ACADEMY

GEOMAX

TUTORIAL
DXF CALIBRATION FOR STAKEOUT

DXF Calibration for Stakeout

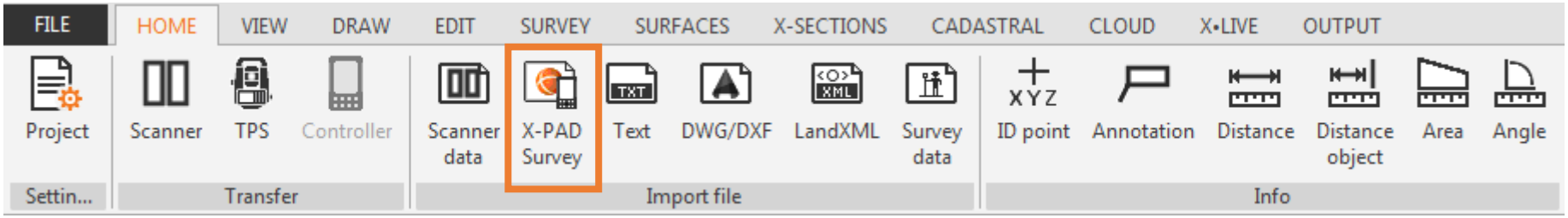
DESCRIPTION

- Georeferencing DXF drawing on Survey data for use in field

GOAL

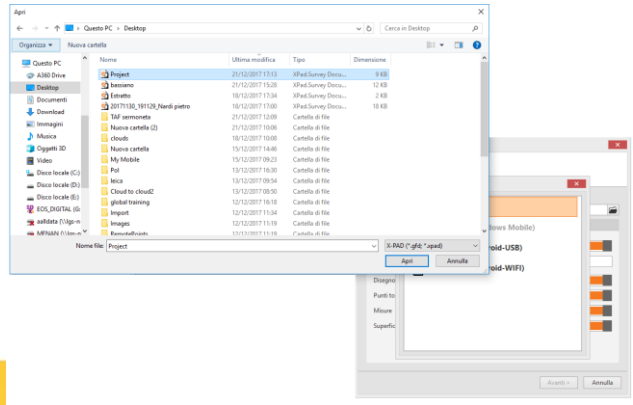
- How to use survey data for georeferencing a DXF drawing
- How to view the georeferenced drawing in WebMap
- How to export data for field use

Import SURVEY data

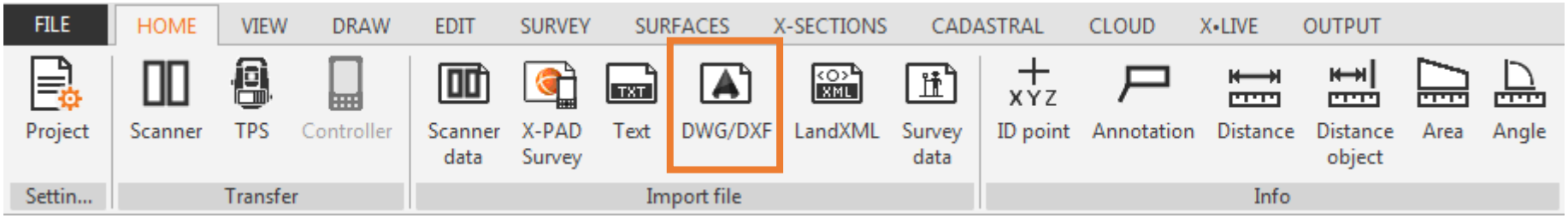


IMPORT FILE bar are the toolbar where find all the features related to data importation

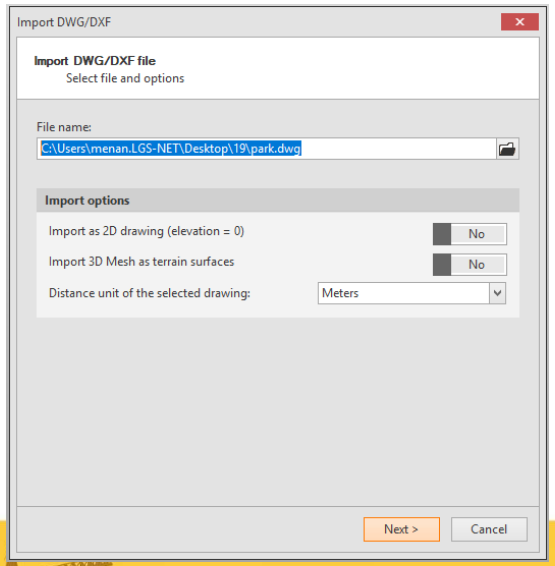
Select **X-PAD Survey** to import survey file recorded in field with X-PAD Field software.

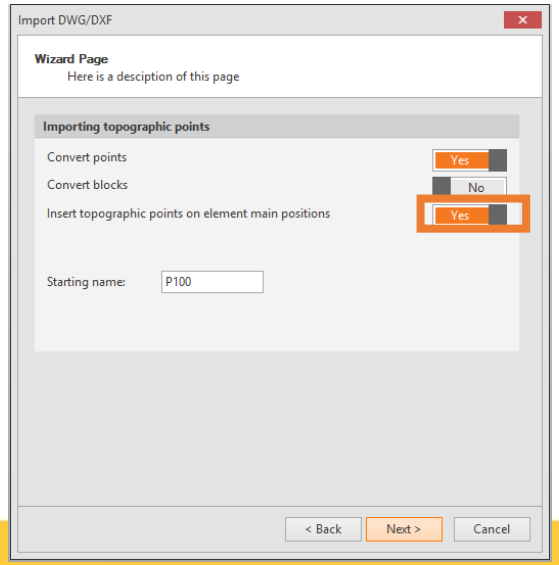


Import DXF data



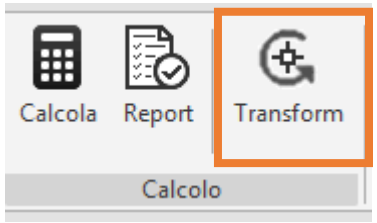
Again from ***IMPORT FILE*** bar, import now the modified **DWG/DXF** project file which we will calibrate



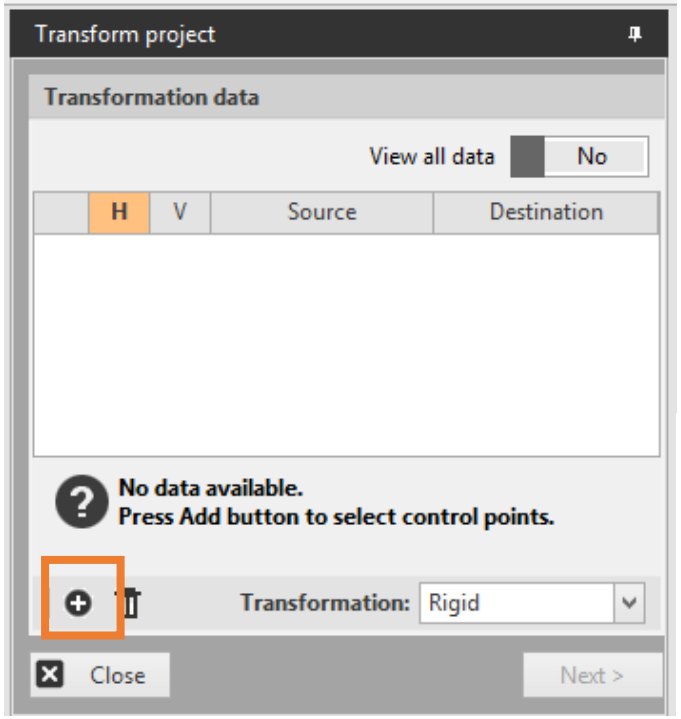


Selecting ***Insert topographic points on element main positions*** it is possible to import the CAD file with assigned points.

DXF Calibration



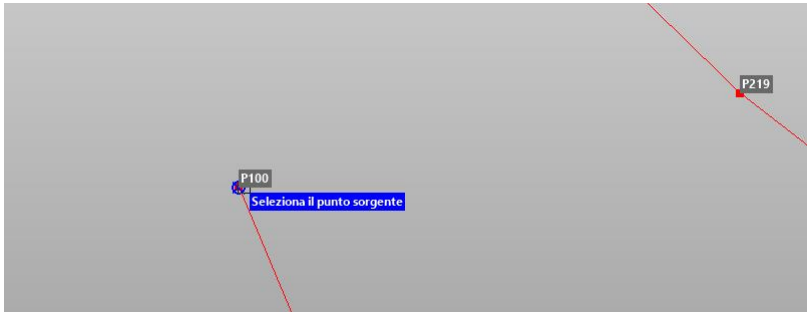
Use the ***Transform*** function from Survey menu for connect the CAD file to the survey.
From the windows ***Transform project*** select the button + to start selecting transformation points



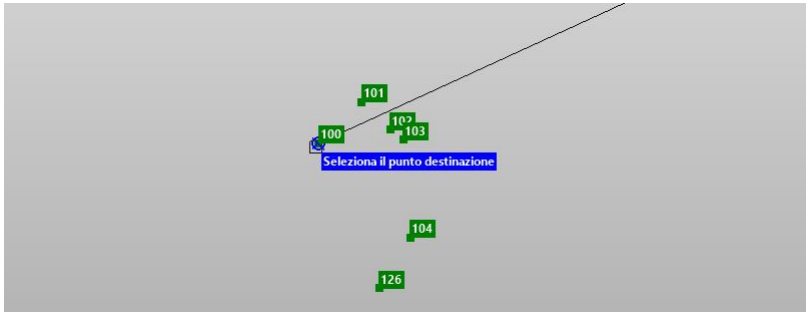
DXF Calibration

The transformation will be defined through the graphical selection of two or more control points. Each ***DXF*** point, called ***Source***, must be connected to the corresponding ***Survey point***, called ***Destination***

Source Point (DXF)



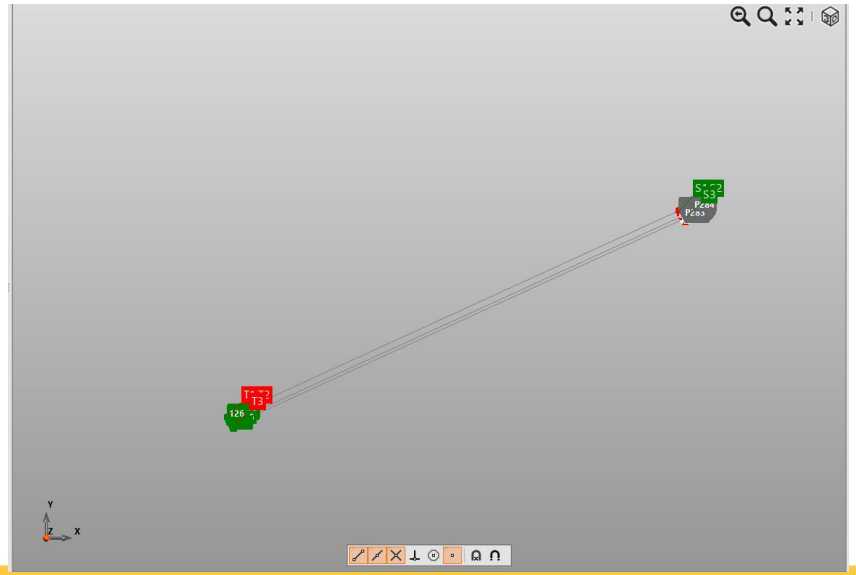
Destination Point (Rilievo)



DXF Calibration

- From the ***Graphic View*** it is possible to control the correct graphic connection between selected source and destination points

- From the ***Table*** it is possible to check the data of the source and destination positions of the respective linked points



Transform project

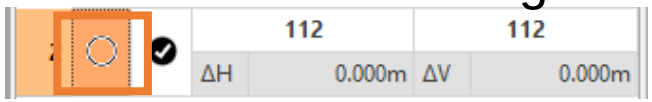
Transformation data

View all data: No

	H	V	Source	Destination
1	✓	✓	P100	100
			ΔH 0.000m	ΔV 0.000m
2	✓	✓	P284	112
			ΔH 0.000m	ΔV 0.000m
3	✓	✓	P101	105
			ΔH 0.000m	ΔV 0.000m

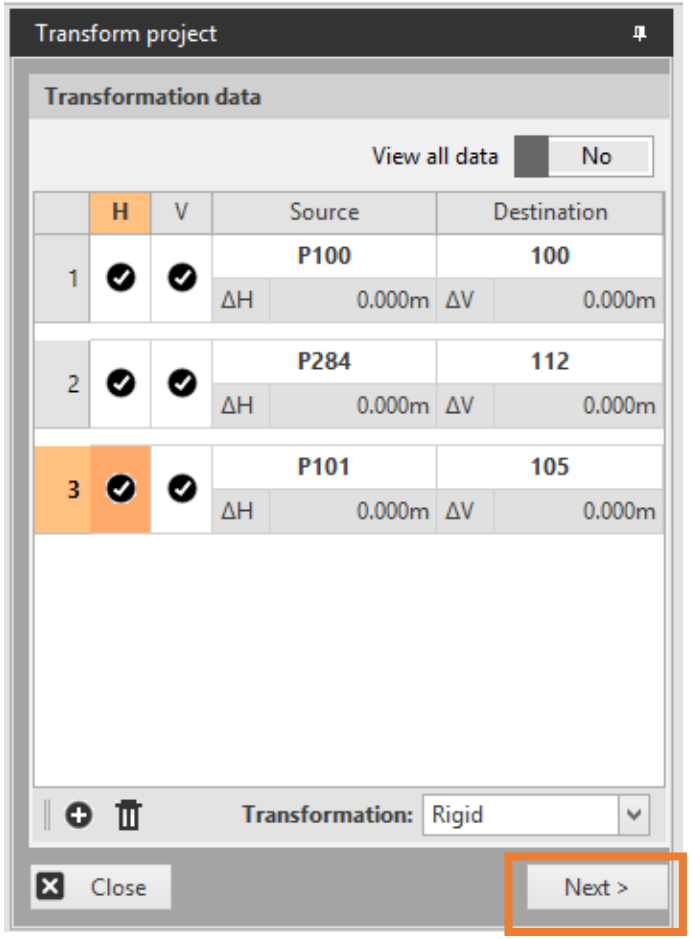
DXF Calibration

From the ***Table*** it is possible to control the deviations of the points used in the transformation and deselect the horizontal H or vertical values V too high



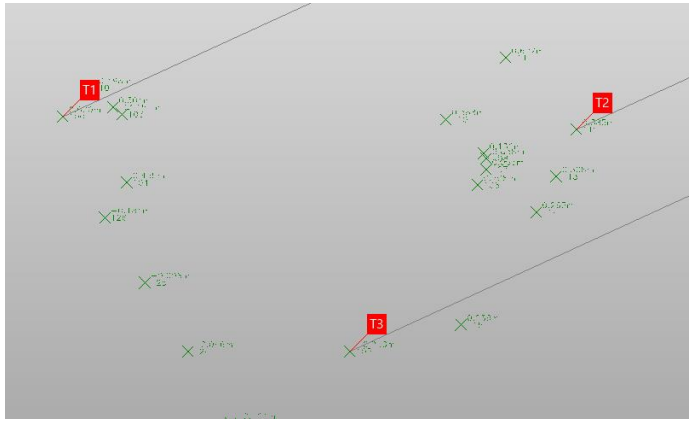
It is possible to select the transformation type from the menu:

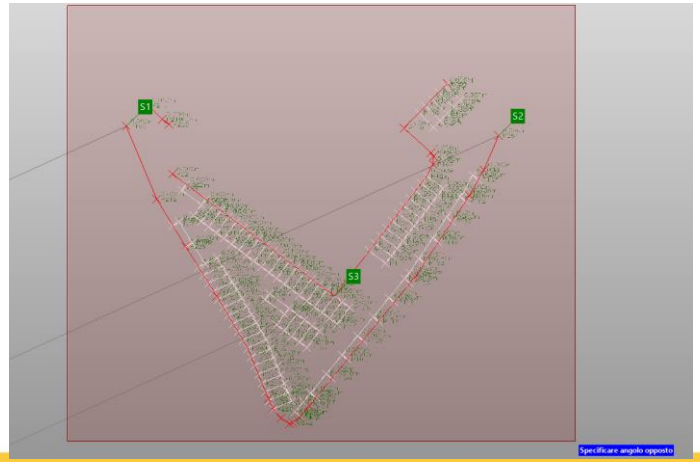
- Rigid
- Conformal
- Helmert 3D

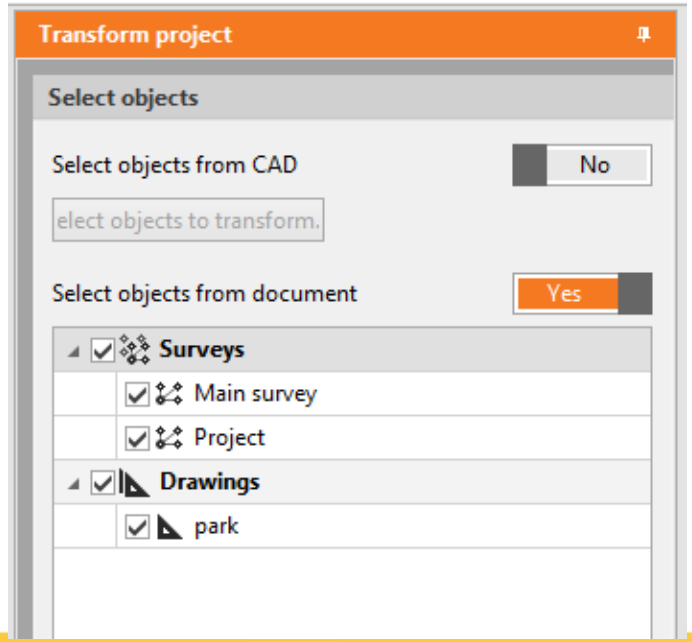


DXF Calibration

It is possible to use ***Select object from CAD*** to *select/exclude* parts of the drawing from transforming

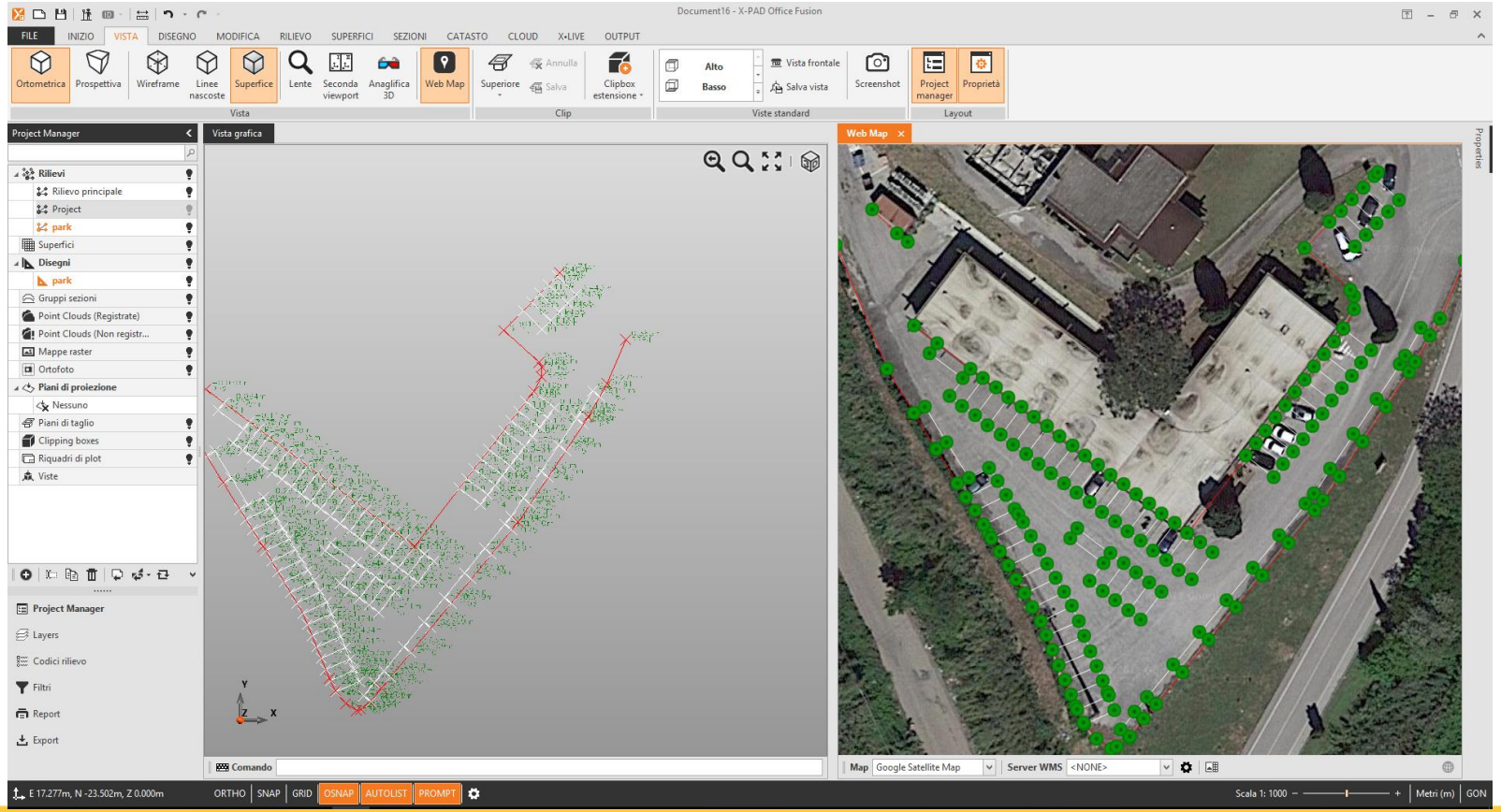




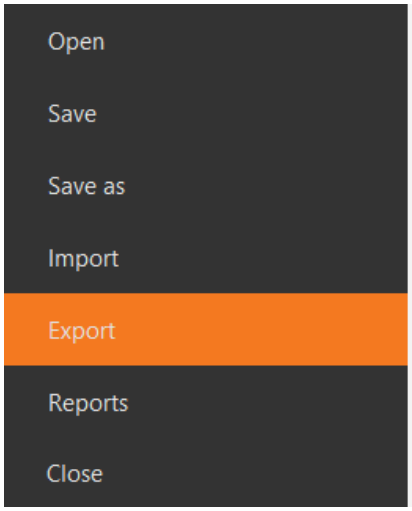


Project on WebMap

It is possible to view the calibrated project directly from ***WebMap***



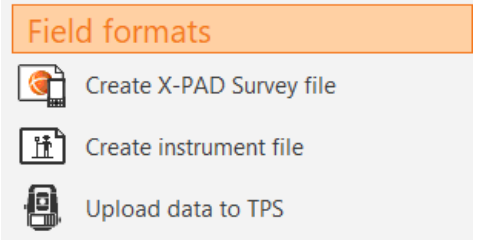
Export Project



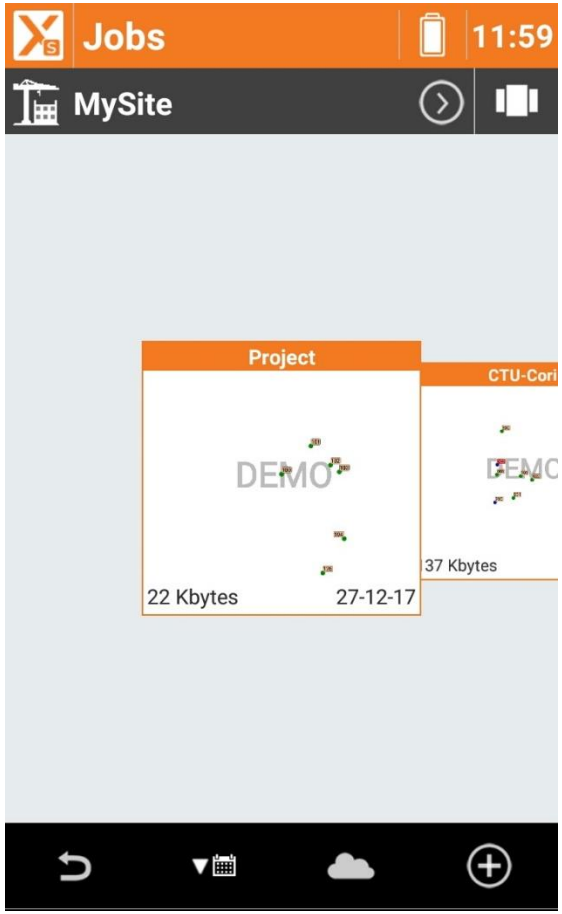
*From **FILE** menu select **Export** to save the Project*

*Select **Field formats*** to export the File For ***XPAD Field***

The created File will be ready for ***Stakeout***



XPAD Survey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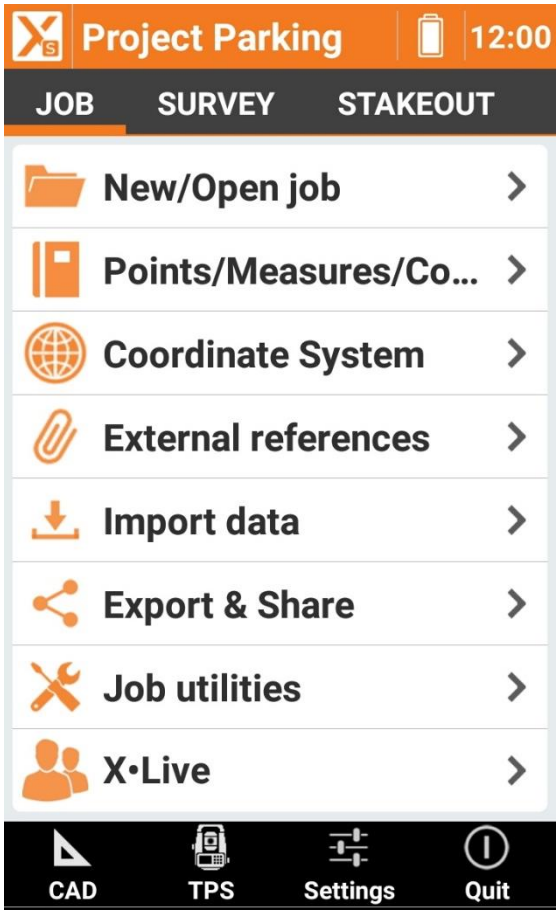
27-12-17
CTU-Cori
37 Kbytes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Points/Measures/Co...
Coordinate System
External references
Import data
Export & Share
Job utilities
X•Live
CAD
TPS
Settings
Quit


Data