🚀 Move to **BIM level 3** where only data and processes remain and where 🔓 your **data is yours**

data driven construction.io

CAD (BIM) data quality

Excel Add-in

Data filling in CAD (BIM)

Date analytics in construction

LLM for CAD (BIM)

Workflows

Pipelines

Guidebook

Workshops

Consulting

Proof of Concept

Users Across the Globe are Transforming Insights with Open Data for Smarter, Faster, and More Efficient Decisions

CAD (BIM) data quality

Excel Add-in

Data analytics in construction

Data filling in CAD (BIM)

LLM for CAD (BIM)

Pipelines Workflows

Dmitri Garbuzenko
BIM and AIM Coordinator | RB Rail AS

★★★★★

With the help of Python and especially the pandas library, as the DataDrivenConstruction team does, we are now able to perform delivery checks four times faster.

With the help of Python and especially the pandas library, as the DataDrivenConstruction team does, we are now able to perform delivery checks four times faster. By turning IFC data into a pandas DataFrame and comparing it with quantification tables or classification databases, we have made our expertise fast and reliable.

Daniel Glober
BIM-Manager | SCHOLZE-THOST GmbH

★★★★★

Revit and IFC reports that used to take me almost weeks to create are now updated in just a few minutes. I was able to quickly understand what the DataDrivenConstruction did and thus extend and modify it to fit projects.

The DataDrivenConstruction team showed me examples of blocks and scripts that can automatically generate PDF, XLSX, and DOCX files that mark errors/defects in the model. Additionally, we also now do automatic checks for IFC structure, file naming, etc.

Valerio Spini
Settore RVCS

★★★★★

Great experience: Until now, I used to open IFC files in Blocknote to check the parameters and their structure.

Thanks to the DataDrivenConstruction converter I can check the parameters and see their structure directly in MS Excel in an orderly and SMART way, amazing!

Nils Strumberger
BIM- Coordinator | Fact GmbH

★★★★★

The DDC (Data Driven Construction) Excel Plugin is a game-changer, transforming proprietary CAD models into open source data frames for seamless integration and AI interaction.

It significantly improves workflows and offers exceptional value for money by saving time and boosting productivity. Highly recommended for anyone looking to enhance their projects with data-driven insights.

Jānis Dzenis
BIM Coordinator | Merks, SIA

★★★★★

This is a fantastic tool, haven't seen one like this in a long time. In this era, we have countless tools and methods for creating models, drawings, tables, and other forms of data.

The DDC Excel plugin provides me with the capability to manage information in alternative ways.

Vinod Kumar
BIM Manager | Esttareal solutions

★★★★★

DataDrivenConstruction approach is truly revolutionary and has the potential to transform the construction industry. It's amazing to see how you are empowering users to work with structured data in a user-friendly way, leveraging the power of Excel and open-source tools.

I'm sure that your Excel plugin and data management solutions will be a game-changer for construction projects. Keep up the fantastic work!

Abdelrahim (Mohamed) D...
BIM Manager | Consolidated Contractors C

★★★★★

DDC converter and Plugin is a fantastic and helpful tool for visualisation and quantification the meta data from Revit. Thanks for sharing such helpful tools!

Mohamed Touati
Principal Data Scientist at Pixemantic

★★★★★

As a data scientist, I use data every day in every topic and field and think that data can appear in one format to make it easier to use and explore.

After I tried the DDC converter, it became the only solution for me to manage and convert all BIM documents. Thanks to DataDrivenConstruction, I can now work with all IFC and Revit files automatically without having to upload files to the server.

Irina Fischer
BIM Coordinator | OBERMEYER Group

★★★★★

The decision to use Jupyter Notebook for results verification turned out to be highly beneficial. Our experience with solutions from Data Driven Construction and Jupyter Notebook has been extremely positive.

Overall, the integration of solutions from Data Driven Construction and Jupyter Notebook has greatly improved our workflows. Their combined capabilities and performance have not only optimized data processing, but also produced meaningful results, making them highly recommended tools.

Prof. Dr.-Ing. Michael Bühler
Co-Owner GemeinWerk Ventures

★★★★★

Be part of the movement with DataDrivenConstruction! Let's make true freedom in data formats a reality and catalyze a new era of productivity and innovation in construction.

The real and necessary journey from closed to "open" formats has not even started: True freedom in data formats —free from proprietary ties and accessible to all—is what we need to unlock innovation and collaboration across the construction industry, particularly benefiting the 99% of construction, i.e. SMEs and unchaining the sector for accelerated growth

Marie Annette Kittus
BIM Manager | Esttareal solutions

★★★★★

DataDrivenConstruction Excel Add-In is a wonderful additional tool to help extract data from CAD (BIM) Revit, IFC, DWG files in order to move forward with information validation processes in your workflows.

As we move forward in the industry it is crucial to think about diversity of data and how to find the most suitable outputs in order to keep said data valuable, up to date and usable.

An influential tool with a user-friendly interface helping the construction industry move towards the future!

Nicolas Merot
Ingénieur BIM | Caeli Ingénierie

★★★★★

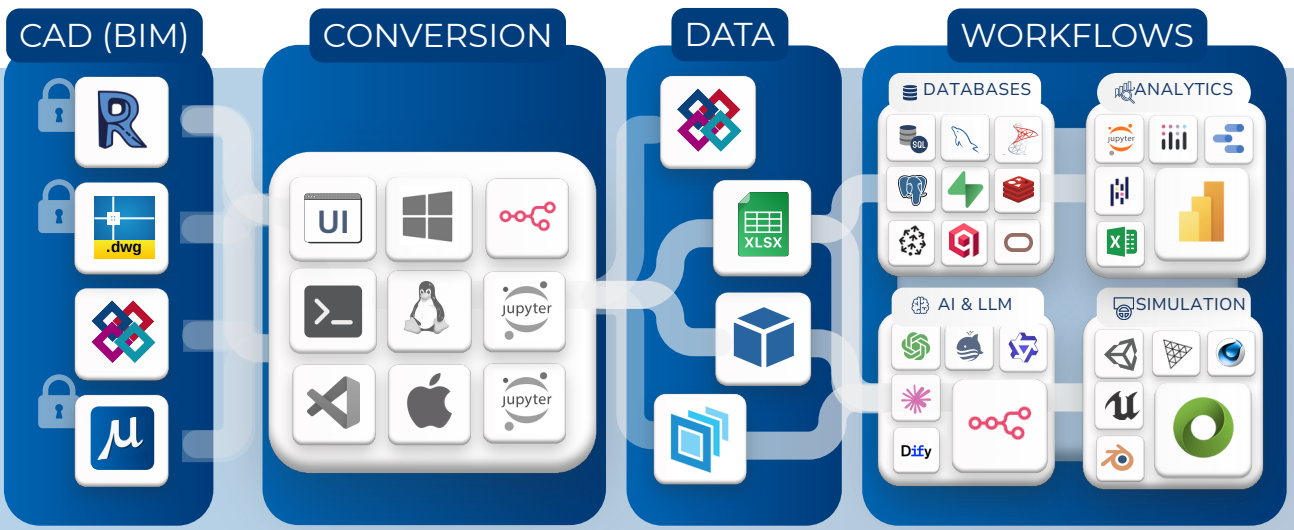
DataDrivenConstruction products revolutionize data management in construction! Their IFC and RVT to Excel converters enable smooth data analysis and extraction, optimizing project management and documentation.

A powerful, user-friendly solution for construction professionals

n8n CAD (BIM) Data Pipelines

zero fees
no license cost

v2015-v2026 | IFC2x3, IFC4x1, IFC4.3, IFC4x4, IFC4x | 1983-2026 | v7-v8



no Plugins | no Autodesk® | no Internet | no quality loss | no hidden fees

offline | standalone

CAD (BIM)
conversion
& workflow

AI DDC

+ Conversion | + LLM | + Batch Processing | + USD | + Pipelines | + RAG | + BigData
+ Drawings | + Shedules | + QTO | +Data Analytics | + Autoclassification | +Validation

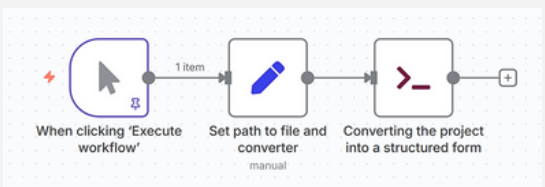
DDC Clients and Users:

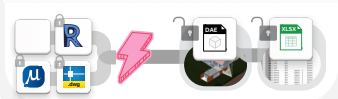
AECOM | DREES & SOMMER | VRAME | merks | RBS wave | RENAISSANCE CONSTRUCTION | HYUNDAI AutoEver
Lindner | Shapemaker | SHOLZE THOST | ARTELIA | TMM GROUP | VINCI ENERGIES | Sintagma

n8n CAD (BIM) Data Pipelines

Data Structuring

n8n n8n_Revit_IFC_DWG_Conversation_simple.json





Advanced Conversion

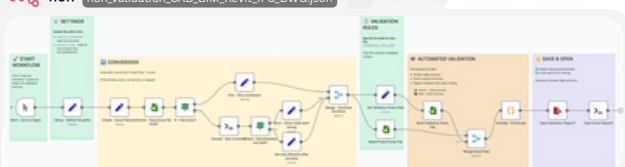
n8n n8n_All_Settings_Revit_IFC_DWG_Conversation_simple.json

Batch Processing

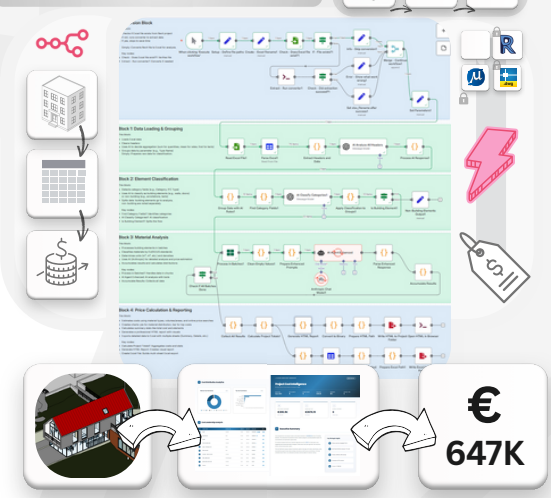
n8n CAD-BIM-Batch-Converter-Pipeline.json

Data Validation

n8n n8n_Validation_CAD_BIM_Revit_IFC_DWG.json

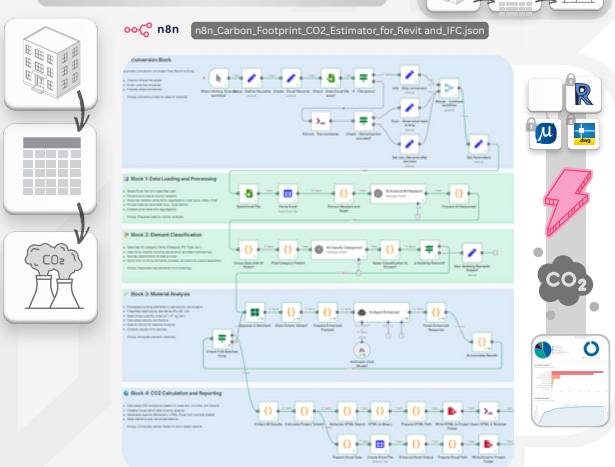


Cost Estimation



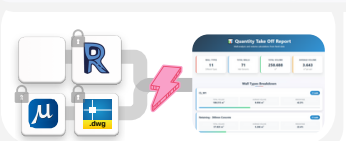
Carbon Analysis

n8n n8n_Carbon_Footprint_CO2_Estimator_for_Revit and_IFC.json

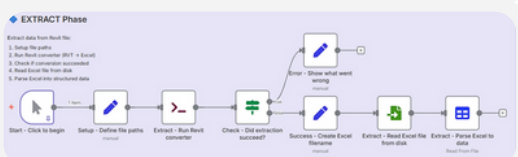


Report Generation

n8n n8n_CAD_BIM_Quantity_TakeOff_HTML_Report_Generator.json



n8n n8n_Revit_IFC_DWG_Conversation_EXTRACT_Phase_with_Parse_XLSX.json



automate the verification process

CAD (BIM) data quality

data-driven construction.io

🚀 Move to BIM level 3
🔓 Your data is Yours

Challenges	Objectives	Solution
Poor quality data Errors in models and parameters can lead to significant financial losses.	**Ensure high quality** of data coming from CAD and BIM systems	**Data conversion** Provides easy access an processing of data
Integration complexity Integrating data from different sources and formats requires significant resources.	**Reduce errors** and inconsistencies in models	**Open Data Formats** Use granular, structured data for simplified data integration
Closed data formats The use of proprietary formats makes it difficult to access and process data.	**Improve the process** of data integration and processing for later use	**Process Automation** Use Python and LLM to validate, analyze data

5 STEPS FOR ENSURING QUALITY OF CAD (BIM) DATA

01 Parameterization of the task

02 Creating validation rules

03 Fully automatic quality control

04 Fill the model with the right data

05 Presentation of verification data

datadrivenconstruction.io
info@datadrivenconstruction.io

no API needed | no file based | no hidden fees | no internet needed | no limitations | no quality loss | no plugins | no subscription | no CAD-BIM needed

BIM level 3 | granular data | open data | unified | DataFrame | LLM | analytic | open source tools | data-driven decision | structured data | pipelines

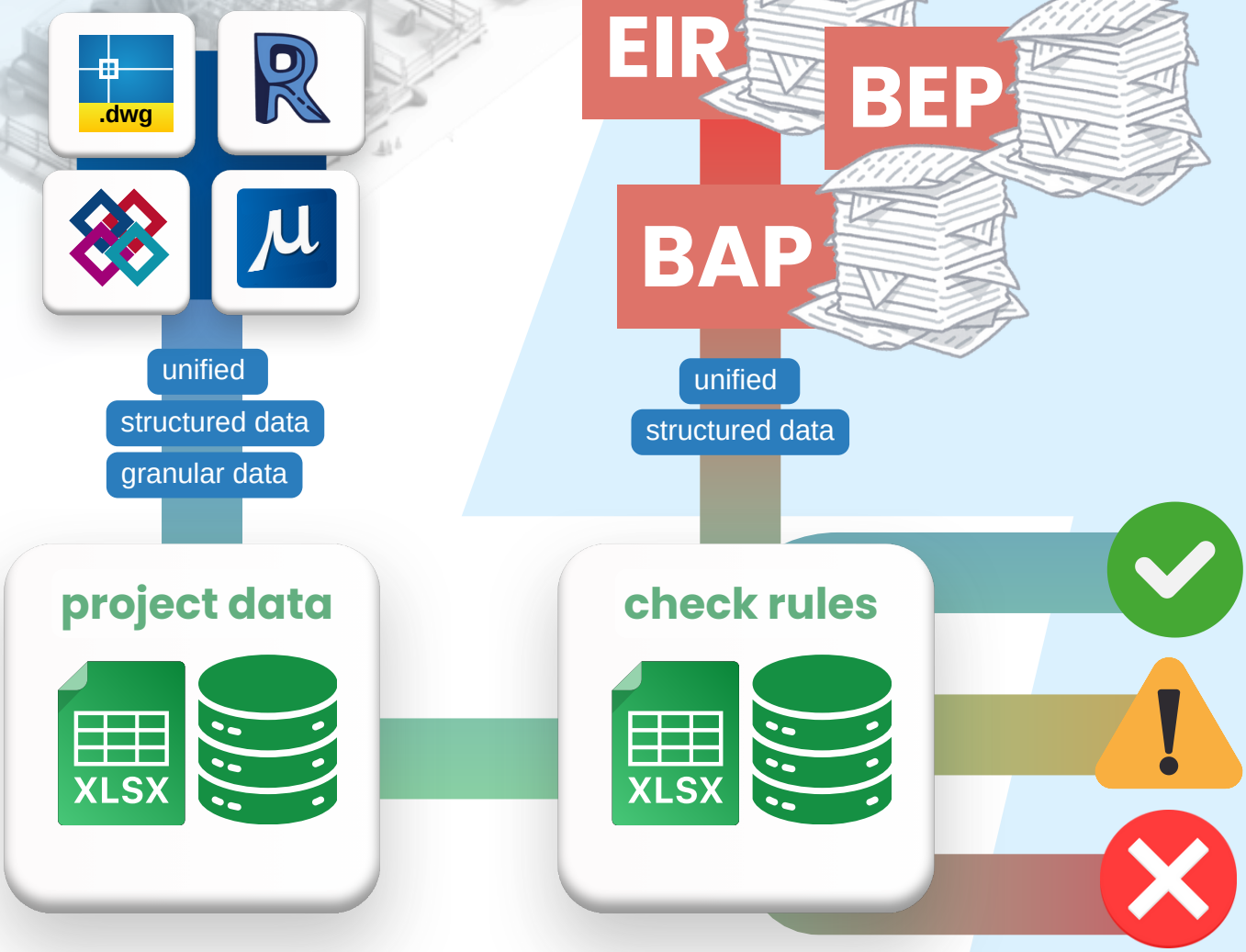
streaming check within seconds

Checking the quality

data driven construction.io

Move to BIM level 3

Your data is Yours



datadrivenconstruction.io
info@datadrivenconstruction.io

no API needed | no file based | no hidden fees
no internet needed | no limitations | no quality loss
no plugins | no subscription | no CAD-BIM needed

BIM level 3 | granular data | open data | unified
DataFrame | LLM | analytic | open source tools
data-driven decision | structured data | pipelines

Excel Add-in

data driven construction.io

🚀 Move to BIM level 3
🔓 Your data is Yours

RVT X

IFC X

.dwg DWG X

FUNCTIONAL APPLICATIONS AVAILABLE IN THE DATADRIVENCONSTRUCTION PLUGIN FOR EXCEL

Your Bridge Between Excel and CAD (BIM)

datadrivenconstruction.io
info@datadrivenconstruction.io

no API needed | no file based | no hidden fees
no internet needed | no limitations | no quality loss
no plugins | no subscription | no CAD-BIM needed

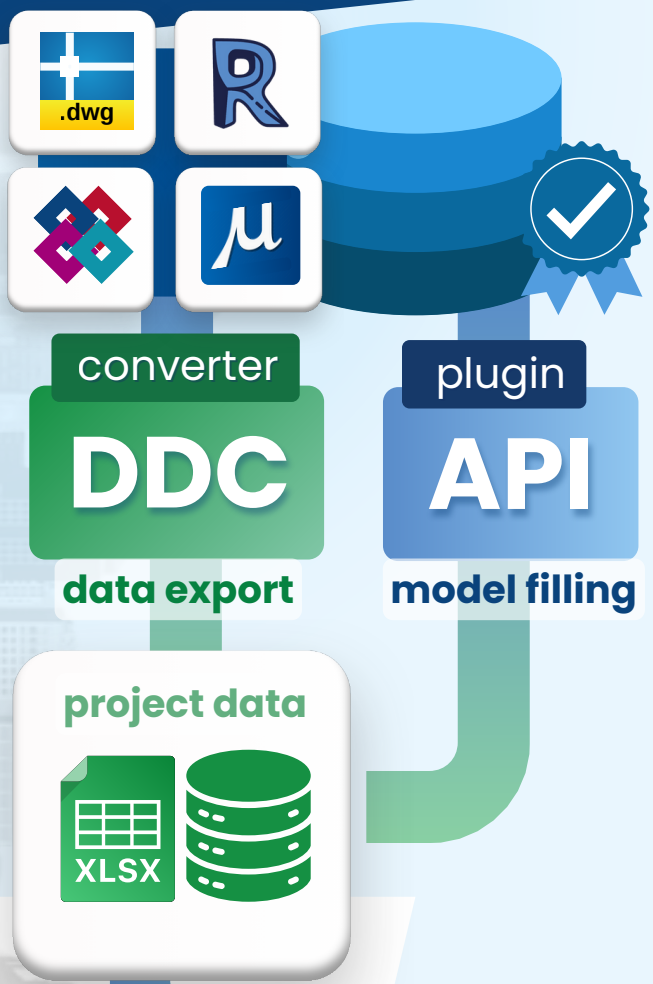
BIM level 3 | granular data | open data | unified
DataFrame | LLM | analytic | open source tools
data-driven decision | structured data | pipelines

Data filling in CAD (BIM)

data driven construction.io

Move to BIM level 3

Your data is Yours



Benefits

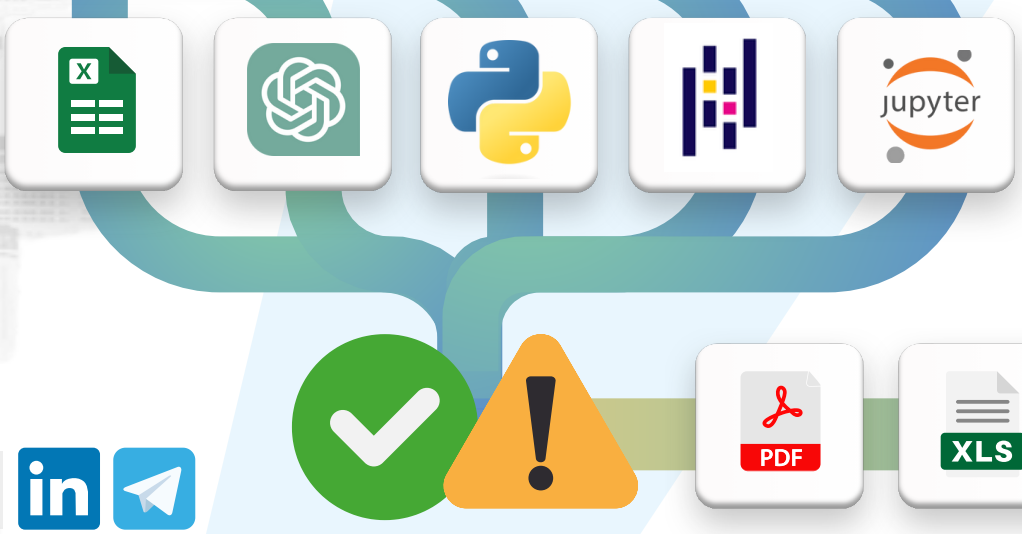
Data Security
Data is under complete control and accessible without third-party vendors

Interoperability
Interoperability between different systems, regardless of their origins

Improved Collaboration
Collaborate in real time with open data and tools

Scalable Solutions
Solutions that easily scale to any project size

Cost Efficiency
Reduce costs by utilizing free and open source tools



datadrivenconstruction.io

no API needed | no file based | no hidden fees
no internet needed | no limitations | no quality loss
no plugins | no subscription | no CAD-BIM needed

BIM level 3 | granular data | open data | unified
DataFrame | LLM | analytic | open source tools
data-driven decision | structured data | pipelines

TEXT TO ACTION

LLM for CAD-BIM

data driven construction.io

Move to BIM level 3

Your data is Yours

GROUPING AND PROCESSING WITH ONE LINE OF CODE

Input

```
# Whether each element contains the values

df[df['Category'].isin(['Wall', 'Window'])]
```

Id	Category	Length	Volume
12577	Wall	3200	1.0
15889	Wall	5400	6.0
74456	Window	1700	0.5

Input

```
# Grouping a Revit or IFC project by parameters

df.groupby('Category')['Volume', 'Length'].sum()
```

Category	Volume	Length
Door	0.3	1300
Wall	7.0	8600
Window	0.5	1700

Input

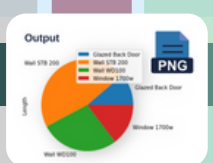
```
from fpdf import FPDF

# Determining the volumetric characteristics of the group
s_cat = 'Window'
df0= df[df['Category'].str.match(s_cat)]
df0 = df0.groupby('Category')['Volume', 'Length'].sum()
cat_len = str(df0.iloc[0]['Length'])
cat_vol = str(df0.iloc[0]['Volume'])

# Creating a PDF document based on the parameters found
pdf = FPDF()
pdf.add_page()
pdf.set_font('Arial', 'B', 16)
pdf.cell(190, 8, 'Category: ' + s_cat, 2, 1, 'L')
pdf.set_font('Arial', '', 14)
pdf.cell(190, 8, 'Sum of volumes: ' + cat_vol, 2, 1, 'L')
pdf.cell(190, 8, 'Sum of lengths: ' + cat_len, 2, 1, 'L')

# Saving a document in PDF format
pdf.output('c:\Report_DataDrivenConstruction.pdf', 'F')
```

Output



PDF

TEXT REQUESTS VIA PROMTS IN LLM CHATS

Filter the data in the project to keep the wall category items in the project

Group the project by the "Type Name" parameter and show the volume of each group

Choose the first 20 types by volume and show the result as a Pie chart

Create a PDF report with a table and a graph

Llama 3 From Meta

datadrivenconstruction.io
info@datadrivenconstruction.io

no API needed | no file based | no hidden fees
no internet needed | no limitations | no quality loss
no plugins | no subscription | no CAD-BIM needed

BIM level 3 | granular data | open data | unified
DataFrame | LLM | analytic | open source tools
data-driven decision | structured data | pipelines

Moving from Files to Granular Data

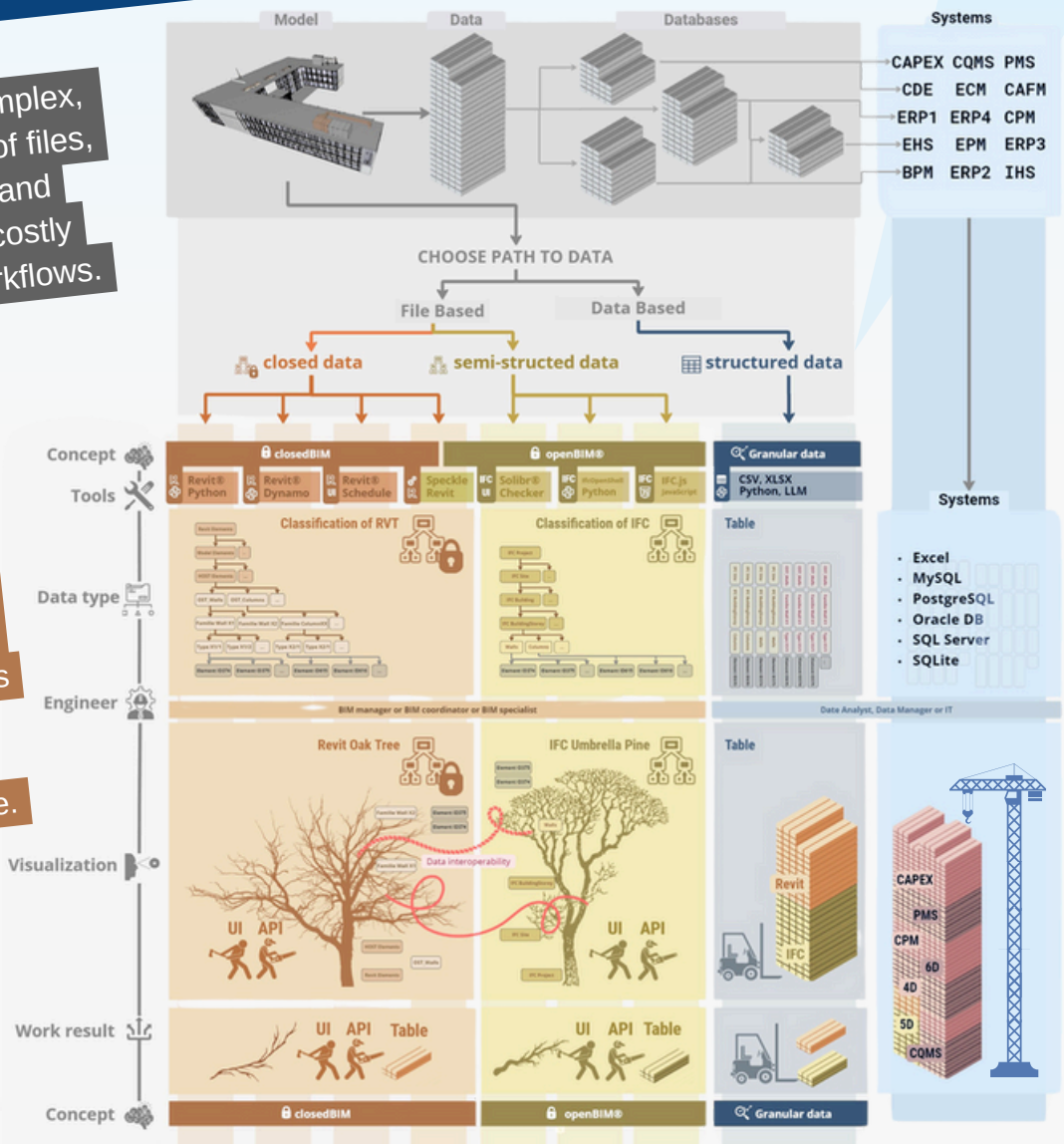
data driven construction.io

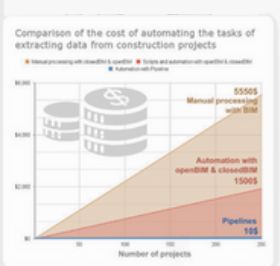
CAD (BIM) project management is complex, the sheer number of files, different schemas and versions leads to costly and inefficient workflows.

Different project formats have different data schemas that need to be adapted to when processing each business case. Dozens of different schemas make unified data processing impossible.

Complex structured formats in semi-structured form make it difficult to access element properties.

With DDC Data Models, you unlock efficiency, reduce costs, and gain a reliable source of truth to achieve your project goals faster.





datadrivenconstruction.io
info@datadrivenconstruction.io

no API needed | no file based | no hidden fees
no internet needed | no limitations | no quality loss
no plugins | no subscription | no CAD-BIM needed

BIM level 3 | granular data | open data | unified
DataFrame | LLM | analytic | open source tools
data-driven decision | structured data | pipelines

Online and Offline

Workshops

theory

data driven construction.io

The workshop consists of several modules, which can be chosen in any order and in any number, allowing you to tailor the learning process to your interests and needs. Each module is designed to be concise and as informative as possible, lasting 40-60 minutes.

Introduction to Data in Construction

1.1 Data Automation and Workflows in Construction
1.2 Data Management Systems in Construction
1.3 Different types of Data, Databases and Excel
1.4 Data-Driven Decision Making in Construction Projects

History and Development of CAD/BIM

2.1 The Evolution of CAD: From 2D to 3D Design
2.2 Autodesk's Acquisition of Revit and the Rise of BIM
2.3 Closed vs. Open BIM: The Debate and Its Consequences
2.4 The Role of IFC in BIM Standards and Open Data Formats

CAD/BIM and Data Parameterization

3.1 Automated Data Processing Workflow in Construction
3.2 Exporting and Processing Project CAD (BIM) Data
3.3 Quality Control in CAD (BIM) Project Data
3.4 The Future of CAD (BIM) Data Processing
3.5 Solving Problems of Closed Data Formats in BIM

Challenges of BIM, openBIM, and IFC

4.1 Common Challenges in BIM Implementation
4.2 Limitations of Closed BIM Systems
4.3 The Role of openBIM and the Limitations of the Concept
4.4 Overcoming Interoperability Issues with IFC
4.5 The Final Level of BIM Maturity

Open Data and Tools in Construction

5.1 Transitioning to Open Data Systems in Construction
5.2 Challenges and Benefits of Implementing Open BIM
5.3 Process Automation Using Open Tools
5.4 Integrating Open Source Tools into Construction Processes

Data Types in Construction

6.1 Managing Structured Data: Excel and Relational Databases
6.2 Processing Unstructured Data: Text, PDFs, and Documents
6.3 Working with Semi-Structured and Geometric Data
6.4 Understanding CAD (BIM) Data and the BOM-BIM Concept

Data Quality and Requirements

7.1 Ensuring Data Quality in Construction Projects
7.2 Creating Requirements and Task Parameterization
7.3 Automating Data Quality Assurance Processes
7.4 Data Validation Methods and Reporting Results

Data Management in Construction Projects

8.1 Data Integration Between ERP and BIM Systems
8.2 Data Modeling and Standardization Techniques
8.3 Integrating Diverse Data Systems and Formats
8.4 Converting Unstructured Data into Structured Formats

Automating the Design Process

9.1 Serial Construction and Design Parameterization
9.2 Libraries, families and metadata
9.3 Visual Programming Tools: Dynamo and Grasshopper
9.4 Understanding APIs and the Role of Python in Construction
9.5 Creating an Automated Workflow and Pipeline for Projects

Data Analytics and Data-Driven Decision Making

10.1 Structuring and Granularity of Multi-Format Data
10.2 Introduction to the Analytics Tool for Data Automation
10.3 Replacing Excel Data Processing via Data Analytics
10.4 Visual Representation and Analytics for Insights
10.5 Tracking KPIs and Project Performance with Dashboards
10.6 Analyzing and Interpreting Data for Strategic Decisions

Data Analytics and Visualization Tools

11.3 Automating Data Cleaning and Transformation
11.4 Visualizing Construction Data with Python and Pandas
11.5 Advanced Techniques and Integration with Databases
11.6 Automation of report generation based on Excel and PDF sources

Big Data and AI in Construction

12.1 Using Big Data in Construction Projects
12.2 Collecting Data from Diverse Sources
12.3 Forecasting with Machine Learning Methods
12.4 Improving Decision-Making with Big Data Analytics
12.5 Applying ChatGPT and LLM Models for Data Analysis

Digital Transformation in Construction

13.1 Challenges of Digitalization in the Construction Industry
13.2 Impact of Digital Tools on Project Management
13.3 Ensuring Data Quality During Digital Transformation
13.4 Key Stages of Transformation That Companies Will Have to Go Through

Cost Estimation and 4D/5D in Construction

14.1 Frameworks and Methods for Estimating Volumes, Costs, and Timelines
14.2 5D BIM: Cost Estimation and Budgeting
14.3 Creating Cost Estimates for Construction Projects
14.4 Implementing 5D BIM and Automating 4D/5D Processes
14.5 Future Trends in Project Calculation Methods

Carbon Footprint and Environmental Automation

15.1 Estimating the Carbon Footprint in Construction
15.2 Automating CO_2 Emissions Calculations
15.3 Applying 6D, 7D, 8D Dimensions to Project Data

Challenges in Data Management

16.1 Addressing Data Quality Issues in Construction Projects
16.2 Integration Challenges Between Different Data Systems
16.3 Overcoming Obstacles of Closed Data Formats

ERP Systems in Construction

17.1 Overview of ERP Systems in Calculations and Estimates
17.2 Modular Design of ERP Systems
17.3 Challenges and Transparency Issues in ERP Systems
17.4 Role of ERP Systems in Digital Transformation

Unlock Efficiency:
Embrace Digital Transformation

datadrivenconstruction.io

Greater Karlsruhe Area.
Rehbuckel 4a, 76228 Karlsruhe
+49 (0152) 58901584
info@datadrivenconstruction.io

Online and Offline

Workshops

practice

data driven construction.io

The workshop consists of several modules, which can be chosen in any order and in any number, allowing you to tailor the learning process to your interests and needs. Each module is designed to be concise and as informative as possible, lasting 40-60 minutes.

Introduction to Tools for Automation and Analytics

1.1 Why Data Tools Matter in Construction Digital Transformation
1.2 Starting with Practical, Flexible Tools Without Huge ERP Systems
1.3 Overview of n8n, Python, and Jupyter for Data Optimization
1.4 Replacing Repetitive Manual Work and Improving Data Quality
1.5 Enabling Smart Decision-Making Without IT Departments

Jupyter Notebooks – Interactive Data Analysis

2.1 Combining Text, Code, and Visuals in One File for Engineers
2.2 Running Calculations and Validating Construction Data
2.3 Explaining Logic with Code and Visual Outputs
2.4 Working with Python Libraries: Pandas, Matplotlib, Openpyxl
2.5 Exporting Results as CSV, Excel, or Interactive Dashboards

Python – The Language of Automation

3.1 Custom Scripts for File Parsing and Data Wrangling
3.2 Libraries for Tabular Data (Pandas), Excel Handling (Openpyxl)
3.3 Generating PDF/HTML Templates with pyPDF
3.4 Integrating with n8n for Extended Functionality in Pipelines

Jupyter & Python Engineering with Data

4.1 Analyze Slope of Pipes from Excel
4.2 Mass and Cost Calculation
4.3 Site Progress Dashboard: HTML from Photo Data, Track KPIs
4.4 Data Cleaning Scripts: Identify Duplicates, Inconsistent Units
4.5 Advanced BIM Data Processing: Validate and Transform CAD

n8n – Visual Automation Platform

5.1 Drag-and-Drop Interface and Low-Code Concept
5.2 Integrating Tools: Telegram, Email, Google Drive, Revit, Databases
4.3 No Programming, but Allows Advanced Scripting with JavaScript
5.4 Automating Construction Workflows Locally
5.5 Reducing Time on Tasks Like Quantity Takeoff and Estimation

n8n Construction Automation Without Developers

6.1 Telegram Bot for Site Reports and Task Managments
6.2 Voice Message Transcriber: Voice to Text, Auto-Reply in Telegram
6.3 Excel Validation Workflow: Check Contractor Files
6.4 Document Generation: Create Contracts and Specs from Table
6.5 Connect Revit/IFC: Parameter Checks and File Handling

n8n + LLM Smart Workflows with GPT or Claude

7.1 GPT-Based Table Validation: Excel to LLM for Error Lists
7.2 Auto-Generate Technical Reports and Memos from Templates
7.3 AI-Based Classification: Tag Raw Elements with DIN and Uniclass
7.4 LLM Integration for Text Generation and Data Analysis
7.5 No-Code Pipeline Creation: Ask LLMs to Generate JSON Workflows

Combined Pipelines: From Input to Insight

8.1 Upload File to Python Transformation to n8n
8.2 Quantity Checks, Dashboards, KPI Alerts for Projects
8.3 Automate CAD/BIM Data Conversion: Revit, IFC, DWG
8.4 Data Validation: Check for Missing Parameters, Reports
8.5 Quantity Takeoff: Calculate Volumetric Parameters, Reports

n8n Use Cases from DataDrivenConstruction

9.1 Pre-Export QA: Ensure Model Data Completeness Before Deliverables
9.2 Standards Compliance: Verify BIM Models Meet Project Requirements
9.3 Project Management: Telegram Bot for Tasks and Photo Reports
9.4 Revit/IFC Verification: Validate Data Quality in BIM Projects

Advanced n8n Workflows for BIM and CAD

10.1 Automated Conversion Pipeline for .rvt, .ifc, .dwg
10.2 Quality Checking: Assess Revit and IFC Projects for Errors
10.3 Import Excel to Revit: Parameter Values from Databases
10.4 ETL Pipelines: Extract, Transform, Load wiht CAD-BIM Data
10.5 Cost Estimation Automation: Classify Materials, Search Prices

Cost Estimation Automation: Classify Materials, Search Prices, Generate Reports

11.1 Processing Unstructured Data: PDFs, Texts into Structured Formats
11.2 Data Quality Assurance: Automate Validation and Reporting
11.3 Big Data Collection: From Diverse Sources Like ERP, CAFM
11.4 Forecasting with ML: Integrate Machine Learning for Predictions

n8n for Data Analytics and Visualization

12.1 Structuring Multi-Format Data: Excel, Databases, BIM Exports
12.2 Automating Data Cleaning and Transformation Processes
12.3 Visualizing Construction Data: Dashboards with Integrated Python
12.4 Tracking KPIs: Project Performance Monitoring and Alerts
12.5 Report Generation: From Excel/PDF Sources to Automated Outputs

n8n in Digital Transformation Challenges

13.1 Addressing Data Quality Issues in Construction Projects
13.2 Integration Between ERP, BIM, and Other Systems
13.3 Overcoming Closed Data Formats with Open Tools
13.4 Key Stages: From Manual to Automated Workflows
13.5 Impact on Project Management: Efficiency Gains Without Vendors

Impact on Project Management: Efficiency Gains Without Vendors

14.1 Frameworks for Estimating Volumes, Costs, Timelines
14.2 5D BIM Automation: Budgeting from Model Data
14.3 Creating Estimates: AI-Assisted Material Classification
14.4 Implementing 4D/5D: Timeline and Cost Processes
14.5 Future Trends: AI-Enhanced Calculation Methods

n8n for Carbon Footprint and Environment

15.1 Estimating CO_2 Emissions from Construction Data
15.2 Automating Calculations with 6D, 7D, 8D Dimensions
15.3 Integrating Environmental Data into Workflows
15.4 Reporting Sustainability KPIs Automatically
15.5 Linking with Databases for Green Analytics

Challenges in Data Management

16.1 Handling Data Silos and Inconsistencies
16.2 Connecting Diverse Systems and Formats
16.3 Converting Unstructured to Structured Data
16.4 Standardization Techniques for BIM/ERP
16.5 Validation Methods for Strategic Decisions

Unlock Efficiency:
Embrace Digital Transformation

datadrivenconstruction.io

Greater Karlsruhe Area.
Rehbuckel 4a, 76228 Karlsruhe
+49 (0152) 58901584
info@datadrivenconstruction.io

build smart, build precise

Date analytics in construction

data driven construction.io

Move to BIM level 3

Your data is Yours

Key Benefits

Improved Project Planning
Data analytics enable predictive modeling for better accuracy in timelines and budgeting

Efficient Resource Management
Optimize allocation of materials, machinery, and manpower with real-time data

Risk Mitigation
Advanced analytics help identify potential risks and devise proactive strategies to mitigate them

Our Approach

Data Integration
Seamless aggregation of data from various sources including BIM, CAD, and IoT devices

Custom Analytics Solutions
Tailored analytics frameworks that align with specific project needs and goals

Continuous Support and Training
Ensuring your team is equipped to utilize analytical tools and methodologies effectively

Life Is Short, Use Python

to work with construction project data

R, μ, .dwg

XLSX, CSV, JSON, XML

Data Manipulation
- Pandas
- NumPy
- Polars
- Datatable

Data Visualization
- Plotly
- Matplotlib
- Seaborn
- Folium

Machine Learning
- Keras
- Tensorflow
- Scikit-learn
- PyTorch

App Development
- Streamlit
- Flask
- Django
- FastAPI

Statistical Analysis
- SciPy
- Statsmodels
- PyMC3
- pingouin

Database
- dask
- Pyspark
- kafka
- Koalas

Insights and process automation

datadrivenconstruction.io
info@datadrivenconstruction.io

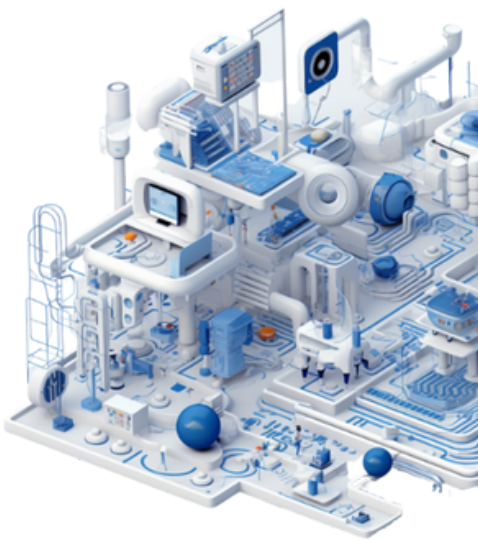
no API needed | no file based | no hidden fees | no internet needed | no limitations | no quality loss | no plugins | no subscription | no CAD-BIM needed

BIM level 3 | granular data | open data | unified | DataFrame | LLM | analytic | open source tools | data-driven decision | structured data | pipelines

🚀 Move to **BIM level 3** where only data and processes remain and where 🔓 your **data is yours**

data driven construction.io

Unlock the full potential of your construction projects with our specialized consulting services at DataDrivenConstruction.io. Our expertise in CAD (BIM) data integration and management transforms your workflow efficiency and decision-making process.



What We Offer

Customized Data Strategies
Tailored solutions for data collection, management, and analysis that fit your specific project requirements

CAD Conversion and Integration
Streamline your project documentation with our advanced CAD conversion tools, making data easily accessible and usable

Training and Support
Empower your team with the knowledge to leverage BIM data, enhancing productivity and innovation

Your Benefits

Reduce Costs and Save Time
Our strategies optimize resource allocation and project timelines

Enhanced Decision Making
With better data at your fingertips, make more informed decisions that lead to successful project outcomes

Competitive Edge
Stay ahead in the industry with cutting-edge data practices that set your projects apart

Transform your approach with DataDrivenConstruction and lead your projects to success with data!

Greater Karlsruhe Area.
Obergrombacher Str. 31, 76646 Bruchsal
+49 (0152) 58901584
info@datadrivenconstruction.io

become our ambassador or partner

Join the Open Data and Tools Movement!

data driven construction.io

🚀 Move to BIM level 3
🔓 Your data is Yours

We offer everyone the opportunity to be part of the future where data is accessible, open, and easy to integrate. With our support, you can transform complex design and construction processes into automated, efficient, and accessible solutions

Why Become an Ambassador?

Influence the Industry
You will have the chance to directly impact industry standards and practices by promoting the use of open tools

Exclusive Access to Resources
Gain early access to our materials, updates, webinars, and tools that will keep you at the forefront of innovation

Build Your Personal Brand
As an ambassador, you position yourself as an expert in using simple and open technologies, boosting your reputation in the professional community

Professional Growth
You will learn and grow alongside leading experts in automation, data analytics, and open formats, expanding your skill set

How to Become a Partner?

Submit an Application
Share your contact details and tell us about yourself, including why you're interested in this project

We'll discuss cooperation together
We will provide you with all the necessary materials and instructions to become an expert in using our solutions

Start Sharing Knowledge
Host training events, write articles, or share information on social media, helping others implement simple and open tools in their work

Who Are We Looking For?

We are seeking enthusiasts, experts, and innovators who want to:

- Promote the use of open data formats and tools
- Organize training sessions, seminars, or webinars
- Contribute to the development of open technologies through articles, blogs, social media, or videos
- Collaborate with us to attract new companies and professionals to the use of simple and free tools

Benefits for Ambassadors and Partners

- **Exclusive** materials and tools
- **Support** from our team every step of the way
- **Recognition** for your contribution to the community

Ready to Join?

Contact us to learn more about becoming an ambassador or partner, and let's build the future together with open data and simple solutions!

Greater Karlsruhe Area.
Obergrombacher Str. 31, 76646 Bruchsal
+49 (0152) 58901584
info@datadrivenconstruction.io

DataDrivenConstruction Guidebook

Navigating the Data Age in the Construction Industry

Martin Loureiro-Barrientos
BIM Coordinator | Populous, London

★★★★★

Probably the most interesting book of the last two years that I know of. Required reading to break free from the 'matrix' perpetuated by software vendors, this book delves into how emerging tools like artificial intelligence offer fresh opportunities for data management without extensive technical expertise, poised to revolutionize even the most antiquated sectors like construction.

With flawless translation and mind-bending graphics, it's a must-read. Eagerly anticipating the sequel. Very good buy in my opinion...

I will read it again and waiting for the second part!

Paul Ransley
PLU Systems Engineer | Transport for Lon

★★★★★

I highly recommend Artem's book that addresses, as the title says, a data driven information management approach for AECO. I am currently using it to help initiate a number of discussions with various groups. I have found it a very accessible reference.

As well as a thorough overview of the history context of tools in AECO, data and introducing several key technologies the book contains a number of very useful diagrams, that outline the scope of data sources and end user artefacts, common database types encountered, applications working on that data and output artefacts in organisations or projects, with sample workflows.

It strikes me that these are the types of diagrams we need more of when developing and monitoring information strategies and contribute to BEP's - defining the overall enterprise data model onto which the boundary for a PIM and AIM can be overlaid.

Pierpaolo Vergati
Senior Construction Project Manager | Finl

★★★★★

For anyone in the construction industry, from rookies to seasoned pros, this book is a game-changer! It's not your typical dusty read—it's packed with insights, strategies, and a touch of humor to keep you engaged. From ancient data recording methods to cutting-edge digital technologies, it covers the evolution of data usage in construction.

It's like taking a time machine through the evolution of construction data—minus the wonky flux capacitor.

And shoutout to Artem Boiko , our "Doc E. Brown", for crafting this data-packed journey!

Whether you're an architect, engineer, project manager or data analyst, this comprehensive guide will revolutionize the way you approach projects. Get ready to optimize processes, enhance decision-making, and manage projects like never before!

Salih Ofluoğlu
Antalya Bilim University | Dean, Faculty of

★★★★★

I think that the book addresses a significant, contemporary topic relevant to the construction industry. As it was also emphasized in the book, information is a crucial asset for the construction sector, and having it in accessible formats greatly facilitates accurate decision-making and expedites project timelines.

The book offers a neutral and efficient approach to accessing and taking advantage of this source in decision-making. The methodology presented in the book leverages a contemporary approach that combines artificial intelligence-driven programming with accessible open-source tools.

By harnessing the power of AI and utilizing open-source software, the methodology aims to enhance automation, optimize processes, and promote accessibility and collaboration within the field. The language of the book is clear and easy to follow.

Congratulations on the quality work! I have enjoyed reading it. Wishing you continued success as well.

Natasha Prinsloo
BIM Coordinator | energylab UK

★★★★★

All I can say is, WOW! The way you incorporated history, ChatGPT, the graphics, and the overall ease of understanding your points is truly remarkable. The flow of the book is amazing.

There are so many brilliant aspects to this book; it's genuinely a game-changer. It's a great source of information, and I commend you for the effort and passion you've put into it. Congratulations on creating such a remarkable work.
I could go on, but suffice it to say, I'm incredibly impressed!