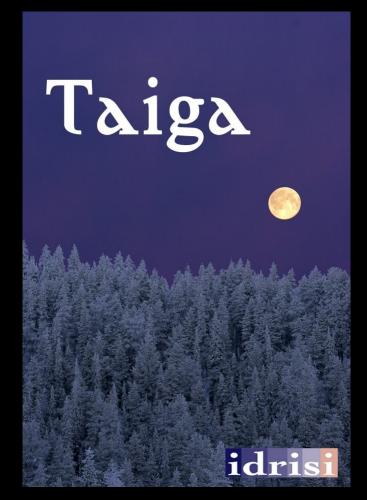






Idrisi Taiga

- Clark Labs (Clark University) since 1987 (Prof. Ron Eastman)
- GIS Idrisi has been used for teaching at LDF since 1996 (Prof. Vladimír Židek)
- Idrisi Resource Center since 1997 (together with LF in Zvolen)
- 32-bit predominantly raster system supporting vector data format
- Image processing mosaicking, transformation, classification (including hyperspectral images)
- Abu Abd Allah Muhammed al-Idrisi (1100 1166 A.H.)

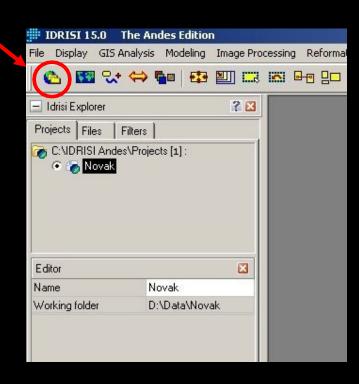


IDRISI Environment: data path

Setting up a new project:

- Run Idrisi Explorer
- On the Projects tab, right-click and set the path in the dialog box:
- D:\Data\... (your own directory)

- The project name can be set in the Editor at the bottom of the Projects tab.
- The Files tab shows the data and files contained in the project
- The Filters tab allows you to filter files visible in the Files tab



IDRISI: DISPLAY Launcher

To display a raster image or vector data



Direct data display: from the file list in Idrisi Explorer



Geomatica

- Canadian company PCI Geomatics founded in 1982
- Specializing in DPZ, digital photogrammetry, spatial analysis, maps, automated systems
- Support for about 100 raster and vector formats
- Latest version: geomatica 10.3

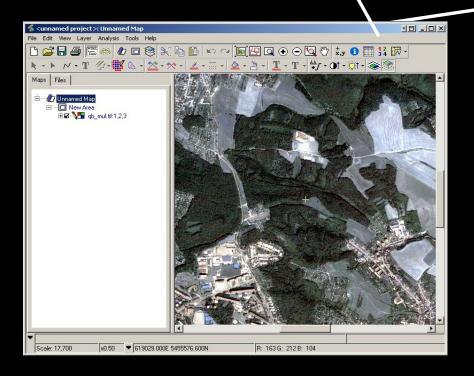






Geomatica environment

Geomatica Focus module trigger ball Geomatica Toolbar V10.0.3





Modeler

EASI

FLY!

Chip Manager

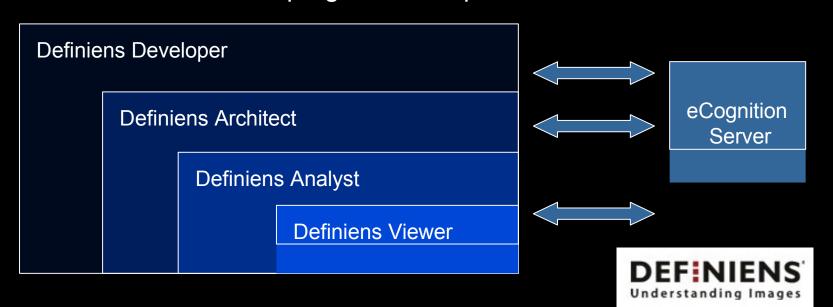
GeoRaster Metadata Mapper

Web, Help, Toggle, Exit



Definiens Eterprise Image Intelligence

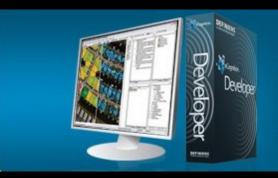
- Definiens was founded in 1994 by Nobel Prize winner in Physics (1986) Professor Gerd Binning
- Its headquarters are in Munich
- In 2000, the eCognition software object-oriented image processing based on multiresolution segmentation was launched
- With version 5.0 the name was changed to Definiens Professional
- Since version 7.0 new program concept:





Definiens Eterprise Image Intelligence

- November 2009: new version of eCognition Developer 8.0
 - Two working environments: the QuickMap and the Developer
 - Analysis of raster and vector data, even point clouds
 - Several segmentation algorithms
 - Intuitive control



eCognition Developer 8 for Earth Sciences

The most powerful developement environment available for object-based image analysis

GIS GRASS

(Geographic Resources Analysis Support System)

- Development since 1982 U.S. Army Corps of Engineer/CERL (Construction Engineering Research Lab), later released to the public and developed in a university environment. Today a team of developers from many countries, coordination center in Trento, Italy.
- Open source software (General Public License), available for free on the Internet (http://grass.itc.it/)
- Full-featured raster-vector GIS with GUI and text-based user interface



- For OS GNU/Linux, Windows, MacOSX
- Application in DPZ image data preprocessing Fourier transform, principal component analysis, filtering, georeferencing, orthorectification, supervised and unsupervised classification (maximum classifiers) probabilities and SMAP (sequential maximum a posteriori)), Brovey's transformations, LIDAR data