

*Building Information Modelling.....enhancing the  
Engineering, Procurement and Construction Process.....*



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Building Information Modelling

[www.acscad.ie](http://www.acscad.ie)



## Company Profile

ACS Ltd. was established in 1999 and is an Irish owned privately held company.

ACS has been providing specialist Engineering and Architectural CAD services to the Construction Industry and Associated Professions for over 12 years. Our business has grown successfully through continued investment in technology and people. Today we offer a cutting edge Building Information Modelling (BIM) service to our clients globally.

Our staff is comprised of qualified Engineers, Structural Technicians and Architectural Technicians. Using BIM, we have successfully completed projects throughout Ireland and the UK, and our experience includes, Commercial, Industrial, Health and Education sectors ranging from small to large scale projects.

We use a combination of the latest 3D modelling software to provide high-end, intelligent and data rich building models. We support companies that want to implement BIM on a specific project but lack the resources and experience to do so. We also provide assistance at tender pre-qualification stage to companies seeking to win a contract where the use of BIM is a requirement of the qualification documentation.

We firmly believe in working in partnership with our clients and project design teams. We have built longstanding relationships with our clients through continually exceeding their expectations. We take pride in the fact that our clients return to us time and again.

Contact

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## Building Information Modelling

### ***BIM – How We Can Help***

Our Building Information Modelling (BIM) service provides our clients with an intelligent 3D model of their development. Using the 3D model we carry out a Virtual Construction Analysis of the building to test for constructability. The results of this analysis allow us to accurately predict how various construction disciplines' designs will integrate on-site, thus eliminating costly time delays due to on-site clashes and design changes.

Our BIM process can begin at either the concept / planning phase or pre-construction phase. We take the Architectural, Structural and MEP design information and create an intelligent 3D model. Our 3D model represents a Virtual As-Built Model of the building, which can contain as much information as the client requires, even down to the fit-out of the building.

Intelligent data can be taken from the model such as;

- ▶ Bills of Quantities
- ▶ Detailed Drawings and Sections
- ▶ NC Files for electronic transfer of data for manufacture, i.e. Structural Steel
- ▶ Program Scheduling
- ▶ Conflict detection between Construction disciplines

A 4D model can be developed by adding construction event timelines creating a visual program of all construction activities. The model may be further developed to include the cost of materials and labour generating a 5D model where the cost impact of any future design changes are immediately seen.

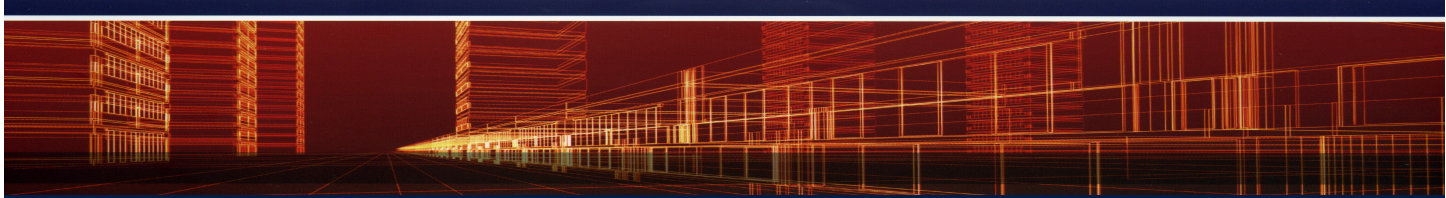
During construction the 3D Model can be used to generate 3D sectional views to provide further visual and dimensional information to the construction team.

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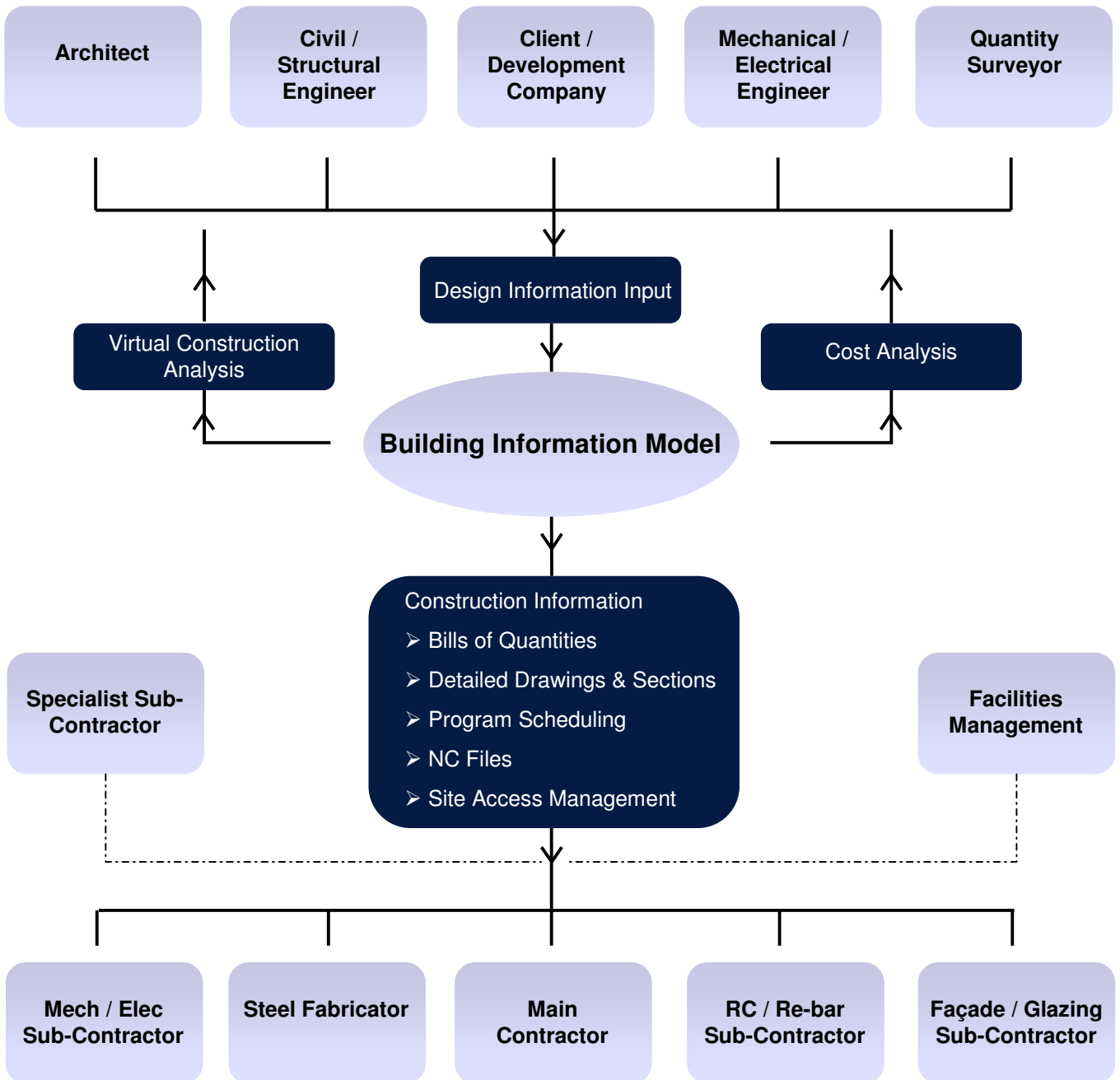


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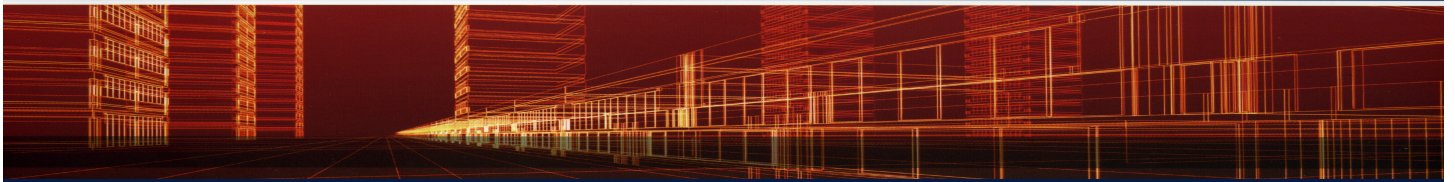
### BIM – The Process





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## Building Information Modelling

### **BIM – *The Benefits***

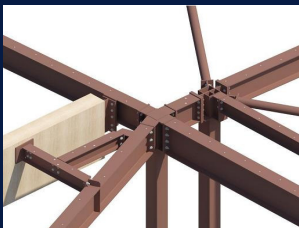
Having worked in a 3D modelling environment for the past ten years, ACS are to the forefront of providing BIM services to the Architectural, Engineering and Construction industry. Our clients benefit from the experience we have gained working on international projects.

#### **Benefits of BIM**

- ▶ Improved communication between all project participants
- ▶ Co-ordination of all design disciplines through the BIM
- ▶ Accurate Quantity Take-off directly from the model
- ▶ Facilitates early procurement process
- ▶ Facilitates off-site manufacturing
- ▶ Clarity in construction sequencing
- ▶ Reduces the impact of design changes
- ▶ Reduces Waste
- ▶ Savings in cost and time

We use a number of leading 3D modelling software systems to produce the BIM. This allows us to effectively communicate with our clients and export the model data in whichever output format is required.

The functional use of the 3D model can extend beyond the construction life-cycle and can be used for Facilities Management, Health & Safety, Developing Leasing Plans and Tenancy Fit-outs.

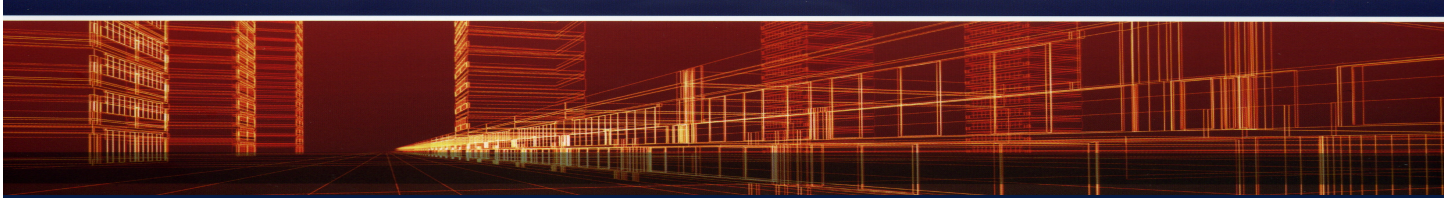


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## Commitment and Quality

### Commitment

Each project that is undertaken by ACS is assigned a dedicated project manager to;

- ▶ Liaise with our clients to establish project requirements and schedules
- ▶ Co-ordinate the smooth transfer of information between the Client and ACS
- ▶ Ensure our clients expectations are exceeded

### Quality

All our projects are subjected to a rigorous internal audit process. This process is driven by senior management and operated by everyone in our organisation to ensure we deliver error free projects on time, every time.

### Contact

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