



BIM

SERVICES

WWW.CAPSTONE-EG.ORG

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01

WHO'S CAPSTONE?

| As a leading capstone company based in Egypt, Capstone has completed a multitude of projects throughout the Middle East. Our team is highly specialized in utilizing BIM (Building Information Modeling) to design and construct buildings that are efficient, sustainable, and cost-effective. From initial design to construction and operation, we provide a comprehensive range of services to ensure that each project is completed to the highest standards. At Capstone, we are committed to providing our clients with personalized attention, innovative solutions, and timely delivery. Contact us today to learn about how we can help you achieve your building goals.





02

WHAT IS BIM & WHY IS IT IMPORTANT?

BIM is a digital representation of the physical and functional characteristics of a building. It allows for collaboration among various stakeholders in the construction process and helps to minimize errors and maximize efficiency. With Capstone's expertise in BIM services, your construction project will benefit from accurate plans and streamlined processes, ultimately resulting in a higher quality end product.

03

CAPSTONE'S EXPERTISE IN BIM

Capstone's BIM services offer digital models that accurately represent the physical and functional aspects of a building. This enables collaboration among stakeholders, minimizes errors, and streamlines processes, resulting in a higher quality end product. Trust Capstone to bring your construction project into the future.



03

CAPSTONE'S EXPERTISE IN BIM

We tailor our BIM services to meet your requirements in your Budget and offers Quality & Cost-Effective Service with Client's Satisfaction. Digitize your building & construction workflow and be More Profitable in your Projects with a Trusted and Qualified BIM Partner in all Project fields.



Building
Construction



Utilities



Manufacturing
Plants



Infrastructure



04

OUR TEAM'S QUALIFICATIONS

At Capstone, we have a team of experts with extensive experience in the field of BIM services. With industry-specific knowledge and cutting-edge technology, we are equipped to handle projects of any size and complexity. Trust us to provide the highest level of service for your construction needs.

05

OUR EXPERIENCE IN BIM IMPLEMENTATION

BIM Implementation Expertise We specialize in BIM implementation for construction projects of any size and complexity. Our team's expertise includes 3D modeling, clash detection, quantity takeoff, and more. Trust us to bring efficiency and precision to your project using the latest BIM technology.



06



OUR SUCCESS STORIES

Capstone's expertise in BIM services has resulted in successful project completions for various industries such as healthcare, education, and commercial construction. Learn about our BIM success stories and how we can help bring your project to the next level.

07

WHAT CAPASTONE DO?

Building the Future with Capstone

Capstone offers end-to-end BIM services to help you plan, design and construct your projects with greater accuracy, efficiency and cost-effectiveness from 3D modeling to migrate asset data during the asset operation.

Our experts have the tools and experience required to guarantee project execution excellence and success.



08

OUR SERVICES

01

Modeling &
Design

02

Clash
Detection

03

4D scheduling and
simulation

04

5D
Estimation

05

Construction
Documentation

06

Facilities
Management
(COBie)

07

BMO - BIM
Management Office

08

BIM Process
Automation

08

01

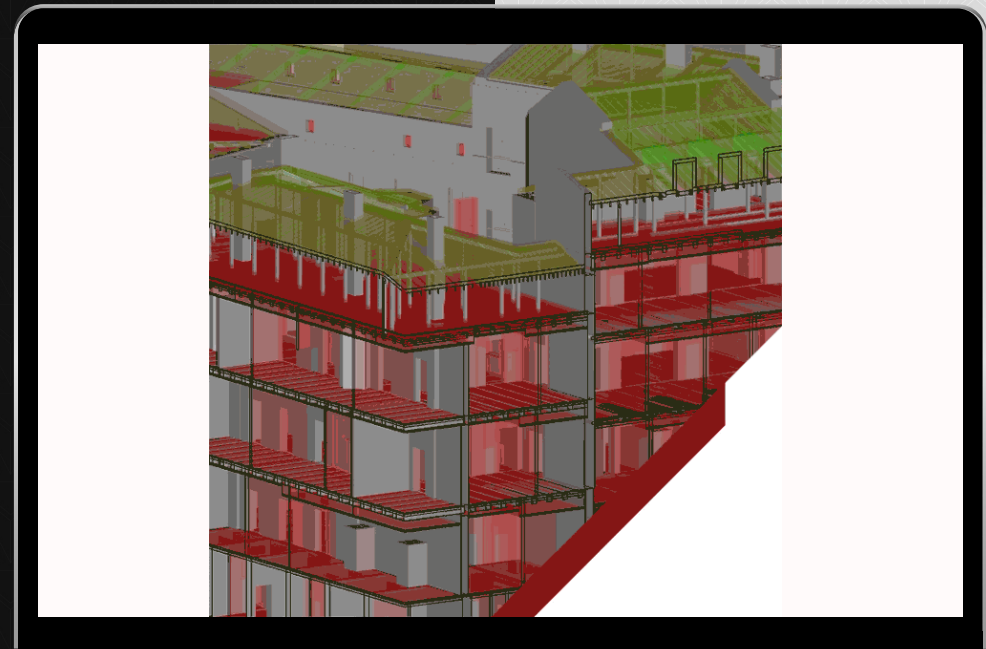
MODELING & DESIGN

| Architecture Modeling

| Structure Modeling

| MEP Modeling

| Infrastructure modeling



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01

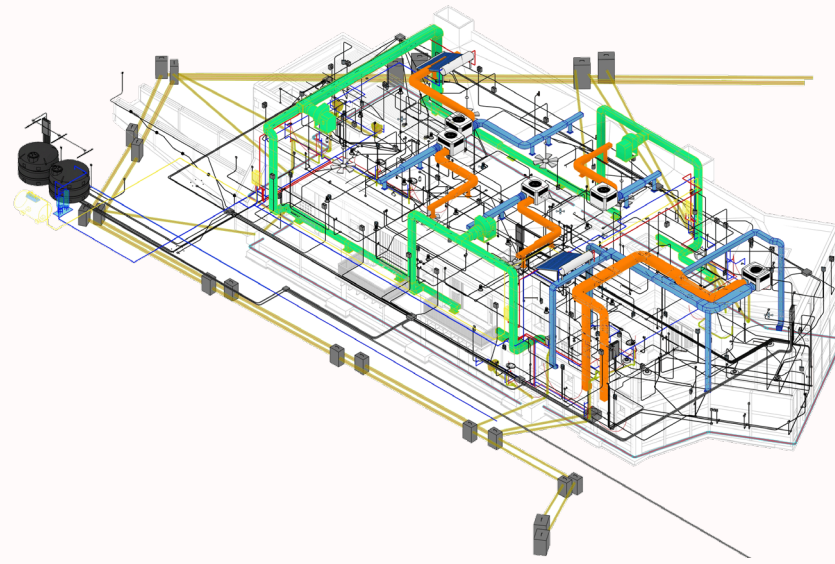
MODELING & DESIGN

| Architecture Modeling

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01

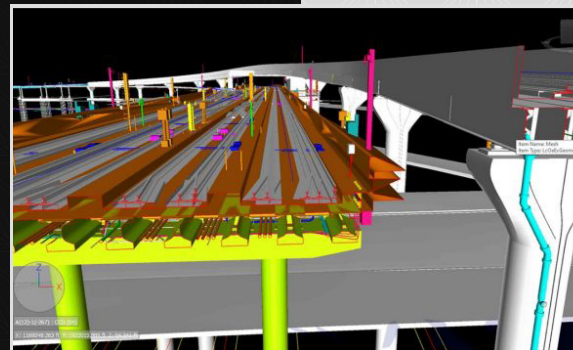
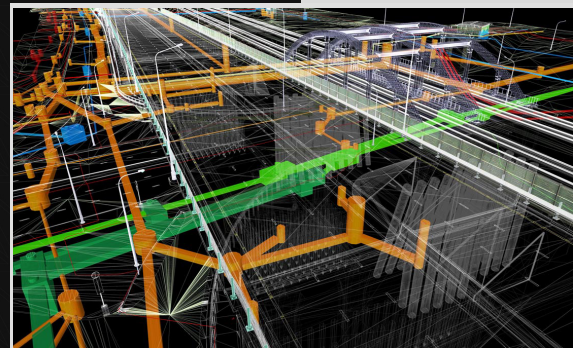
MODELING & DESIGN

| Architecture Modeling

| Structure Modeling

| MEP Modeling

| Infrastructure modeling



08 02

CLASH DETECTION & RESOLUTION

It helps to improve efficiency, reduce costs, and minimize errors. By identifying clashes early in the design process, construction professionals can make informed decisions and avoid costly mistakes that could result in delays or rework.

Clash Detection is so important in BIM

Progress Diagram - Auto Clash Detection Services

```
graph TD
    Start((START)) --> Decision1{Clash Detection}
    Decision1 --> Rebuild[REMODELING]
    Decision1 --> Reuse[RE-USE EXISTING MODEL]
    Decision1 --> Reuse2[RE-USE EXISTING MODEL]
    Reuse --> Decision2{Clash Detection}
    Reuse2 --> Decision2
    Decision2 --> End((END))
    Decision2 --> Reports[CLASH REPORTS]
```

Clash Detection Report
Clash detection among all disciplines helps to save cost and time during construction.

| CLASHES | CLASHES | CLASHES |
|--|--|--|
| CLASHES Point-Bank 1. Clash: Structural Steel (RUC) vs. MEP (HVAC) - 10/10/2023 2. Clash: Structural Steel (RUC) vs. MEP (HVAC) - 10/10/2023 3. Clash: Structural Steel (RUC) vs. MEP (HVAC) - 10/10/2023 | CLASHES Point-Bank 1. Clash: Structural Steel (RUC) vs. MEP (HVAC) - 10/10/2023 2. Clash: Structural Steel (RUC) vs. MEP (HVAC) - 10/10/2023 3. Clash: Structural Steel (RUC) vs. MEP (HVAC) - 10/10/2023 | CLASHES Point-Bank 1. Clash: Structural Steel (RUC) vs. MEP (HVAC) - 10/10/2023 2. Clash: Structural Steel (RUC) vs. MEP (HVAC) - 10/10/2023 3. Clash: Structural Steel (RUC) vs. MEP (HVAC) - 10/10/2023 |

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4D SCHEDULING AND SIMULATION & 5D ESTIMATION

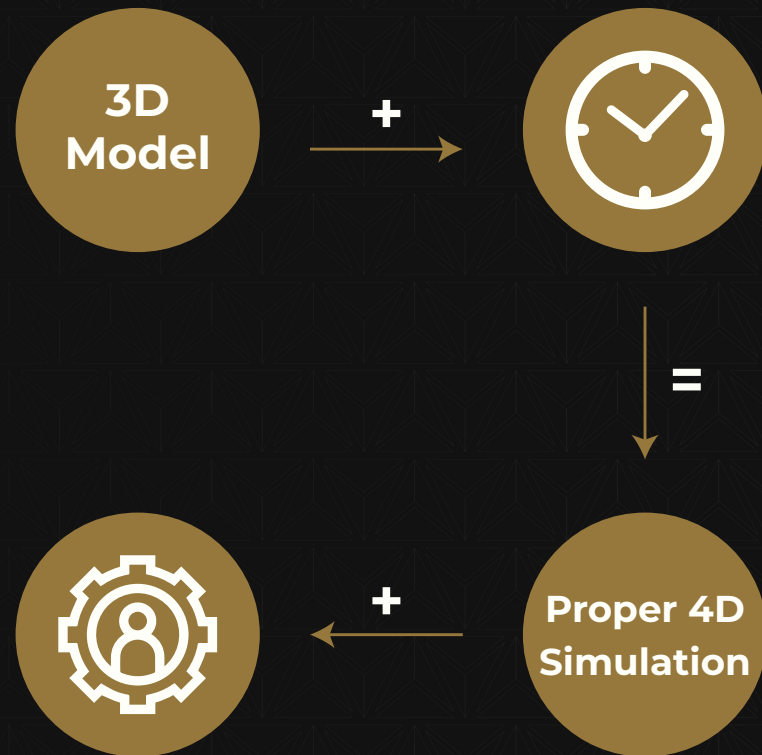
| CAPSTONE Expertise use the latest technology to plan and schedule every stage of the construction process, providing a clear timeline for completion. Simulation tools are also used to identify potential issues and conflicts, ensuring a smooth construction process.

| 4D Model allows construction professionals to visualize the construction process in a highly detailed and realistic way, with the added dimension of time. This enables project teams to better understand the sequence of construction activities, identify potential issues and conflicts, and optimize the construction process.

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4D SCHEDULING AND SIMULATION & 5D ESTIMATION

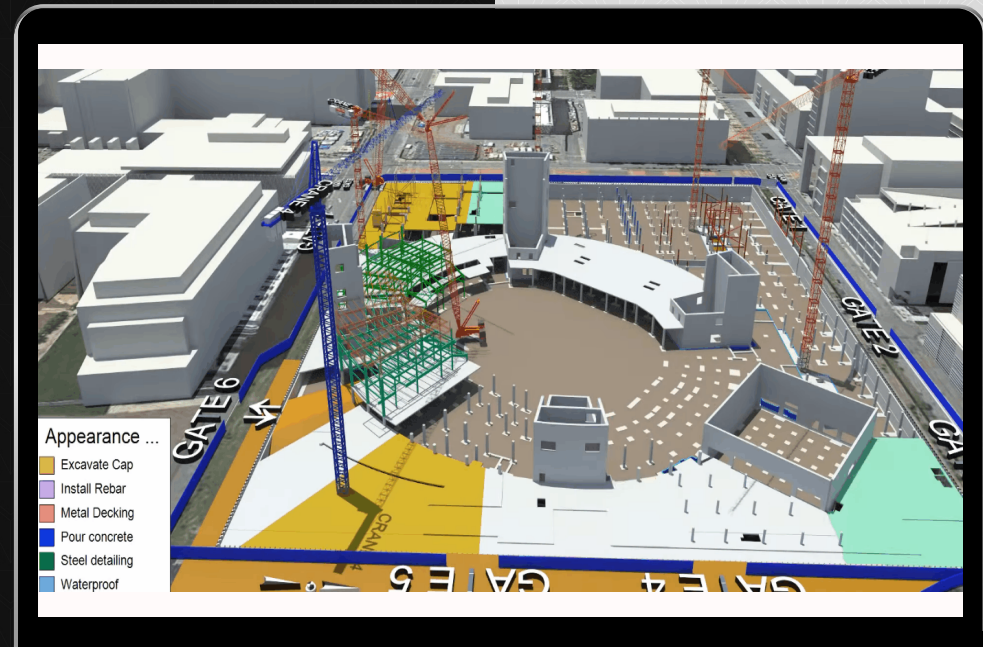


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4D SCHEDULING AND SIMULATION & 5D ESTIMATION

| Examples:



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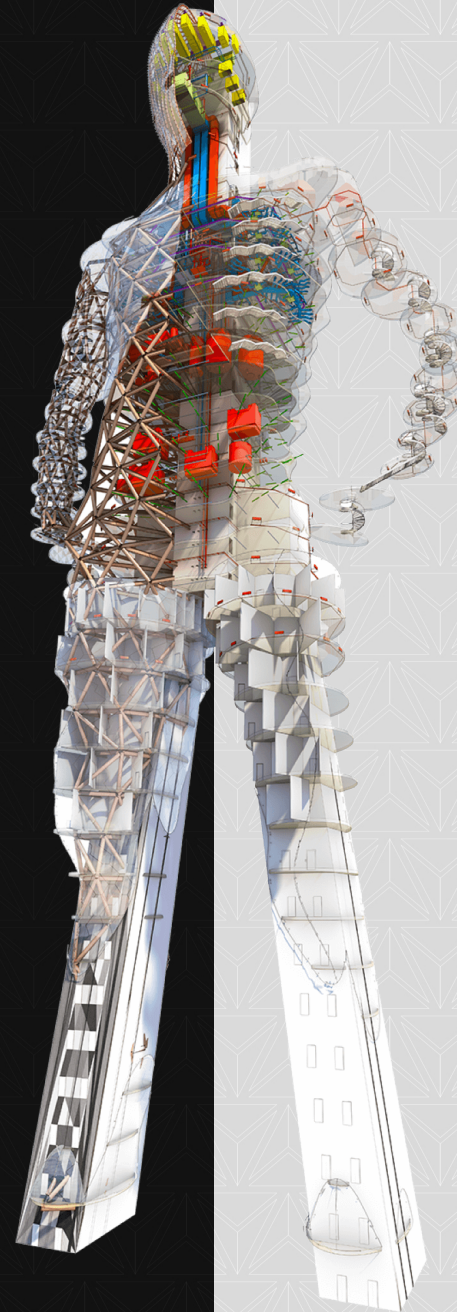
CONSTRUCTION DOCUMENTATION & AS-BUILT MODEL

| Capstone's BIM services don't just stop at clash detection. Our experts utilize 3D modeling technology to create accurate and detailed construction documentation, including:

| Shop drawing Extraction.

| Actual Quantities

| 3D Laser Scanning for BIM Models



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CONSTRUCTION DOCUMENTATION & AS-BUILT MODEL

Examples:

