

GeoBIM in Practice: Data Readiness and a Use Case Application

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SUMMARY

Integration of geoinformation with BIM (GeoBIM) is a challenging task, studied more and more in the last few years. It is necessary to tackle several challenges to achieve a successful integration: (1) the data as they are produced in practice must be considered, to address the representation paradigm and the specific modelling choices (how much detail, what kind of semantics and so on); (2) the format of the data and their interoperability; (3) the requirements and specifications related to use cases, for which it is essential to collaborate with stakeholders.

Our work in the last few years has tried to cover all the three aspects. In this presentation we will present our investigations about the data readiness in practice, including especially IFC models and CityGML data, pointing out that it's definitely not sufficient for data to be standard compliant to present overall expected features. Second, the investigation about the integrated use of data coming from IFC and further geoinformation for the use case of building permits will be presented, in the context of a project with Rotterdam.