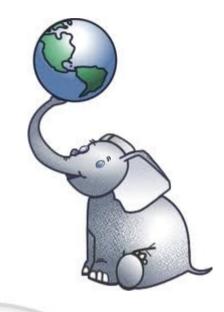
3D in QGIS



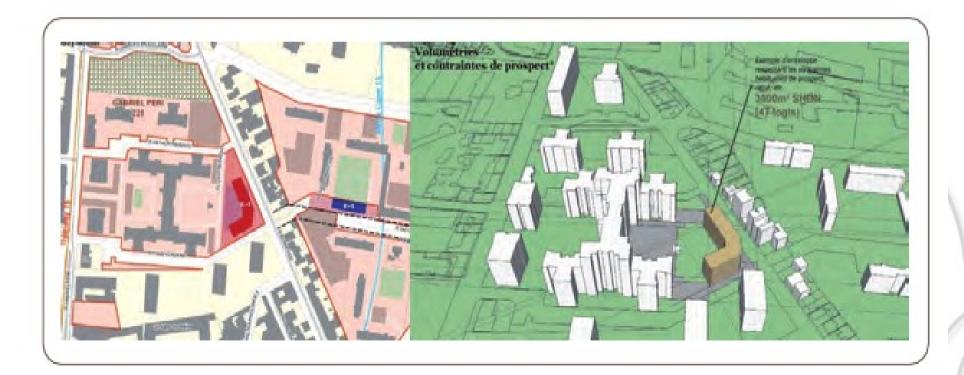
Hugo Mercier & Vincent Mora - Oslandia



PostGIS 3D

Partial FEDER funding Focus on urban planning







SFCGAL

GIS Layer on top of CGAL SFCGAL

Some operators:

3Dintersects

3Dintersection

3Dconvexhull

Tesselation

Straight skeletons

Extrusion

1.0 release in July

www.sfcgal.org



PostGIS 3D

SFCGAL is integrated into PostGIS 2.1

3D storage is in

SFCGAL provides:

ST_3Dintersects

ST_3Dintersection

ST_Extrude (2D -> 3D)

ST_3Dconvexhull

ST_StraightSkeleton

ST_Tesselate...





Postgis 3D in QGIS

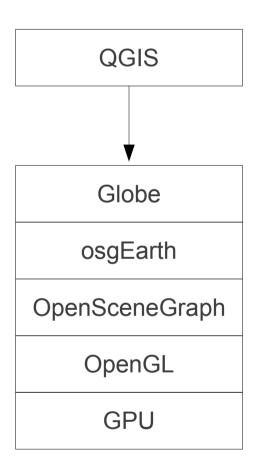
First attempt using Globe Video

http://vimeo.com/54776907





PostGIS 3D in QGIS



OsgEarth:

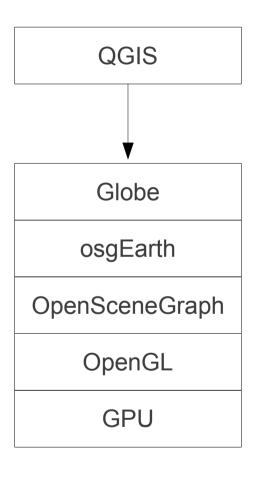
Slow for a whole 3D layer

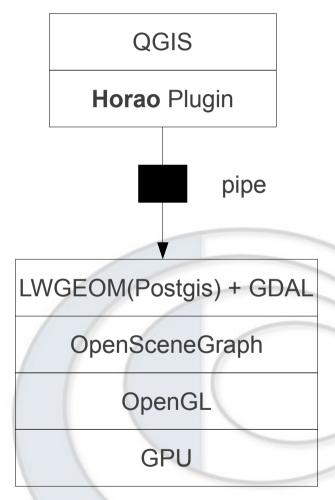
LOD strangely designed (additive rather than hierarchical)





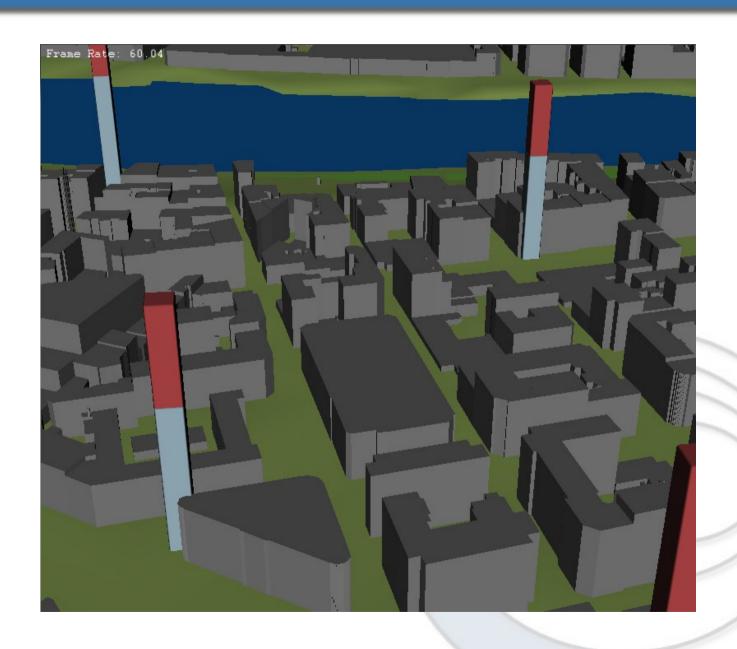
New architecture



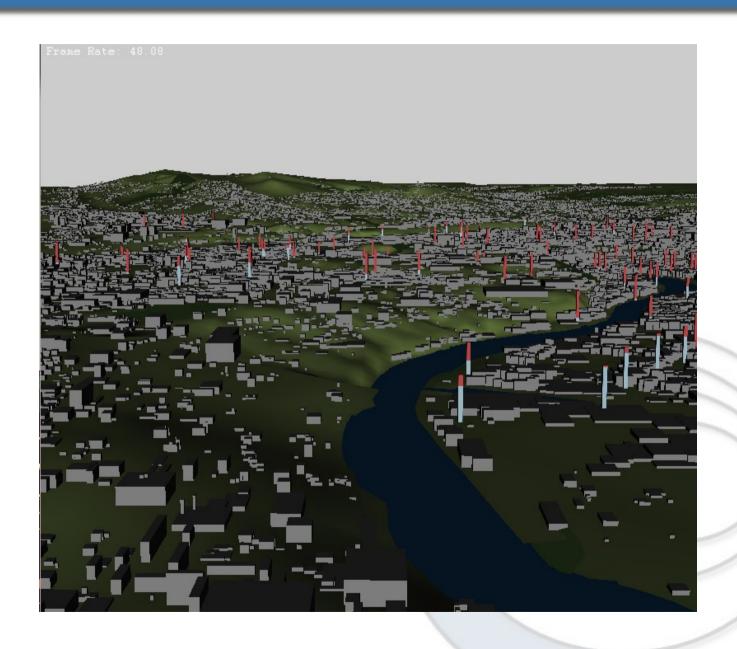


Now 30 fps at a minimum for a whole city On a basic Intel GPU board











What we want: (ViziCities project)



Patches to QGIS

Add support for 3D types in the PostGIS provider (PR #826)

Emit a signal when properties of a layer change (PR #890)

https://github.com/Oslandia/horao

