

Visualisation of open-source data - OpenEarth-Viewer

Building with Nature Guideline

Contact

Home BwN Approach Building solutions Projects **Toolbox**

[Building with Nature Guideline](#) > [Toolbox](#) > [Systems Analysis](#) > Visualisation of open-source data - OpenEarth-Viewer

[Log in](#)

Visualisation of open-source data (OpenEarth-Viewer)

Type: Web Application

Project Phase: Planning and Design

Purpose: Visualising data via Web interface

Requirements: Google Chrome / Firefox / Explorer

Relevant Software: Mapbox / Google Earth

About

OpenEarth data and models can be visualised in a web application that is regularly updated (2020). The set-up is such that data and models from different projects and cases can be viewed at the same time, which enables the user to see the interaction between different datasets and model results. Within Building with Nature (BwN), this application has been used in the past to gain an easily accessible overview of the information that is generated in the program. However, the setup can also be used for data management in other projects.

[>> Read more](#)

In (hydraulic) engineering studies and research and monitoring programs, many data, models and tools are collected and/or developed. The amount of information that is becoming available in this way is not always easily accessible for its users (i.e. project teams, program partners, clients, stakeholders). GoogleEarth based data and models that EcoShape has developed facilitate data management and visualisation in projects. GoogleEarth-based visualisation links to an [OpenDAP sever](#) where all data are stored, and a [kml server](#) where the visualisations are stored - following the [OpenEarth](#) principles.

Building with Nature interest

One of the three principle [eco-dynamic development & design principles](#) of Building with Nature is to **interact differently**: "*Realisation of Building with Nature projects cannot be achieved without interdisciplinary collaboration and early and active stakeholder involvement!*". Bringing together people and knowledge from different disciplines (and hence different working methods) puts high demands on data management and dissemination. In order to meet those demands, Building with Nature has adopted the [OpenEarth](#) infrastructure for its data management. GoogleEarth based visualisation can be seen as an extension of this infrastructure, meant to facilitate accessible dissemination of information to end-users, which includes both Building with Nature partners and other stakeholders.

5 Basic steps towards Building with Nature

Related Building solutions

[Coastal buffer zones](#)

[Habitat requirements for salt marshes](#)

[Perched Beaches](#)

[Strategically placing mud](#)

Related Projects

[Adaptive Management - Melbourne Port Extension, AUS](#)

[Adaptive monitoring of sand extraction areas - Maasvlakte 2 extension, NL](#)

[Governance for sustainability - Øresund Fixed Link \(DK\)](#)

[Sand nourishment - Sand Engine Delfland, North Sea, NL](#)

Related Tools

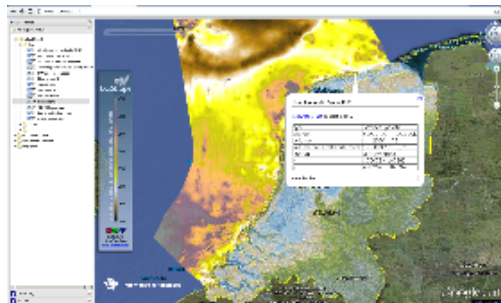
[Biogeomorphological Coastal Modelling System - Delft3D](#)

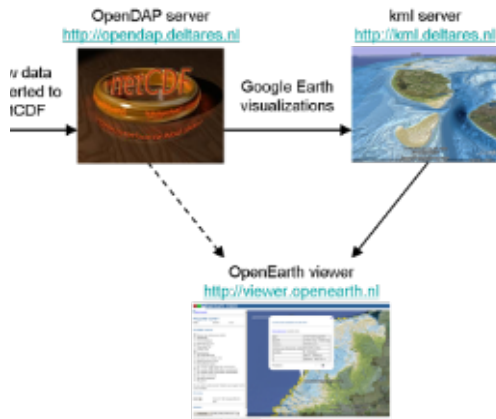
[Coastline intervention tool - Holland Coast - ITHC](#)

[Fibre-optic distributed temperature sensing for monitoring morphological changes](#)

[Geographical data and knowledge management - OpenEarth](#)

[Interactive Dredge Planning Tool - Singapore](#)





How to Use

GoogleEarth based visualisation can be accessed with GoogleEarth desktop application installed in your machine. From there, .kml files in the [kml server](http://kml.deltares.nl) can be accessed or new .kml files can be generated with the help of OpenEarthTools. A web viewer for the visualisation of Rijkswaterstaat BnO-kust data and a web-viewer for Sand Motor data are currently under development.

>> [Read more](#)

Recommendations, Limitations and Lessons Learned

Users are generally familiar with Google Earth and its visualisations have proven to be useful to disseminate data & model results that are changing in both space and time. Other viewers, such as [Mapbox](#), [NHI Data Portaal](#), [Coast viewer](#) or [Deltares Data portaal](#), are available that also support the visualisation for other data formats.

References

>> [Read more](#)

Other viewers

- [Mapbox](#)
- [NHI data portaal](#)
- [Deltares data portaal](#)

[Back to Top](#)