



SEPM X-Raster

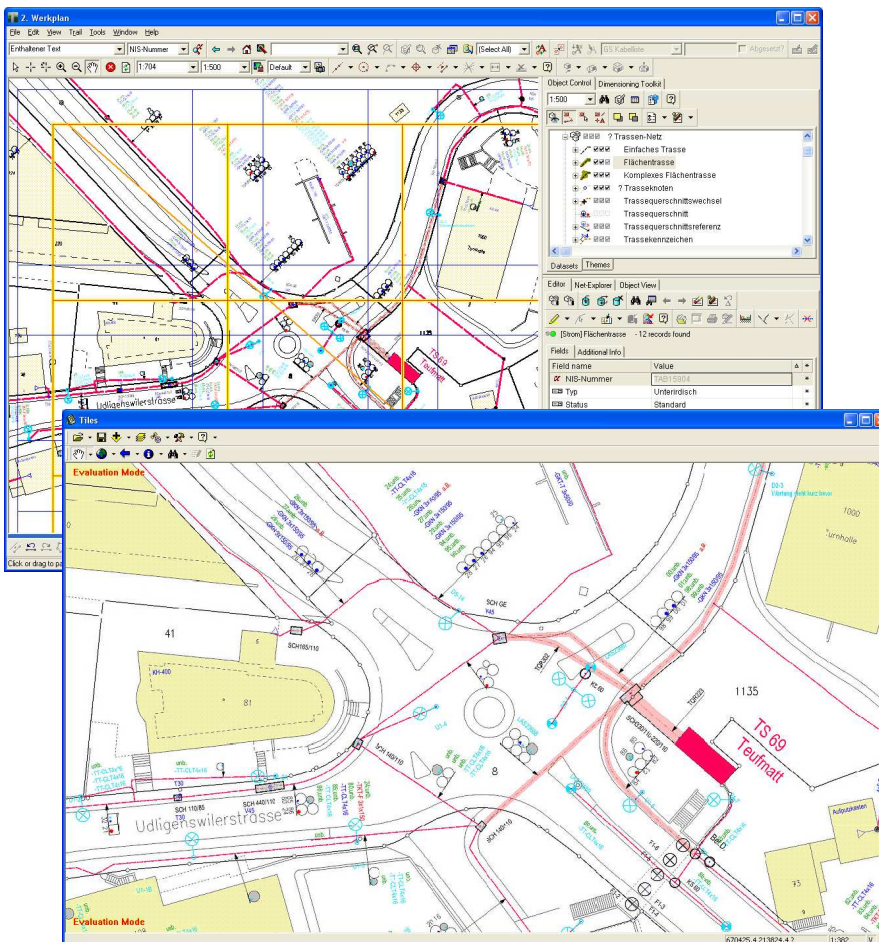
Raster Export and Import for Smallworld

Export: Smallworld data (raster and vector) is exported to **raster tiles** in different formats. Import: A big number of raster files are imported in a **batch** process

Raster Export: Applications

SEPM X-Raster Export covers the following use cases:

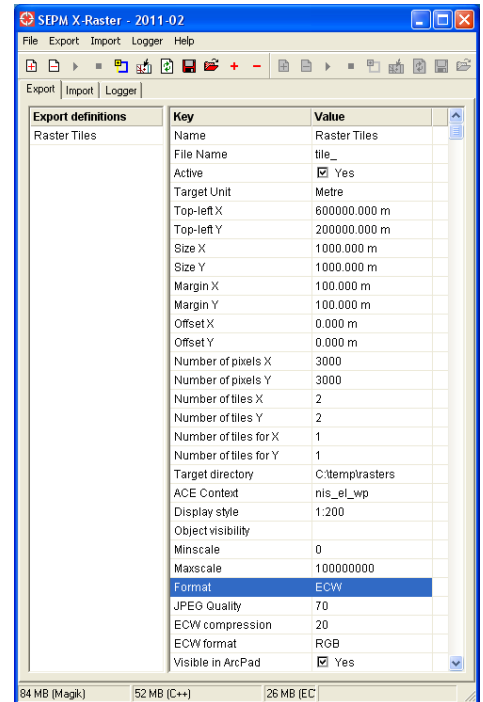
- ❖ **Data delivery in raster form:** for data consumers, that should not receive vectors
- ❖ **Archiving:** take a snap shot of the GIS data base at a given date
- ❖ **Save scanned raster files** If you have loaded, trimmed and geocoded scanned raster images into Smallworld, the raster export lets you store this data in an open format.
- ❖ As part of an **information solution**



Smallworld-data displayed in a Viewer

Formats Export

- + JPEG
- + PNG
- + ECW
- + TIFF uncompressed
- + TIFF LZW



X-Raster Export User Interface

Features

- + Configurable parameters
Tile size in x and y directions
Pixel size in x and y directions
- + Configurable "margin"
The rendering is done in the defined tile area enlarged with the margin to take texts and symbols outside of the tile area into account
- + Aggregation of tiles
Adjacent tiles can be merged into one big raster file
- + Positioning information
World File is created for automatic geographic positioning in the target system
- + Project information
ArcPad and ArcExplorer project files are generated
- + Use as engine
Application developers can integrate X-Raster for specific data transfer requirements
Example: Integration into a Web-GIS-solution ("Download to TIFF")



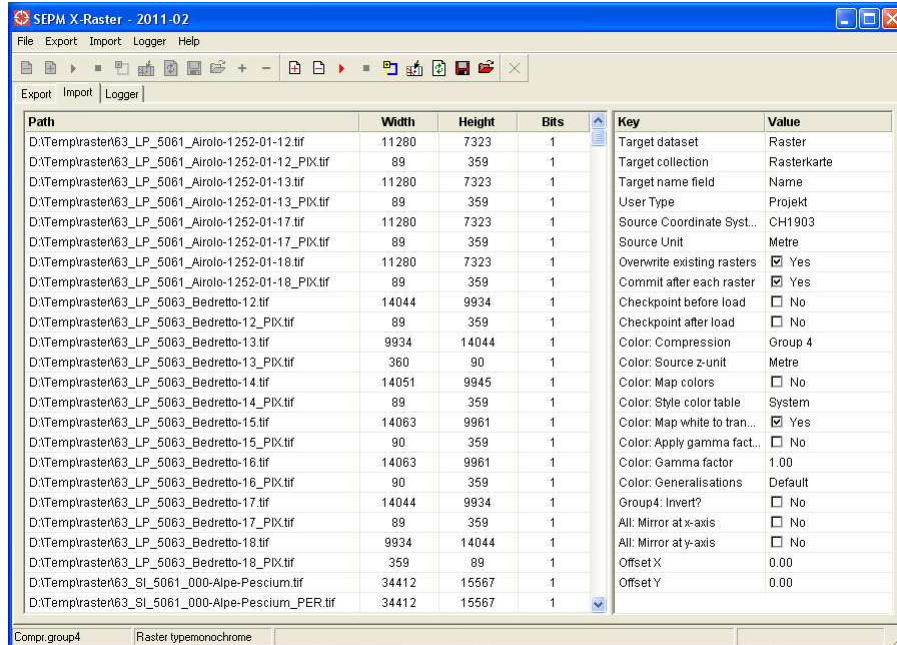
Formats Import

- ⊕ BMP
- ⊕ TIFF uncompressed
- ⊕ PNG (Smallworld 4.2 or higher)

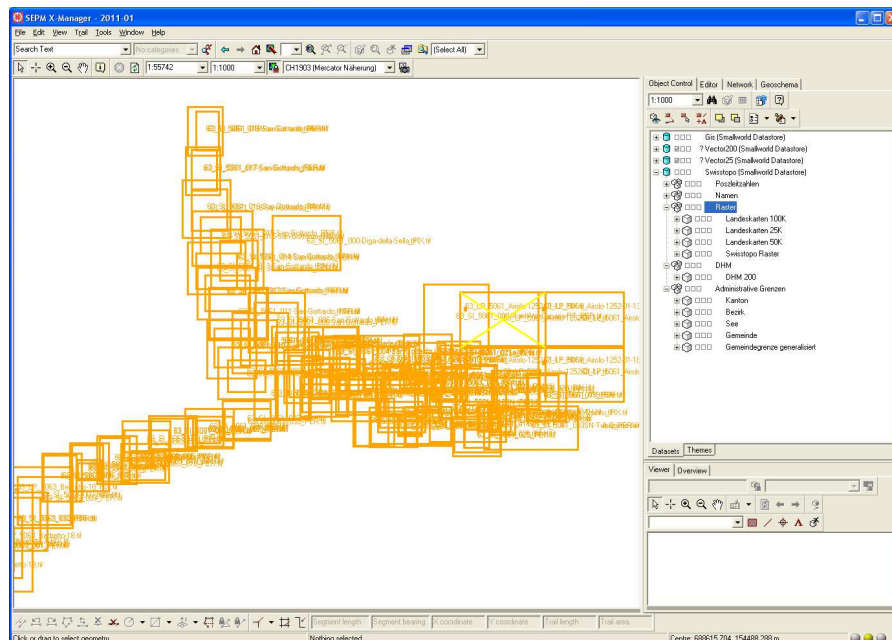
Raster Import: Applications

Der SEPM X-Raster Import covers the following use cases:

- ❖ **Batch-Import** of a big number of raster files



X-Raster Import: Select a directory with raster files; select the target collection and raster geometry



Before the actual import you can see the outline and file names of the data to load

Key	Value
Target dataset	Raster
Target collection	Rasterkarte
Target name field	Name
User Type	Projekt
Source Coordinate Syst...	CH1903
Source Unit	Metre
Overwrite existing rasters	<input checked="" type="checkbox"/> Yes
Commit after each raster	<input checked="" type="checkbox"/> Yes
Checkpoint before load	<input type="checkbox"/> No
Checkpoint after load	<input type="checkbox"/> No
Color: Compression	Group 4
Color: Source z-unit	Metre
Color: Map colors	<input type="checkbox"/> No
Color: Style color table	System
Color: Map white to tran...	<input checked="" type="checkbox"/> Yes
Color: Apply gamma fact...	<input type="checkbox"/> No
Color: Gamma factor	1.00
Color: Generalisations	Default
Group4: Invert?	<input type="checkbox"/> No
All: Mirror at x-axis	<input type="checkbox"/> No
All: Mirror at y-axis	<input type="checkbox"/> No
Offset X	0.00
Offset Y	0.00

X-Raster Import User Interface

Features

- ⊕ **Configurable parameters**
All parameters of the underlying Smallworld raster import streams can be set
- ⊕ **Other parameters**
 - ❖ Offset X/Y
 - ❖ Mirror at x or y axis
- ⊕ **Positioning information**
A TFW file ("world file") with positioning information is evaluated
- ⊕ **GeoTIFF**
The positioning information of a GeoTIFF file can be read, if the corresponding transform is affine
- ⊕ **Preview**
Before the import the outlines and file names of the files to load are shown
- ⊕ **Update**
By using the file name and the 'target