



Netcad GIS – NETSURF

Users can produce numerical models in many details from all kinds of data and perform analysis on their models with Netsurf. Users can edit models that are received ready or produced in different formats simultaneously with 3D support.

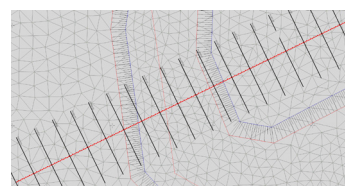
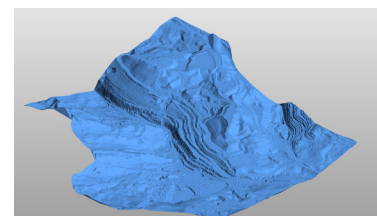
Users can create base maps with all stages. Cross-section and longitudinal-section operations can be performed. Volume calculations can be performed from cross-sections, prismatic or point cloud data with different methods.

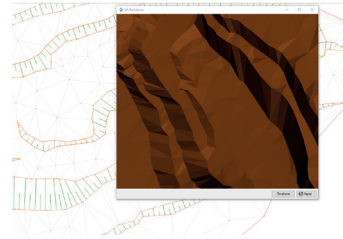
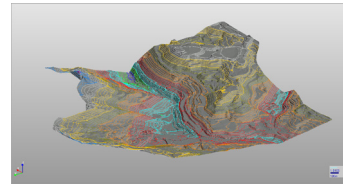
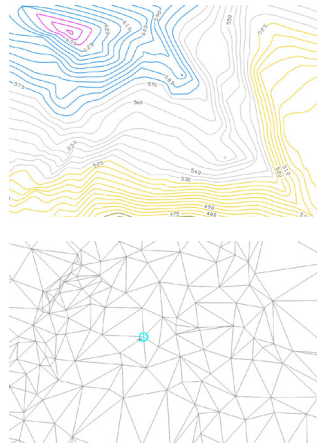
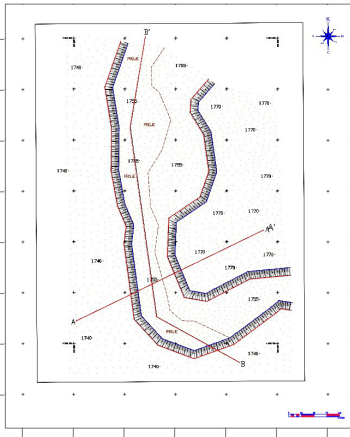
Prerequisites

NETCAD GIS is mandatory for all NETCAD modules.

KEY FEATURES

- ✔ Digital terrain or elevation models can be created. Models can be created from raster or vector data formats. Models from all different formats can be produced, especially data such as E00, shp, dxf, dgn, dwg.
- ✔ The produced models can be edited simultaneously with the 3D display option. Triangles can be rotated with 3D displaying and new triangles can be added.
- ✔ Models can be created automatically from *.shp, *.e00 data in a single process. Users can automatically create a triangle model from LandXML-formatted XML files.
- ✔ Possible faults on the models and the triangles can be revealed in defined criteria. You can reveal the triangles that do not meet the determined criteria and automatically detect the incorrect triangles. After all these processes, you can remodel. You can follow these operations with the 3D screen.
- ✔ Analysis can be performed on models that are produced or received in different formats. Incorrect triangles can be found automatically. Triangles can be changed according to the desired intervals. After all these processes, model can be created again.
- ✔ You can control the incompatible elevations on the digital terrain model according to neighboring points or the closest point. Desired points can be deleted on the model and new points can be instantly integrated into the model. You can add different area or line geometries such as a building with elevation on the model and update your model accordingly.
- ✔ You can automatically combine your different model files. You can produce a single model by combining them with each other.
- ✔ You can perform density analysis.
- ✔ Thiessen areas can be created. Outer borders can be defined.
- ✔ The points in the triangle model can be deleted with a single operation, the triangles connected to the relevant point can be automatically re-triangulated according to the neighboring points.
- ✔ Models can be produced from the data that has elevation value with all kinds of geometry such as point, line, curve, area, polyline, circle, text, symbol, and block.
- ✔ The non-triangulated empty spaces in the triangle model can be filled by the software with reference to the existing triangles.
- ✔ Model boundaries can be found, selected areas within models can be cut, model points can be added to the CAD screen as points
- ✔ Broken lines such as scarps can be added on the produced model according to the selected parameters.
- ✔ When creating models, broken lines such as building scarps can be defined. During the production of the models, minimum elevation, maximum elevation, maximum triangle edge, minimum triangle edge, intervals that will not be modeled can be defined.
- ✔ Contour lines can be produced.
- ✔ Scarps can be created optionally in accordance with regulations. Special scarp hatches can be created for the scarps of the inside stream, hill and hollow types. Scarp hatches are cartographic quality. Hatch range can be determined as short, long or scarp line rate can be given.
- ✔ Curves between selected area or polylines can be deleted. Deleted curves can be brought back if desired.

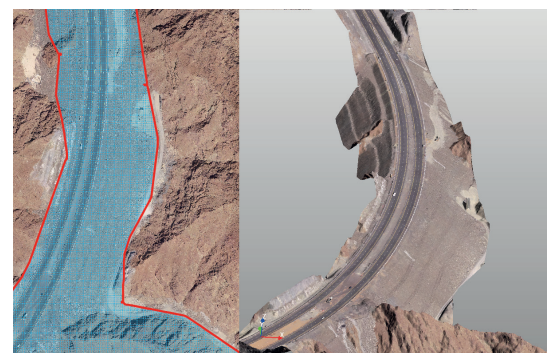
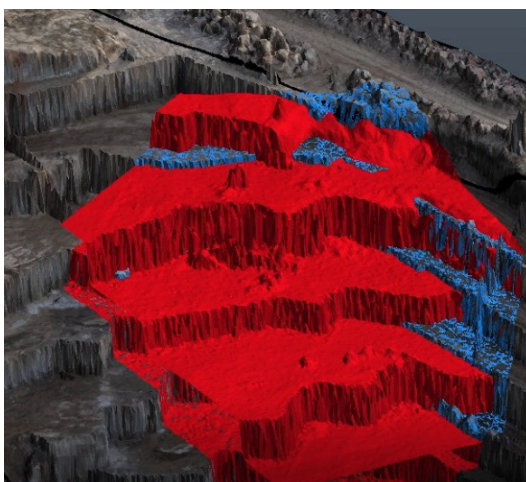
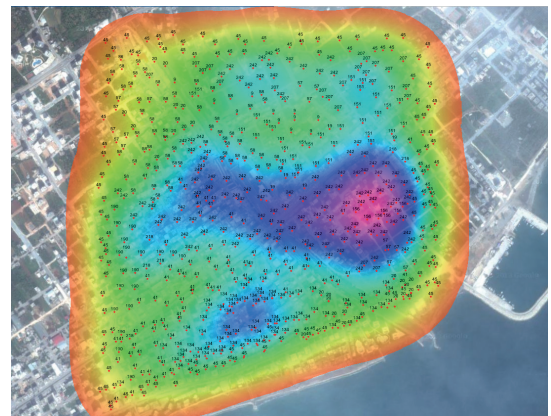


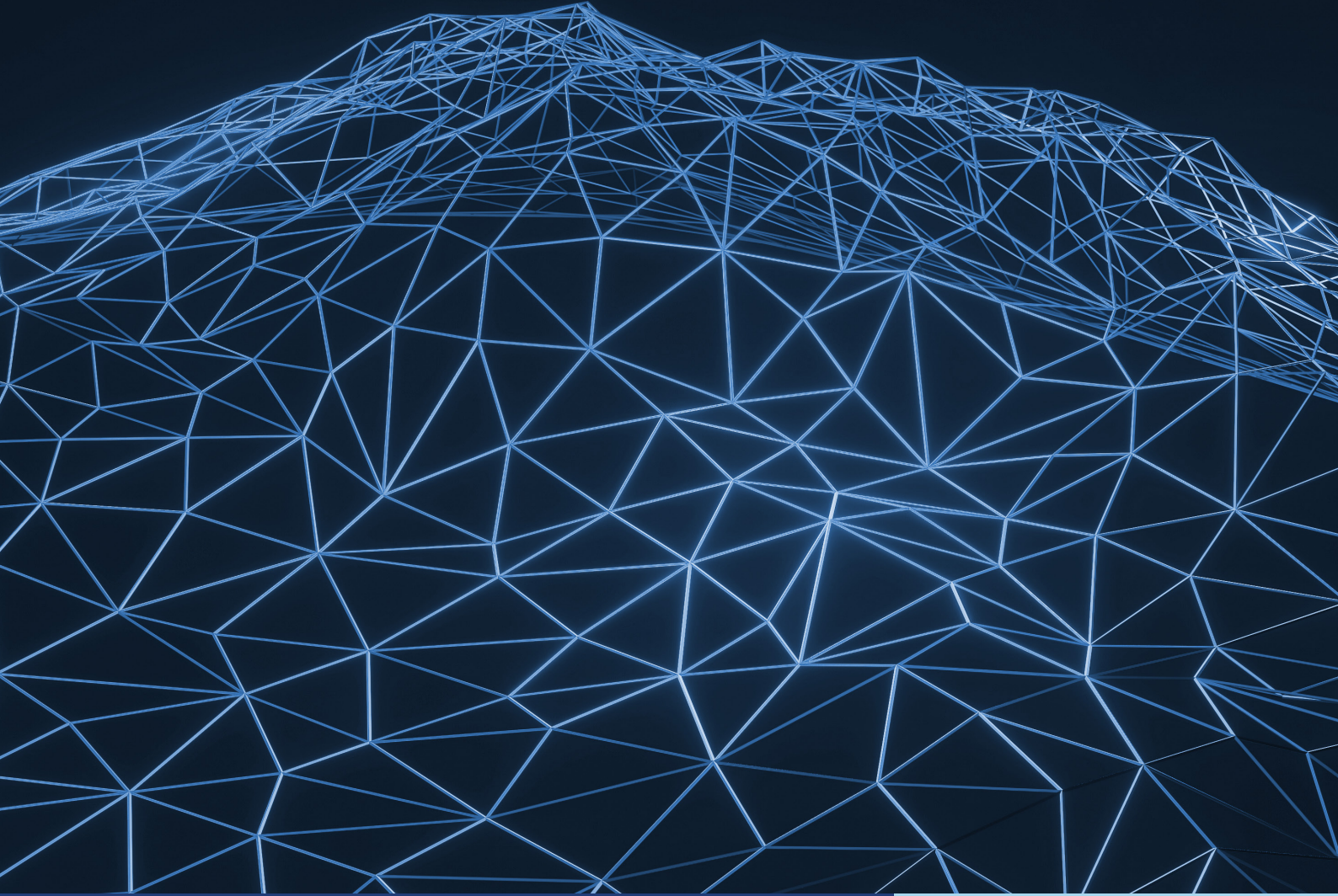


- ✔ Elevation values can be displayed on the contour lines.
- ✔ Elevation values can be displayed at the points where a line to be created intersects contour curves or according to the intervals defined on the curve.
- ✔ You can add cross-section dimensional drawings to the screen as a point object with elevations and sequential names.
- ✔ The route can be defined. Cross-sections depending on the route can be created.
- ✔ You can create cross-sections and profiles.
- ✔ You can calculate the volume. Volume calculation can be made both cross-section based and as prismatic. You can use different methods to calculate the volume from cross-sections.
- ✔ Volume calculation can be performed according to a certain ground elevation.
- ✔ Volume calculation can be performed between 2 different point clouds data.
- ✔ Profiles can be quickly taken from selected points and added to the screen.
- ✔ You can create grid points with elevation values on the triangle model with the desired parameters.
- ✔ You can get the elevation differences between models, can be work with them as text or points on the CAD screen.
- ✔ Surface area can be calculated from selected triangles.
- ✔ Objects elevation adjustments can be done in order to follow the model surface.

KEY BENEFITS

- ✔ Ability to work with all file types
- ✔ Digital terrain model production with all details
- ✔ Model editing operations with 2D & 3D
- ✔ Automatic model analysis
- ✔ Automatic model control
- ✔ Surface analysis
- ✔ Automatic model combining
- ✔ Analysis for elevation differences between different models.
- ✔ Section operations
- ✔ Profile operations





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