

CLICK TO KNOW MORE



Geo Digital Twin in support of a sustainable future for our living environment





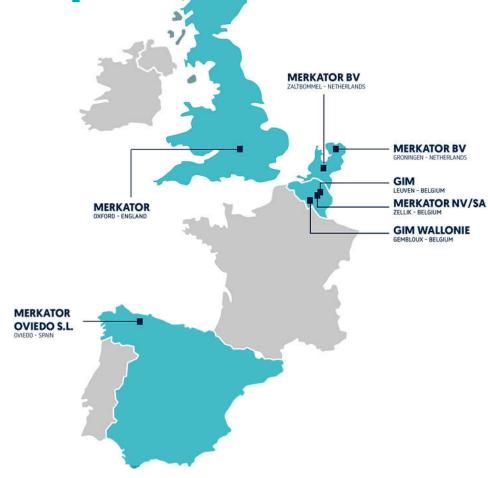
"Every location has a story... we bring it to life"





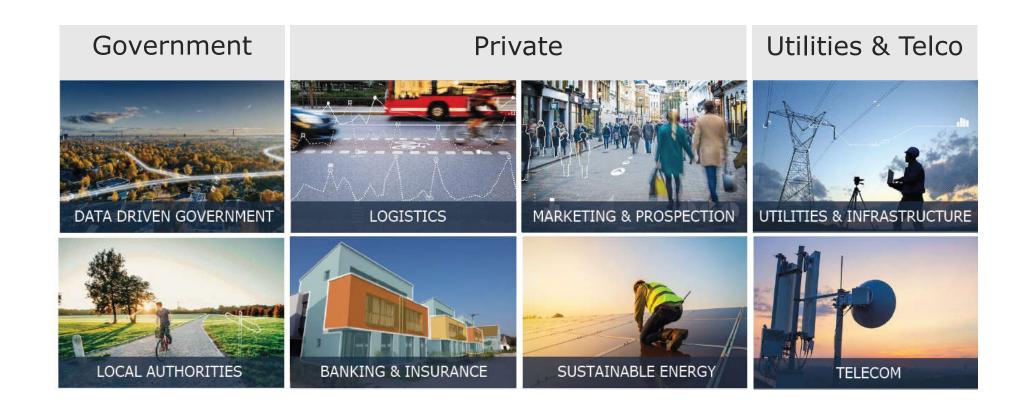
Part of a strong group (since 06/2022)







At home in various markets





All-round expertise for the collection, integration and exchange of geodata





GeoICT
Bringing the story of locations to life





Building blocks of a Geo Digital Twin

3D BASE MAP



SIMULATION PLATFORM



IOT SENSORS









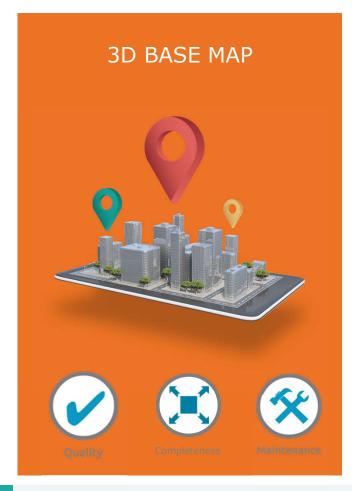
Completeness



Geo Digital Twins - GWF2024 - An Heirman - GIM



Building blocks of a Geo Digital Twin



SIMULATION PLATFORM



IOT SENSORS





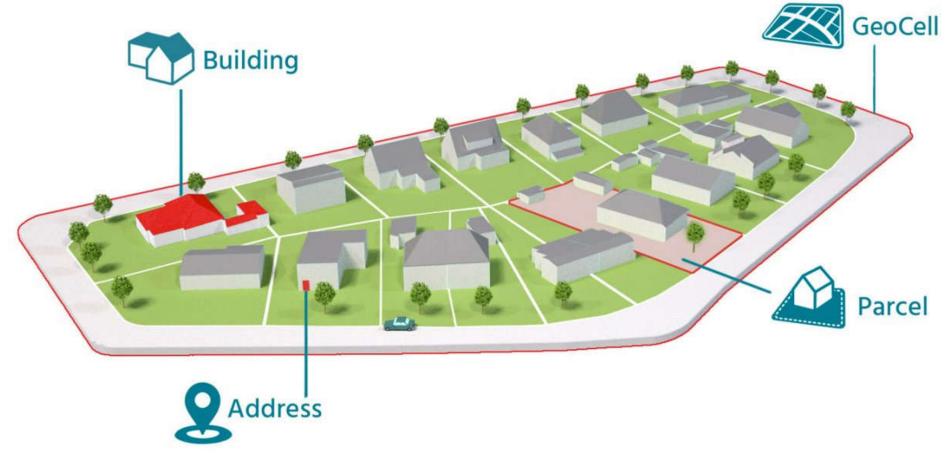
80% of all data is linked to location...





Belmap - Embrace Reality

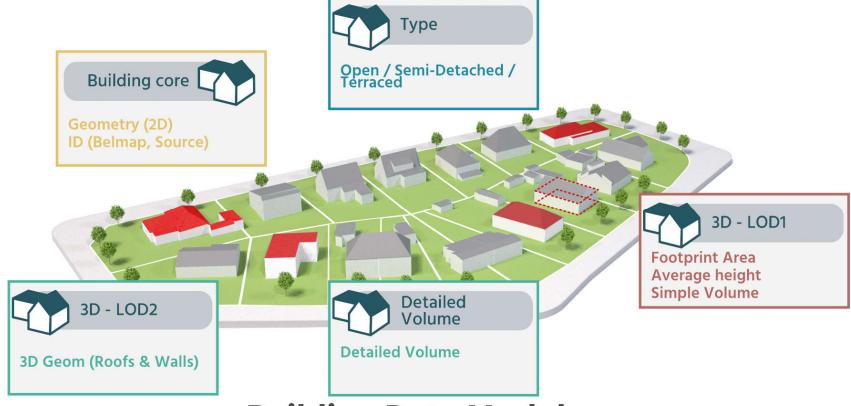






Belmap - Embrace Reality



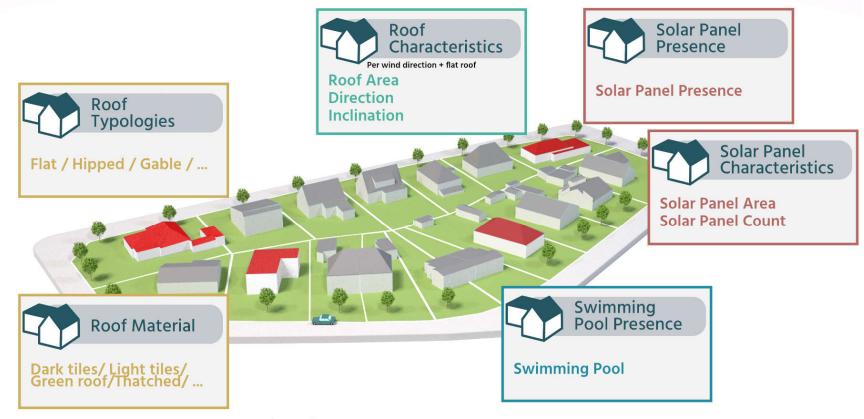


Building Data Modules



Belmap - Embrace Reality 👪 Belmap



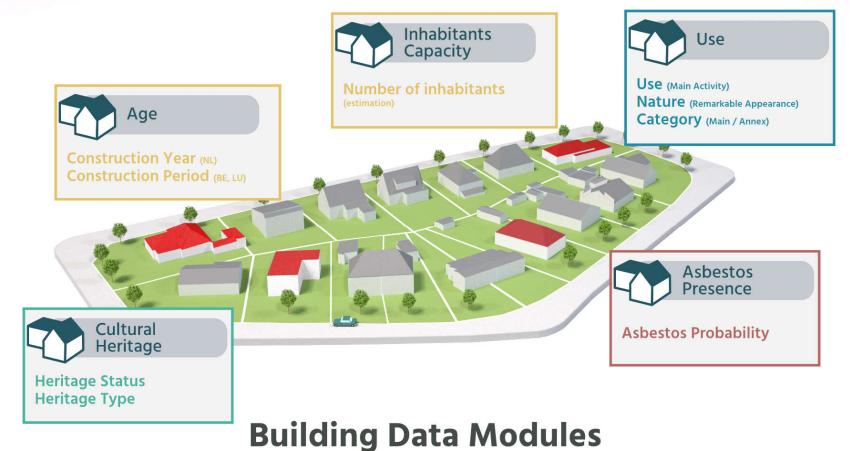


Building Data Modules



Belmap - Embrace Reality 👪 Belmap







Belmap - Embrace Reality



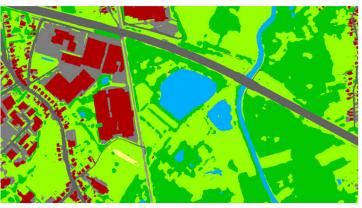


Parcel Data Modules



Garden Modules





GIM's Land Cover Map



GIM's Front Garden Demarcation







Building blocks of a Geo Digital Twin

3D BASEMAP









Completeness







IOT SENSORS





Zanadoo - Geo Digital Twin Platform Understand the dynamics of today's and tomorrow's realities

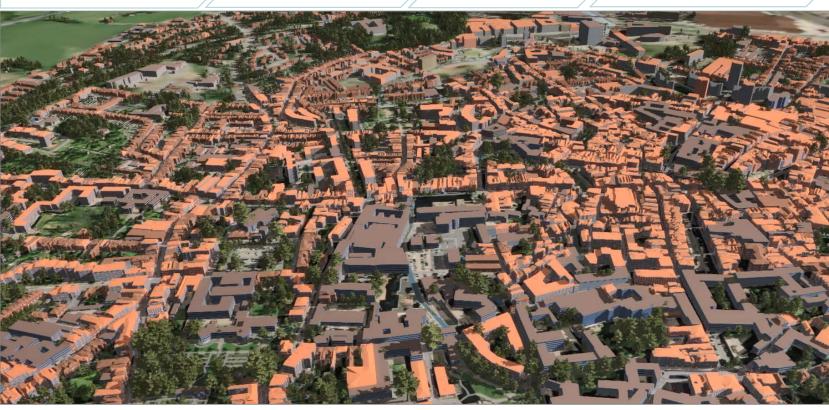






Urban Planning







Use Case: Sustainable Urban Planning

- New housing block for young families > focus on no private garden but embedded in existing, already developed space with communal facilities
- Bottleneck between affordable housing and sufficient green/open space
- Consider impact on heat stress traffic - livability



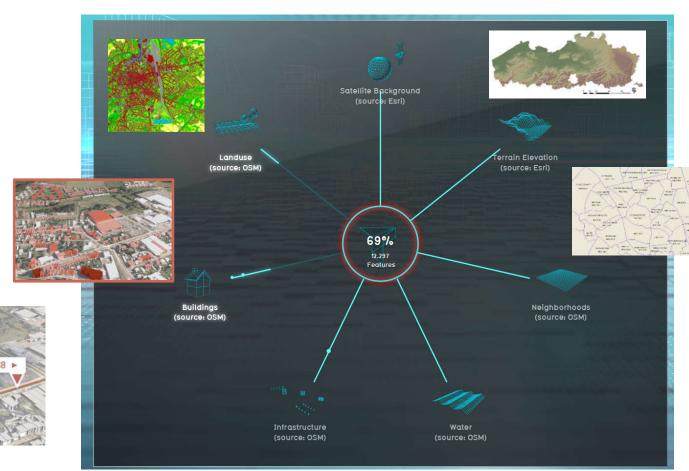


Loading data for building the 3D environment & the use case

- Belmap LOD1 / LOD2
- Landcover Map
- DHMVII
- Statistical Sectors (NIS)
- Trees
- Traffic (TomTom)



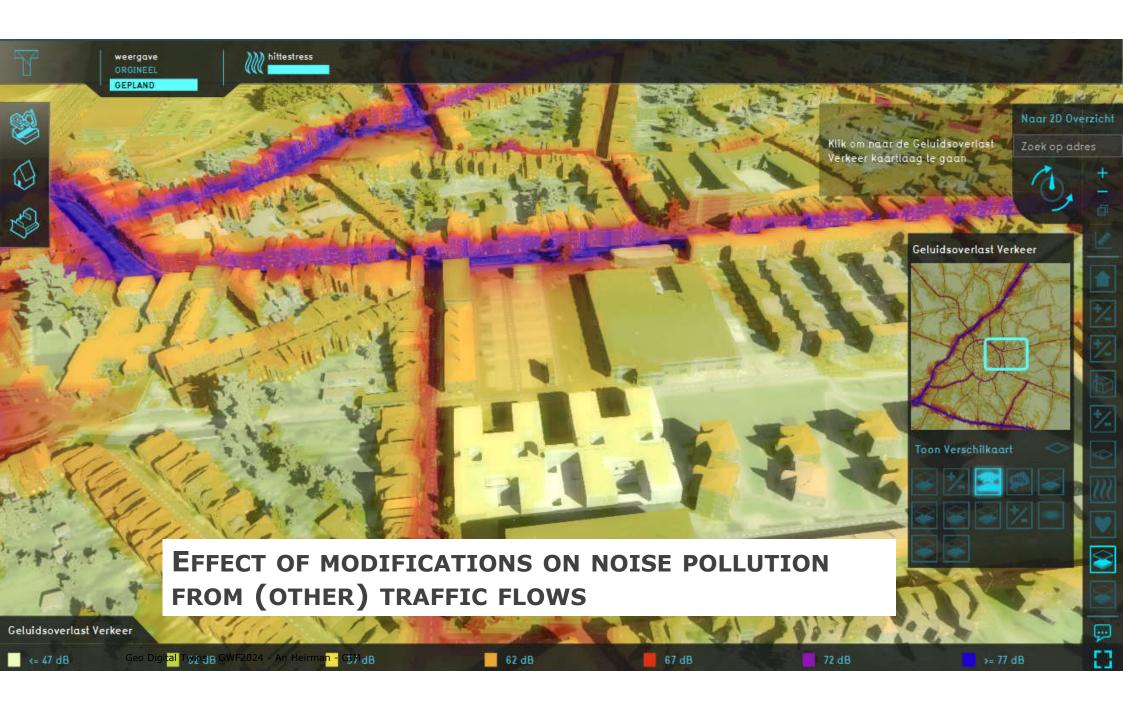










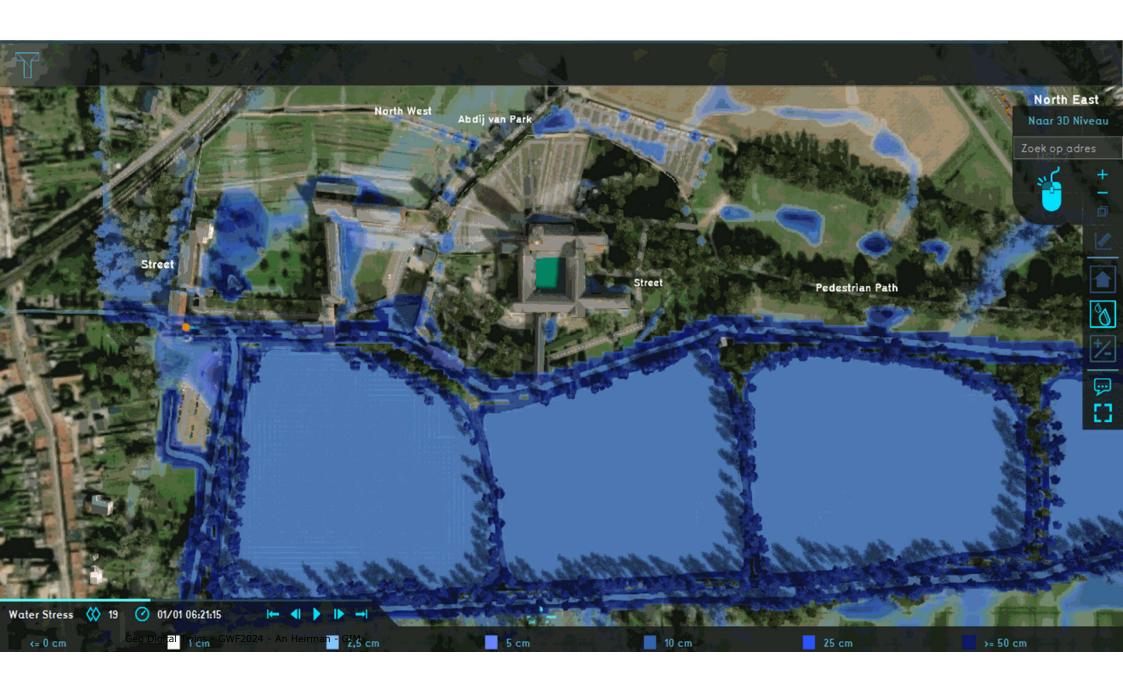






Use Case: climate and water







Use Case: Energy transition

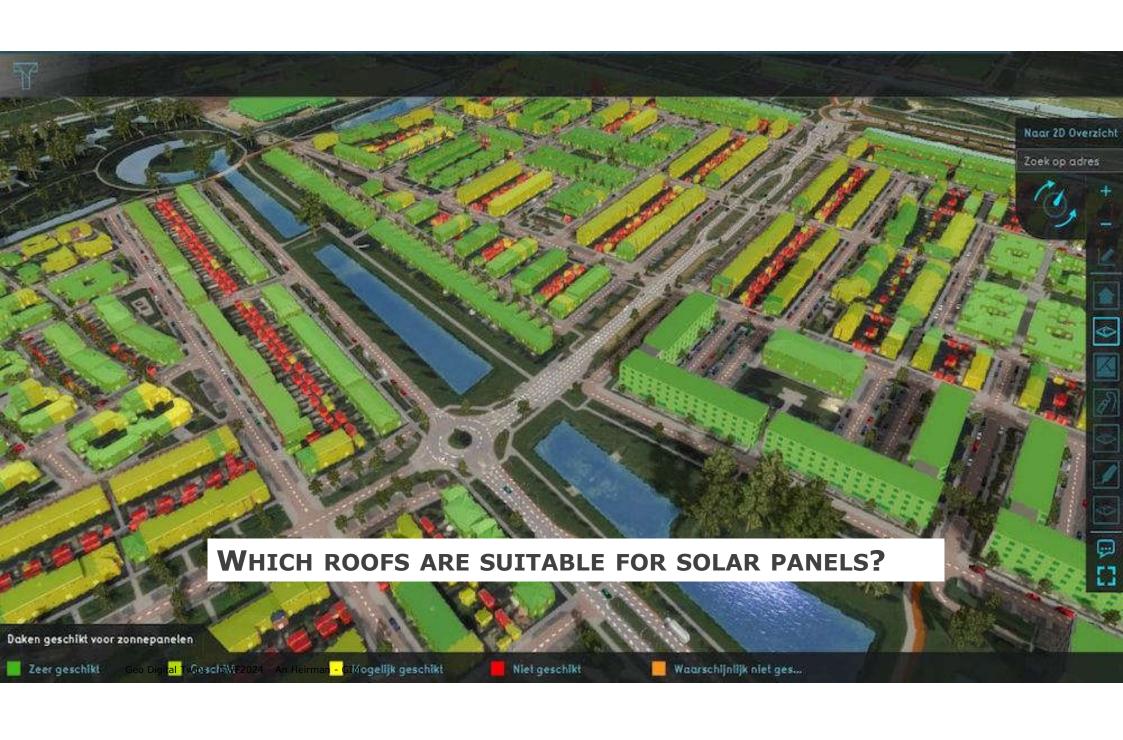
'Energy dashboard'

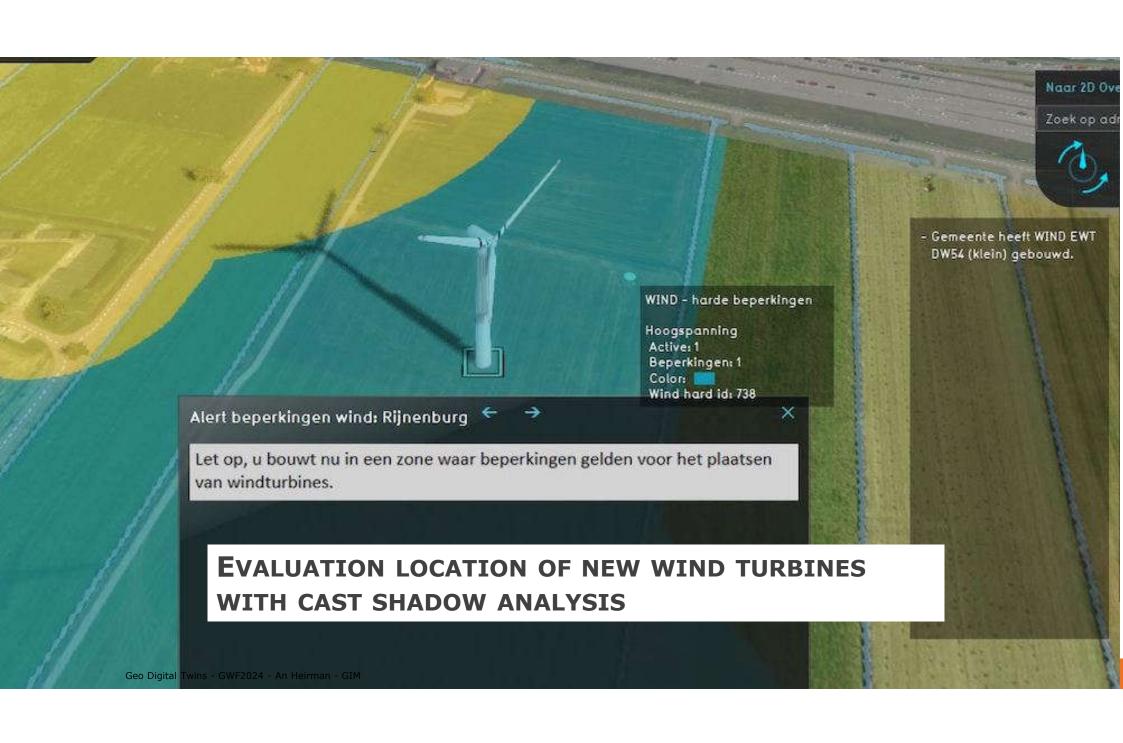
- Investigate which energy transition measures are possible in a given area (municipality, neighborhood, etc.)
- Evaluate results, adjust goals
- Use Dashboard in participation moments with experts, local residents, companies, ... through the presentation of different scenarios

Dashboard for Our Green Energy Projects

his slide depicts the dashboard for our green energy projects by covering details of total projects, projects by sector, energy sources, the contribution of green energy projects in households, industry, etc









"A digital copy of the built environment that models reality and enables to shape a sustainable future"

from 2D GIS...



to 6D Geo Digital Twins





Thank you

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