

SAVIGLIANO

Input IFC4 data set

- IFC4 data set does not contain any IFCSPACE elements

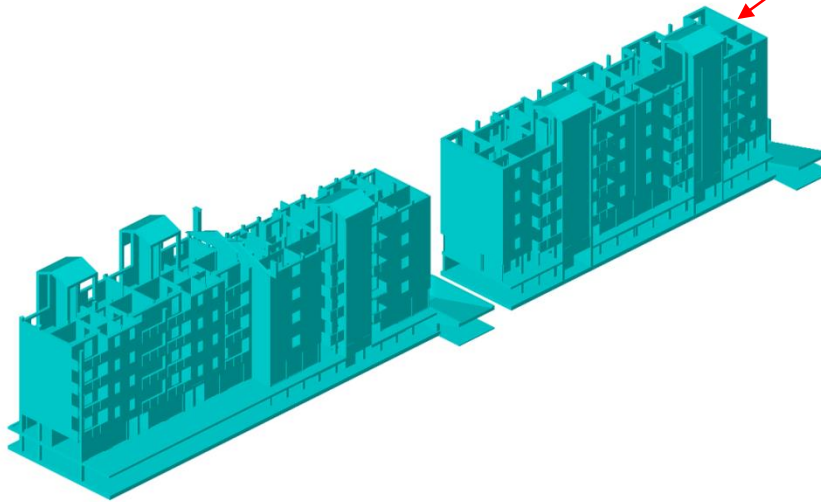
Conversion Details

- Total conversion time: 15 seconds
- File size:
 - Original IFC4 – 21.5 MB
 - Converted CityGML - 25.4 MB
 - Increase in file size possibly due to original model containing a lot of IfcMappedItem objects



IFC4 Data Set Viewed in BIM Vision

Certain elements like
the roofs were lost
during the conversion



Converted CityGML Data Set Viewed in FZK Viewer

Missing Elements

- Some missing elements after conversion with rule set
 - IFCSTAIRFLIGHT, IFCSLAB, IFCRAILING, IFCDOOR, IFCWINDOW, IFCBUILDINGELEMENTPROXY
 - Most missing elements seem to be IfcClosedShell objects
- These had issues already when checking into BIMserver

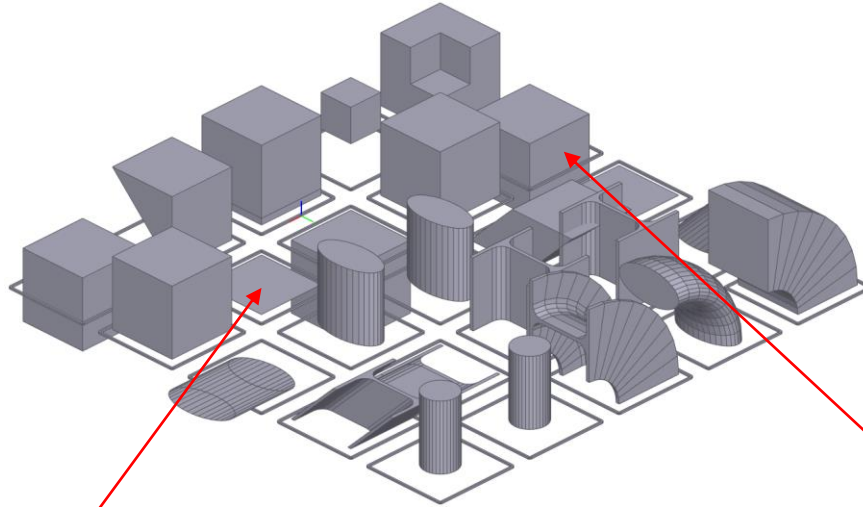
Converted Elements

- Some converted elements after conversion with rule set
 - IFCCOLUMN, IFCDOOR, IFCWALL, IFCSLAB, IFCBUILDINGELEMENTPROXY
 - Most converted elements seem to be IfcExtrudedAreaSolid objects
- Some converted properties after conversion with rule set
 - gml:id
 - gml:name
 - NoOfStories
 - MaterialName
 - ThermalTransmittance
 - ExternalAccess
 - StoreyName

IFCGEOMETRIES_IFC4

Conversion Details

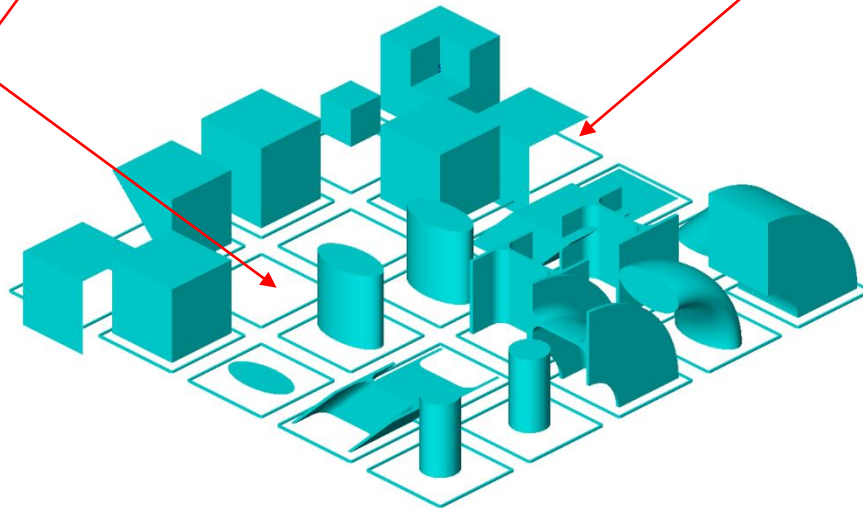
- Total conversion time: 5 seconds
- File size:
 - Original IFC4 – 28 KB
 - Converted CityGML – 12.5 MB



IFC4 Data Set Viewed in BIM Vision

Certain surfaces are
inverted (inside-out)

Certain elements
were lost during
the conversion



Converted CityGML Data Set Viewed in FZK Viewer

Missing Elements

- Some missing elements after conversion with rule set
 - IFCBUILDINGELEMENTPROXY
 - ExtrudedAreaSolid 2 and 3 do not contain any geometry
 - Surfaces for FacetedBrep 1 and ShellBasedSurfaceModel 1 are inverted
 - Surfaces for ExtrudedAreaSolid 19 also appear to be inverted/missing