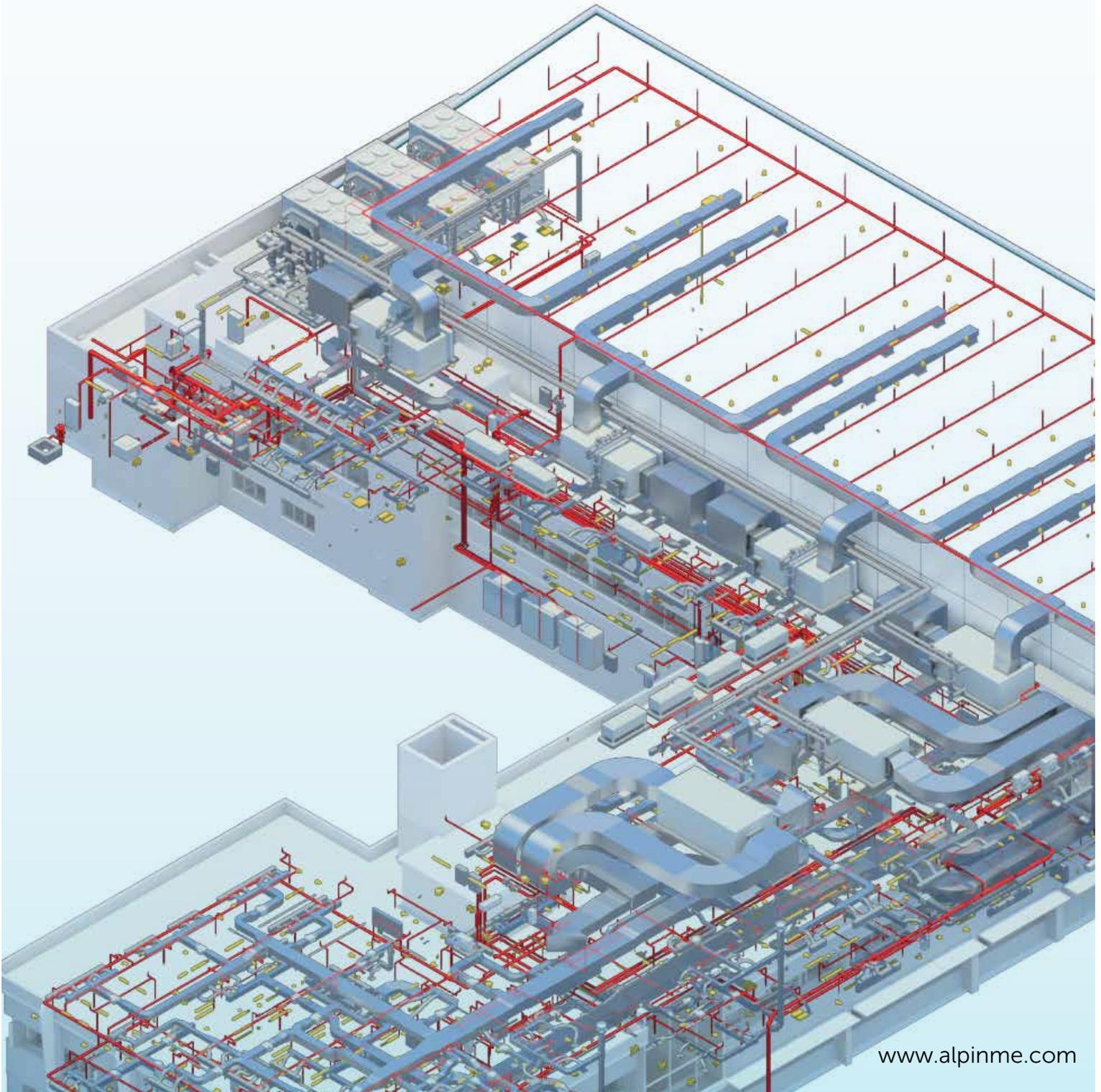


BUILDING INFORMATION MODELING

THOUGHT LEADERSHIP FOR THE BUILT ENVIRONMENT



A REVOLUTIONAL, COST EFFECTIVE WAY TO REALIZE YOUR VISION

At Alpin, we pride ourselves in being one of the pioneers of Building Information Modelling (BIM) in the region. This revolutionary process and technology allows us to create a multi-dimensional, virtual representation of your project, so that all stakeholders can visualize exactly how your development will look and feel. No more wading through stacks of paper designs or worrying whether an idea might work. Thanks to BIM, we have the freedom to experiment with new elements and ensure they are feasible, without needing to waste time or resources during the build. Ultimately, BIM gives us the power to cost-effectively design and construct your project before we even step foot on site.

Our highly experienced team consists of architects, engineers and BIM modelers who have worked on projects ranging

from Grade A commercial towers to complex hospitals and critical airport structures. We also have a strategic partnership with the British Research Establishment to deliver BIM training and research across the Middle East, including BIM Level 2, BS1192, PAS1192 and ISO19650.

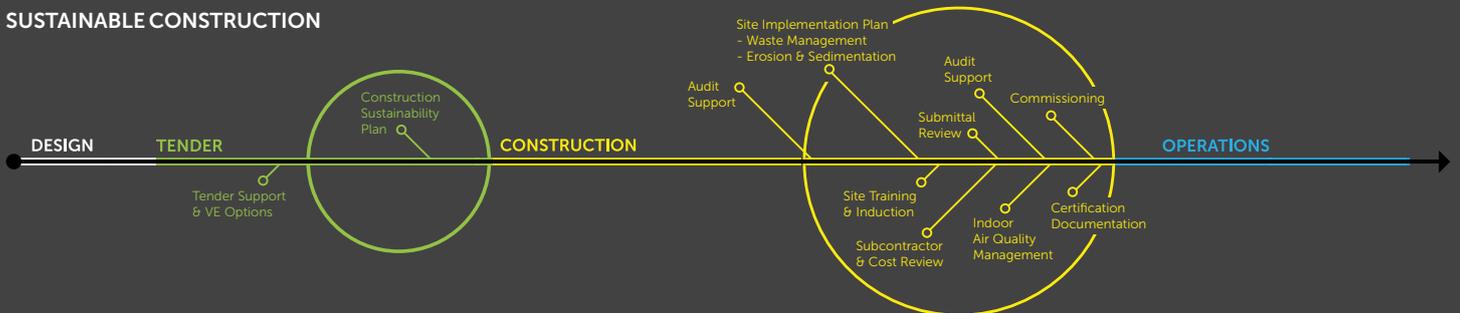
Above all, BIM is so much more than just a 3D model – this invaluable process has the ability to provide crucial design and construction information, and Facility Management data. Indeed, we believe that BIM services should not just stop once the build is complete. We have worked with clients during the operational stages to provide efficient support for the sustainable operation and maintenance of projects throughout their entire life cycle. Access to BIM technology during this crucial phase

allows us to help Facility Management teams continue to find innovative ways to improve their building's operational performance. Plus, by working to BS 1192 standards, a British Code of Practice, we can greatly help to streamline the arduous task of asset management.

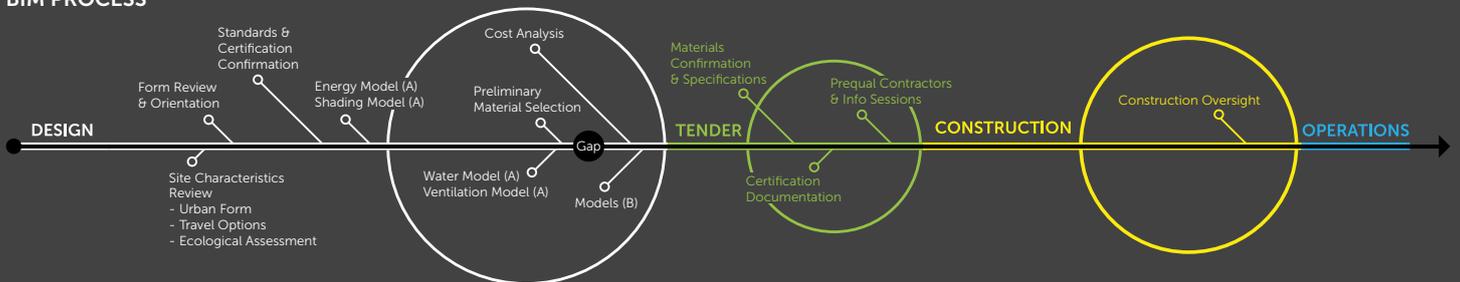
Over the last few years, the importance of BIM has also been recognised by the UK government who has made it mandatory for all projects to meet a minimum level of "collaborative 3D BIM." Dubai has followed suit, by making BIM a requirement on most of its governmental projects. Above all, what BIM means for you as an owner or developer is a faster, more cost effective, high performing project that will surpass your expectations.

THOUGHT LEADERSHIP FOR THE BUILT ENVIRONMENT

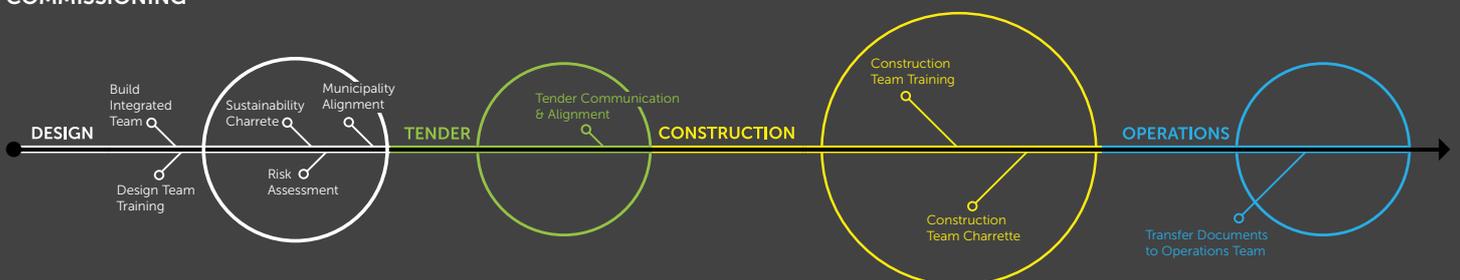
SUSTAINABLE CONSTRUCTION



BIM PROCESS



COMMISSIONING



OUR BIM SERVICES

WHY BIM?

- Significantly proven to improve project delivery.
- Enables safer, faster, more sustainable construction.
- Allows for a more efficient and accurate handover of information between all stakeholders.
- Provides data-rich models that can be used to see real time information throughout a project's entire life cycle, from design and construction, to operation end.
- Proven to save 15-20% on total construction costs.
- Improves speed of project schedules by 10%.

information about the financial feasibility of your project. Once your build is complete, we can offer integrated BIM support throughout your project's entire life-cycle, including 6D simulation which will give your FM team access to enhanced information on how your building is performing.

Finally, we are passionate about sharing our expertise and have trained key clients in the most cutting-edge international BIM practices. We also offer Change Management services to help your team smoothly adapt to the integration of BIM technology into the daily flow of your workplace.

that are guaranteed to deliver your project's requirements.

4D BIM

4D Schedule Simulation allows us to 'walk through' the entire construction process and identify and overcome any potential risks long before we step foot on site.

5D BIM

Through 5D modeling we can uncover real time information about the cost effectiveness of your project and see exactly how changes will affect your budgets and overall construction schedules. We can apply different scenarios and questions to instantly see how they will impact your costs and timings.

6D BIM

Once construction is complete, we can deliver a 6D model – an "as-built" BIM model that is packed full of information directly relevant to the operational phase of your building. It can then be used to model and evaluate energy efficiency, monitor your project's life cycle and maximize its overall cost efficiency.

Change Management

We understand that embracing change and new technology isn't always easy. That's why we offer our own change management consulting to help you personally get up to speed with a more high tech way of working.

Facilities Management and operational stage support

We use the latest BIM technology to deliver structured data and information and an accurate as-built BIM model to assist you with managing your built environment.

BIM Training

We like to think of ourselves as thought leaders in BIM and have worked with a large number of clients to help them become certified as individuals or groups in various BIM practices. We are also the Middle East partners for the British Research Establishment, the world's leading research, consultancy and testing centre for the construction and built environment sectors.



THE ALPIN APPROACH

Our in house team of experts have years of experience in using BIM on a number of important projects across the region. From metro stations and mall expansions to high-end commercial towers and airport terminals, we have used this innovative process to help clients realize even the most complex of challenges.

Our first priority is to fully understand the vision for your development so that we can model and co-ordinate your entire project with accuracy, ease and efficiency. We offer a wealth of services under the BIM umbrella; from drawing up intricate BIM execution plans and creating high-end 3D design models and 4D 'walk throughs' of the construction process, to delivering enhanced 5D models with real time

BIM PROJECT SERVICES:

Building Information Modelling

This highly intelligent process helps us virtually plan, design, construct and manage your entire project. Converting 2D drawings to high-end 3D models gives everyone involved much more insight and transparency into the costs, materials and time required - right from the beginning.

Process Mapping

Our experts can help you create a blueprint for the right processes and practices to ensure the entire process runs smoothly and effectively.

BIM Model and Information Management

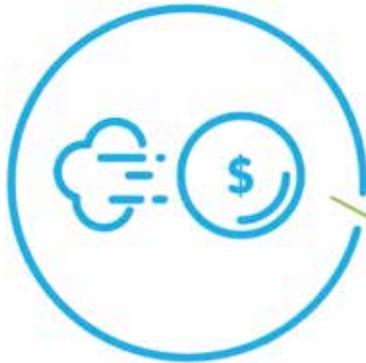
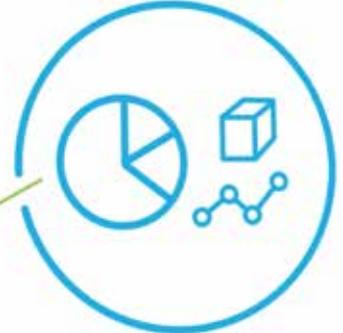
Our team has years of experience in setting up and implementing high end BIM Execution and Management Plans

BIM PROJECTS THAT DELIVER RESULTS

Savings on total construction costs



Easy access to complete datasets



10% faster project schedules



Accurate Information Handover



Accredited Staff Training



BIM CASE STUDIES

In any significant construction project, there are many elements that must combine to ensure a development's success; from meeting intended operating procedures, to ensuring the entire journey is meticulously documented so that facilities management can take over after construction. Alpin confidently supports your development plans from design and construction, to completion and beyond.

TECHNICAL EXPERTISE

We work with superior caliber team members who have the competency, skills and experience to perform inspections, commissioning and startup at the highest of levels. Combine this with our patented technology/work flow process and you can rest assured that your development will be ready for operations without compromise.

PROJECT MANAGEMENT

We provide the best in class team to assist in or fully define and execute independent advisory audits, commissioning, start-up and completions. We approach projects by combining the skills of our highly experienced personnel, with our proven and highly productive way of working. We also employ standard project management tools such as BIM asset tagging software, Primavera and Aconex.

THE RESULT

Better project outcomes, delivered on-time at lower cost.

BIM CASE STUDIES



NATIONAL MUSEUM OF QATAR (NMOQ)

DOHA, QATAR

LEED SILVER
2015

The new National Museum of Qatar (NMoQ) features an innovative design by Pritzker Prize-winning architect Jean Nouvel that is inspired by the desert rose.

Type of Project: Museum

Client: Almana Maples

Services: BIM Management, Modeling and Coordination

MIDFIELD TERMINAL - ABU DHABI AIRPORT

ABU DHABI, UNITED ARAB EMIRATES

THREE PEARL
ONGOING

With a total build-up area of 700,000sqm, the 'X'-shaped Abu Dhabi Midfield Terminal is comprised of a 6-floor-central processor and 4 piers.

Type of Project: Aerospace

Client: PCE JV, Eversendai, Abanos, Beumer, CCM, China State, ASP



CONFIDENTIAL DOWNTOWN REDEVELOPMENT PROJECT IN DOHA

DOHA, QATAR

GSAS D+B RAILWAYS
ONGOING

The Doha Metro is a planned rapid transit system in Qatar's capital. It will have four lines with an approximate overall length of 300 km and 100 stations.

Type of Project: Rail

Client: TonyGee Steel

BIM CASE STUDIES



MISMAK TOWER

ABU DHABI, UNITED ARAB EMIRATES
2017-ONGOING

The project's scope of work consists of twin residential and commercial towers each comprising 29-storey located at Najmat Abu Dhabi in Reem Islands. The towers will have 3 levels common podium.

Type of Project: Residential

Client: SEIDCo. General Contracting LLC.

WAFRA TOWER

ABU DHABI, UNITED ARAB EMIRATES
2016-2017

Wafra Residential Project is a residential tower located in Al Reem Island, one of Abu Dhabi's newest Island master plans located north of the city. The project includes Car parking located in the Basement, Ground and Podium levels P1 to P4, Amenity and Mechanical Floor, 30 Typical Residential Floors.

Type of Project: Residential

Client: Commodore Contracting Co





OUR TEAM

Internationally Experienced

Our consultants have worked in nearly every region of the world. They represent five continents and between them speak eleven languages. Having lived and worked in different countries, they fundamentally understand the dynamics within and between markets. All of our consultants have hands-on emerging markets experience.

BIM TEAM LEADERS

Jourdan Younis

Managing Director

Jourdan continues to build a robust consulting firm known for its commitment to quality and professionalism. Jourdan holds an MBA from London Business School and a BSc in Construction Management from California Polytechnic. He takes great pride in making a positive impact in the cleantech industry, exceeding client expectations and making Alpin a truly exceptional organization to be part of.

Rami Ghanem

Technical Operations Manager

Rami is a Mechanical Engineer who holds a Master's Degree in Building Services Engineering from Heriot Watt university Edinburgh UK with 11 years In Design, Supervision and Commissioning of Building services. He is deeply specialized in Commissioning, Energy Value Analysis, Renewable Energy Studies (Solar Cooling and Solar Heating) and has strong experience in project management and in electromechanical systems.

Nareg Oughourlian

Strategic Consultant

Nareg is a Construction Professional with a background in Mechanical Engineering who has advised developers, consultants, and contractors on the integration of sustainability in the built environment. With extensive experience in Sustainability and Commissioning for the built environment, he is leading our business unit and to leverage our value added services to partners and clients while ensuring that Alpin's core values are reflected and manifested.

CONTACT INFORMATION

Abu Dhabi Office

Courtyard & Incubator Buildings
@ Masdar Institute, Office 118,
P.O. Box 135097, Masdar City,
Abu Dhabi, United Arab Emirates

Tel: +971 2 234 6198

Fax: +971 2 234 6199

Email: contact@alpinme.com

Dubai Office

DWC Business Centre,
P.O. Box 390667,
Dubai World Central,
United Arab Emirates

Doha Office

Palm Tower, Block B
15th Floor West Bay
P.O. BOX 26600
Doha, Qatar

Tel: +974 4034 2073

Fax: +974 4034 2020

European Partner Office

Alpha GmbH (Munich, Germany)
ALPHA Energy & Environment GmbH
Landsberger Straße 98
80339 München, Germany

Kuwait Office

Al-Soor Street,
Al-Shamiya Tower, 16th Floor
Al Kuwait, Kuwait
Tel: +965 2233 1833