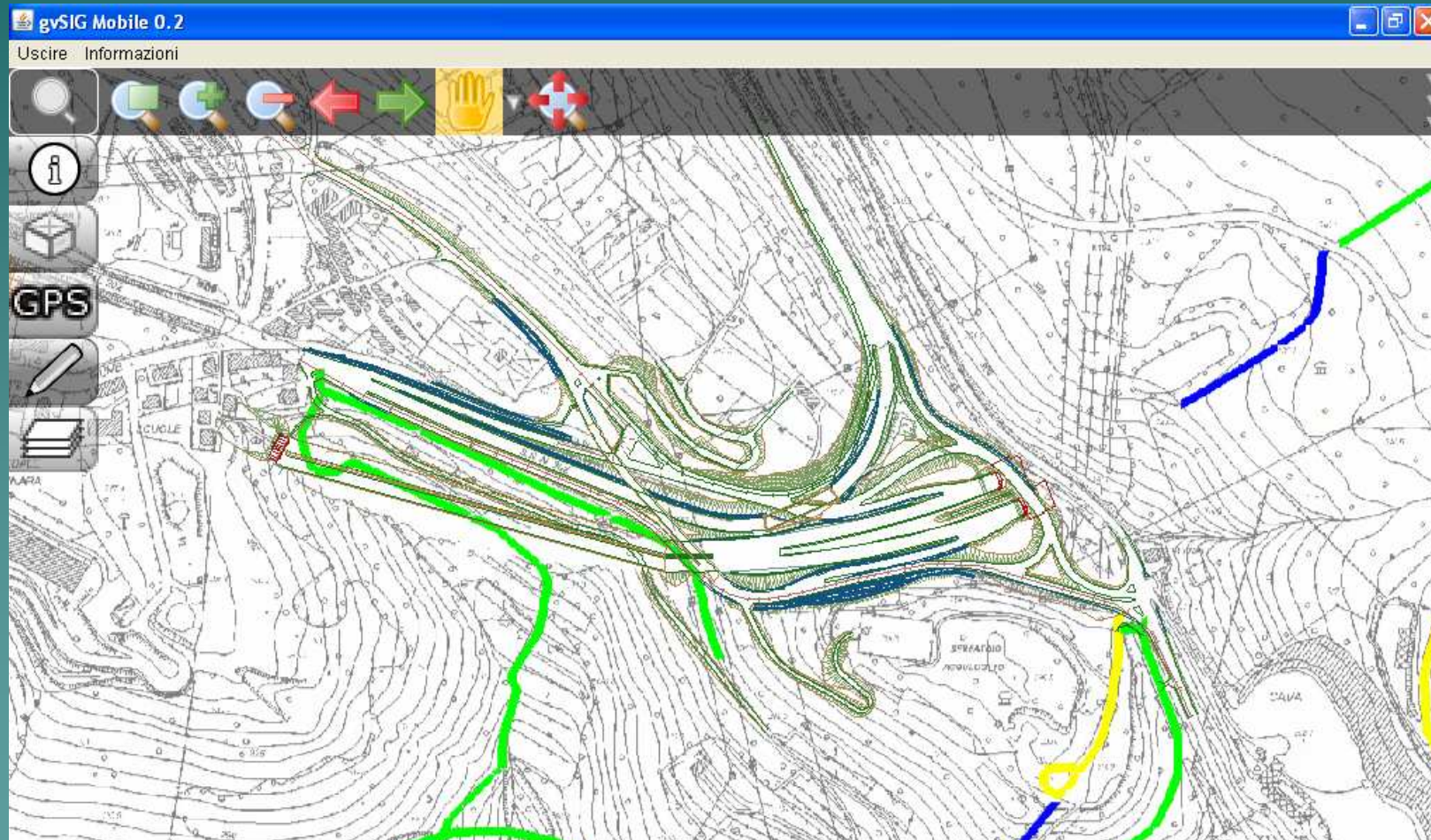


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Visualizzazione dello shapefile dell'area di cantiere da controllare

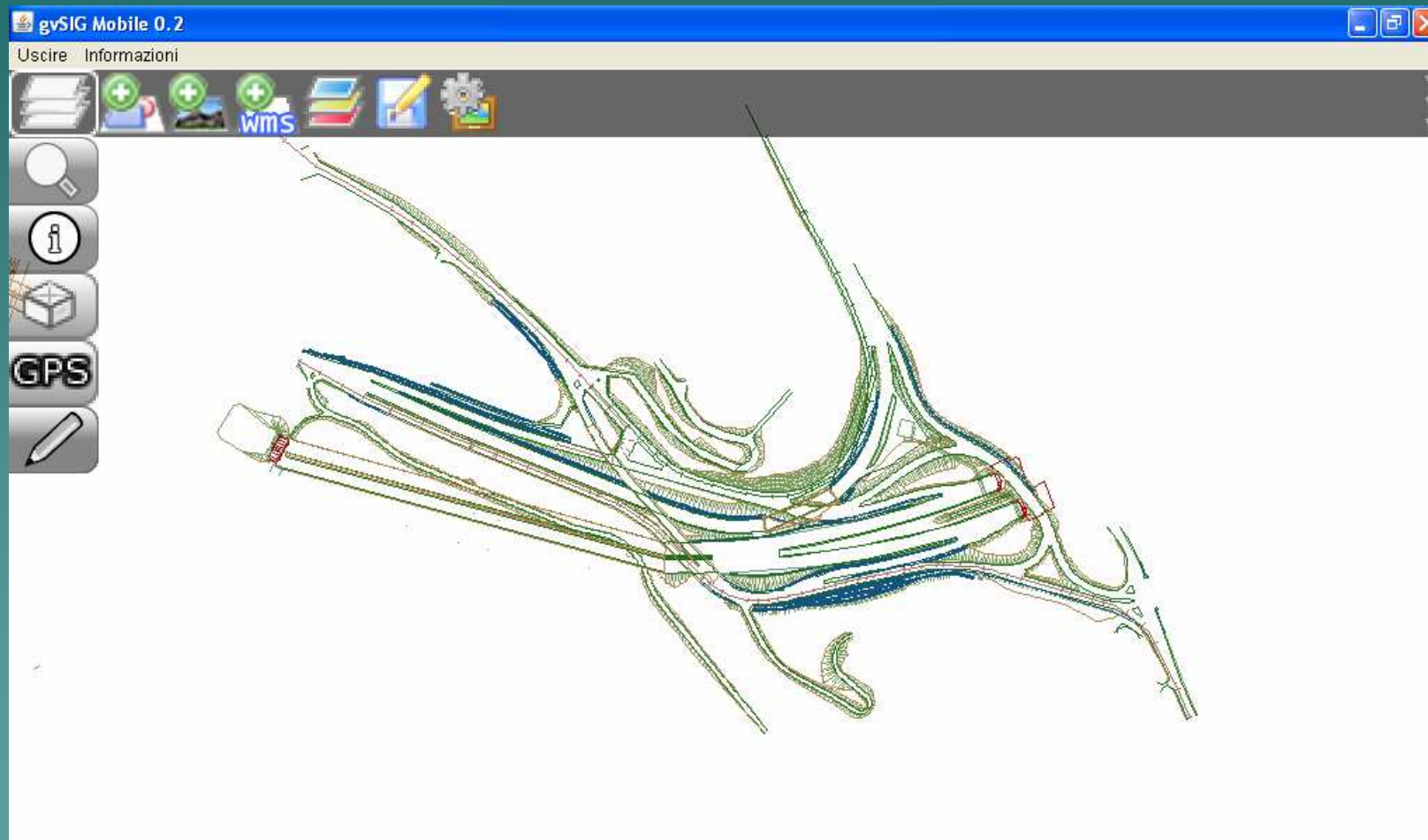


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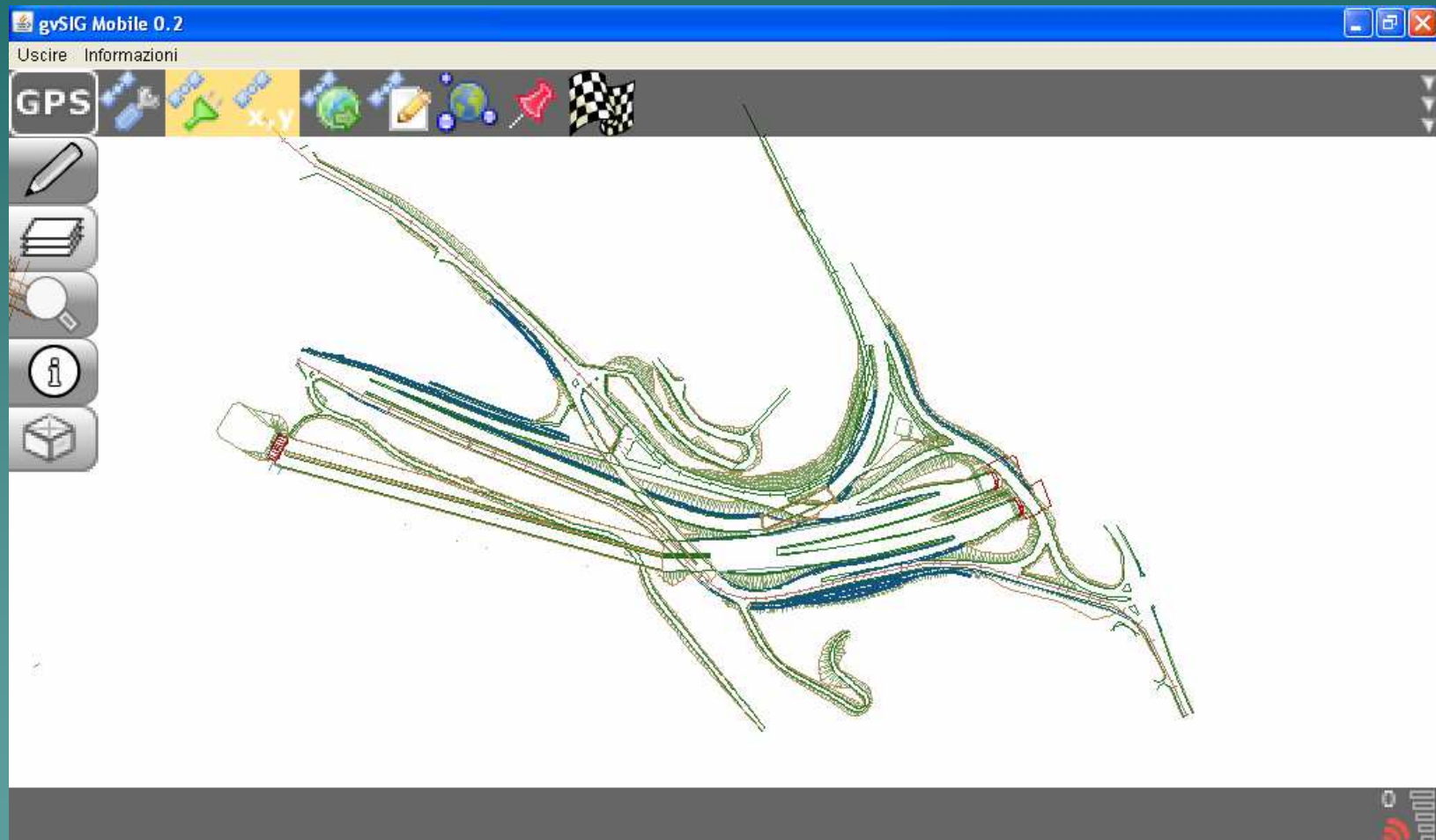
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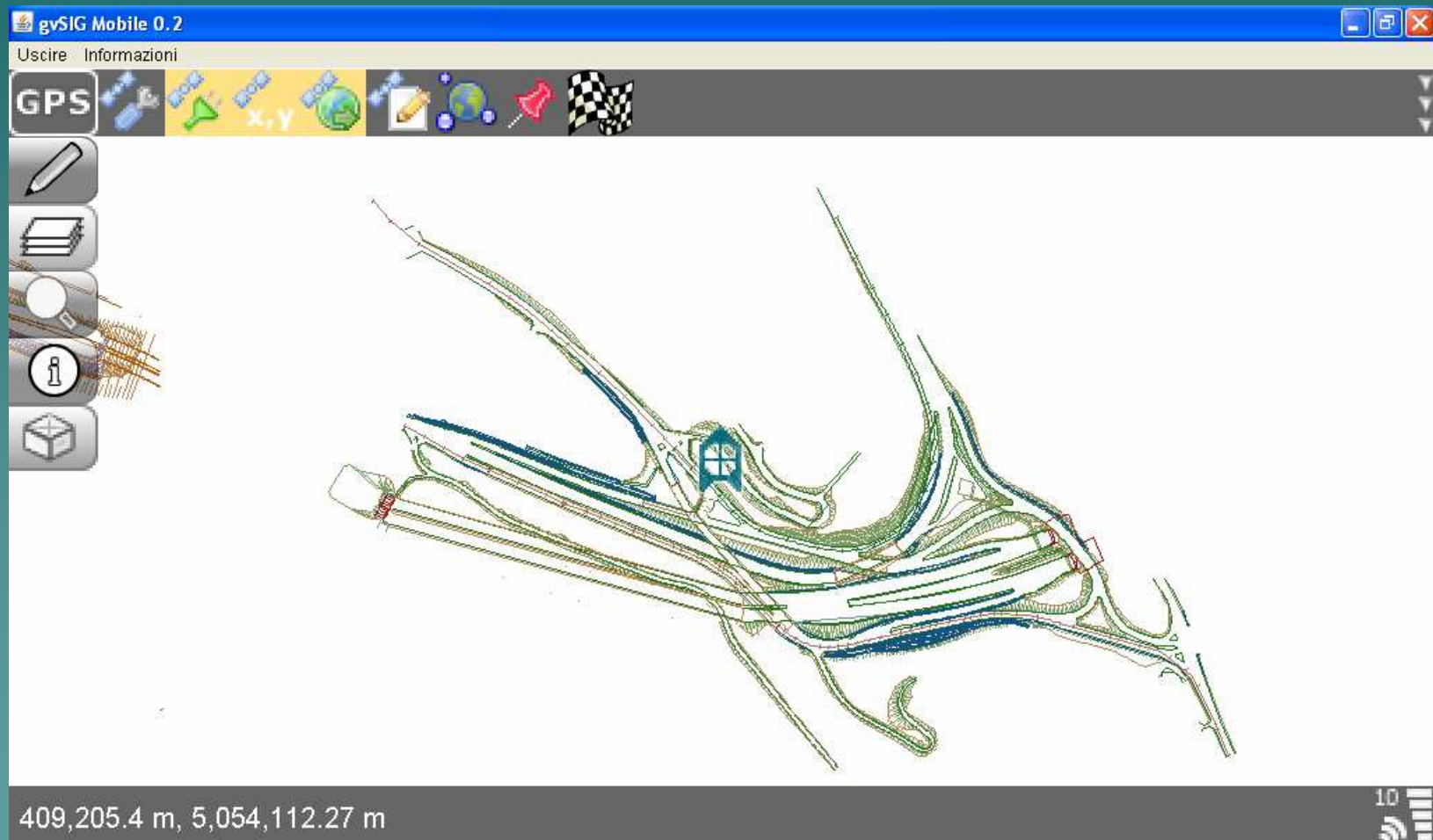
Evidenza del solo progetto



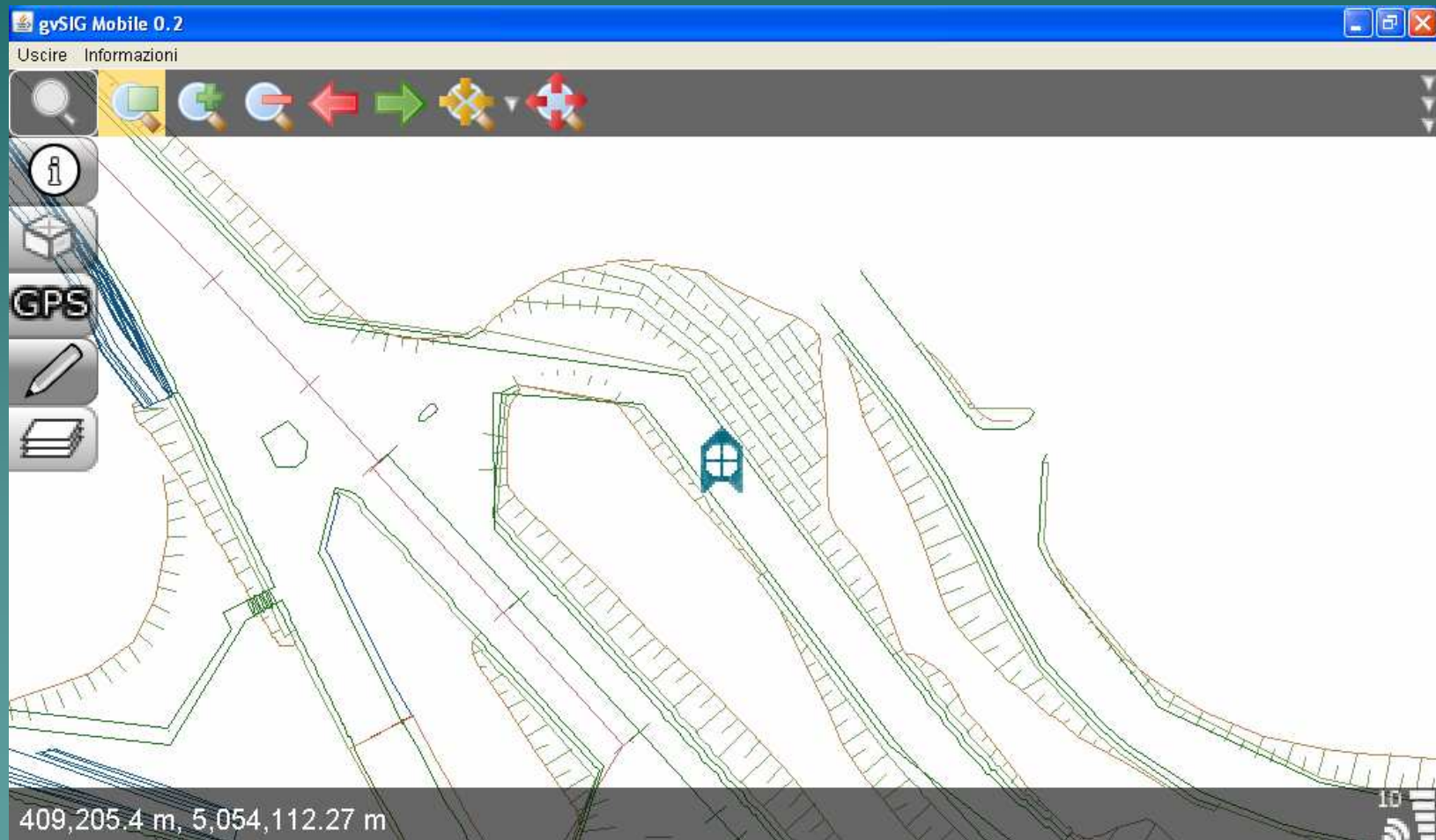
Attivazione del GPS



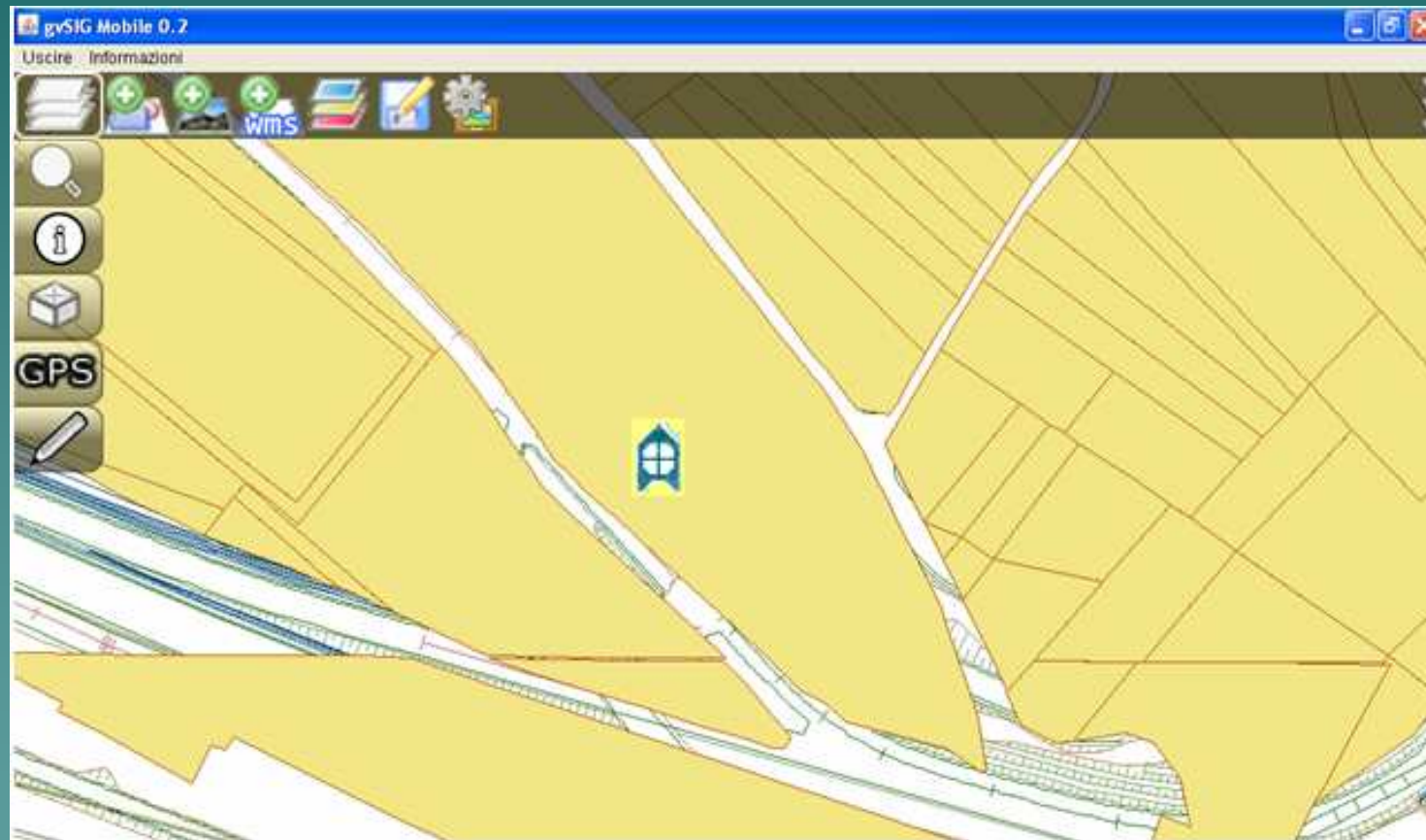
Visualizzazione della posizione



Ingrandimento della vista



Visualizzazione della mappa catastale



Visualizzazione del piano regolatore

