

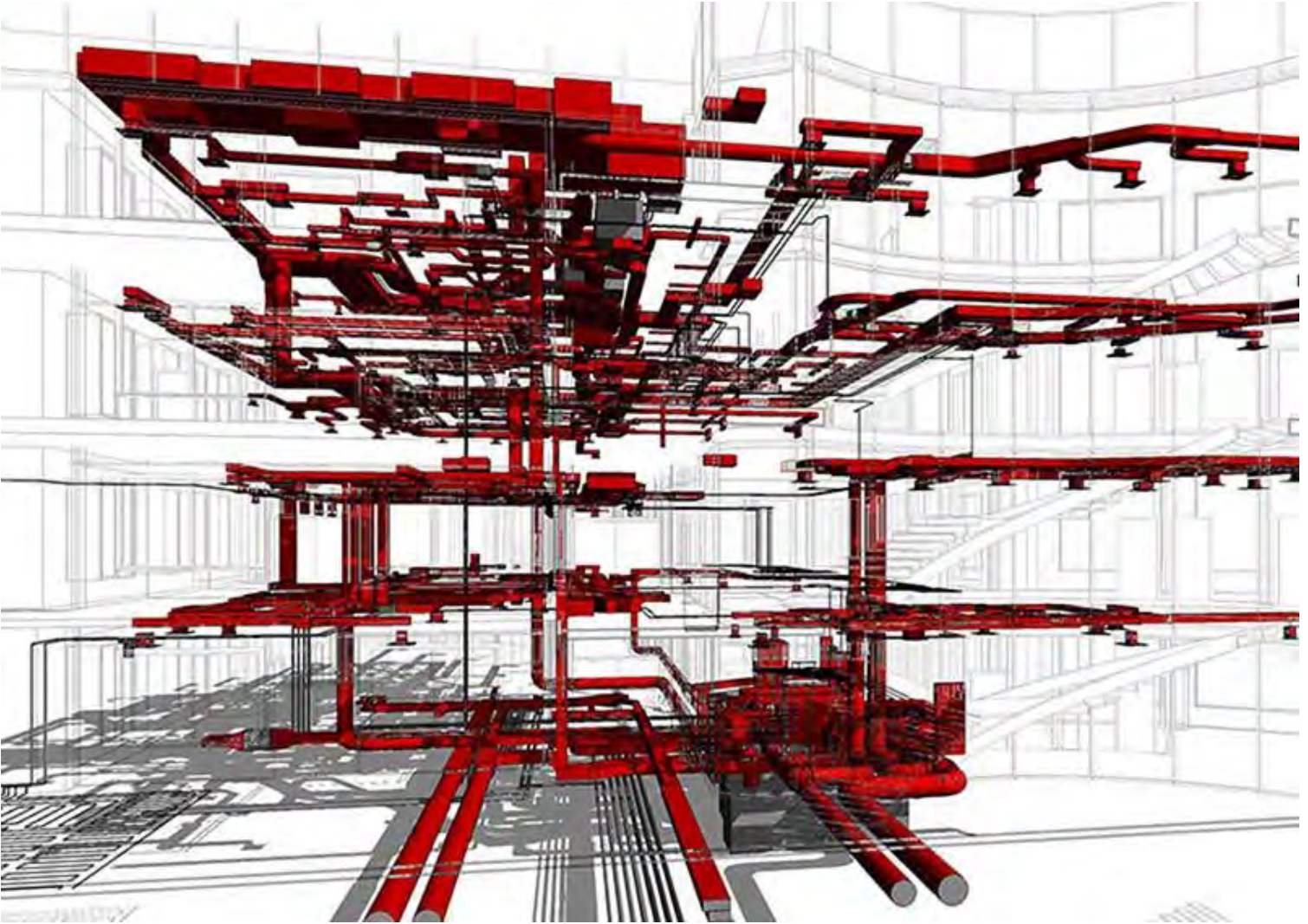


**SERVICES DESIGN TECHNOLOGY International**



**BIM Services**

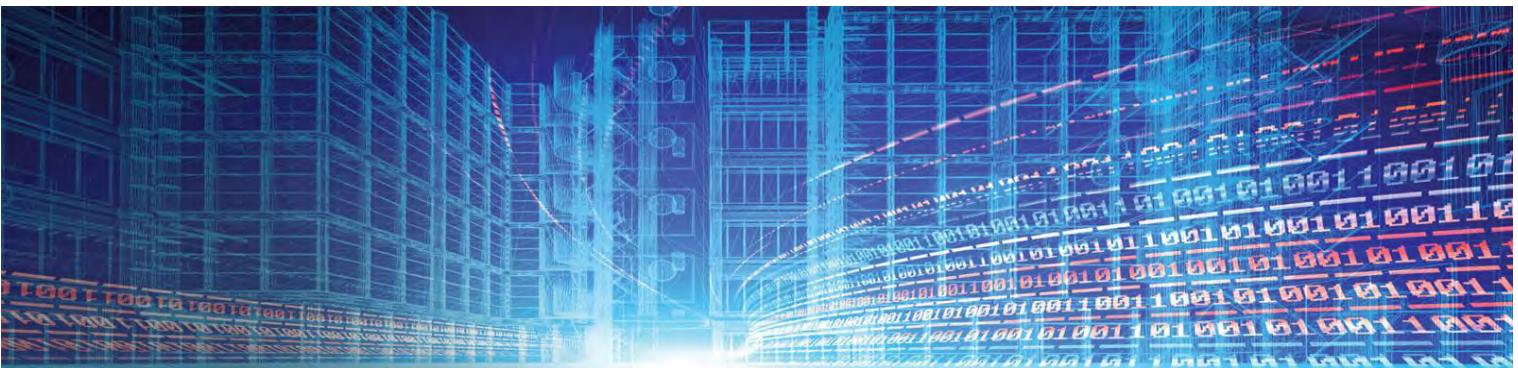




## What is BIM?

Building Information Modeling (BIM) is our digital modeling toolset that allows us to create and manipulate virtual model environment with information of services properties and specifications. We can show our customers exactly how their projects will look and operate, collaborate on the design model through integration into one virtual platform, and optimize both the design, construction and its performance through changes made on-screen - all without cost and loss of time.

BIM technology means that customers can visualize what their project will look like on completion, follow its stages as we deliver, and understand how everything fits together, before the project even starts.







## Our Vision

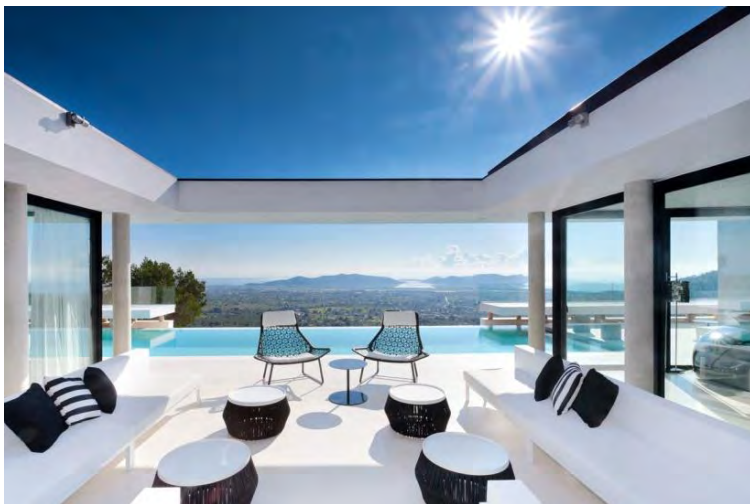
At SDT we aim to deliver customer value by being industry leaders in Building Information Modeling (BIM).





# BIM Process Management

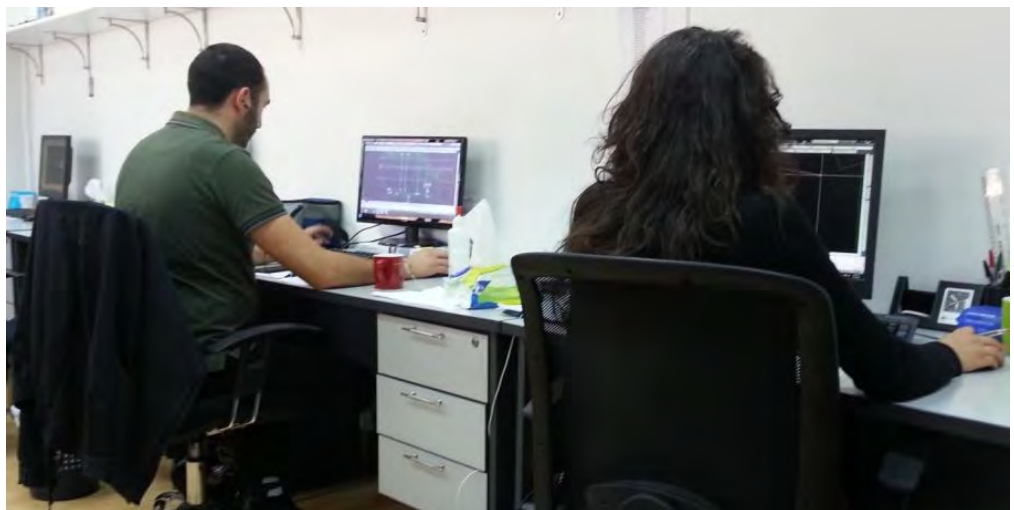
One of the many benefits of BIM is the ability to utilize models created by all members of the design and construction team to improve project coordination. SDT provides cross-disciplinary BIM coordination management services incorporating models, data and documents produced by various members of a project team. SDT leads regular project coordination meetings to identify and resolve design and construction issues. This process is managed using a range of web-based technologies that SDT has adapted for building coordination and communication purposes.







At SDT we have trained our engineers and drafters to use the latest BIM software programs



# Clash Analysis

SDT provides clash detection services for clients looking to coordinate geometry across trades or between different trades. We also work with our clients to increase the benefits of the BIM technology by combining it with phasing and constructability information. This allows for the identification of potentially disruptive sequencing and/or constructability related issues and aids in their resolution.





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## About SDT

SDT international was established in 1991 as an engineering consultancy company that provides comprehensive range of services in the Structural, Mechanical, Electrical, Infrastructure, Environmental and Plumbing design.

For the past 22 years, we have been a pioneering force in the planning, design and implementation of development projects in the Middle East, UK and Australia.

With six offices in six countries, we employ high caliber specialized engineers capable to apply innovative approaches to design and deliver practical and cost effective solutions.

**UK . Lebanon . KSA . Qatar . Dubai . Australia**

[www.sdtconsultant.com](http://www.sdtconsultant.com)



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## Appendix A – Our Previous Projects





Date: 2013-2014

Location: Doha, Qatar

Detailed Design with  
Building Information Modeling (BIM)

CAR PARK BUILDING

## The Project

The car parking building consists of a four stories (ground floor, first floor, second floor and lower roof). The lower roof is used also for car parking. The parking is considered an open parking.

## Our Role

The Qatari Authorities are focusing on developing projects in an efficient way. We are working side by side with the client architects using the latest design software that satisfies the BIM system.

We have dedicated a trained team for this project to produce drawings and 3D models using REVIT software. Our engineers along with our REVIT drafting team were able to deliver the project to the latest BIM standards.

Our experienced specialists went to the next level with their BIM design due to the client's additional requirements for latest design requirements. On the other hand, we were able to minimise the projects costs by designing effective solutions.

## Services

- BIM (REVIT) Design
- Architectural Design
- Civil Design
- Electrical Design
- Mechanical Design

## The Results

We have completed the project successfully, on time and within the allocated budget. Our BIM (REVIT) design impressed our client.



**SERVICES DESIGN TECHNOLOGY INTERNATIONAL**



Date: 2013-2014

Location: Doha, Qatar

MEP Design using BIM System

RECEPTION CONTROL BUILDING

## The Project

The reception Control building consists of a simple ground floor construction that houses offices and reception area.

## Our Role

We were hired as the BIM design consultant for this project to help the developer with the concept design phase, preliminary design phase and tender design phase. Part of our responsibilities was to detail design the amenities and municipal support areas within the project using the latest BIM international requirements.

We have dedicated a trained team for this project to produce drawings and 3D models using REVIT software. Our engineers along with our REVIT drafting team were able to deliver the project to the latest BIM standards. SDT helped with the MEP services for this project.

Our experience specialists went to the next level with their BIM design due to the client's additional requirements for latest design requirements. On the other hand, we were able to minimise the projects costs by designing effective solutions.

## Services

- BIM Modeling Design
- Electrical Services
- Mechanical Services

## The Results

We worked closely with the client in a 'best for project' arrangement that ensured a high-quality organised and sustainable outcome and timely delivery.



**SERVICES DESIGN TECHNOLOGY INTERNATIONAL**





Date: 2013-2014

Location: Doha, Qatar

## MEP Design using BIM System OFFICE BUILDING

### The Project

The office building consists of a ground floor, mezzanine floor and 3 stories. The building is used mainly for business occupancy. The ground floor level includes an auditorium, a cafeteria, a kitchen and meeting rooms.

### Our Role

The Qatari Authorities are focusing on developing projects in an efficient way. We are working side by side with the client architects using the latest design software that satisfies the BIM system.

We have dedicated a trained team for this project to produce drawings and 3D models using REVIT software. Our engineers along with our REVIT drafting team were able to deliver the project to the latest BIM standards. SDT helped with the MEP services for this project.

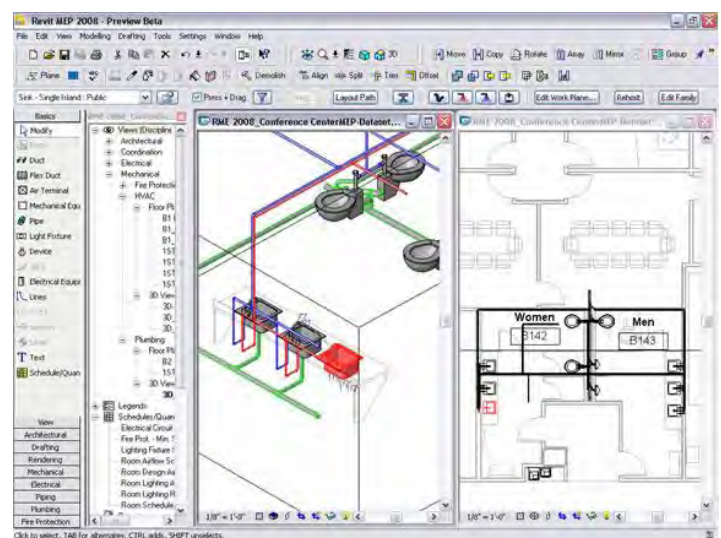
Our experience specialists went to the next level with their BIM design due to the client's additional requirements for latest design requirements. On the other hand, we were able to minimise the projects costs by designing effective solutions.

### Services

- BIM Modeling Design
- Electrical Services
- Mechanical Services

### The Results

In this project we diverse our BIM experience in all MEP engineering services. We have also have a proven to track record of timely project completion, as we were ability to work effectively.



**SERVICES DESIGN TECHNOLOGY INTERNATIONAL**



Date: 2013-2014

Location: Doha, Qatar

MEP Design using BIM System

MOSQUE BUILDING  
AND RESIDENTIAL TOWER

## The Project

The Mosque building consists of a simple ground floor construction that includes the prayer hall in addition to the Imam's residence.

## Our Role

We designed the holy Mosque services using the latest BIM software (REVIT). Our engineers worked closely with the client to put all the required components together to produce a genuine solution as per the international standards.

We were focusing on developing projects in an efficient way. We worked side by side with the client architects.

Our engineers along with our REVIT drafting team were able to deliver the project to the latest BIM standards. SDT helped with the MEP services for this project.

We were able to minimise the projects costs by designing effective solutions. These solutions will minimise any potential delays or errors during the construction phase of the project.

## Services

- BIM (REVIT) Modeling Design
- Electrical Services
- Mechanical Services

## The Results

Our BIM design package was a serious approach to the ideal solutions and most cost effective.



**SERVICES DESIGN TECHNOLOGY INTERNATIONAL**





Date: 2013-2014

Location: Doha, Qatar

MEP Design using BIM System

LABOR REST BUILDING  
AND RESIDENTIAL TOWER

## The Project

The Labor Rest building consists of a simple ground floor construction that houses related facilities to the accommodation building (showers, lockers, break room etc...)

## Our Role

Our engineering/design departments at SDT worked together to perform a comprehensive design of the development. The engineering requirements were taken into consideration when designing this labor rest building and its services. We worked side by side with the client architects using the latest design software that satisfies the BIM system.

We have dedicated a trained team for this project to produce drawings and 3D models using REVIT software. Our engineers along with our REVIT drafting team were able to deliver the project to the latest BIM standards. SDT helped with the MEP services for this project.

## Services

- BIM Modeling Design
- Electrical Services
- Mechanical Services

## The Results

We have completed the project successfully, on time and within the allocated budget. Our solutions impressed our client.



**SERVICES DESIGN TECHNOLOGY INTERNATIONAL**



Date: 2013-2014

Location: Doha, Qatar

Detailed Design with  
Building Information Modeling

LABOR ACCOMODATION  
AND RESIDENTIAL TOWER

## The Project

The Labor accommodation building consists of a simple ground floor construction that includes sleeping accommodations, entertainment room as well as a main kitchen area.

The gross area of the ground floor story is 1336m<sup>2</sup>.

## Our Role

The Qatari Authorities are focusing on developing projects in an efficient way. We are working side by side with the client architects using the latest design software that satisfies the BIM system.

We have dedicated a trained team for this project to produce drawings and 3D models using REVIT software.

Our engineers along with our REVIT drafting team were able to deliver the project to the latest BIM standards. SDT helped with the detailed design for this project.

Our experience specialists went to the next level with their BIM design due to the client's additional requirements for latest design requirements. On the other hand, we were able to minimise the projects costs by designing effective solutions.

## The Results

We have completed the project successfully, on time and within the allocated budget. Our BIM (REVIT) design impressed our client.



**SERVICES DESIGN TECHNOLOGY INTERNATIONAL**





Date: 2013-2014

Location: Doha, Qatar

MEP Design using BIM System

EMERGENCY WORK YARD  
AND RESIDENTIAL TOWER

## The Project

The emergency work yard building consists of a simple ground floor construction that houses road maintenance equipment. The building is roofless on its major part of its area.

## Our Role

SDT was hired as a Design Consultant for this project. We have dedicated a trained team for this project to produce drawings and 3D models using REVIT software. Our engineers along with our REVIT drafting team were able to deliver the project to the latest BIM standards. SDT helped with the MEP services for this project.

We worked side by side with the client architects using the latest design software that satisfies that BIM system. We were able to produce a BIM design as per the client's requirements.

## Services

- BIM (REVIT) Modeling Design
- Electrical Services
- Mechanical Services

## The Results

We have completed the project successfully, on time and within the allocated budget. Our BIM (REVIT) design impressed our client.



**SERVICES DESIGN TECHNOLOGY INTERNATIONAL**