

AA3D

3D Maps for Virtual Hiking

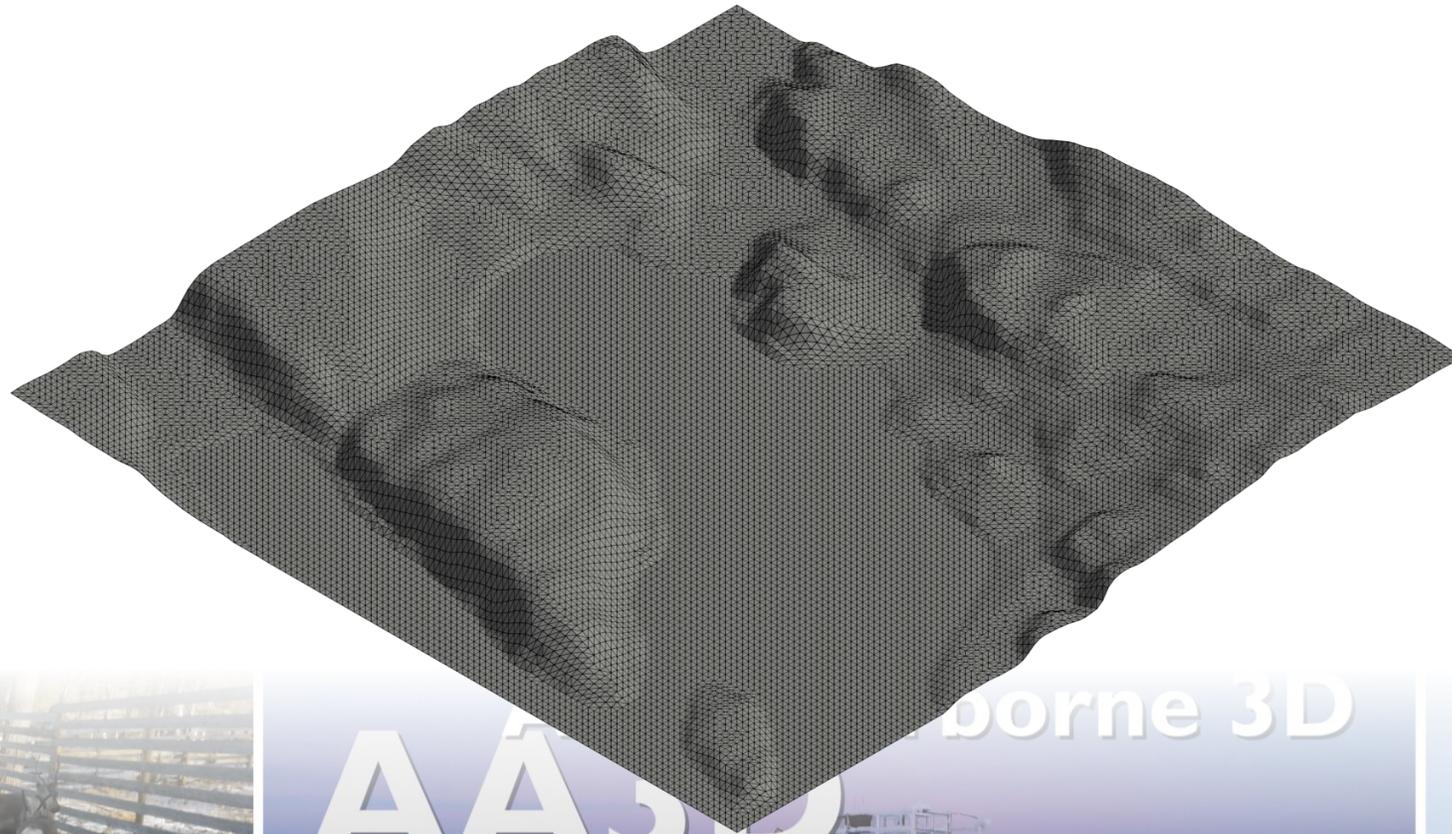


Map Data?

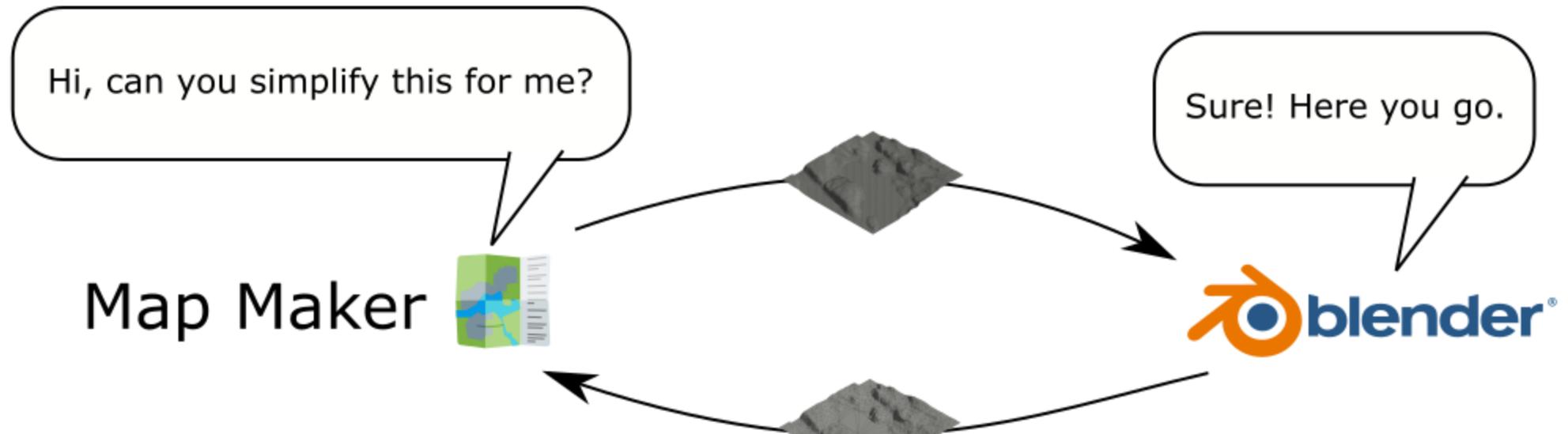
- Data sources from National Land Survey of Finland
 - Elevation Models
 - Orthophotos
 - Topographic Databases
 - Laser Scanning Data



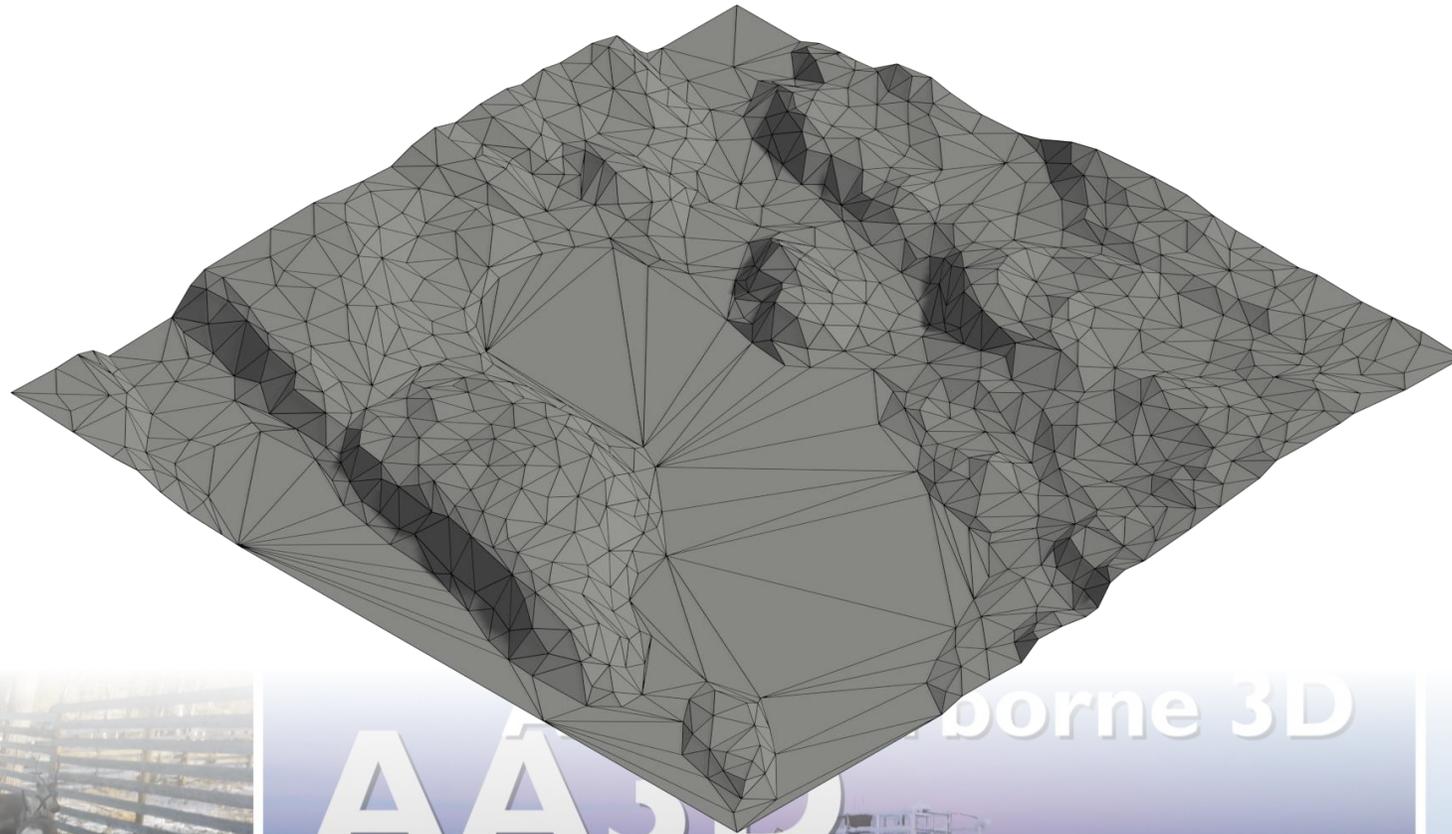
Making 3d Geometry



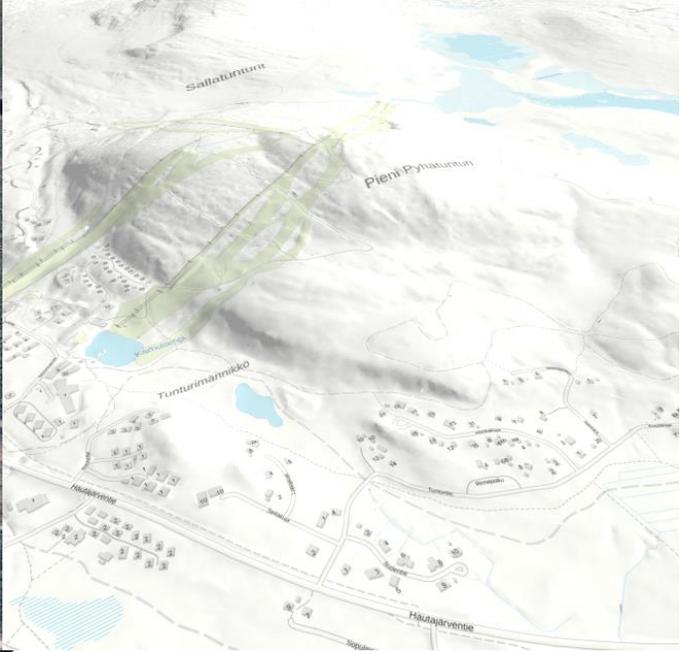
Optimizing Geometry



Optimized Geometry



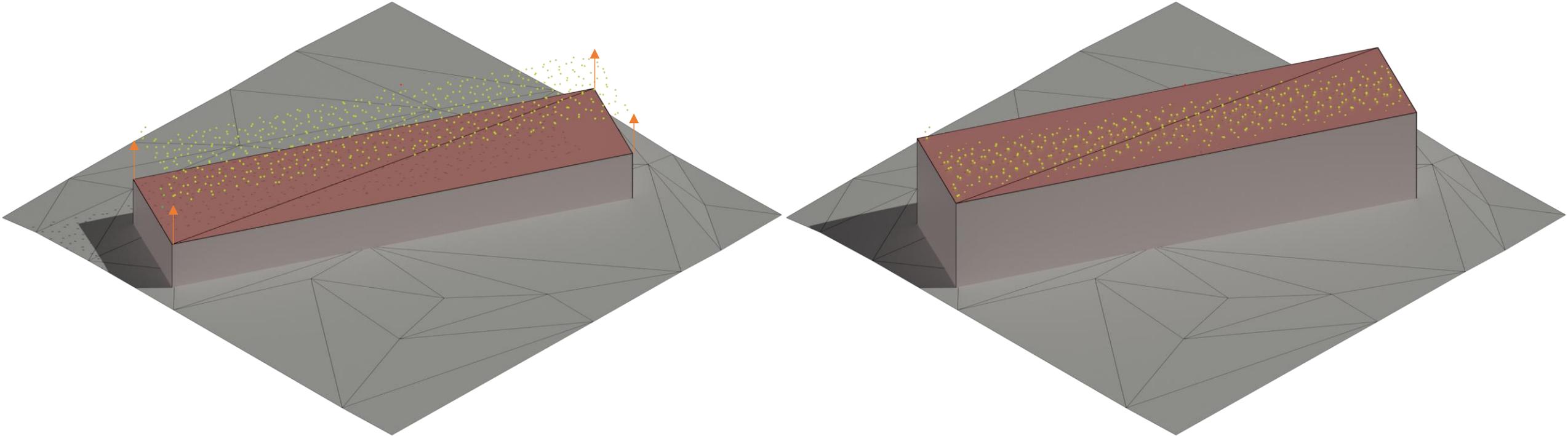
Adding Textures



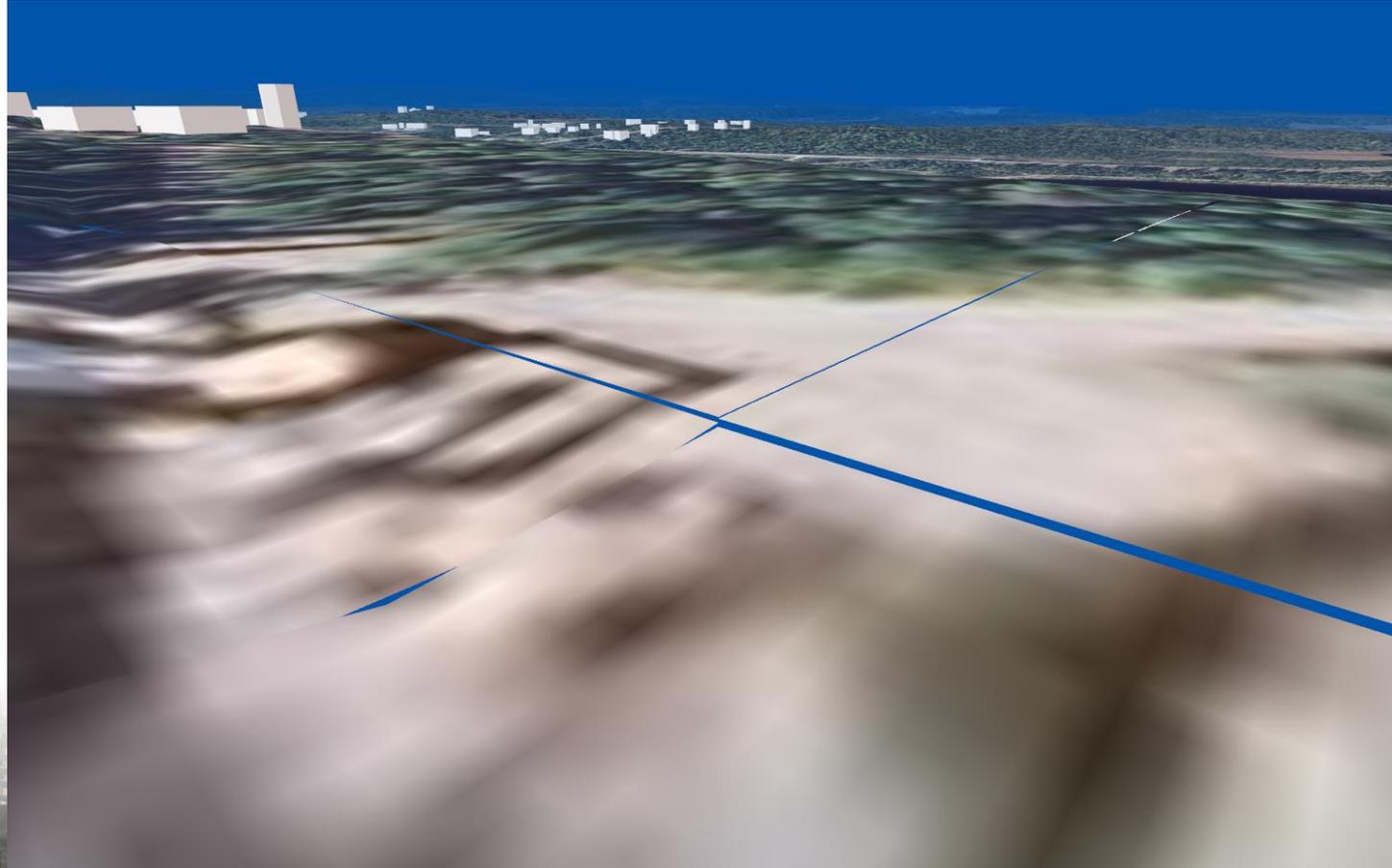
Adding Buildings



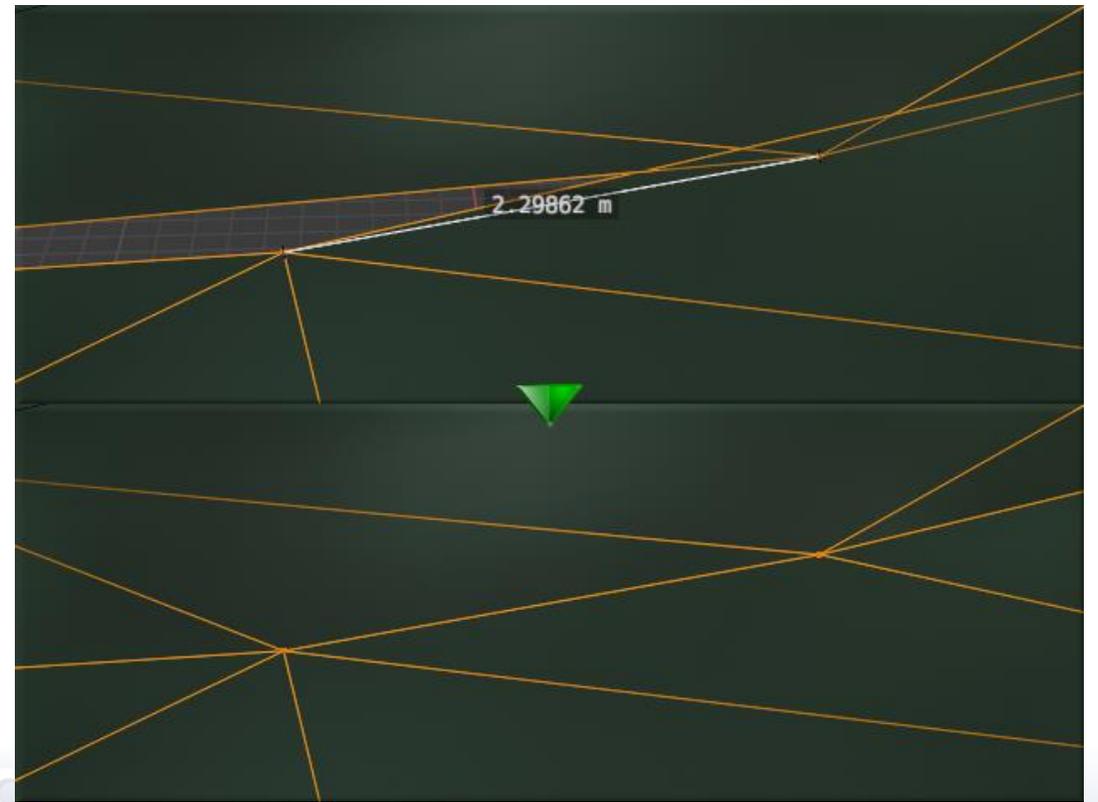
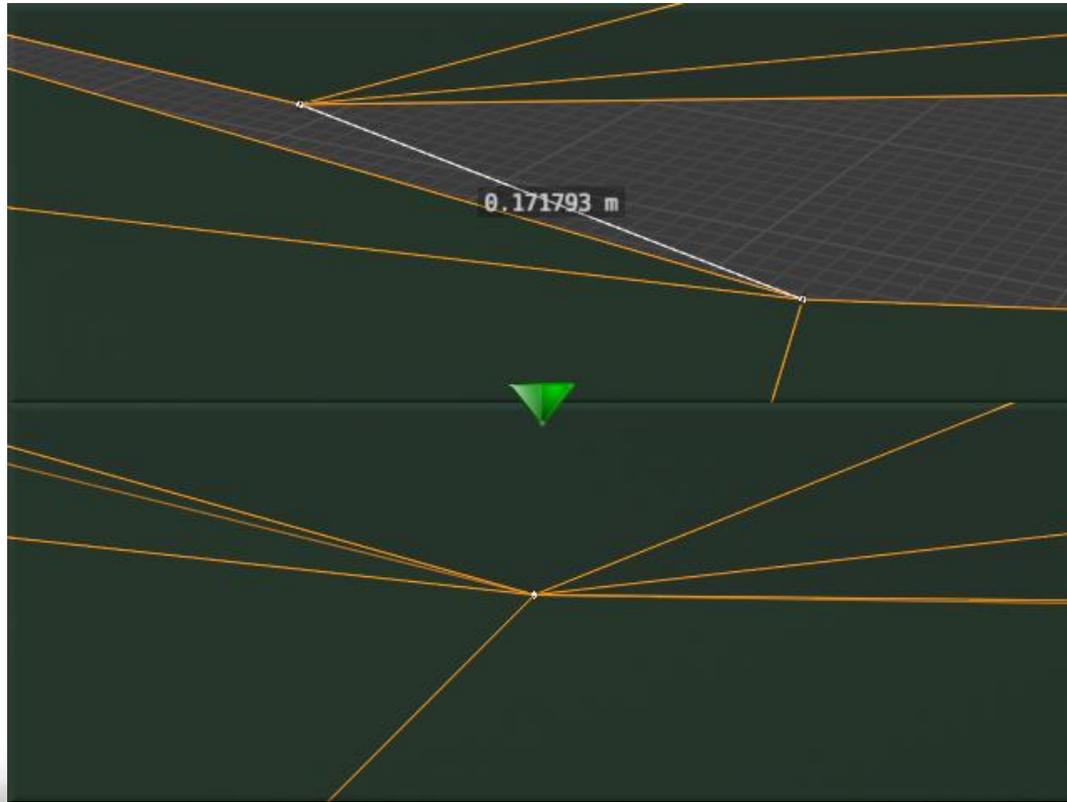
Adjusting Roof Height with Point Cloud



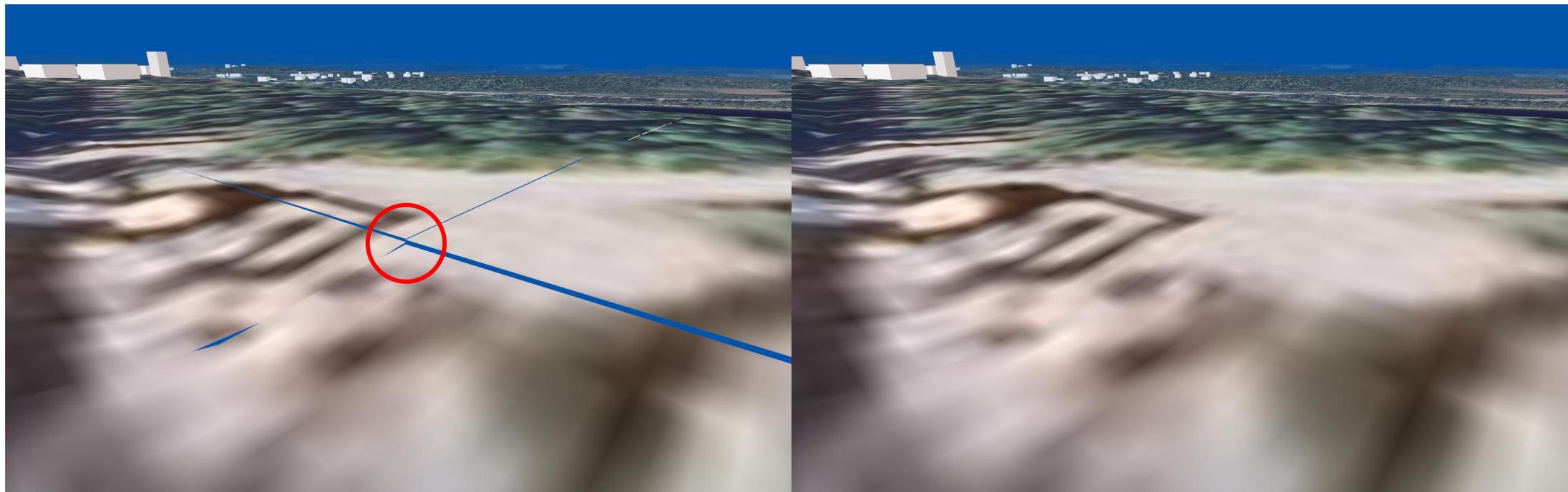
Problem from Optimization



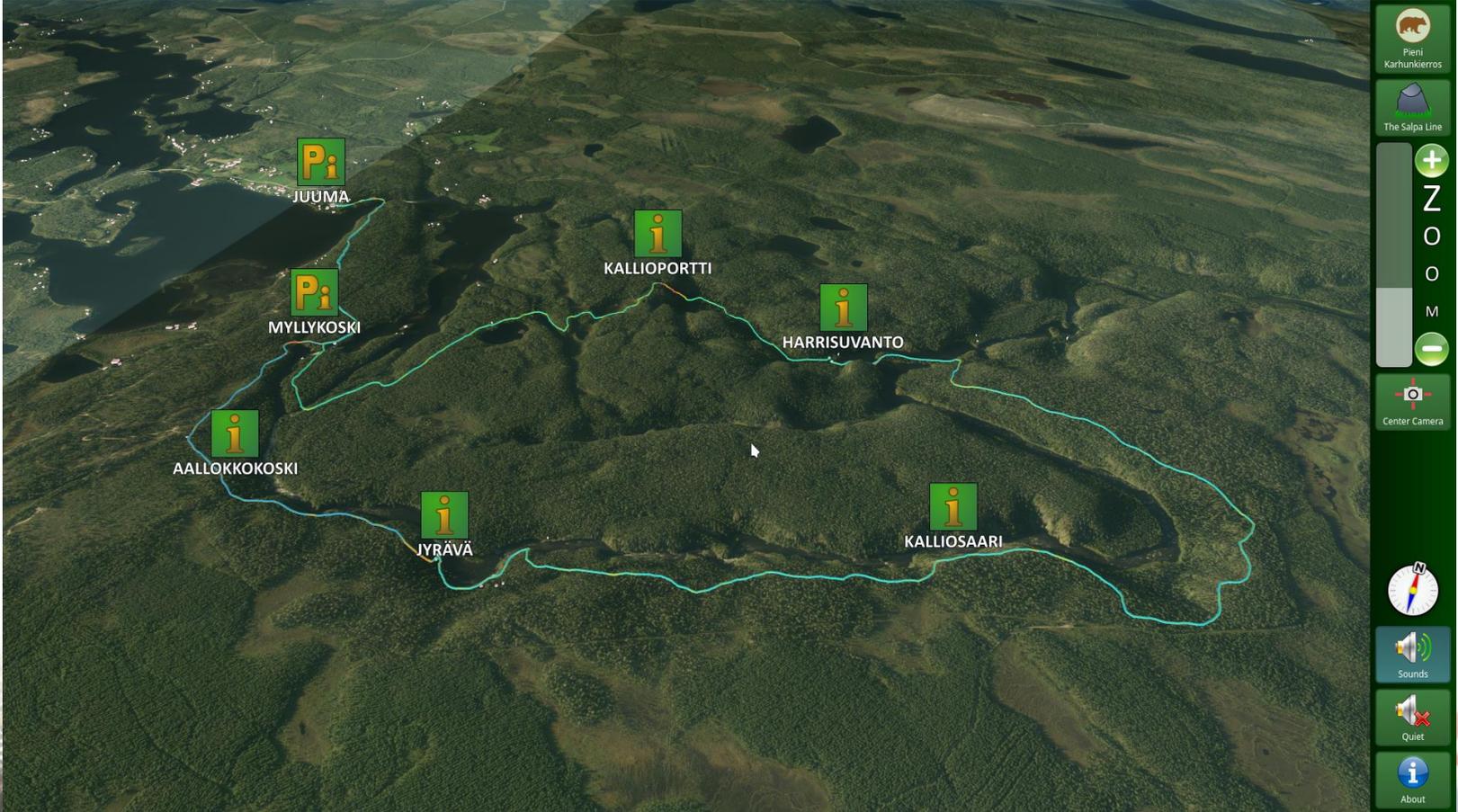
Fixing Map Edges



Fixing Map Corners



Virtual Hiking



Media Icons



Hiking Route

Hiking Video Icon



Hiking Video Player

The screenshot displays a video player interface for a hiking trail. The main video shows a wooden staircase with railings ascending through a forest with trees displaying autumn foliage. In the top-left corner, there is a map inset showing a red line representing the hiking route. The bottom of the player features a control bar with a play/pause button, a refresh button, a speed control set to 0.75x, and a progress bar. The progress bar shows the current altitude as 232.5 m and includes a scale from 300 m to 4400 m. Below the progress bar, there are three small thumbnail images: a deer in a snowy field, a wooden structure in a forest, and a red brick structure.

Thank you!



Map Maker Video
<https://youtu.be/WIJm7hye580>

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Virtual Hiking Video
<https://youtu.be/Mb1g3odnJys>

