

## Bentley Map V8i (SELECTseries 3)

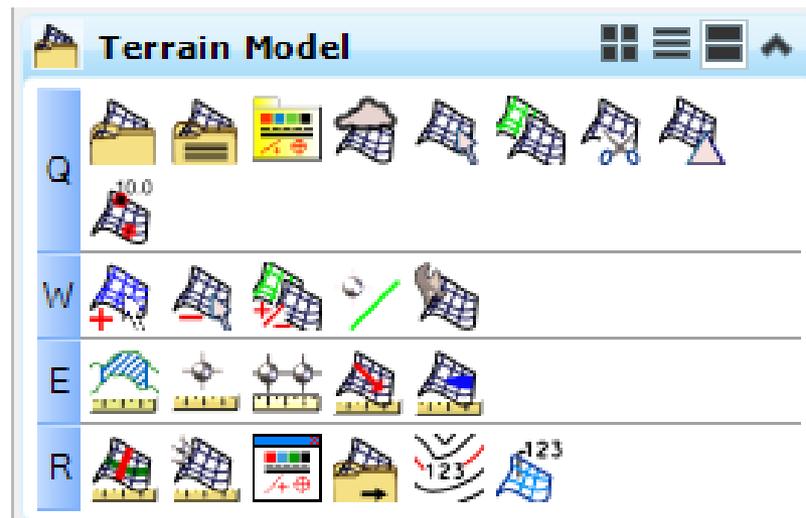
Tech Preview – Survey capabilities

# Why survey capabilities in a GIS?

- Need to integrate survey data in GIS workflows
- Need to perform Quality Control and correction in the GIS environment.
- Need for DTM creation & analysis tools

# Survey Tools – Technology Preview

- Civil and Map features are different
- At this time there is no tool to define civil features
- The DTM tools are available in the standard delivery
- The Survey Tools are enabled by defining a variable

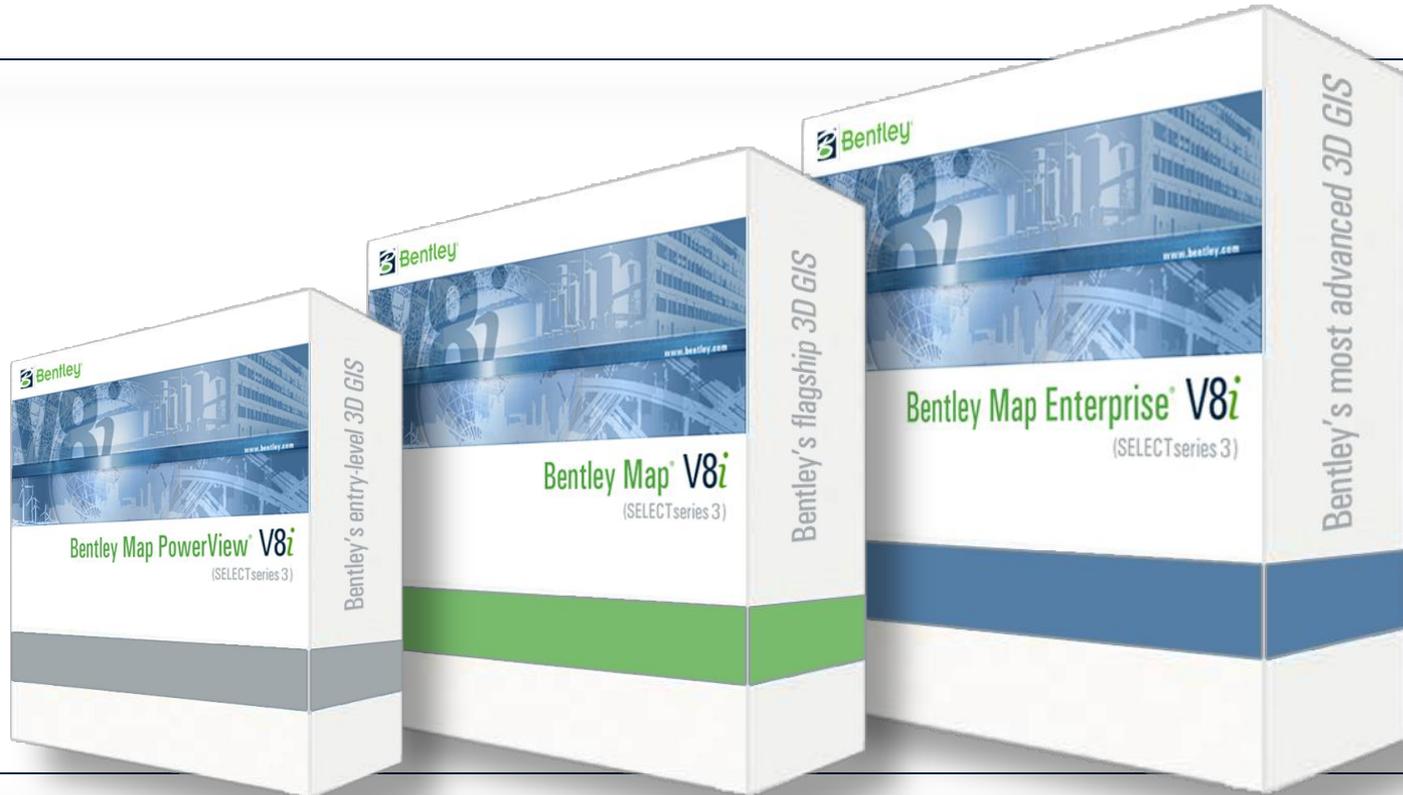


**MS\_GEOSURVEY\_TCHPREVIEW = 1**

# What is provided? Features?

- A survey module providing
  - Survey measurement import capabilities.
  - Measurement processing capabilities: from observations to accurate/optimized features
  - Powerful real time quality control capabilities.
  
- Terrain Capabilities
  - Creation tools
  - Analysis tools

# Which version ?



**Bentley Map & Map Enterprise SS3 V8i – MR1  
(coming soon)**

# Future Developments

- Better integration between Civil and GIS features
  - Feature definition
  - Conversion
  
- Better integration between Civil Terrain and STM
  - From Civil terrain to STM (works today)
  - From STM to Civil (limited today to specified size in MB for the entire STM)

# How can I get started?

- Product will be shipped with dataset and integration notes
- No additional installation required. Only some variable configuration.
- Ask questions on the dedicated Bentley community

# Step by step demo

# Data sample

File	Type
SurveyExample.xin	Survey Style file (InRoads)
SurveyExample.cel	Cell library
SurveyExample.dgn	Seed file
SurveyExample.rw5	Sample data file

# Configuring the variable

Variable	Value	Role
MS_GEOSURVEY_TECHPREVIEW	1	Enable the tech preview capabilities.
CIVIL_SURVEY_STYLEFILE	path\SurveyExample.xin	Define the style to be used to display Civil features – it is required to show properly elements. It can be also set dynamically during the session.

The most efficient way is likely to do this in a GSA project!

# Configuring the variable

Bentley Geospatial Administrator - eastcitySS3.xml

File Edit Tools Help

Back Forward New Open Save Export Undo Redo

Schema Search

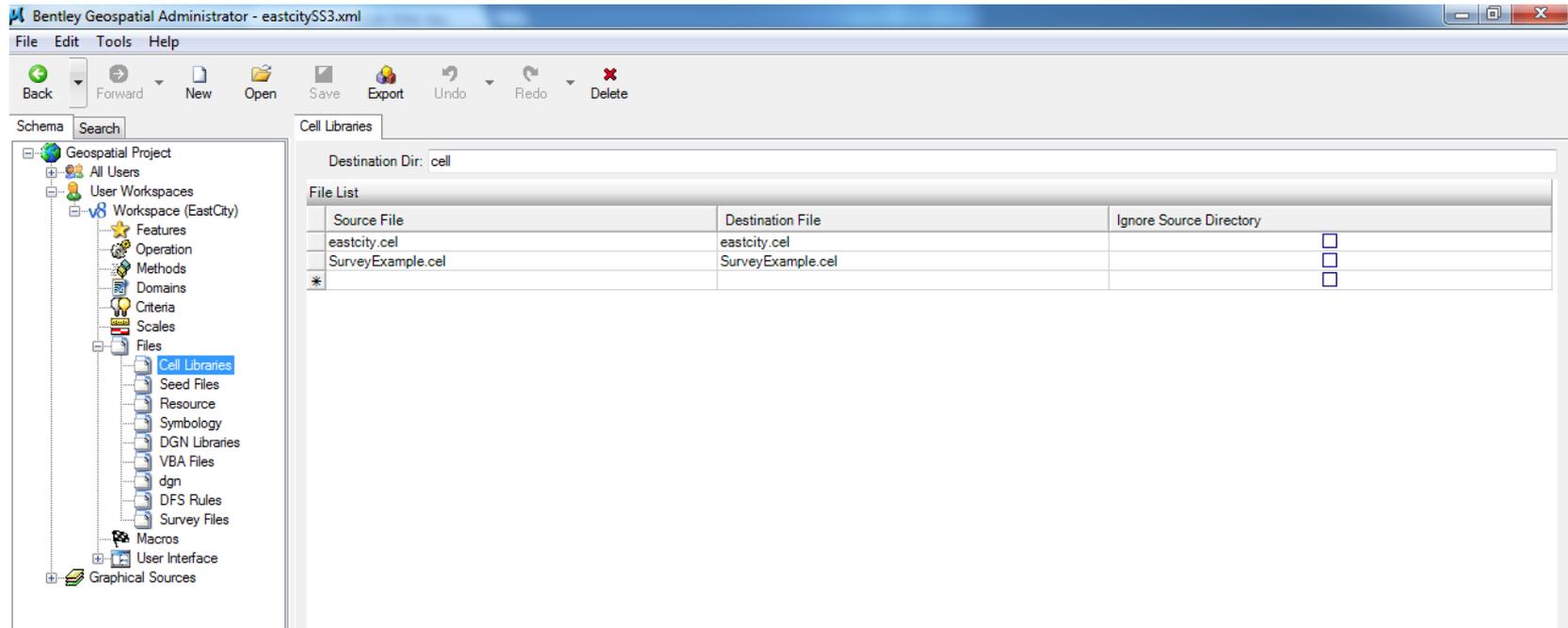
Geospatial Project

- All Users
- User Workspaces
  - Workspace (EastCity)
    - Features
    - Operation
    - Methods
    - Domains
    - Criteria
    - Scales
    - Files
    - Macros
    - User Interface
    - Graphical Sources

Macros

Name	Operator	Value	Comment
MS_DESIGNSEED	=	seed2d.dgn	Default seed file
MS_GEOXFM_CREATE_ORPHAN_FOR_MISSING_CELLS	=	1	Flag to create orphan cell XML when specified cell is missing
MS_GEOCOORDINATE_FAVORITESFILES	=	c:\projects\eastcity\rsc\CountyA.xml	Favourites CS file
MS_GEODBCONNECT	=	1	Connect database
MS_GEOCOORDINATE_USERLIBRARIES	=	c:\projects\eastcity\rsc\EastCity.dty	Custom CS library
_USTN_DATABASENAME	=	ODBC	Database server type
MS_GEOINITCMD	>	db=eastcity	Database connect string
MS_FONTPATH	>	\$(MS_GEOWSHOME)\symlfont.rsc	Font lib
MS_GEOPRINTPREP_DGNLIBLIST	>	\$(MS_GEOWSHOME)\dgnlib\EastCity.dgnlib	Define the print prep borders
MS_GEOXFM_DYNAMICFEATURESCORING_FILES	<	\$(MS_GEOWSHOME)\dfs*.xml	Custom DFS rules
MS_PRINTPREP_SCALEFORMAT	=	K:%.0f	Scale format
MS_PRINTPREP_DATEFORMAT	=	%Y%m%d	Date format
MS_PRINTPREP_TIMEFORMAT	=	%H:%M	Time Format
MS_GEO_MAPDEFINITIONSEED_FILENAME	=	c:\projects\eastcity\rsc\EastCitySeedMap.dgn	Seed Map DGN
MS_GEO_MAPDEFINITIONSEED_MODELNAME	=	SeedMap	Seed Model
MS_GEOSURVEY_TECHPREVIEW	=	1	Enable survey tools
CIVL_SURVEY_STYLEFILE	=	\$(MS_GEOWSHOME)\survey\SurveyExample.xin	Civil style file
*			

# Putting the cells file required by civil tools



# Demo – Importing data – and QA