Automatisch reconstructie

van steden met 3dfier

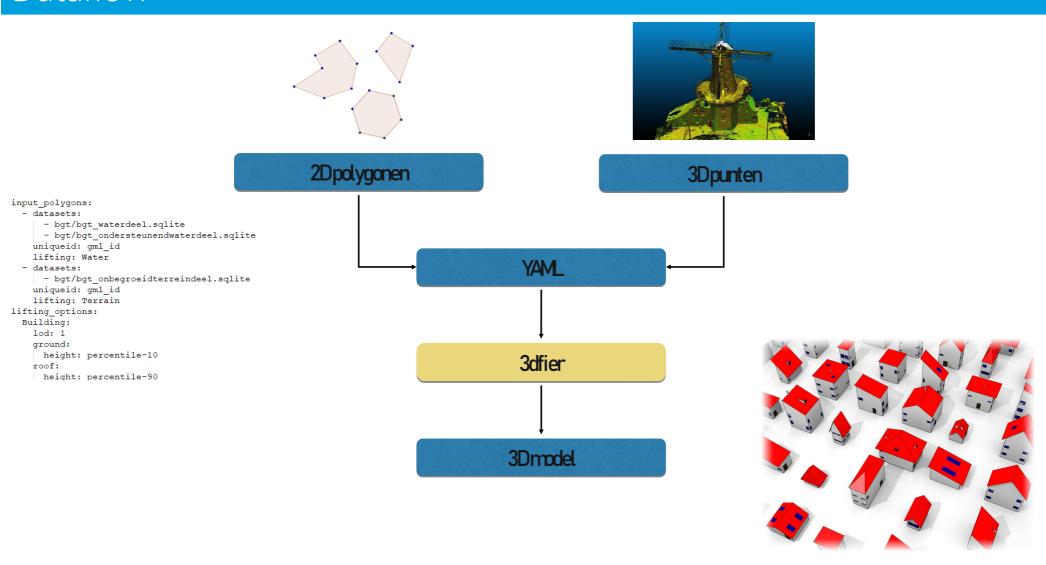
Tom Commandeur FOSS4GNL 2018-07-11

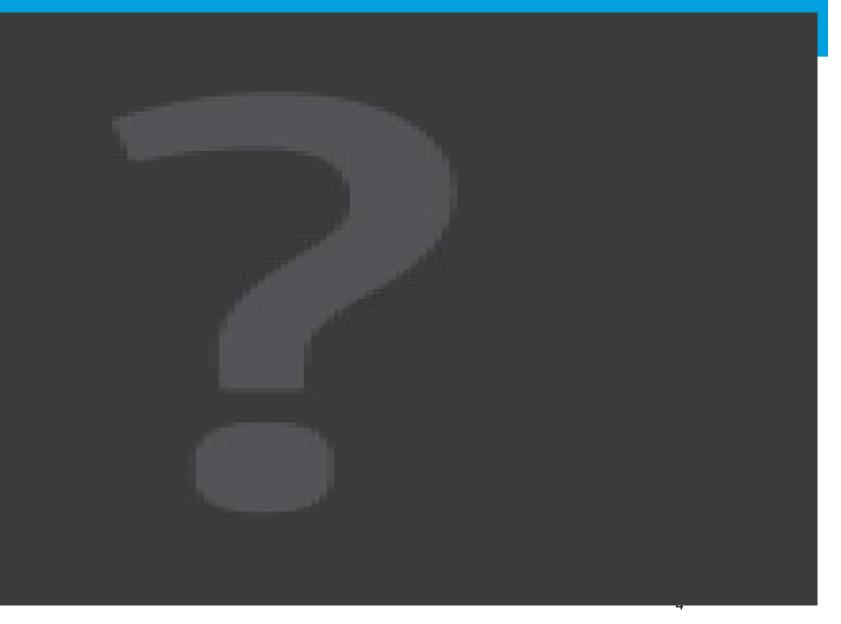




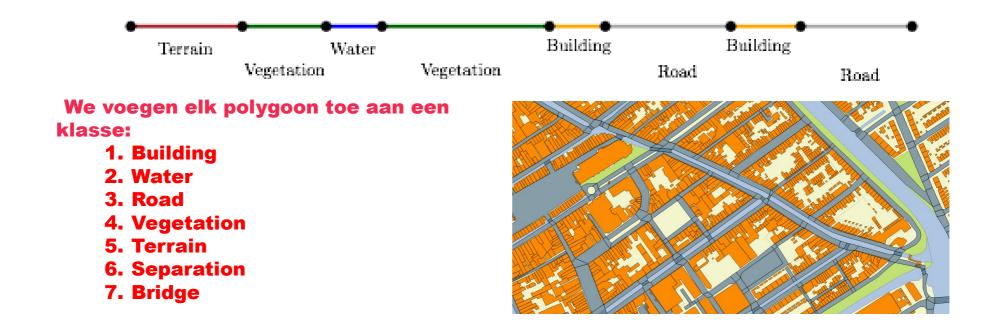


Dataflow

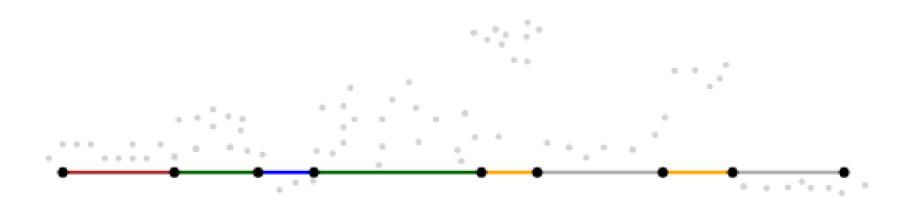




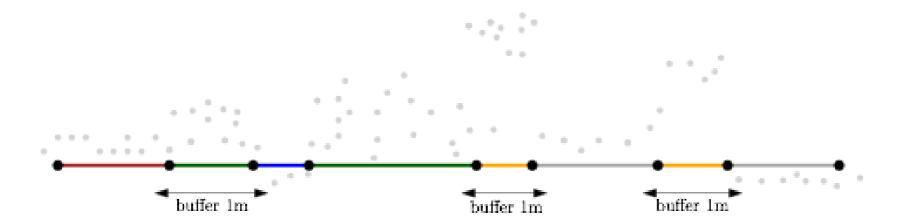
Input: elke 2D dataset (bijv. TOP10NL of BGT)



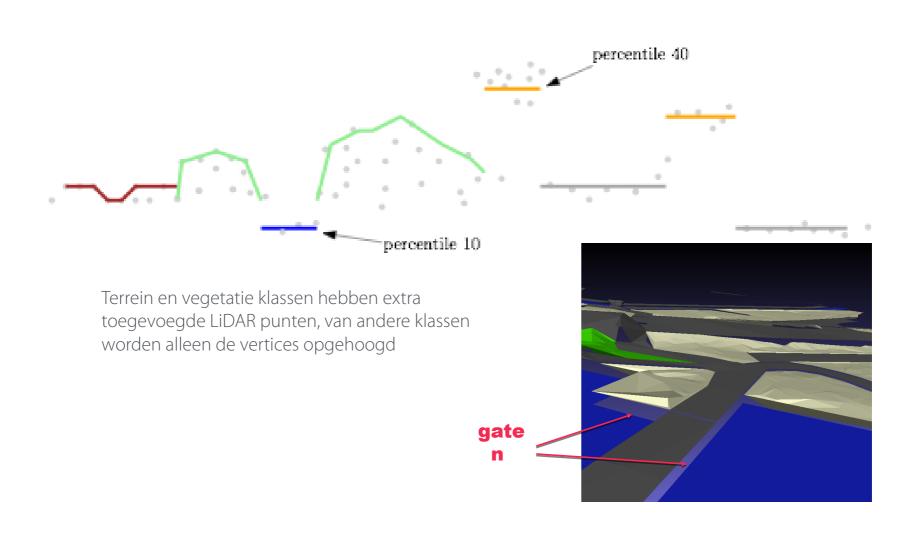
Elk LiDAR punt toewijzen aan polygonen



Elk LiDAR punt toewijzen aan polygonen



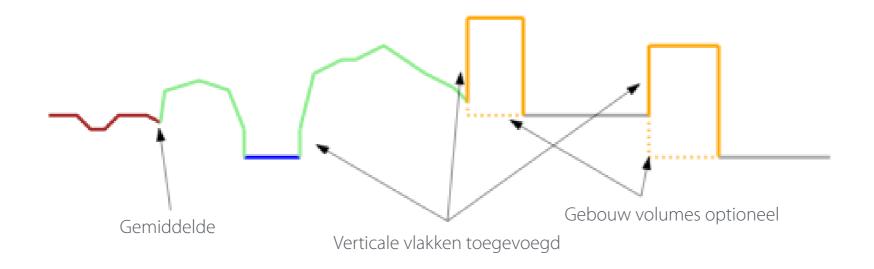
Ophogen van elk polygoon met simpele regels



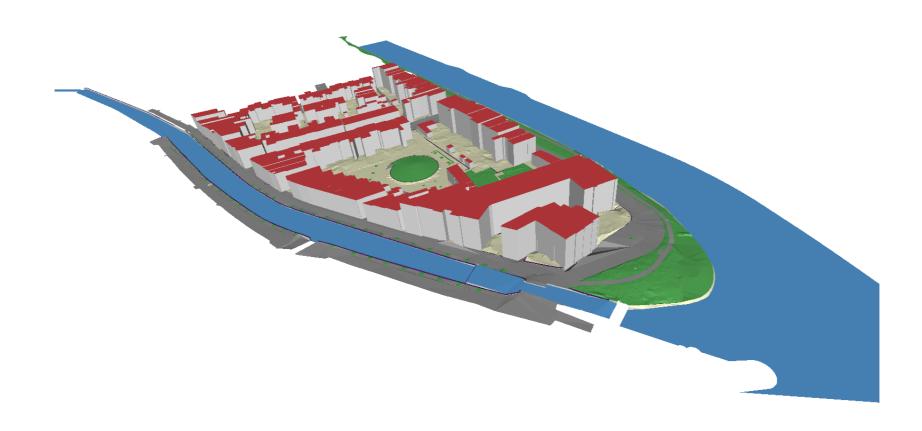
Stikken van aangrenzende polygonen



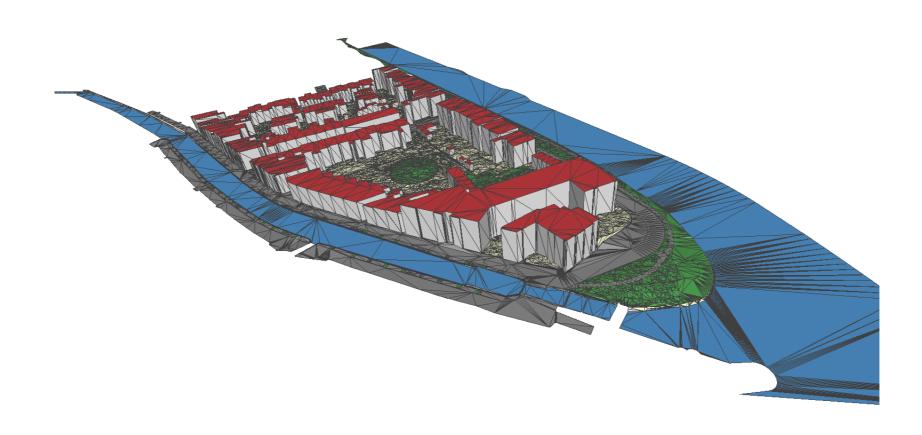
Stikken van aangrenzende polygonen



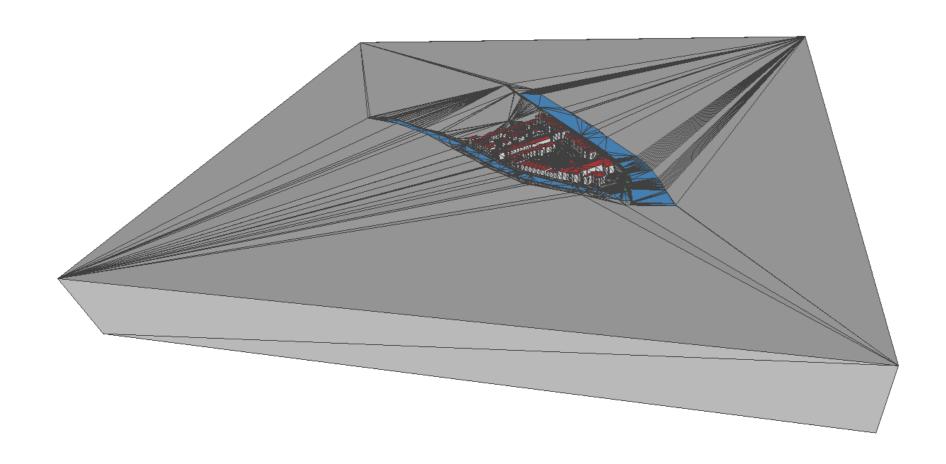
3D model



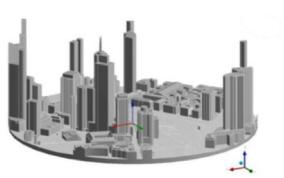
3D model triangulatie

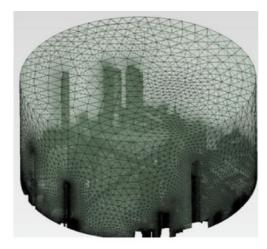


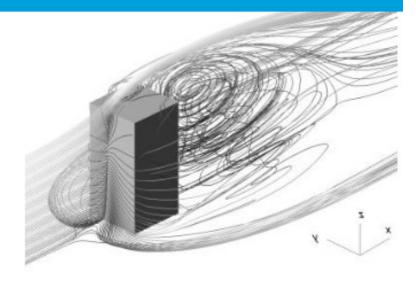
3D model printen?

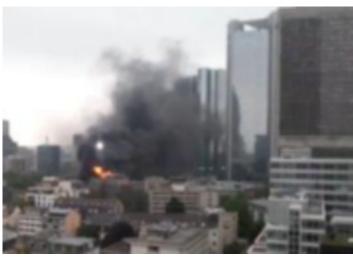


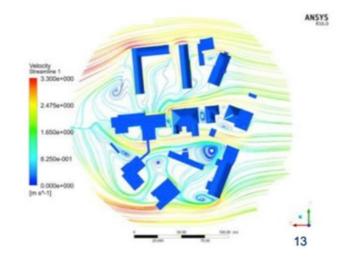
Direct klaar voor simulaties

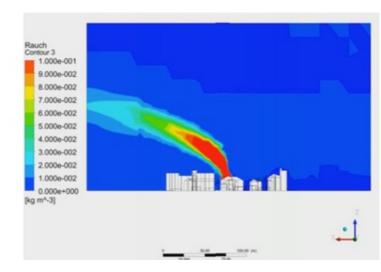








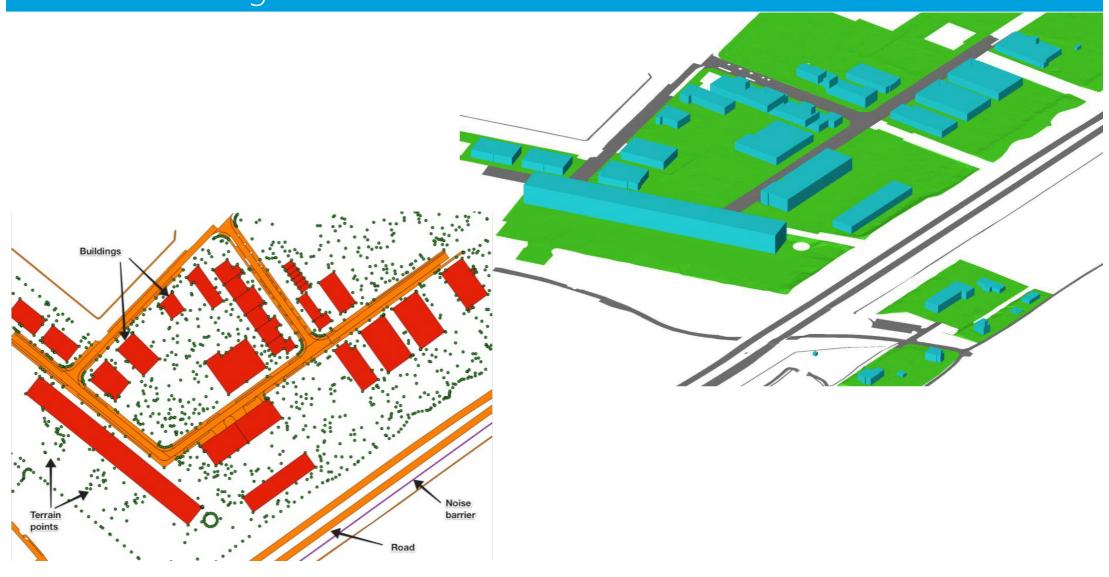




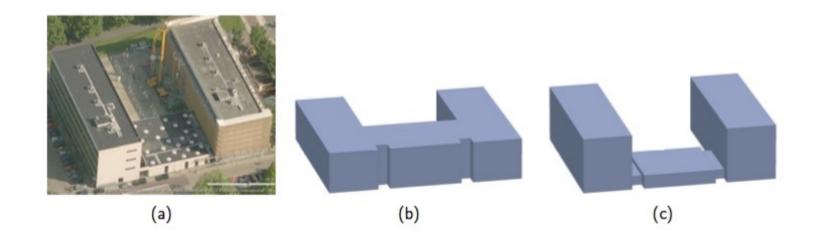
Open standaarden



Geo-data voor geluidssimulaties



Toekomst LOD1.3



Gebruikte libraries





Yaml-cpp - > Configuratie



CGAL -> Constrained Delaunay Triangulation

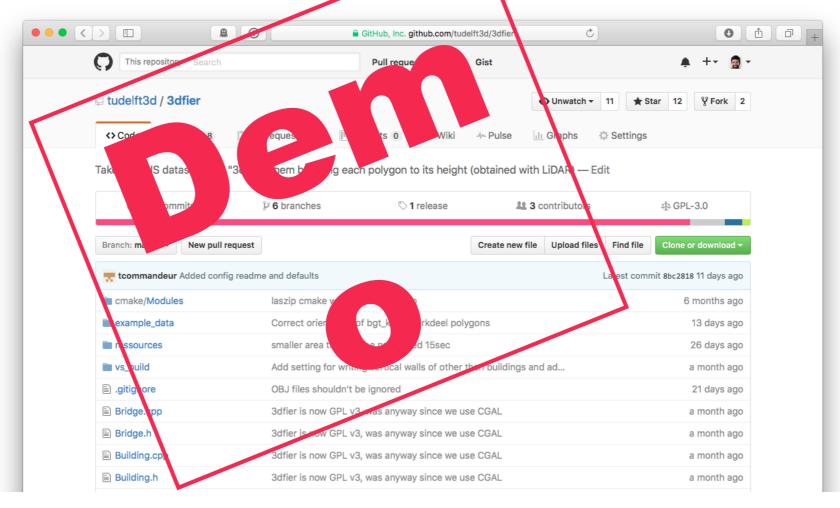


LibLas / LasZip -> Puntenwolken lezen



Boost.Geometry -> Geometrie berekeningen

3dfier is open-source github.com/tudelft3d/3dfier



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Tom Commandeur

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