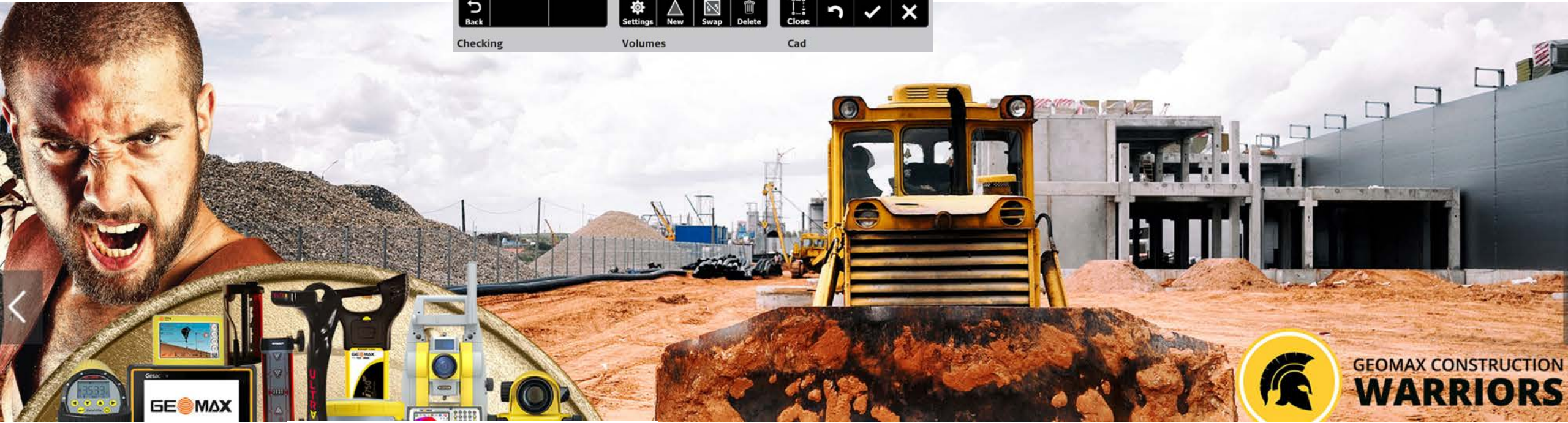
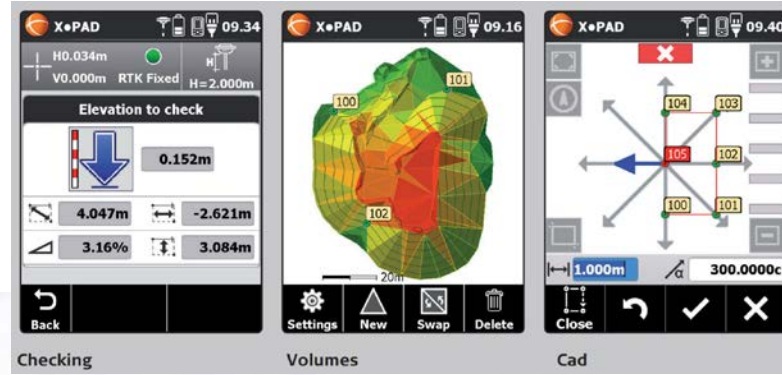




## X-PAD FUSION - Komplex irodai megoldás



GEOMAX CONSTRUCTION  
**WARRIORS**





# Zoom50 Series





# Zoom40 Series



Carlson SurvCE





# X-PAD FUSION - Komplex irodai megoldás





Más gyártók...



**X-PAD**  
F U S I O N 



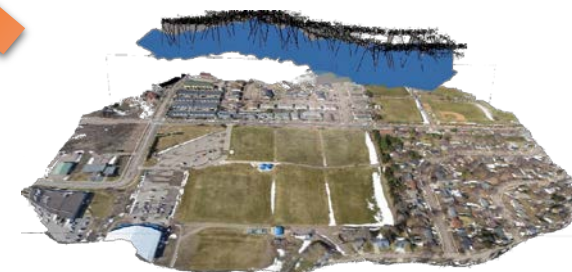
Más alkalmazások

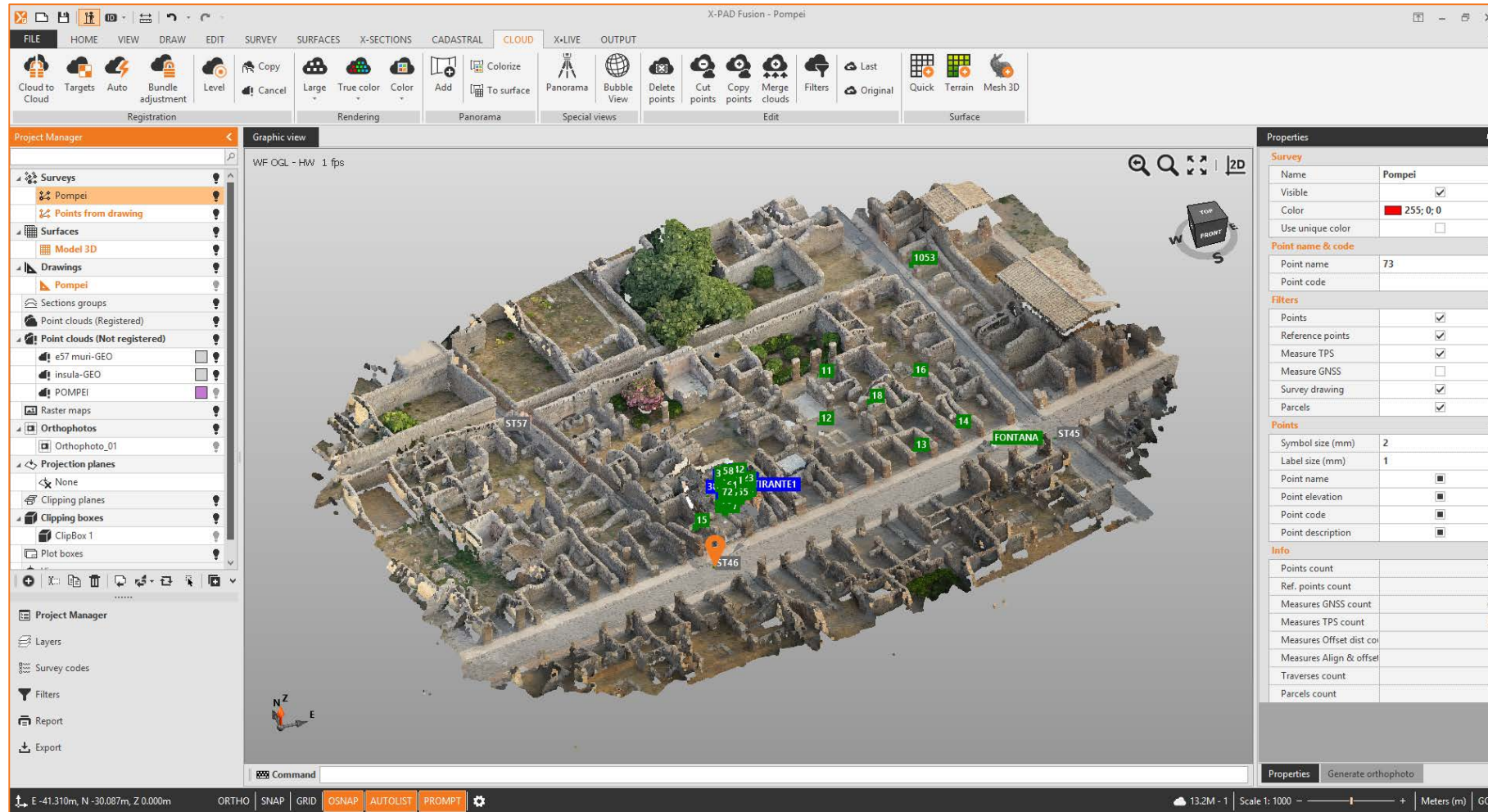


JKV & Rajz



 **PicPoint**





Korszerű felhasználói felület

Properties

Survey

Name	Pompei
Visible	<input checked="" type="checkbox"/>
Color	■ 255; 0; 0
Use unique color	<input type="checkbox"/>

Point name & code

Point name	73
Point code	

Filters

Points	<input checked="" type="checkbox"/>
Reference points	<input checked="" type="checkbox"/>
Measure TPS	<input checked="" type="checkbox"/>
Measure GNSS	<input type="checkbox"/>
Survey drawing	<input checked="" type="checkbox"/>
Parcels	<input checked="" type="checkbox"/>

Points

Symbol size (mm)	2
Label size (mm)	1
Point name	<input type="checkbox"/>
Point elevation	<input type="checkbox"/>
Point code	<input type="checkbox"/>
Point description	<input type="checkbox"/>

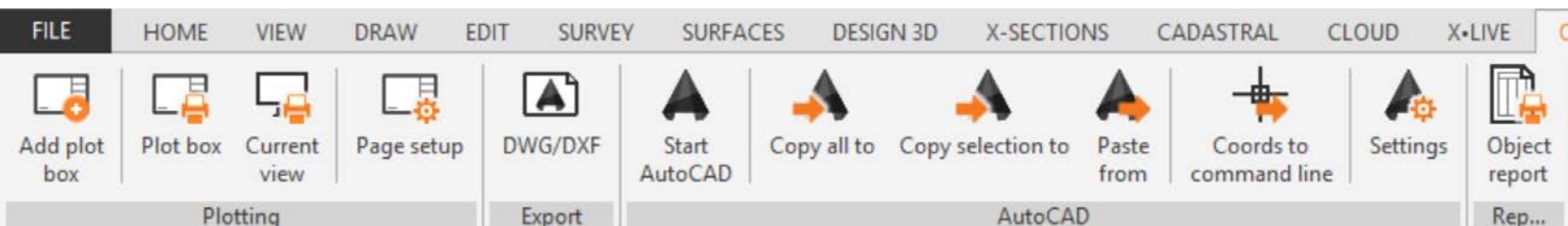
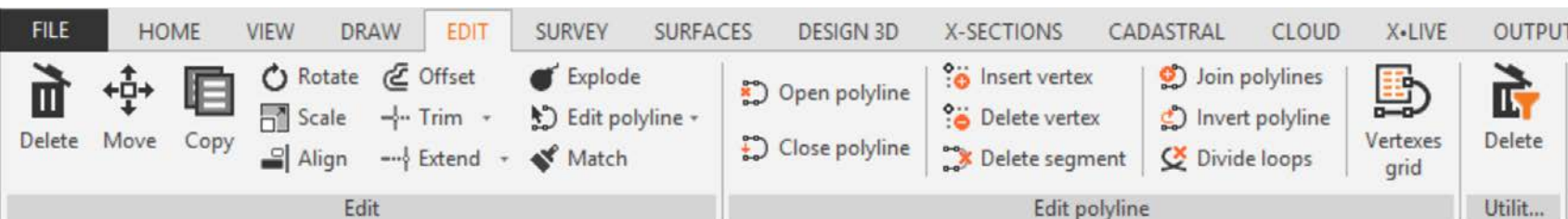
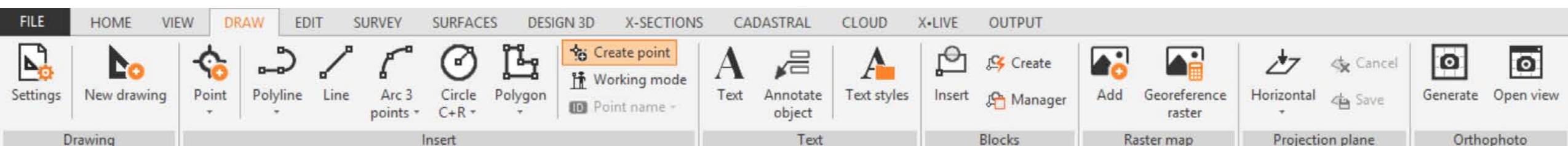
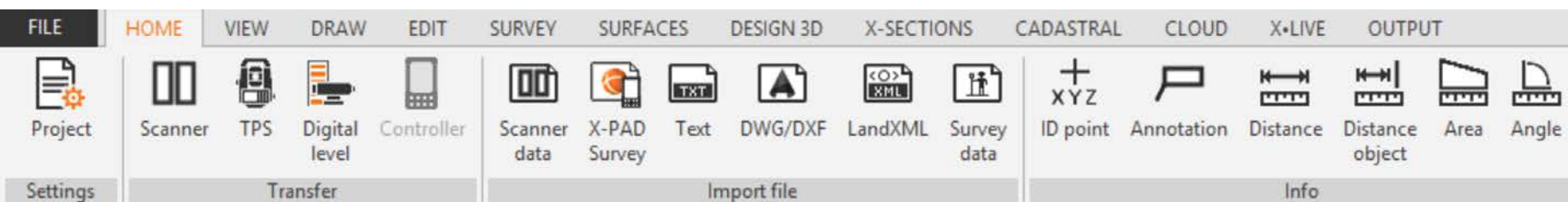
Info

Points count	78
Ref. points count	0
Measures GNSS count	68
Measures TPS count	11
Measures Offset dist count	0
Measures Align & offset count	0
Traverses count	0
Parcels count	0

Scale: 1:1000 | Meters (m) | GON

Jól átgondolt megjelenés!





Hatékony,  
átlátható kezelés!

X-PAD Fusion - Pompei

FILE HOME VIEW DRAW EDIT SURVEY SURFACES X-SECTIONS CADASTRAL CLOUD X-LIVE OUTPUT

Ortho Perspective Wireframe Hidden lines Surface Magnifier Second viewport Anaglyph 3D Web Map Top Bottom Front view Save view Screenshot Project manager Properties

Project Manager Graphic view WF OGL - HW 17 fps

Surveys: Main survey, Pompei 1, Punti da disegno

Surfaces

Drawings: Pompei co i punti battuti

Sections groups

Point clouds (Registered)

Point clouds (Not registered): e57 muni, insula, e57 muni-GEO, insula-GEO, POMPEI

Raster maps

Orthophotos

Projection planes: None, Clipping planes, Clipping boxes, Plot boxes

Project Manager: Layers, Survey codes, Filters, Report, Export

Command

Properties

Survey

Name	Pompei 1
Visible	<input type="checkbox"/>
Color	255; 0; 0
Use unique color	<input type="checkbox"/>

Point name & code

Point name	73
Point code	

Filters

Points	<input checked="" type="checkbox"/>
Reference points	<input checked="" type="checkbox"/>
Measure TPS	<input checked="" type="checkbox"/>
Measure GNSS	<input type="checkbox"/>
Survey drawing	<input checked="" type="checkbox"/>
Parcels	<input checked="" type="checkbox"/>

Points

Symbol size (mm)	2
Label size (mm)	1
Point name	<input type="checkbox"/>
Point elevation	<input type="checkbox"/>
Point code	<input type="checkbox"/>
Point description	<input type="checkbox"/>

Info

Points count	78
Ref. points count	0
Measures GNSS count	68
Measures TPS count	11
Measures Offset dist co	0
Measures Align & offset	0
Traverses count	0
Parcels count	0

E 51.330m, N 53.788m, Z 0.000m ORTHO SNAP GRID OSNAP AUTOLIST PROMPT 50.0M - 1 Scale 1: 1000 Meters (m) GON

## 3D Anaglyph nézet

X-PAD Fusion - Survey GPS-TPS

FILE HOME VIEW DRAW EDIT SURVEY SURFACES X-SECTIONS CADASTRAL CLOUD X-LIVE OUTPUT

Survey New survey Survey codes Point name - Points Point Ref. ce Points - Reference point Photos manager Measures TPS GNSS Traverse PicPoint Calculate Report Transform Tools Delete

Project Manager Graphic view Web Map Properties

Entity  
Type Topographic point

General  
Layer SURVEY-TOPOPOINTS  
Color 0; 0; 0  
Color mode By Layer  
Survey FRAZIONAMENTO ALL...

Properties  
Name 1023  
Code  
Description  
Type GNSS survey point  
Visible   
Use for surface

Position  
E 30.500m  
N 2.076m  
Z -3.441m  
GNSS Position   
Latitude N 44°24'12.1397"  
Longitude E 9°22'53.6420"  
Height 225.836m

Other  
Photos/Sketches 0  
Vocal message No message available

Map Google Satellite Map WMS Server <NONE> Scale 1: 1000 Meters (m) GON

Lat. N 44°24'12.1427", Lon. E 9°22'53.6442" ORTHO SNAP GRID OSNAP AUTOLIST PROMPT

# Kombinált Map nézet – Raszter, Ortofotó

**Import DWG/DXF**

Import DWG/DXF file  
Select file and options

File name:

**Importing topographic points**

Convert points  Yes

Convert blocks  No

Insert topographic points on element main positions  No

Starting name: 100

Next > Cancel

**Export DWG/DXF**

Export DWG/DXF file  
Select file and options

File name: D:\Dat\MPS\StadioFriuli\Export\StadioFriuli.dwg

**Options**

DWG/DXF version: AutoCAD 2000 - 2002

Export 3D  Yes

**Topographic points**

Export points  Yes

Export as block  Yes

Export photos/sketches  Yes

Export X-Plane points  No

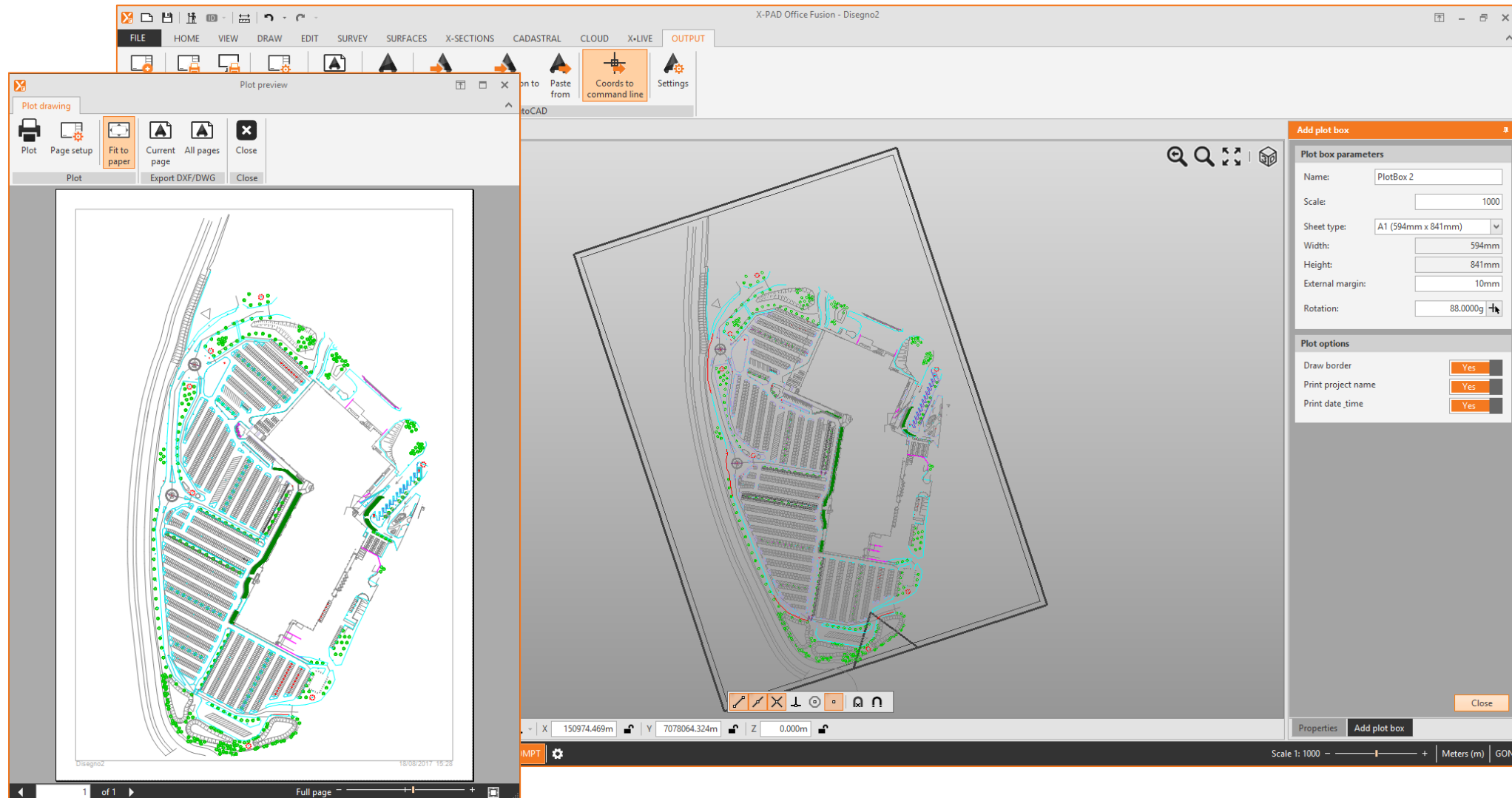
Next > Cancel

**OUTPUT** HOME VIEW DRAW EDIT SURVEY SURFACES X-SECTIONS

DWG/DXF Start AutoCAD Copy all to Copy selection to Paste from Coords to command line Settings

Export AutoCAD

# DXF/DWG Import & Export – Közvetlen link



## Nyomtatási boxok és közvetlen nyomtatás

**Reports**

**Survey**

- Topographic points
- Reference points
- Measurements TPS
- Measurements GNSS**
- Measurements Distance-Distance
- Measurements Alignment and offset

**Surface**

- Triangles
- Volumes (summary)
- Volumes (complete)
- REB22.013

**Report Designer** | Preview

Save All | Cut | Copy | Paste | Undo | Redo

Report | Edit | Font | Alignment | Layout | Zoom | Scripts | Close

Tool Box

- Standard Controls
  - Pointer
  - Label
  - Rich Text
  - Picture Box
  - Table
  - Line
  - Shape
  - Page Info
  - Page Break
  - Cross-band Line
  - Cross-band Box

**\_GNSS\_MJK**

PageHeader [one band per page]

[Information.Project_Header]		[Information.Studio_Header]		[Information.Survey_Header]						
<b>[Information.Title]</b>										
Sorsz.	Név	Kód	Műszer	2D/3D	[Information.E]	[Information.N]	[Information.E]	Ant.mag.	Dátum/Idő	Leírás

GroupHeaderStation

<b>Bázis</b>	[Station Name]	[Station Easting]	<b>Lat.</b>	[Latitude]	<b>Leírás</b>
<b>Kód</b>	[Code]	[Station Northing]	<b>Long.</b>	[Longitude]	[Description]
<b>Bas.Ant.Mag:</b>	[Instrument]	[Station Elevation]	<b>Mag.</b>	[Height]	

GroupHeaderDate

[Record Date]
---------------

Detail

[Use]	[Name]	[Code]	[Measure Type]	[Target type]	[Use Type]	[East]	[North]	[Elevation]	[Target d]	[Record T]	[Description]
-------	--------	--------	----------------	---------------	------------	--------	---------	-------------	------------	------------	---------------

GroupFooterStation

PageFooter [one band per page]

[Information.Project_Name]	[Information.Survey_Name]	<b>GeoSite Kft - 2018</b>	[Information.Cur]
----------------------------	---------------------------	---------------------------	-------------------

X-PAD Office Fusion

Kimenő jegyzőkönyvek automatizálása, testreszabása

## Export

### Field formats

Create X-PAD Survey file

Create instrument file

Upload data to TPS

### Drawing formats

Create DWG/DXF file for AutoCAD

### Topographic data formats

Create Text file document (ASCII)

Create LandXML file

Create Google Earth KML file

Other formats

### 3D formats

Create OBJ file

Create WebGL file

### Create X-

Export data in X-



Export

Export DWG/DXF

**Export DWG/DXF file**  
Select file and options

File name:  
C:\Users\Public\Documents\X-PAD Office Fusion\Göd-NET\_terep\Export\Göd-

**Options**

DWG/DXF version: AutoCAD 2013 - 2014

Export 3D  Yes

Export selected objects(0)  No

**Topographic points**

Export points  Yes

Export as block  Yes

Export photos/sketches  Yes

Export XLive points  No

Next > Cancel

Export Google Earth KML file

**Export Google Earth KML file**  
Select file and data type to export

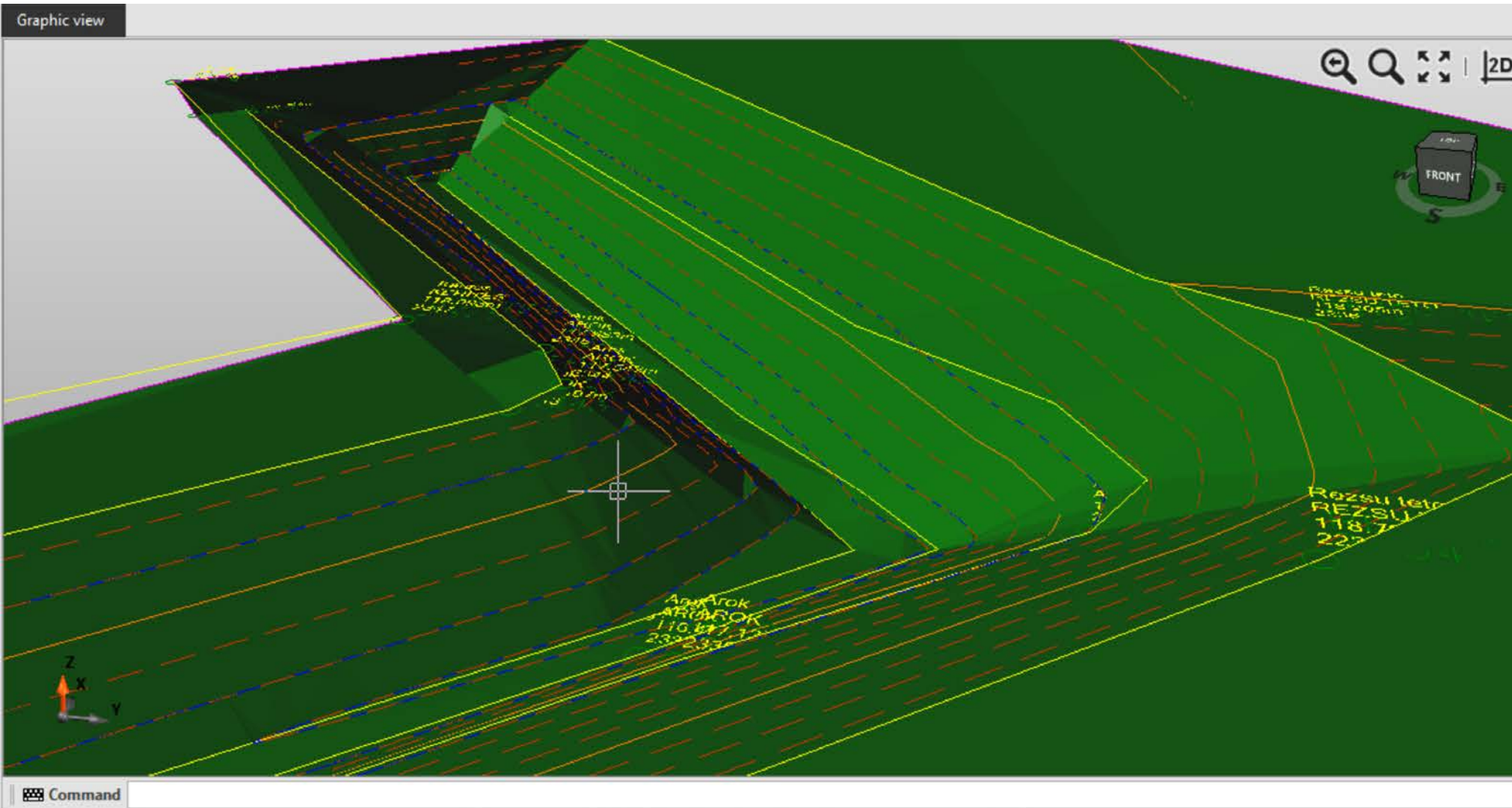
File name:  
C:\Users\Public\Documents\X-PAD Office Fusion\Göd-NET\_terep\Export\Göd-NET\_terep

**Data type to export**

Points	<input checked="" type="checkbox"/> Yes	Elevations:	Absolute
Reference points	<input checked="" type="checkbox"/> Yes	Elevations offset:	0.000m
Measurements	<input checked="" type="checkbox"/> Yes		
Drawing Survey	<input checked="" type="checkbox"/> Yes		
Surfaces	<input checked="" type="checkbox"/> Yes		
Drawing	<input checked="" type="checkbox"/> Yes		

Next > Cancel

Szerteágazó Import/Export lehetőségek



Build surface

Build surface Styles & colors

Build surface

Surface: Net-F2

Surveys and Points cloud

Name	Points	Ele
God-NET	466	

+

 Add 

Remove

Build options

Use breaklines (#62)  Yes

Use boundary lines (#1)  Yes

Ignore points with elevation ze  No

Check triangles side length  No

Max side length: 20.000m

Remove peaks  No

Peak angle (°): 80

Smooth surface  No

Close Build

Properties Build surface

Felület, hossz- és keresztmetszvény, térfogat...



The screenshot shows the GEOMAX software interface. At the top, there is a menu bar with options: FILE, HOME, VIEW, DRAW, EDIT, SUR. Below the menu, there are icons for 'New X-Sections group', 'Settings', and 'Open view'. A 'Plot drawing' toolbar is visible with icons for 'Plot', 'Page setup', 'Fit to paper', 'Current page', 'All pages', and 'Close'. The main workspace is divided into a 'Graphic view' on the left and a 'Plot drawing' window on the right. The 'Graphic view' shows a 3D terrain model with several cross-section lines labeled S3, S4, S5, and S6. The 'Plot drawing' window displays a cross-section for 'Section name: S5'. The plot shows a green profile with vertical hatching, a scale bar, and coordinate data. The scale is 'Scale Dist. 1:200' and 'Scale Elev. 1:100'. The scale bar indicates a length of 105.000m. The plot also shows a 'Base - Point #2' and a 'Scale 1:1000' label. On the right side of the plot, there is a vertical axis with values: 1.000, 117.875m, 52.949m, and 658774.358m. The X-axis value is 261004.150m.

Felület, hossz- és keresztmetszvény, térfogat...

X-PAD Office Fusion - Vannucci

FILE HOME VIEW DRAW EDIT SURVEY SURFACES X-SECTIONS CADASTRAL CLOUD X-LIVE OUTPUT

Survey New survey Survey codes Point name - Points Point Reference point Photos manager Measures TPS Traverse GNSS Move GNSS base Level data manager PicPoint Calculate Report Transform Tools Delete

Project Manager

- Surveys
  - Rilievo principale
  - Heinrich
- Surfaces
- Drawings
  - Disegno principale
  - Heinrich
- Sections groups
- Point clouds (Registered)
- Point clouds (Not registered)
- Raster maps
- Orthophotos
- Projection planes
  - None
- Clipping planes
- Clipping boxes
- Plot boxes
- Views

Graphic view

Command

Photos manager [Heinrich]

20170817_192826_HDR.j	20170820_185336_HDR.j	20170820_185348_HDR.j	100_1.jpg	20170820_185428_HDR.j
17/08/2017 19:28:26 9.3 Mbytes	20/08/2017 18:53:36 10.2 Mbytes	20/08/2017 18:53:48 11.1 Mbytes	20/08/2017 18:54:04 9.4 Mbytes	20/08/2017 18:54:28 7.9 Mbytes
20170820_185450_HDR.j	20170820_185546_HDR.j	20170820_185607_HDR.j	20170820_185626_HDR.j	
20/08/2017 18:54:49 10.6 Mbytes	20/08/2017 18:55:46 8.3 Mbytes	20/08/2017 18:56:07 5.3 Mbytes	20/08/2017 18:56:26 7.2 Mbytes	

Properties

Entity

Type	Topographic point
------	-------------------

General

Layer	RILIEVO-PUNTIPOPO
Color	0; 0; 0
Color mode	By Layer
Survey	Heinrich

Properties

Name	100
Code	STAZIONE
Description	STAZIONE
Type	GNSS survey point
Visible	<input checked="" type="checkbox"/>
Use for surface	<input checked="" type="checkbox"/>

Position

E	
N	
Z	
Z2	
Z difference	
GNSS Position	
Latitude	
Longitude	
Height	

Other

Photos/Sketches	1
Vocal message	No message available

E -4254.867m, N 2984.851m, Z 0.000m ORTHO SNAP GRID OSNAP AUTOLIST PROMPT

Scale 1: 1000 Meters (m) GON

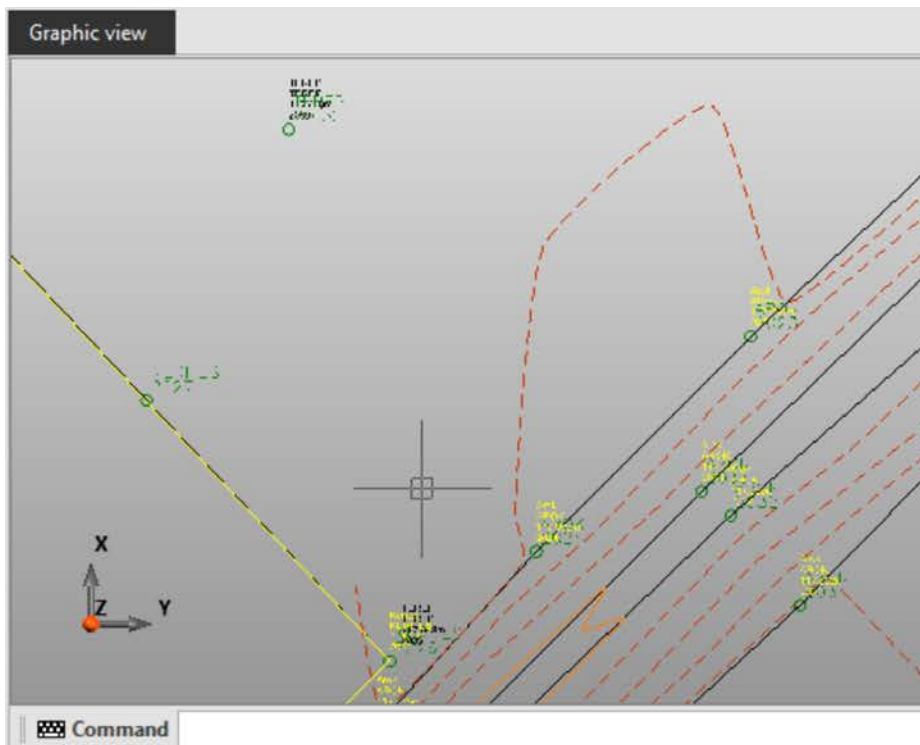
# Hatékony képkezelő

The screenshot displays the X-PAD Office Fusion software interface. The main window shows a 'Survey codes manager' dialog with a table of codes and their descriptions. A 'Symbols and blocks' dialog is also open, showing a list of symbols and a preview of a light pole symbol.

Code	Description	Layer
GARAGE	GARAGE	GARAGE
GRD	GRD	GRD
GUTTER	GUTTER	GUTTER
HOUSE	HOUSE	HOUSE
HUB	HUB	16-CONTROL
HYDRANT	Fire Hydrant	UTILITIES
IP		10-POSTS
LAMP	Lamp	UTILITIES
LANDSCAP	LANDSCAP	LANDSCAP
LP	LP	10-POSTS
NAIL	NAIL	16-CONTROL
NATBDRY	NATBDRY	NATBDRY
O/HANG	O/HANG	O-HANG
OAI	OAI	10-POSTS
OAP	OAP	10-POSTS
OBOXMON	OBOXMON	10-POSTS
OBSC	OBSC	10-POSTS
OCAPPEDP	OCAPPEDP	10-POSTS
OCM		4-MON_TIES
OCN	OCN	16-CONTROL
OCONCP	OCONCP	10-POSTS

Name	Preview
CIRCLE_W	
BOX_W	
FCOPTT	
FEGOUT	
FAVASI	
FAVAVI	
SUMP	
ROAD-SIGN	
TRAFF-LIGHT	
LIGHT-POLE	
SUMP2	
POINT	

## Mérési kód panel & kezelő



Survey settings - [God-NET]

- Survey properties
- Display filters
- Symbols & Labels
- Coordinate system**
- Miscellaneous
- Header

**Coordinate system type**

No system  
WGS84

Local - Single point  
< non definito > Edit...

Local - Site calibration  
< not defined > Edit...

**Cartographic system**  
EOV2014 (HUNGARY\_EOV2014 HD1972EOV GRS67)  
Use the project cartographic system Edit... No

**Vertical system type**

System: HUNGARYEOV2014 Geoids folder...

Offset: 0.000m

OK Cancel

Points [God-NET]

	Type	Light	Name	Code	Y	X	Z	Description	Grid	Print	Info
1		<input checked="" type="checkbox"/>	2001	TEREP	658802.427m	260816.878m	117.754m	TEREP	<input checked="" type="checkbox"/>		
2		<input checked="" type="checkbox"/>	2002	REZSU TETO	658807.531m	260809.840m	118.647m	Rezsú teto	<input checked="" type="checkbox"/>		
3		<input checked="" type="checkbox"/>	2003	REZSU TETO	658807.556m	260804.945m	119.038m	Rezsú teto	<input checked="" type="checkbox"/>		
4		<input checked="" type="checkbox"/>	2004	REZSU TETO	658806.604m	260804.031m	119.118m	Rezsú teto	<input checked="" type="checkbox"/>		
5		<input checked="" type="checkbox"/>	2005	REZSU TETO	658800.593m	260800.433m	118.992m	Rezsú teto	<input checked="" type="checkbox"/>		

Row 1 of 466

YXZ

## Vitel2014 kompatibilitás

Level data manager

Main

Tools: Import, Report, Print graph, View name, View elevation, Vertical text, Graph points, Level sessions, Calculation settings, Close

Level sessions

- A140510 - 1
- A140510 - 2
- A140510 - 3
- A140510 - 4
- A140510 - 5
- A140510 - 6

Graph

**A140510 - 5**

Calculation settings

Observations tolerance

Max distance: 45.000m  
Max elevation difference: 0.0025m

Session tolerance

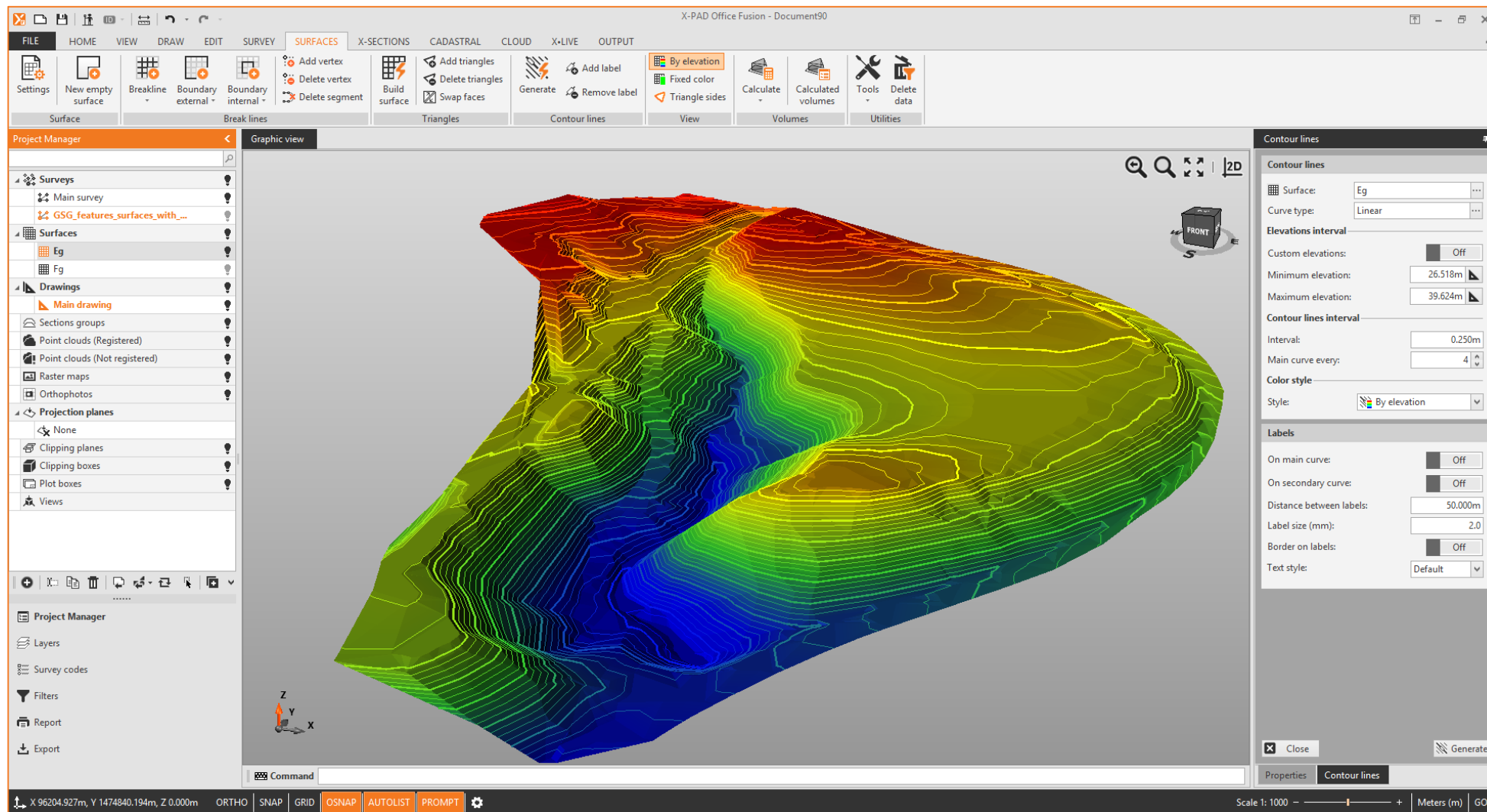
Adjustment method: By Distance  
Error closure: 0.0100m

Point name	Type	BS	IS	FS	Standard Dev.	Distance	Elevation ref.	Elevation
1 36	-	-	-	-	-	-	2.0000m	2.0000m
1 36	BS1	1.6042m	-	-	0.08mm	44.578m	-	-
1 37	FS1	-	-	0.8730m	0.01mm	44.678m	-	-
1 37	FS2	-	-	0.8730m	0.04mm	44.677m	-	-
1 36	BS2	1.6041m	-	-	0.08mm	44.569m	-	-
2 37	-	-	-	-	-	-	-	2.7315m
2 37	BS1	1.6034m	-	-	0.08mm	44.607m	-	-
2 38	FS1	-	-	1.1847m	0.05mm	44.577m	-	-
2 38	FS2	-	-	1.1846m	0.05mm	44.576m	-	-

Row 6 of 121

Distance: -47.912m; Elevation: 10.322m

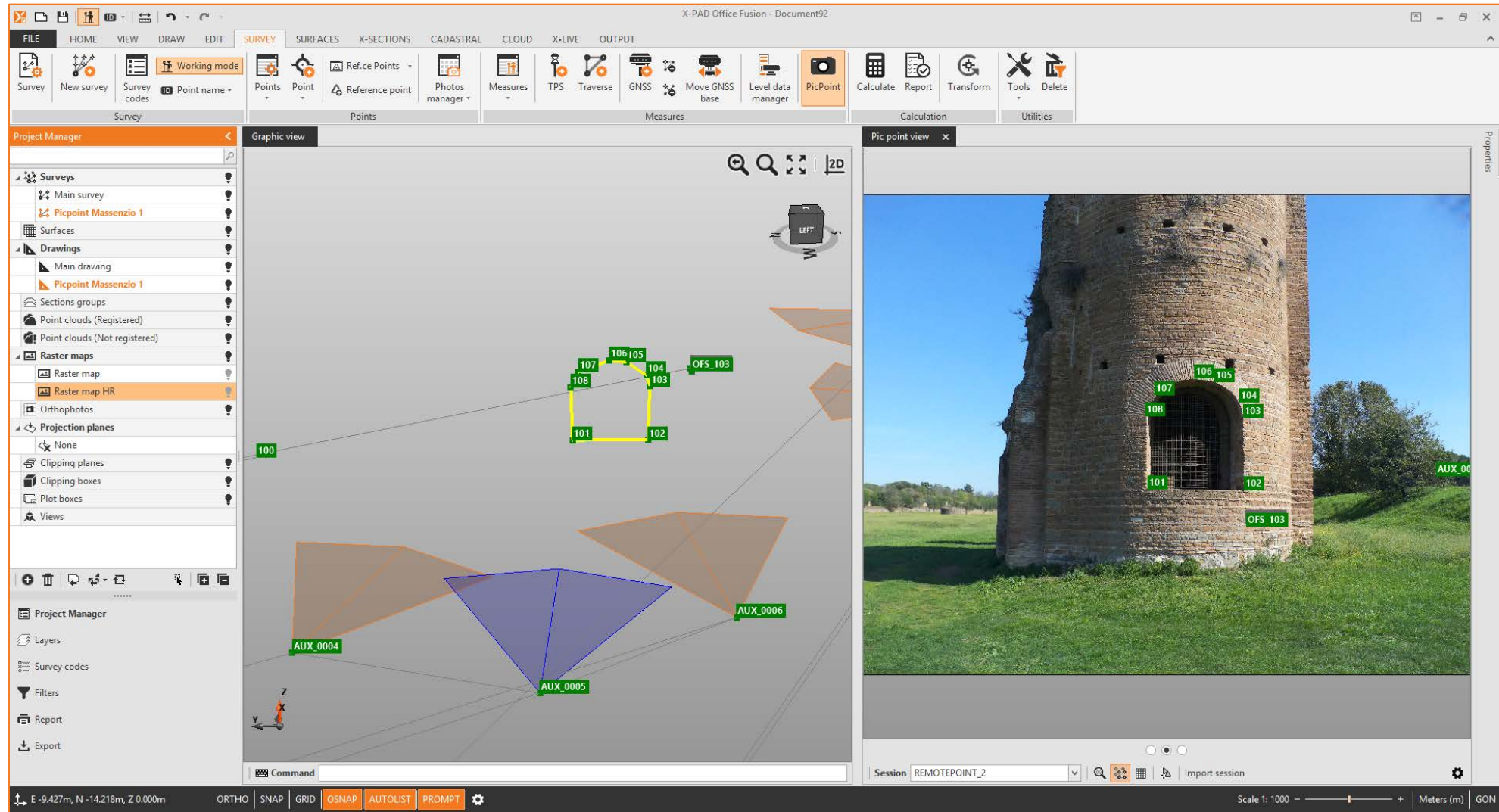
# Digitális szintező támogatás & számítások



## Felületek & Szintvonalak készítése

The screenshot displays the X-PAD Office Fusion software interface. The main window shows a 3D terrain model with a color-coded elevation scale (blue for low, green for medium, yellow/orange for high). The interface includes a top menu bar with options like FILE, HOME, VIEW, DRAW, EDIT, SURVEY, SURFACES, X-SECTIONS, CADASTRAL, CLOUD, X-LIVE, and OUTPUT. Below the menu is a toolbar with various tools for surface and volume manipulation. On the left, there is a Project Manager panel with a tree view of project elements. On the right, a 'Volume calculation' panel is open, showing settings for 'Surfaces difference' (Surface 1: Material 3D, Surface 2: Existing ground) and 'Calculation options' (Calculate by grid: No, Cut swell factor: 1.000, Calculate weight: No, Save details data: Yes, Save elevation differences model: Yes). The bottom status bar shows coordinates (X: 2341023.318m, Y: 5111200.577m, Z: 0.000m), projection (ORTHO), and scale (Scale 1: 1000, Meters (m) | GON).

# Térfogatszámítás



## Pic-Point mérési funkciók





## Az első 3DSurvey Workshop Magyarországon !

Megmutatjuk, hogyan növelheti drón alkalmazásával a földmérési tevékenységének hatékonyságát. A munkaterület felderítése és feltérképezése dronok használatával, a képfeldolgozáson keresztül a felmérés eredményeinek létrehozásáig. A 3DSurvey fejlesztői megosztják tapasztalataikat és valós esettanulmányaikat arról, hogyan lehet a legjobban kihasználni a drónokat és a fotogrammetriát területek különböző célú felmérésben. Konzultációs lehetőség a fejlesztőkkel.

**Helyszín:** Székesfehérvár, Pirosalma u. 1-3 ("Geo")

**Időpont:** 2018. április 20. 10-14 óra

GEOMAX

X-PAD  
for Android™

X<sub>E</sub>  
X-PAD  
FUSION

GEOSITE



*Köszönöm a figyelmet!*

