

# Focus on Digital Cartography

## Overview

Mapping information is strategic for the deployment or management of a network. ATDI have accumulated a sizeable catalogue of existing worldwide cartographic data. That information is stored on ATDI's large-scale servers. The ATDI mapping department can produce or convert any type of data including digital reference mapping (maps, satellite photos, aerial images, etc.), land occupancy or Digital Elevation Models (DEM). ATDI can provide a comprehensive list of solutions and services, including:

- **System integration & Management solutions**
- **Acquiring data**
- **Data sourcing**
- **Data production**
- **Mapping services**

With the help of dedicated import and generation tools, it becomes easy to manage any kind of data layer (2D, 3D, Vector, Raster, Outdoor and Indoor...) with resolutions from 0.01m to 100m.

## All standard GIS formats can be easily managed

ATDI radio planning tools (ICS designer, ICS telecom and HTZ warfare) combined with ICS map server (cartographic workshop) it becomes easy to import or export the most commonly used GIS formats:

- **2D raster formats (8 bits)**

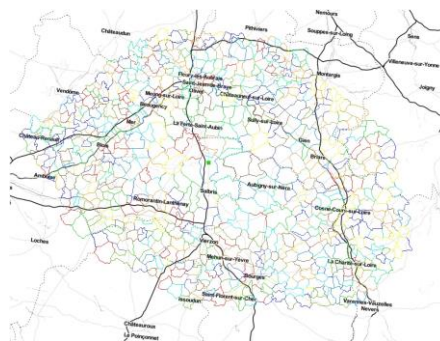
TIFF (8 bits, 24 bits), BMP, JPEG, PNG, BIL, ASRP, USRP, ADRG, MrSid, ERDAS img, Landsat (7 and 8) SPOT5...

- **3D raster formats (16 bits)**

ASTER TIFF, TIFF 32 bits, LIDAR, SRTM (3 arc-secs and 1 arc-sec), DTED, SDTS, DEM, GST, ADF, LDF, GRD\_Ascii, BIL, Ascii Grid, ERDAS img, ...

- **Vector formats**

Shapefile, Mif/Mid, DXF, Google Earth KML, Open Street Map OSM.



Vector layer

## Create DTM, Clutter and Building layers from free sources

Thanks to dedicated features, ATDI tools can generate cartographic layers from different open sources.

- **Create DTM layer**

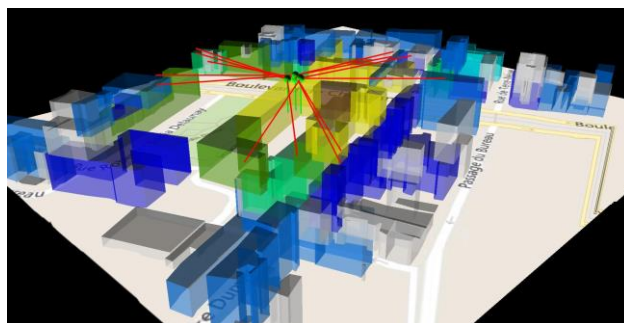
Import SRTM 3 arc-secs sources with the World Wide Builder featured by ICS map server to 50-100m resolution DTM.

Import SRTM 1 arc-sec stereoscopic sources to medium resolution (20-25m) DTM directly with ICS telecom, ICS designer and HTZ warfare

- **Create ground occupancy and building layers**

Import Landsat sources with the World Wide Builder featured by ICS map server to 50-100m resolution Clutter.

Use the Clutter and Buildings Builder to create/update the clutter and building layers with resolutions from 1m to medium resolution from different open sources: Open Street Map, Corine Land Cover...



Building layer

# More than 20 years of experience in cartographic data management (sourcing, production, conversion, ...)

## Cartographic Solutions and Services

- **System integration & Management solutions**

ATDI has developed complete networking, sharing and management solutions for mapping information. Large volumes of data in different coordinate reference systems need to be manipulated to process geographic information. Intranet and Internet solutions can make all these geographic data easily accessible to users in the company, performing complex calculations whenever it is necessary.

- **Data acquisition**

ATDI's expert cartographers can help you acquire and validate raw data. Once ATDI has confirmed the quality of the data, its acquisition is swift. The aerial photos, ground control points, satellite images and maps are then processed and formatted for the customers. ATDI has developed a network of local cartographic partners, and is official dealer of the French National Geographic Institute (IGN), and of the UK Ordnance Survey.

- **Data sourcing**

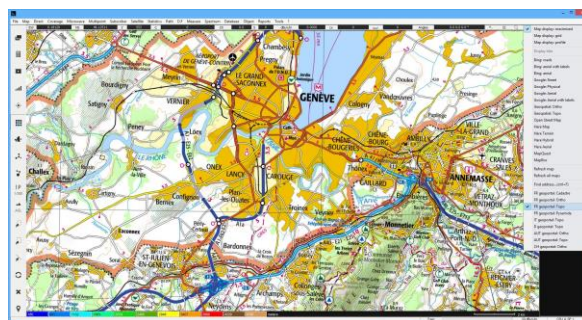
ATDI's skilled professionals have accrued extensive experience in the sourcing of existing cartographic data. Using our partnerships with industry leaders and government agencies around the world, we can identify quickly existing data sets and ensure their quality.

- **Data Production**

In addition to providing the software used to create the digital images and layers needed for radio planning, ATDI also has impressive production capabilities. Our cartographic department manages a large high resolution laboratory, with extensive production capabilities in digital stereo restitution and high resolution digitizing.



World DTM



WMS/WMTS Geoportals

## Free cartography & Online maps

A comprehensive list of nationwide datasets can be downloaded free from our Web site ([www.atdi.com/cartography](http://www.atdi.com/cartography)) including DTM, Clutter, Population database at medium and high resolutions (depending on the area). This list is regularly improved and updated.

ATDI radio planning and spectrum management tools are well known for handling various types of cartographic data. This is now completed with support of latest **Online Maps** (Worldwide and National geoportals) featuring:

- Multi-maps, multi-resolutions from WMS and WMTS servers
- On the fly geocoding (more than 1 000 projections)
- Geocoding and Reverse Geocoding (addresses)
- Up to zoom level 21
- Multi-maps builder
- Aerial photography, Satellite images, Plans, Topographic maps, Cadaster, Street maps
- Worldwide maps: Bing, Google, Here, Open Street Map, MapQuest, Open Topo Map, Apple, NASA, ...
- National maps: United kingdom, New-Zealand, USA, France, Croatia, Italy, Poland, Lithuania, Norway, Sweden, Spain, South-Africa, Portugal, Belgium, Germany, Denmark, Austria, CZ...
- Street view



Street view