## **APPENDIX**

Full-size figures, 4 through 8, from "BIM to GIS: Multi-Criteria Queries for Material Tracking in Circular Built Environments" by Georgios Triantafyllidis, Karl-Christian Mahnert & Lizhen Huang.

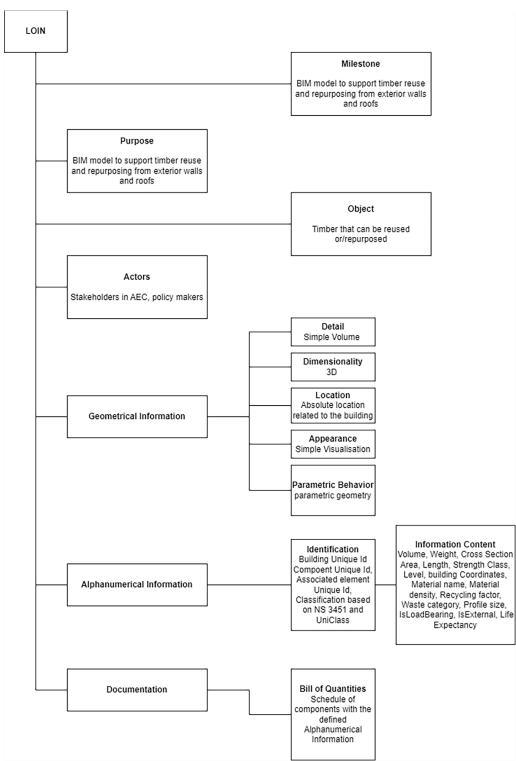


Figure 4. LOIN Framework Summary

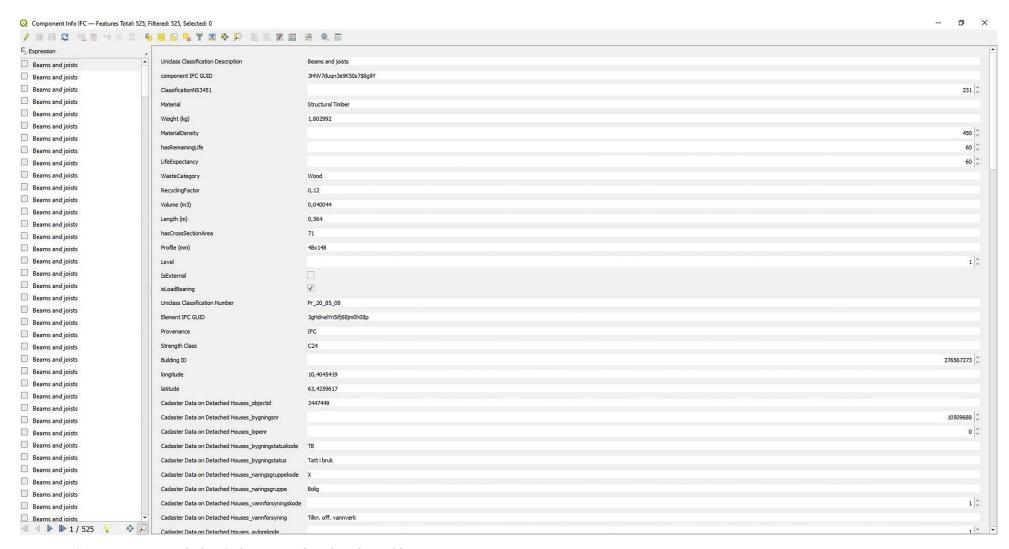


Figure 5. Component Data Linked to Cadaster Data based on the Building ID

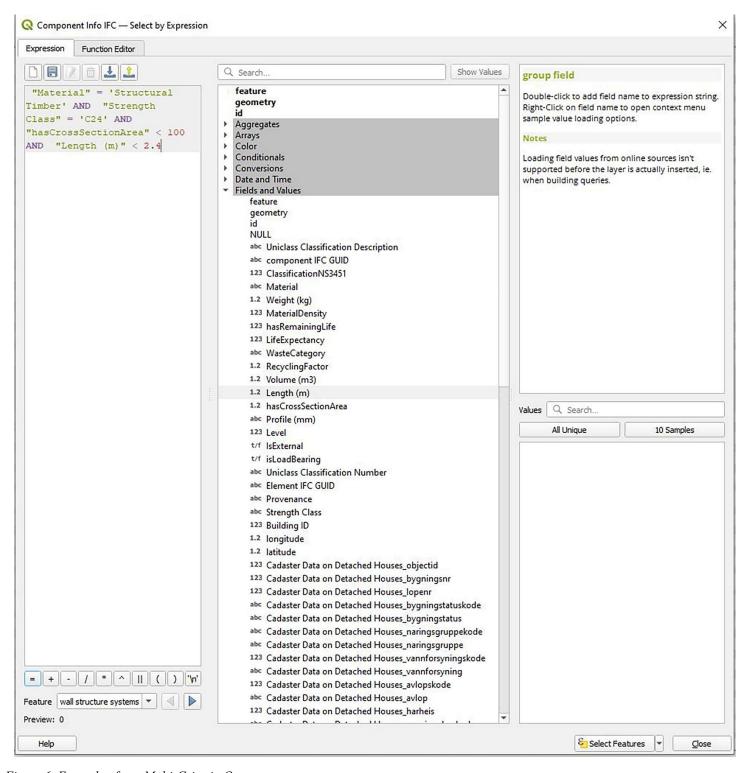


Figure 6. Example of one Multi-Criteria Query

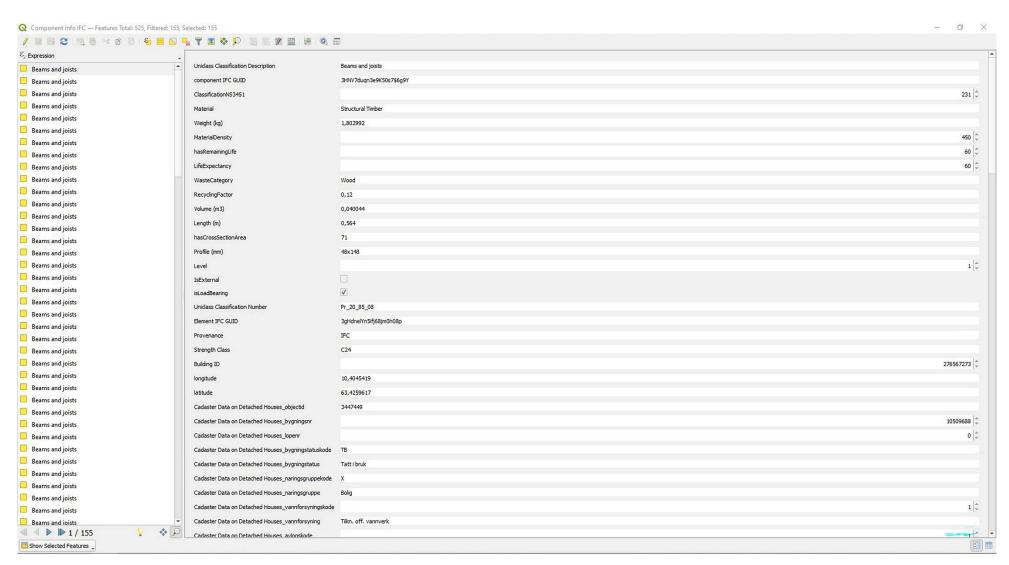
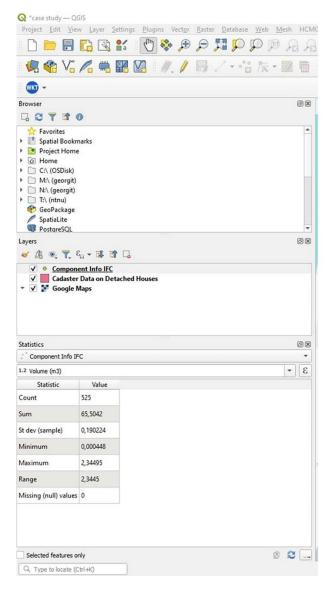
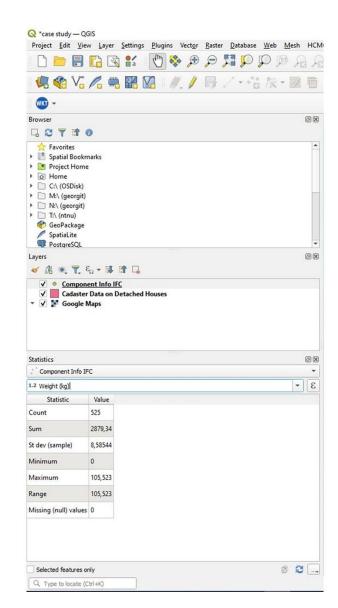


Figure 7. Results from the Query





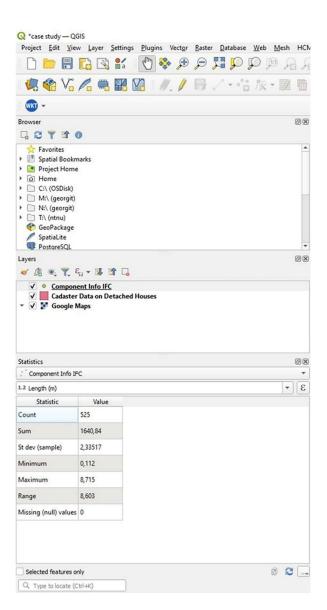


Figure 8. Summary of Values Contained in the GeoJSON