Construction Management Simplified with 3RDi

Review progress and take decisions on your construction projects from anywhere with the state-of-the-art Digital Twin technology

Use of technology in construction projects is not new. Technology until recently, has been a good tool for record keeping, however, with its own challenges. Complex usability, data entry issues, delayed and inconsistent updates, and impractical on-site implementation has been serious road-blocks. Moreover, when all these challenges have to be handled across multiple, siloed IT systems and teams, technology becomes a hindrance in smooth execution of tasks. The growing necessity to steer organisations towards digital transformation has placed most construction businesses at a crossroad, of how to truly transform their operations using technology.
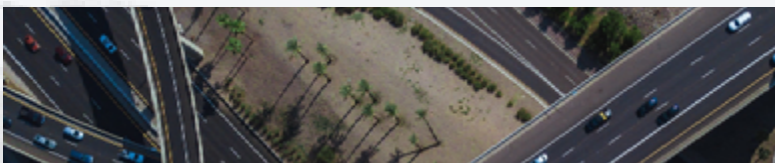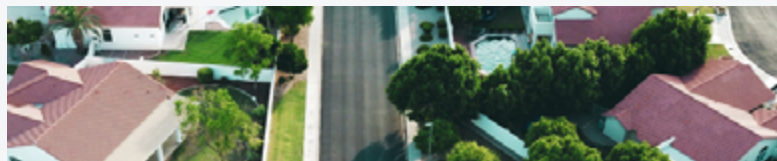
The good news is that the construction industry is moving towards a more ubiquitous version of digital transformation. Technology that is not about data entry but actionable insights. It is effortless to get started, learn, adopt and use on-site. Real-time tracking, AI-powered analytics and simple collaboration tools are here for construction projects of all sizes and complexity. During these uncertain times, when remote collaboration is the need of the hour, construction businesses have got the tools to transform the processes, right from on-site operations to corporate decision-making.

3RDi

3RDi offers a Digital Twin model for construction management which is an intelligent, 3-dimensional, digital model of your Construction Project. You can use the Digital Twin to track project progress, reduce construction reworks, identify defects, manage construction tasks, and more.

3RDi uses drones, computer vision and IoT technology to collect construction data in real-time and then applies machine learning algorithms to the data to deliver pure actionable insights. With 3RDi, you spend less time in paperwork and coordination and more time delivering quality construction projects within your planned budget and schedule.

1 REAL ESTATE

2 INFRASTRUCTURE

3 INDUSTRIAL

4 ENERGY

1 3RDi is AUTONOMOUS

How many times have we got started with a fancy suite of software products that has shown great promise in the beginning, but has ultimately failed to deliver? Businesses often find it counterproductive to enter, tally, and update data. Delays, human errors and the upkeep costs offset the benefits.

Moreover, unlike the case of most other businesses, much of the construction projects happen in harsh environments, amid dirt, concrete, and sand. It is difficult to connect the site operations to software technology. Changes in the project plan does not get communicated to all stakeholders on time. Most project management teams have faced situations when contractors, sub-contractors, architects, and engineers each have a different version of the plan (and/or the BIM). Few are updated and others are not.

Software only adds to the trouble because the applications are working in silos. Data has to be connected with information from several other applications to get the big picture on the construction projects.

At 3RDi, we realize this challenge. Therefore, much of our focus has been to deliver AUTONOMOUS solutions to construction businesses. We do it in 3 simple steps:

STEP 1

Our advanced drones, 360-degree cameras, and sensors collect the data from the construction sites with unmatched accuracy.

STEP 2

The 3RDi Integration Engine automatically extracts data from the ERP, BIM Model, finance, project and document management systems.

STEP 3

3RDi's AI-engine crunch this highly intricate terabytes of data to deliver actionable insights.

"Now, project management can focus on using the insights to deliver quality construction projects. Keeping tab on dozens of projects at a time had never been this easy and productive before."
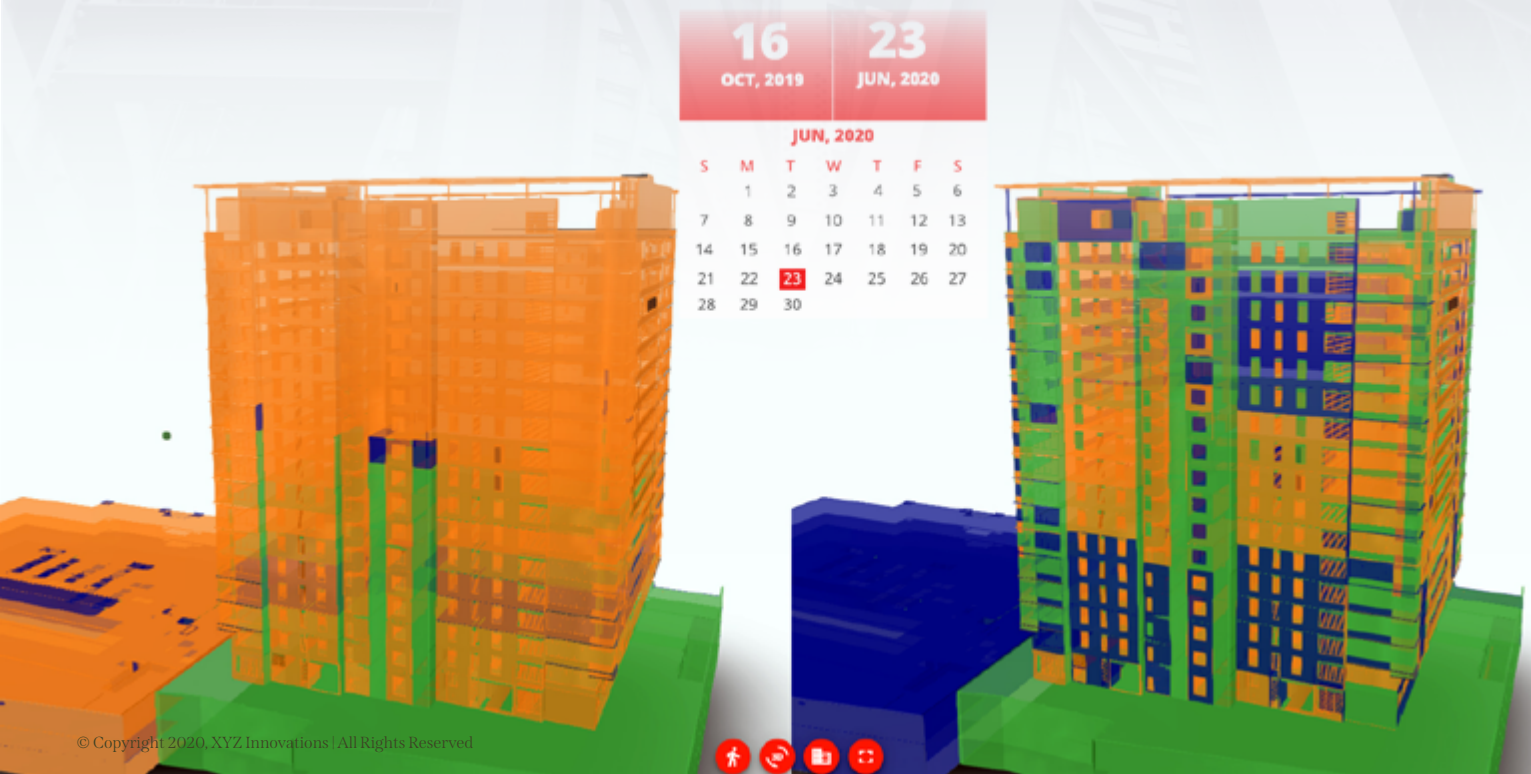
2 3RDi Delivers TRUE Business Value

Access the Construction Site Anywhere

With 3RDi, project stakeholders get an accurate view of the construction site on their devices without stepping on the site. Users can take a virtual walkthrough of the entire site, floor-by-floor, room-by-room, right from their devices.
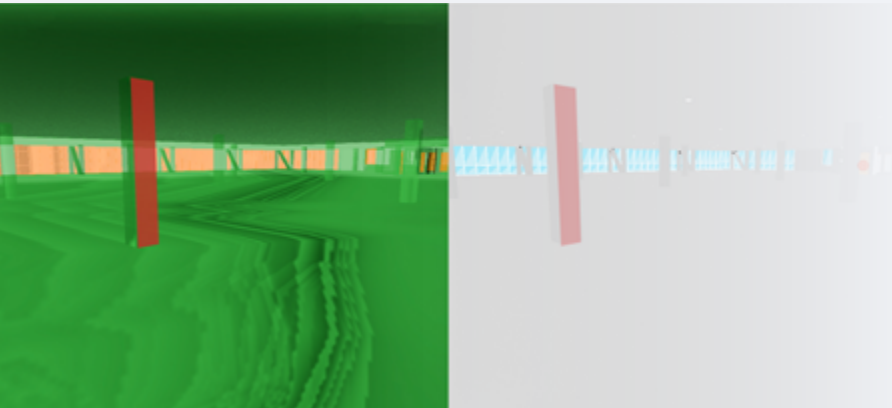

Analyse the Progress in Construction Work

3RDi puts the 'Digital Twin' on a timeline. Project teams can take stock of the progress made between two dates, verify as-planned to as-build and decide on the next steps in no time.
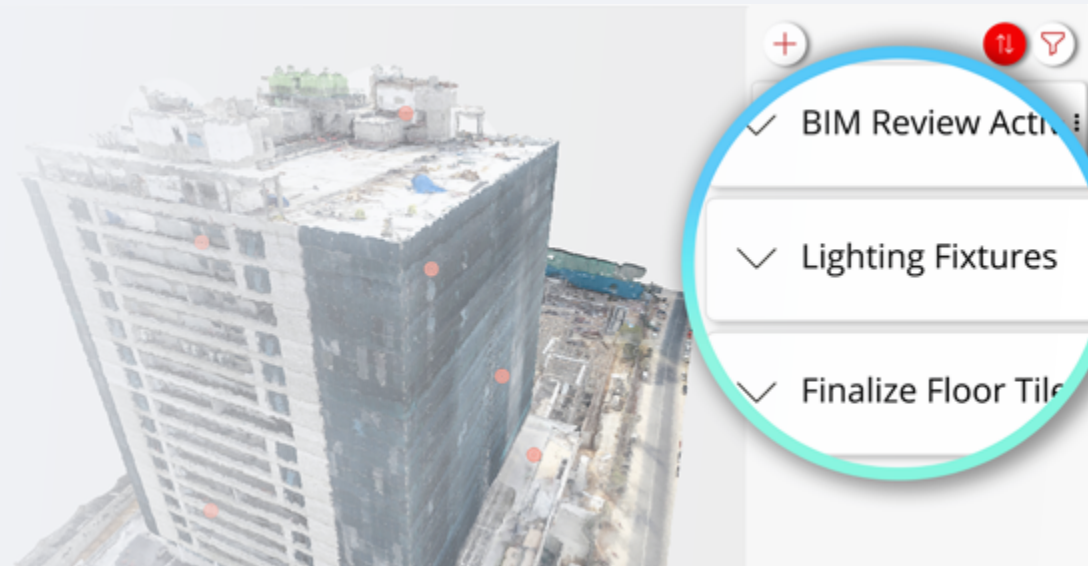
Identify Deviation, Reduce Reworks, Take Decisions Faster

3RDi helps in reducing the effort required on reworks by proactively identifying the deviations. 3RDi compares the drone imagery to the BIM and gives clear insights on where the construction has deviated from the BIM. Project Managers can verify the deviation, connect with site operations and take the required actions much faster than before

Simplify Record-keeping, Eliminate Paperwork

With 3RDi, management teams do not have to maintain tons of paperwork and reports anymore. Teams can also say goodbye to those folders-upon-folders of site images that were impossible to keep organized and browsable. 3RDi collates all the reports, actionable recommendations, site progress imagery and dashboards that project teams can utilize as and when needed. Sharing a report with the management is a button click away. Taking stock of the progress in one or many of the construction sites is a click away. Project management can use this comprehensive documentation for claims and disputes management as well.

Improve Collaboration

Larger the project size, longer is the task list for the on-site activities. Keeping tab on the progress of tasks is simple with 3RDi. The tasks are tagged to particular locations on the digital twin model so that while taking an update on the tasks remotely, the exact work can be verified and closed. With 3RDi, project teams have got access to discussion boards, video calls, project plans, and more.

3 Custom Add-ons

Manpower Tracking

The 3RDi Manpower Tracking add-on helps businesses track personnels on-site, calculate work hours automatically, and alert unauthorized access to worksite. We have specially built-in customizations that will help to track social distancing violations, capture temperature and facilitate contact tracing.

Machinery Tracking

The Machinery Tracking add-on automatically monitors machine location, ignition, fuel, trips made, speed and several other parameters. It helps you reduce idle time of machines, and optimize machine downtime with smart tracking features.

Material Tracking

The Material Tracking add-on helps businesses manage the material requirement on the construction site. The add-on provides analysis on the material in-use and material required to carry out the construction work without any hinderance.

Virtual Tour

3RDi Digital Twin Show Window add-on packages the Digital Twin in an easy browsable showcase model. Businesses can share and update the real-time construction progress in breathtaking 3D views with stakeholders, apartment buyers, corporate owners.

3 Value across Business Levels

Productive Site Operations

Autonomous data collection
Improved collaboration
Better deviation handling
Improved task execution

Efficient Project Management

Visual analysis of progress, delays and deviations
As-planned to as-build analysis
Control on multiple projects
AI-powered data analysis
Integrated, real-time reports from all applications
Fewer reworks

Desired Business Outcomes

On time project closure
Firm adherence to the project plan
Optimal asset utilization
Greater visibility
Better cost control

THE 3RDi ADVANTAGE

ROI-DRIVEN CONSTRUCTION MANAGEMENT

AUTONOMOUS DATA CAPTURE

10x Faster capture of data than traditional methods

100% Automated, accurate and reliable site capture

AI-POWERED CONSTRUCTION PROJECT MANAGEMENT

REMOTE ACCESS

Reduction in site visits and travel time **75%**

VISUAL DOCUMENTATION AND AI-COMPUTED REPORTS

10x More comprehensive documentation

20% Savings with elimination of manual effort in documenation

Streamlined vendor payments and claims processing

SMART DEFECT IDENTIFICATION

Reduction in rework effort and cost **50%**

20%

Overall project savings with 3RDi-powered automation

16 MN+

Sq. Feet of construction projects managed

2700

Work days saved

15000+

Defects dentified

5000

Construction tasks managed

3RDi

BUILD . WITH . 3RDi

apcrda   EMBASSY   CYBERCITY   VIBRANT ENERGY   PHOENIX

incor   H-ENERGY   L&T Construction Buildings & Factories   TATA PROJECTS Simplify.Create

ABOUT 3RDi

In Late 2017, 3RDi started with a goal of reimagining how the built world was being managed. Disconnected teams, siloed Information sources, unreliable data sets and lack of real time visualizations led to a lot of chaos, leading to a great loss of productivity. 3RDi(Read Third Eye) in concept represents perception beyond ordinary sight. We help Construction business and their clients to perceive multi-dimensional real world information in a simple, reliable and accessible way. We believe there has to be a better way in manging our built world. 3RDi helps people by providing reliable datasets, intelligent insights, powerful visualizations and connecting teams.

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