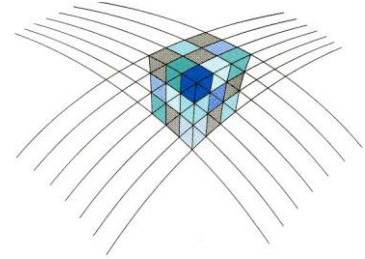


NCG



Netherlands Center for Geodesy and Geo-informatics

## Abstract submission for the NCG Symposium 2020

Abstract submission deadline: **24 August 2020**

Please submit your abstract EasyChair

<https://easychair.org/conferences/?conf=ncg2020>

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Presentation title: Towards a conceptual data model for the physical environment

Demo: ~~yes~~/no

Abstract (~100 words and optionally 1-2 figures):

Data modelling is essential for understanding data. This applies the Dutch law on the physical environment as well. To design and manage complex systems like the physical environment you need a model of that system (a digital twin). To specify that model you need a **data** model. So you need an environmental model and an environmental data model. I give a sketch of such a data model and the consequences for the digital system for the law on the physical environment, the municipal data models and the national basic registration of geodata in the Netherlands. With a digression about the extension of the data model to an ontology on the physical environment.

See <https://ibestuur.nl/podium/op-weg-naar-een-omgevingsgegevensmodel>

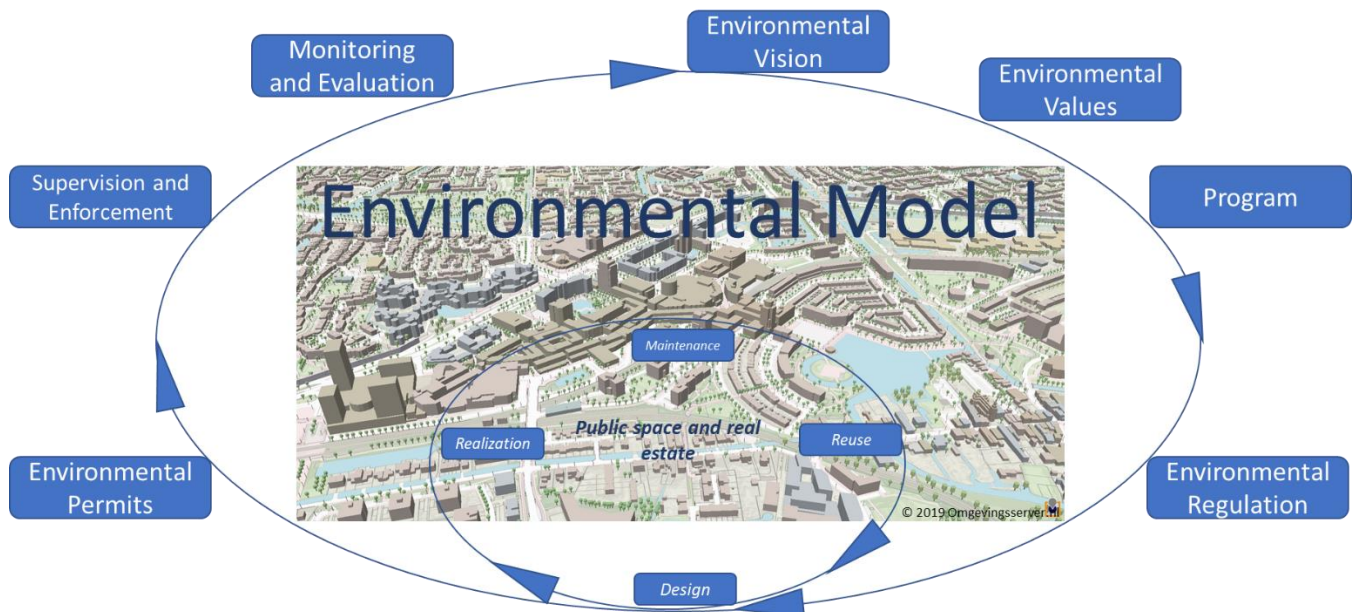
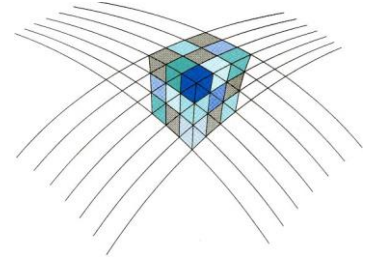


Figure 1 Environmental model and the policy cycle



Figure 2 Input and output of the Environmental model

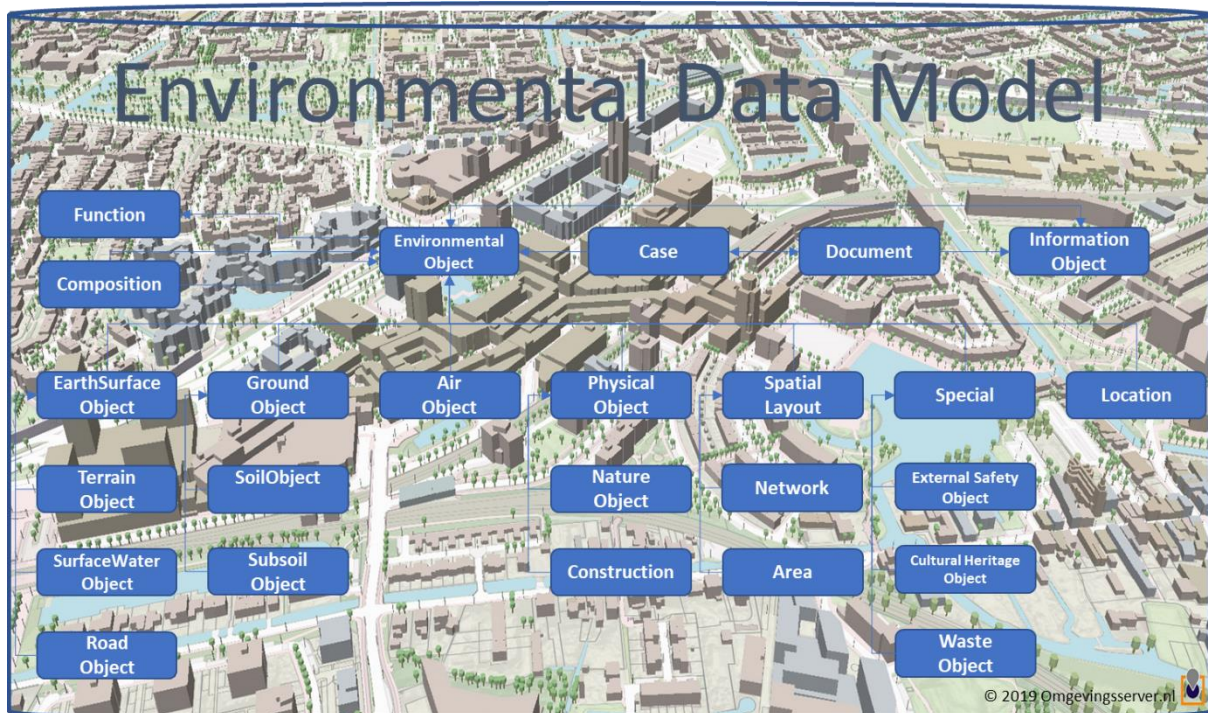
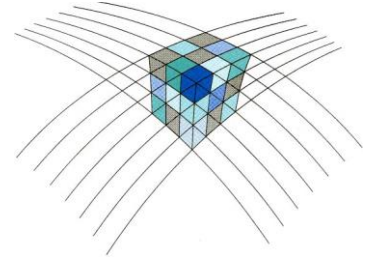


Figure 3 The Environmental data model structures the Environmental model