

## SpacEyes – creation of Forest

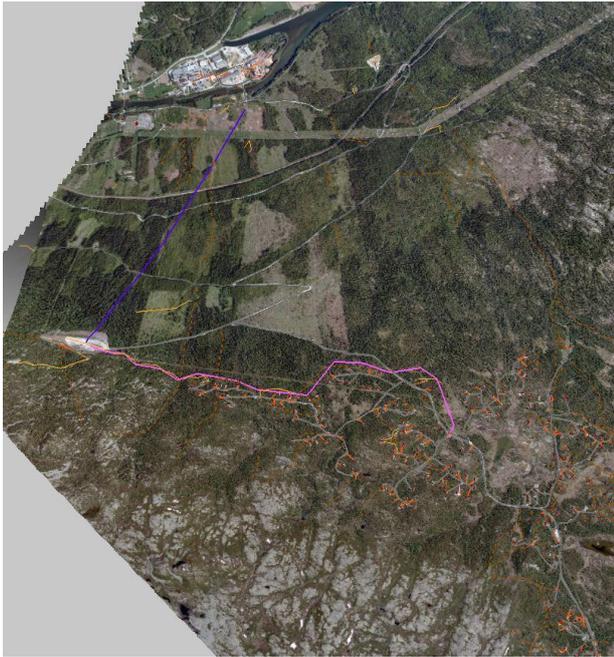
Analysis of new elements in Mother Nature can be a difficult task. Especially if you have many trees and need to show the situation after you have logged the trees and added new objects.

This document shows how easy it is to present data in a good manner using SpacEyes excellent editing tools. See the pictures, they tell the story.

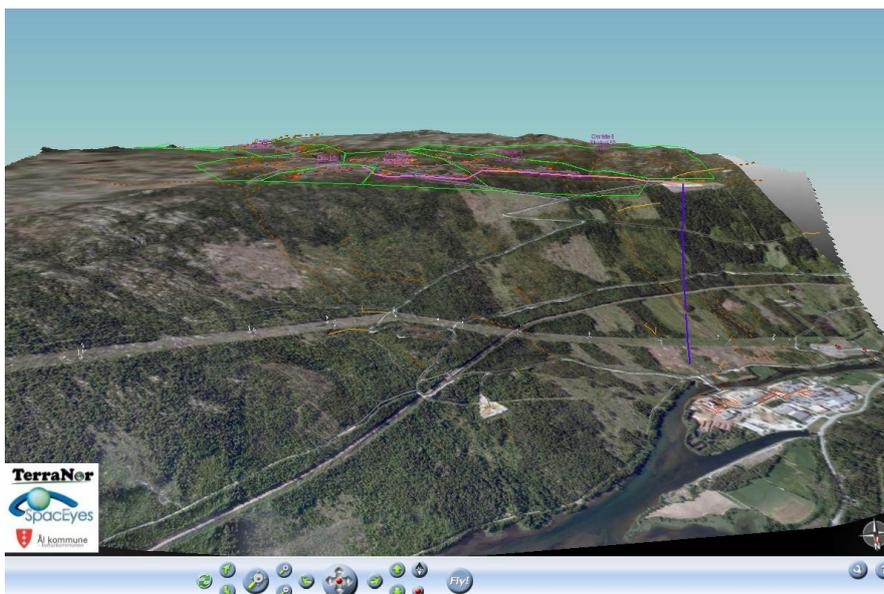
Input: 1m resolution orthophoto and DTM from 5 m contour lines from Ål municipality.

Setting up the model: 1-2 hours all included: powerlines, houses, trees, radio masts and new sewer line.

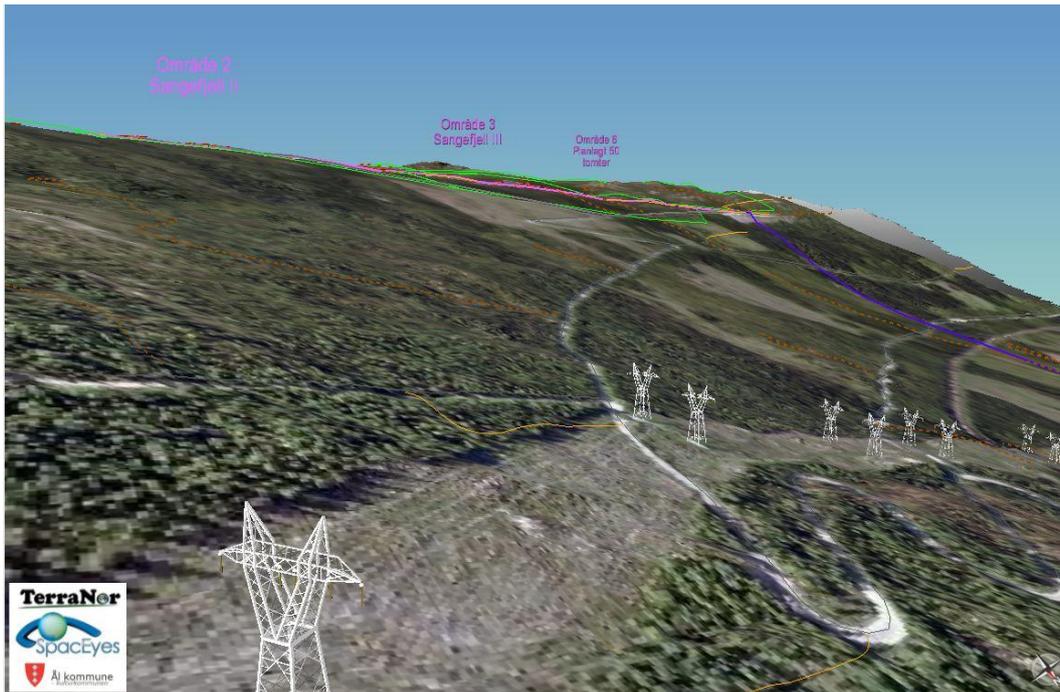
Topic: show how the area will look after construction.



This is the orthophoto map of Sangefjell in Ål.

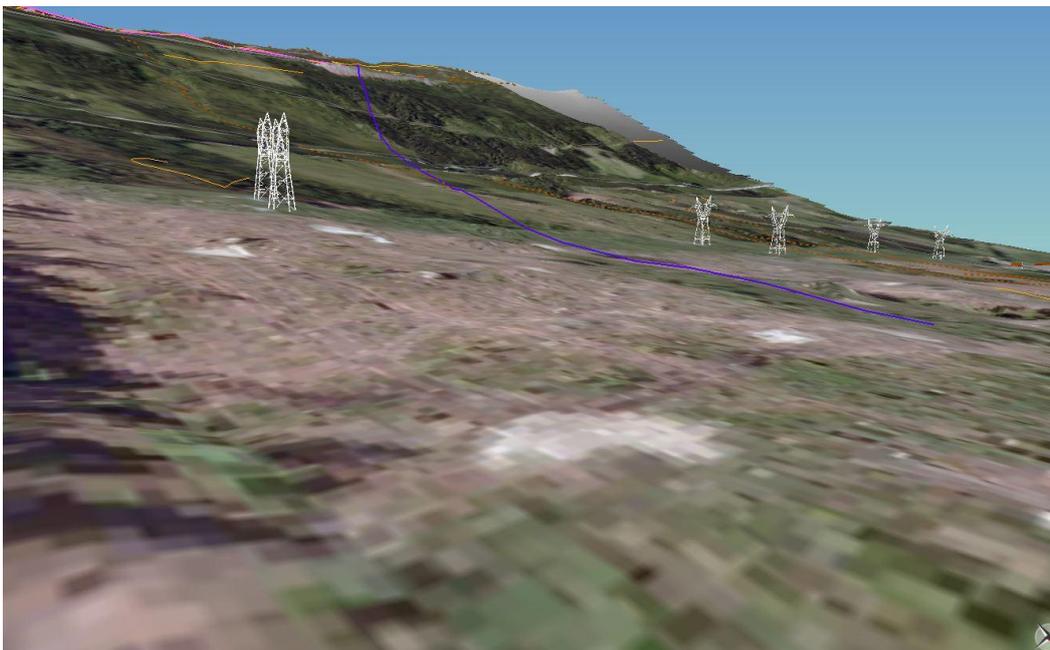


Sangefjell in Ål presented in 3D. From distance it looks OK.

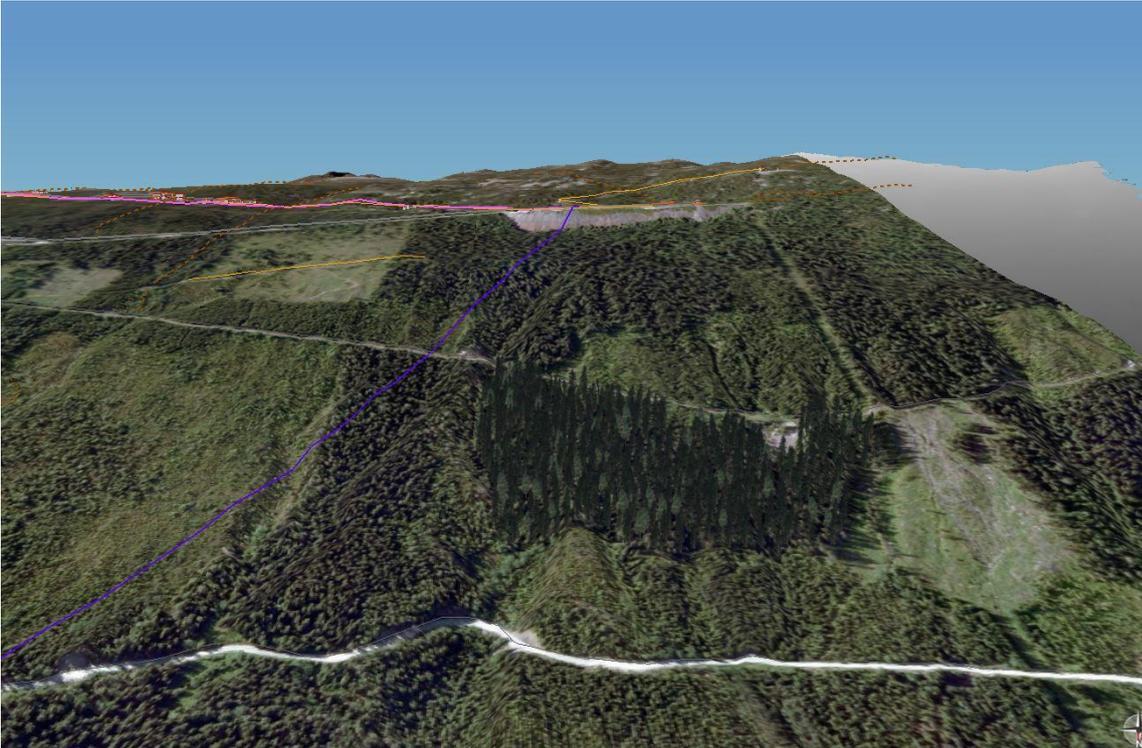


The 'problem':

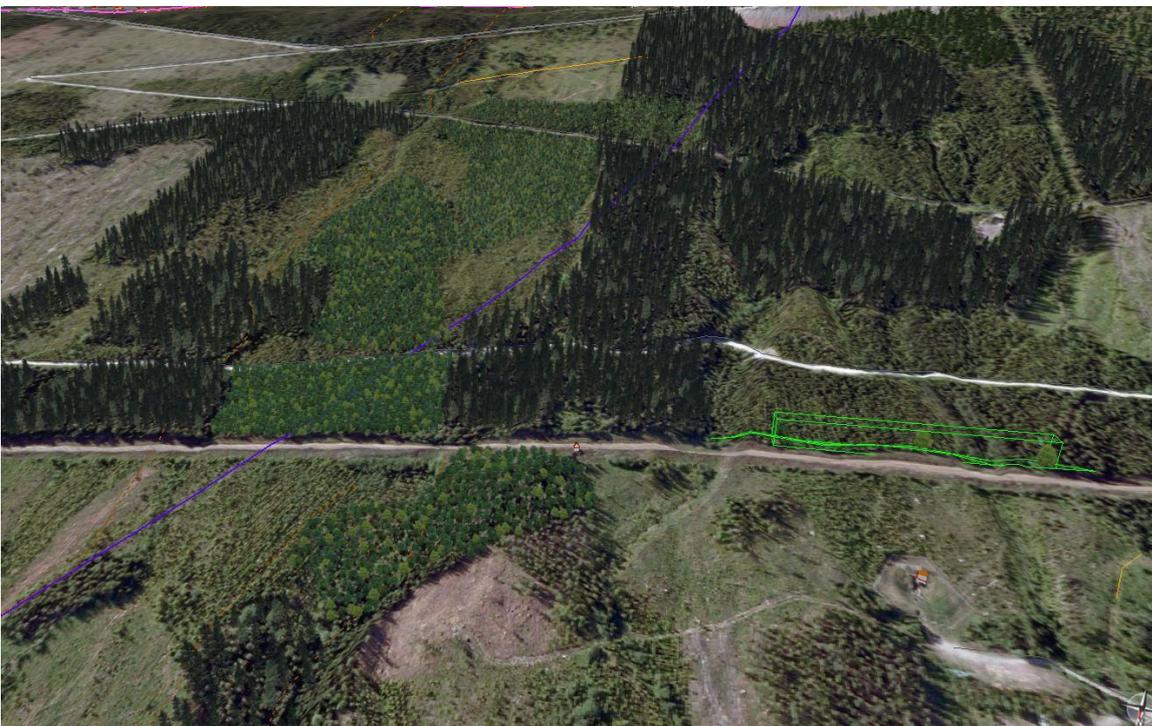
The Othophoto is taken from airplane high up in the air. When you tilt the model so you see it from the side, the trees are still lying flat on the ground. And you can see all constructions.



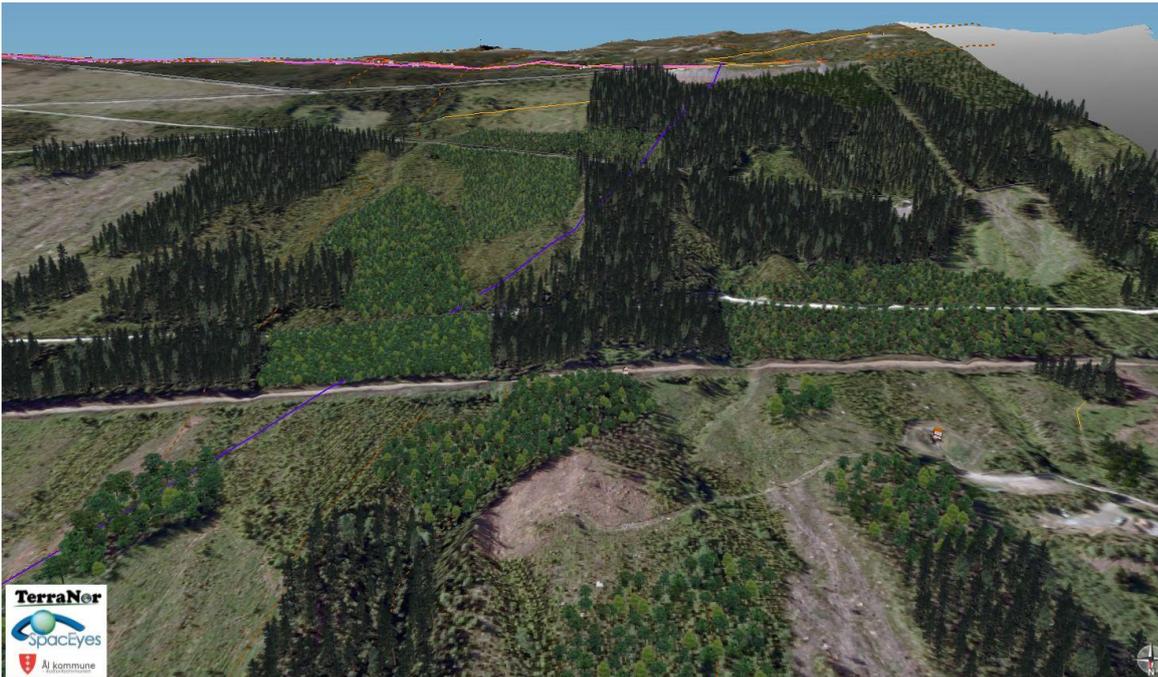
Even with the forest far away, it does not look completely OK.



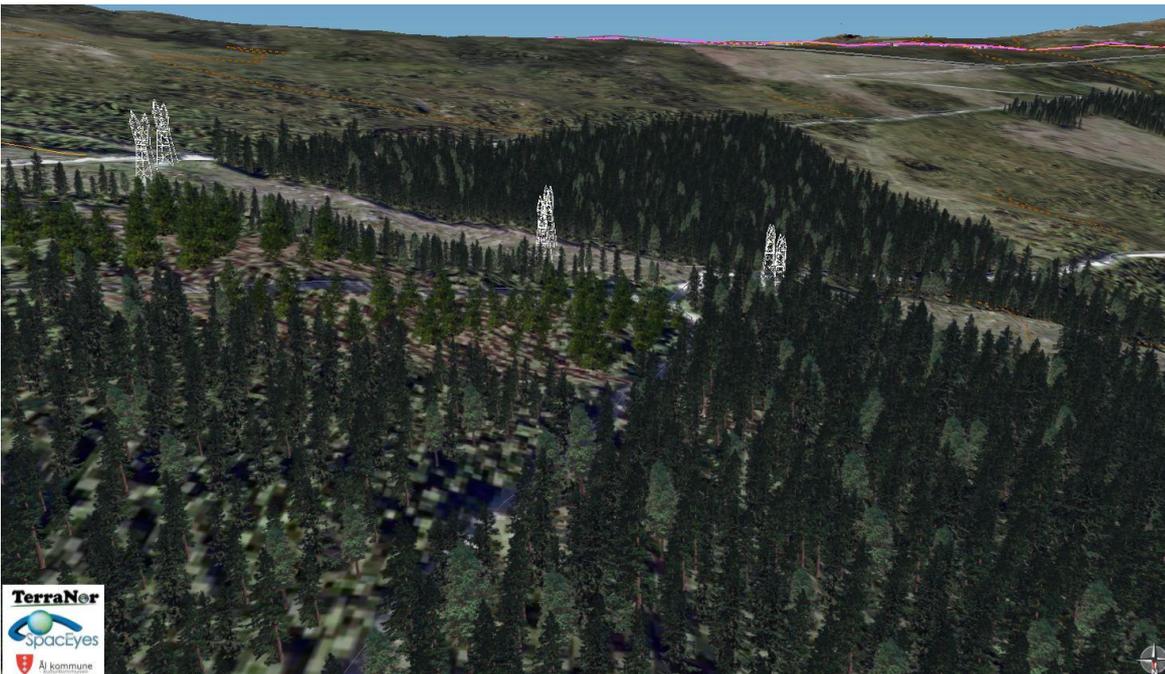
Here we have started to add trees to the model. You can see the difference between the flat trees from the image and the 'real' trees added to the model.



Adding trees are very easy. You select tree species from a model and digitize the area with trees. This is done in 2D or 3D after choice. You actually digitize directly into the terrain as you see it. The forest polygon can have one or more species, different heights; distribution and the shape follow the terrain.



When the model is finished, it looks natural and gives you a better feeling of depths and sizes in the model.



Here the powerline is added with pylons with correct height. We see now that the road can be seen through the forest and not openly viewable as with the 'flat' trees.

Your forest can be added as single trees from a GIS database. Modern forest mapping provides single trees. In urban parks each tree is normally registered in a GIS database. SpacEyes can automatically select correct specie and height based on the GIS database. This makes it very easy to create excellent 3D models.



This last image shows data imported from another 3D software. If you have data from an engineering company or an architect, it takes you only minutes to add the data to your own model. You may then show the model before and after a new building is built.

This simple demo was done to show how easy it is to create a new natural looking model in SpacEyes. Within minutes you can create superb models showing existing and new infrastructure.  
**Everything can be visualized on the web easily!**

Contact TerraNor for more information.

<http://www.terrannor.no/SpacEyes/SpacEyes.aspx>

[http://www.spaceeyes.com/index.php?lang=en\\_GB](http://www.spaceeyes.com/index.php?lang=en_GB)