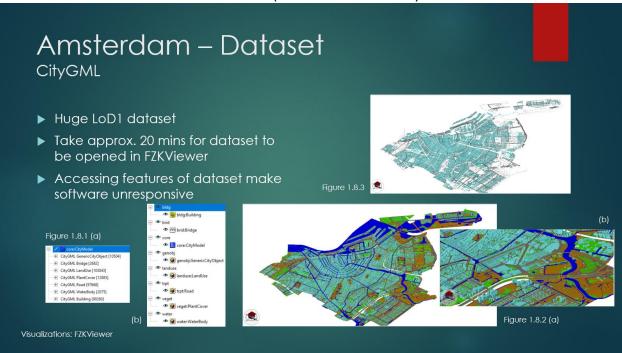
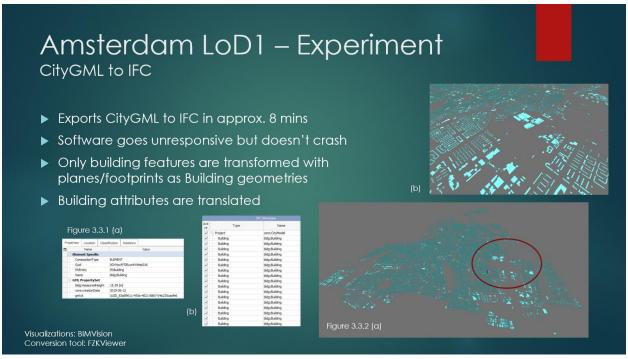
6) Attach other screenshots or files that you consider useful

1. Visualizations in FZK Viewer (before conversion)



2. Conversion through FZK Viewer

a. Visualization in BIM Vision



b. Discussion

FZK Viewer was tested in terms of importing large scale multilayer CityGML dataset and exporting IFC data from the software. Dataset is composed of multiple city layers Figure 1.8.1 (b) and takes time to be loaded in FZK Viewer. Software gets unresponsive on different stages, for example viewing, panning, enabling/disabling layers, but doesn't crash until multiple actions are input to software.

Since the data set is CityGML LoD1, the exported IFC model was LOD 100 for IFC4 format in considerably short time with no building geometry and only building footprints (see Figure 3.3.2 (a) and (b)). Other elements like bridges, road were discarded automatically in export by FZK Viewer.

Semantic details attached with building elements are kept after conversion as shown in Figure 3.3.1 (a). Geometry information for building footprint with location is also converted correctly. This shows that FZK Viewer has better semantic and geometric mapping of CityGML to IFC data compared to off-the-shelf FME Quick Translation tool.