

BIM empowered digital twin as part of energy transition

Mathias Everaert

ORGANIZED BY:









Revolution Lize the built environment



Construction technology for asset owners & builders

Data Platform for Operational Excellence & Sustainability in AECO Industry









= neanex Helping the industry to open, connect and centralize asset data. Involved in research project: DigiChecks & Sphere

- Consortium: 13 entities from 5 countries
- Purpose:
 - Developing a digital framework that focuses on the <u>permitting processes in construction projects</u>.
 - A more streamlined approach
 - Using individual tools and services (that each excel in a specific step of the permitting process)
 - With an <u>integrated and interoperable approach</u>
- Neanex within DigiChecks
 - Is focusing on <u>interoperability and the semantic model of the framework</u>
 - Share knowledge of <u>ontologies and Linked Data</u>
 - Share knowledge and expertise about how to <u>apply ontologies in construction projects</u> (Fundamend)
 - Share knowledge and expertise from research project: Sphere <u>Digital asset register</u>



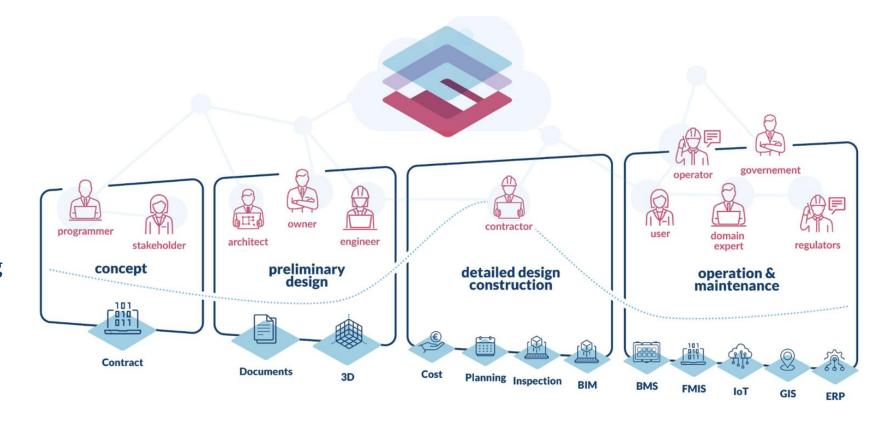




Information is scattered in tools, teams & data formats

Challenges

- Interoperability
- Data migration & reengineering
- High Cost of data mapping
- Error prone
- Data Loss





Risks of scattered information







30% of project staff time is lost

because they are looking for data or information

50% of relevant information is lost

before the asset is becoming operational

90% of companies claim to be locked into legacy systems

and find it difficult to re-use their information





Web Based 3D driven Digital Twin Solution for Critical Asset Data

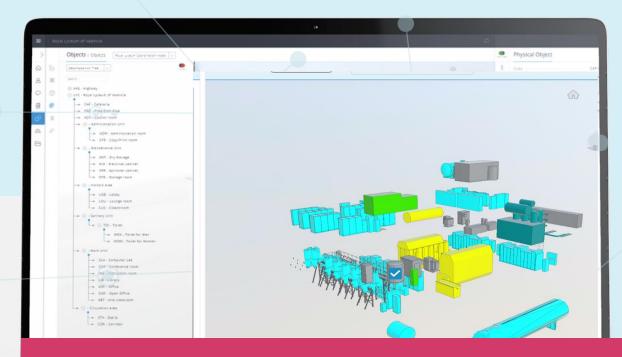


developed by neanex

Lower costs in Operations

Speed up delivery

Get control back



Multi application-use of independent & re-usable data

MacBook Pro

<u>Centralized info collection</u>, across lifecycles, tools & teams



Linked Data Standards & W3C

Combine, enrich, handover

without disrupting your way of working

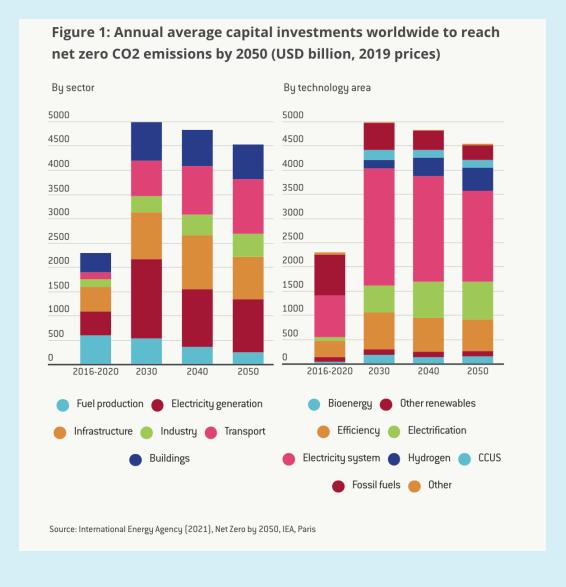




Add or enhance data Apply domain standards, ontologies and OTL's



Europe (& the world) has a huge challenge in keeping up with delivering physical assets & infrastructure to support the (fast) energy transition



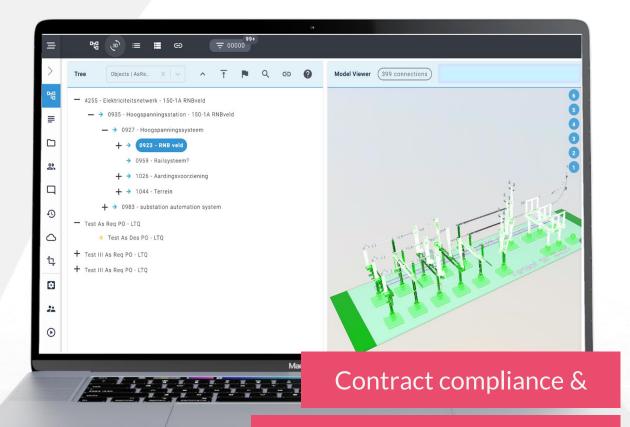


Faster project delivery





25% Faster delivery



Maintenance power stations

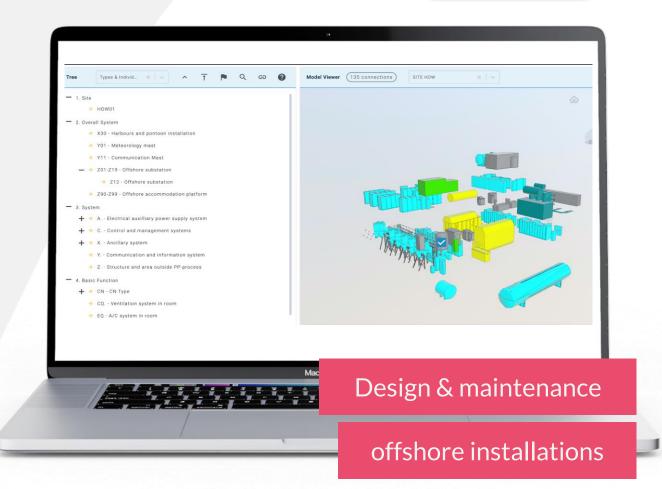


Save time from design into operations





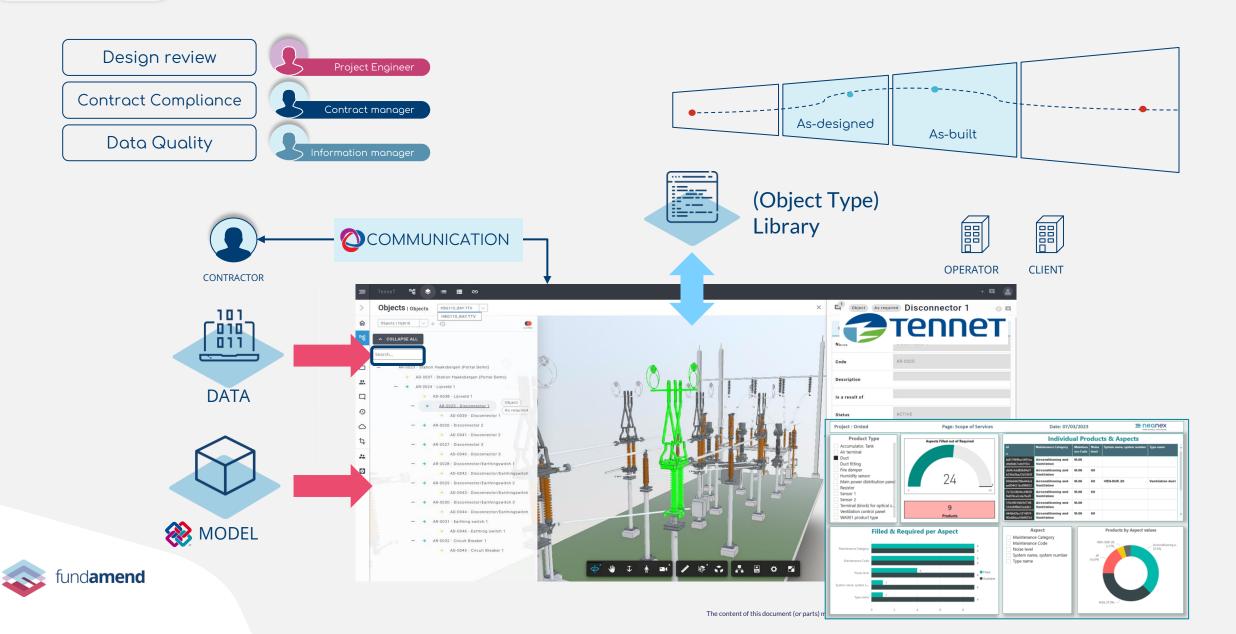
30% Time saving







Tennet Data Delivery & Quality





One Platform - many solutions

Fundamend Insight

All that data needs the right checks, reports and ways to access the right information.

- BIM Quality
- Checks
- Quantity take off
- Data Management
- BI Module
- RDF Compliant

Fundamend Twin

Fundamend Twin offers the backbone of your digital twin as a Digital Twin Register.

- CAD Connector
- Building Assembly
- Digital Handover
- API
- Data delivery
- Integration platform
- IoT Connect



Fundamend Control

Control Quality, Completeness & Progress of your information.

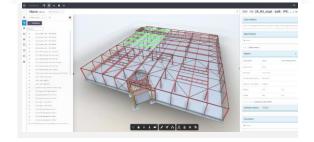
- Automated data delivery
- Apply standards
- Contract compliance
- Checks
- Dashboards
- BIM Quality
- CAD Connector



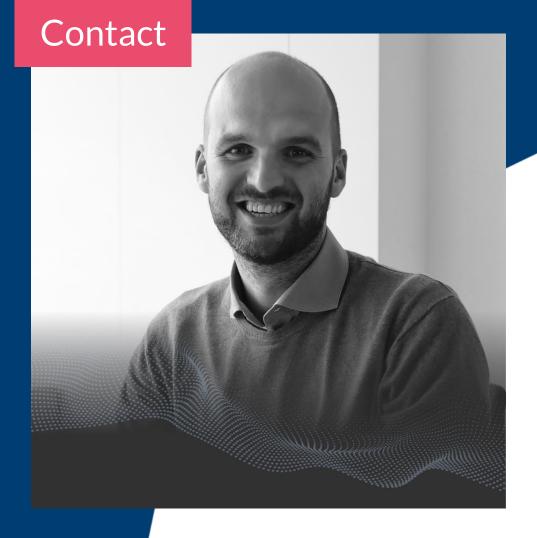
Fundamend Passport

Fundamend builts a digital representations of your asset. Like an assembly of assets, material, carbon, cost, ...

- BI Module
- Carbon Insights
- Dashboards
- Material Assembly
- Building Assembly
- Digital Handover









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