

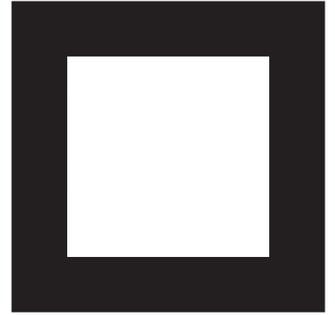
# PERSPECTIVE

NEWSLETTER OF PERSPECTIVE

A GROUP OF ARCHITECTURAL PRACTICES  
WORKING TOGETHER IN EUROPE & ABROAD

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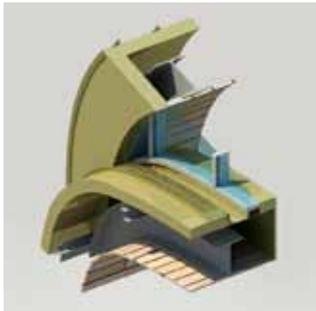
2012  
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## PERSPECTIVE CELEBRATES ITS 20TH ANNIVERSARY

### PERSPECTIVE & BIM

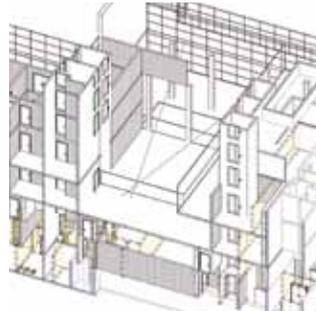
IN THIS ISSUE OUR MEMBERS FROM THE NETHERLANDS, SWEDEN AND THE UNITED KINGDOM  
SHARE THEIR EXPERIENCES



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# PERSPECTIVE CELEBRATES ITS 20TH ANNIVERSARY

**Perspective celebrated their 20th Anniversary at a party in Madrid hosted by BSV on 16th February. The following is an extract of the address delivered by Perspective President, Anne Fletcher.**

'Today we celebrate the 20th anniversary of Perspective, a network of architectural practises across Europe, providing top quality service to clients throughout Europe and further afield.

Perspective was launched in Brussels in 1992 and has delivered joint projects in a wide range of sectors including commercial, leisure, residential, education, healthcare, pharmaceutical, industrial, infrastructure and masterplanning. Examples include the housing project in Carabanchel, or the French embassy, both in Madrid, the Le Figaro printing works in France, large scale residential developments in Poland and recently, the group has won an international architectural competition to deliver a bundle of four large schools in Belgium.

In recent years, the outreach of the group has expanded to new markets, including China, India, the Middle East, Brazil, East Timor, Cape Verde and many more.

Some of our guests here tonight will know Perspective and have direct experience of the particular advantages of the collaboration of our members in delivering your projects. For those less familiar, the essence of the group is to provide the clients of each of our practices with the ability to deliver projects internationally. There are nine members of Perspective, based in Madrid, Lisbon, London, Antwerp, Alkmaar, Stockholm, Poznan, Paris, and Dublin. A Perspective client engages the member who is local to them, knows them, speaks their language and understands them. The Perspective architect delivers the project in Europe or internationally through a seamless collaboration with their Perspective partner or Strategic Alliance in the relevant country. Each member has a particular range of expertise and the combined skill base of the group is available to all clients on any project. In many cases, members seek to win new commissions in their own countries by bringing the expertise of another member to the project. For example, the group's core leisure, hotel and resort experts reside here in Madrid and in Lisbon and London, Bernar Sainz de Vicuna being the Madrid member.

What is the magic that energises and vitalises the group? It is the strength of relationship between members built up over the years, continuously developing through on-going collaboration. The group meets three times a year. The agendas vary but always include the exchange of information and know-how. Through research-based workshops and task force study groups, fresh thinking, innovation and forward-looking strategies are developed; ensuring Perspective members provide the creative and informed design leadership required to meet the challenges and demands of our clients.



Over the coming years, we plan expansion of the group to bring new members on board from Germany, Italy and Denmark. With much of Europe continuing to experience low economic growth, the group will continue its reach into new markets in China, India, the African Continent and South America.

Perspective is strong. This strength has grown from the development of successful methodologies collaboration. It is also strong because it is a group of like-minded, committed architects who, through our regular meetings, have come to be not just colleagues, but friends.

It is in this spirit of friendship that we meet tonight to celebrate our success to date, and, with you, our clients and friends, look forward to a bright future where European collaboration delivers architectural excellence throughout the world.'

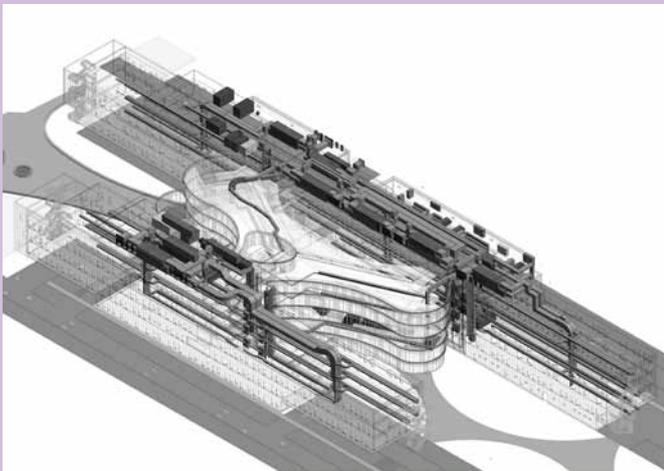


**'Through research based workshops and task force study groups, fresh thinking, innovation and forward looking strategies are developed... to meet the challenges and demands of our clients'**

# PERSPECTIVE & BIM

The future of architectural documentation is 3D and BIM (Building Information Modelling) is the buzzword. In this issue our members from the Netherlands, Sweden & the United Kingdom share their experiences.

Integrated designing for the new Gemini Hospital, NL (25,000 m<sup>2</sup>)



## A PERSPECTIVE TO BIM: ARNOLD BURGER OF PERSPECTIVE NETHERLANDS SHARES HIS THOUGHTS ON BUILDING INFORMATION MODELING

**We thought in the Eighties that drawing with a computer really was a revolution. We now know better. CAD ('Computer Aided Drafting' - or later 'Design!') software like AutoCAD can be regarded as just an electronic drawing board. A draftsman constructs drawings, 2 dimensional abstract views of a spatial idea for a building the architect has in mind (he hopes). And those abstract, most technical drawings like floor plans, sections and elevations must show the client the building he's going to invest a lot of money in. He really must have great confidence in his architect!**

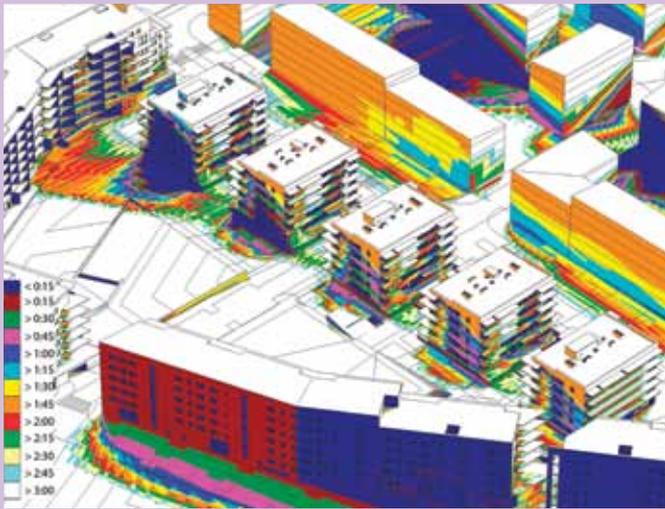
Now that we have worked with 3 dimensional BIM software we know that CAD was more an evolution than a revolution. What is common to other industries like automotive, airplanes and ships for years is now entering the construction industry. The many advantages of using BIM software proves to be of great benefit to professionals associated with the construction industry, as they can view the final product to ensure the desired results are achieved. Building Information Modeling or BIM for short has the potential to revolutionize the whole design and construction process. It helps in creating a better design of the building and has become a vital part of the process of designing and creating the building. The application is also a great benefit to collaboration of all designers and engineers, as all the information is available in digital format in a central database. This database can be viewed both graphically and textually as well and of course all kind of external databases can be related to it. While BIM is just at a starting point now, within the short term we will use the model to answer all our questions we have for the building, for instance:

- what will it look like?
- what is the amount of energy the building will use?
- what are the logistic processes in the building?
- what happens during a storm or earthquake?
- what are the acoustic relations between rooms?
- what happens when a fire occurs?
- how is my maintenance planned?

**'Building Information Modeling, or BIM for short, has the potential to revolutionize the whole design and construction process.'**

It is obvious that there are and will be several benefits of using BIM software for architectural projects for the client. The most important is already there: the entire project can be visualized right from the beginning and gives a very good insight in what is going to be built. And just this will lead to two very important reasons to work with BIM: higher quality and reduction of building costs. Better understanding of the design, less construction mistakes, a shorter construction time, more prefabrication, better collaboration, better communication and so on. These facts will continue to support BIM to become the revolution in the building industry.

Most offices of the Perspective group work with Revit, the BIM software of Autodesk. Some of them already started with the software nine years ago and have built models which have actually been built, ranging up to 25,000 m<sup>2</sup> in size.



## SWEDEN EARLY BIM ADOPTERS

1996 Ahlqvist & Almqvist started as responsible architects to work with the underground railway stations of Citybanan, a 2 billion Euro project. As early as 2002 A&A began the development of a 3D-model, although originally intended as a support for sketching and visualization, the model soon found use in several different fields of expertise. In addition to serving as a project-wide general information and orientation tool for the spatially complex design, it was the basis for CFD calculations for fire exhaust and normal ventilation airflows, three-dimensional property division and registration, highly accurate solar studies, crowd simulations both for normal operation and emergencies and hydraulic volumetric studies of emergency flooding scenarios. The early realization of the added value of an accurate model encouraged us to explore further possibilities.

In the planned 7,000 m<sup>2</sup> addition to Mälardalens Högskola in Eskilstuna, a complex program included a new main entrance, a university library, offices and a logistic/service center. In cooperation with structural, electrical and mechanical engineers and, with the help of a common BIM approach, we designed a highly efficient and flexible building with a minimum of mechanical installations, low energy consumption and sustainable materials.

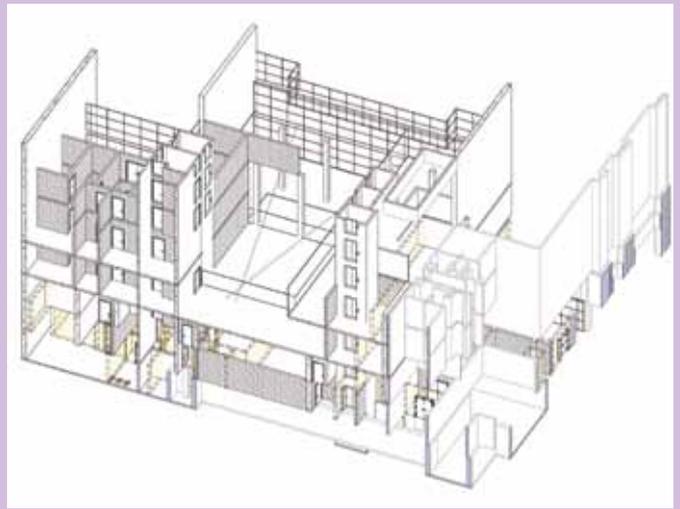
When starting the project Södertörns University 15,000m<sup>2</sup>, the client requested all contributors to deliver BIM information enabling the use of the database for quantity surveys and for tendering. A&A assumed BIM coordination responsibility,

and enabled the BIM models to be used for coordination, auditing and visualization in addition to the clients' requests.

In the Poznan Portowo project, A&A and perspective member ELD Poland, as local architects, have cooperated in developing a highly detailed model comprised of 400 apartments in 11 buildings. The model has proved useful investigating the strong Polish insolation requirements as well as client-requested early quantity surveys and energy calculations.

From 2009, Ahlqvist & Almqvist are members of the Swedish development programme OpenBIM, a cross-disciplinary initiative which aimed at improving the building industry through workshops, seminars and research projects, improving and spreading knowledge of BIM tools and processes, focusing on the end product - the finished building.

**'The early realization of the added value of an accurate model encouraged us to explore further possibilities.'**



## UNITED KINGDOM IMPLEMENTING BIM

Dexter Moren Associates are currently utilising BIM (Building Information Modeling) for the design and development of a five star hotel in the City of London.

BIM is the process of using a single 3D model, where a wide range of intelligent information is embedded within the model for extraction at a later date. From this single model a variety of output such as 3D and 2D drawings, furniture lists, schedules (i.e. doors, windows, areas, etc) can be extracted. One primary advantage of the single BIM model is a greater co-ordination than with traditional separate consultant drawing packages, particularly useful in detecting clashes, such as between Structure & Services, long before reaching site. BIM also allows for coordinated changes to be easier and quicker than in the past; for instance if a door is moved or removed, then that door will automatically be updated every other place it is seen in the drawings and schedules.

The future aspiration for BIM is that it can extend beyond Design and Construction to Facilities Management. In the 30 year lifecycle cost of a building, 1/3 of cost goes to Design and Construction & 2/3 of cost goes into Maintenance and Operational Expenses. The extensive data input at the Design and Construction stages is rich in intelligent information (i.e walls, floors, ceiling build ups, areas, furniture, plant equipment etc) and this information can inform Facilities Management in assisting to run a more efficient and cost effective building to the benefit of the user & developer.

**'One primary advantage of the single BIM model is a greater co-ordination than with traditional separate consultant drawing packages.'**



## UK SHANGHAI SHOP WINDOWS

Dexter Moren Associates are delighted to have been selected to take part in the first RIBA Shanghai Shop Windows project. Collaborating with renowned Japanese brand franc franc, DMA will be designing a new shop window display in the city's Xintiandi shopping centre, to be unveiled in September for owner Shui On Development. The RIBA London initiative is based on the success of the Regent Street Shop Windows event, now in its third year, in which architects create displays for retailers. DMA were one of nine British practices selected from 80 applicants.



## IRELAND THE PHOENIX RESTAURANT RISES FROM THE ASHES



The Phoenix Restaurant at National University of Ireland, Maynooth was built on the site of an old restaurant which had been destroyed by fire. The new restaurant complex includes:

- 450 seat restaurant
- 80 seat café
- 100 seat coffee shop

The project also includes a large fully serviced catering kitchen to service the ground floor restaurant and cafe as well as a satellite kitchen at first floor to service the coffee shop and a private dining room. The satellite kitchen is connected to the main kitchen by a dumb waiter.

The restaurant adjoins the existing sports building at NUIM. The new design provides a new shared foyer for both the restaurant and sports facilities, accessed through large and sunny plaza. Universal access has been provided throughout.

Externally the elevations have been clad with high pressure laminate and large areas of curtain walling. The new building ties seamlessly with the adjoining sports hall. The plaza area includes raised beds to accommodate the existing planting, seating benches and a modern bandstand which was donated to the university by Kildare County Council. The new plaza has become a popular spot for student gathering particularly on sunny days.

The design has created a light and airy space which was achieved by extensive use of high efficient glazing optimising daylight, reducing the use of artificial light and minimising summer heat gains. U-values were reduced by a

minimum of 20%, benchmarked against current building regulations, to reduce unwanted heat loss. The building envelope under test achieved an airtightness level of 3.09m<sup>3</sup>/hr.m<sup>2</sup> thus reducing unwanted heat loss via infiltration. Careful detailing and improved construction techniques on the building envelope contributed to this result. Natural ventilation was employed and optimised where practicable.

The active mechanical and electrical solution includes a Building Management System (BMS) utilising heat and water meters to facilitate the targeting and verification of energy consumption used in the restaurant. In addition, high efficiency systems such as heat recovery mechanical ventilation were provided to minimise CO<sub>2</sub> production, solar thermal panels were installed to harness the direct and indirect solar gain for the production of hot water and daylight optimisation on the lighting system was provided to maximise natural light.

# PORTUGAL EPIC STARTS IN LUANDA

EPIC SANA just opened in Luanda, and was immediately considered 'the place to be' in the city. With astonishing views over the Luanda Bay, this 5\* is the first of a set of four designed by NLA.

The building is composed of a podium that hosts all public areas, topped with a roof and pool garden, from which rises an elegant tower with all the rooms and suites. On the rooftop, a VIP lounge and gourmet restaurant makes the most of the city and sea views.

Combining contemporary design and a cosmopolitan atmosphere, melded with African materials and colours, the concept integrates architecture, light, comfort, and refined interiors.



The stonework in the facades of the podium and tower is already a must-see in the cityscape.

Composed of 238 rooms and 50 apartments for long stay, it includes 16 Master Suites and 3 Presidential suites.

Food and beverage is provided by five bars and restaurants, plus a night club.

For guest's health, a spa and health club completes the offer of services.

Key figures include 45,000m<sup>2</sup> of building surface over 21 floors above ground and six basements.

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**UNITED STATES**

# SPAIN SPORTS FACILITIES FOR PRIVATE SCHOOL IN MADRID



BSV is developing the project and construction of a Multipurpose Sports Pavilion and outdoor sports area, for the Santa Mª del Pilar School (FEMDL) in Madrid. Currently nearing completion, the building will open in August 2012.

Sited partially on an existing football pitch, the building contains the following main elements:

- Multipurpose sports hall (basketball, wheels hockey, volleyball); area approx

1.400m<sup>2</sup>, complemented with four main changing rooms and showers, storage, etc. On the first floor, a stage for 150 spectators.

- Two swimming pools (adults 25 x 17m, children 5 x 17m) complemented with four vestiaires, surgery, storage.
- Gymnastic and fitness area placed in the first floor, with two vestiaires and three paddle courts on the roof of the swimming pool area.

Externally, the project includes a new football pitch (of artificial grass) able to be used in its complete size for eleven players, or divided across for seven player teams.

The existing pavilion will be refurbished for use as a paddle and multisports area.

The main structure of the building (columns, beams, slabs) has been constructed in precast concrete and erected in 8 weeks, permitting an early programme start on the internal walls and gym structures. In the sports hall we employed laminated wood for the roof structure, mounted in the record time of eight days.

The air conditioning and hot water for the pavilion and swimming pools is achieved with solar panels in the roof via efficiency energy systems.

The total estimated cost is 6m Euros.

# FRANCE NEW COMMISSION FOR LAZARD FRÈRES GESTION HQ FIT OUT

LPA was commissioned by Lazard Frères Gestion for the fit out of their new office building in Paris. For a repeated client, LPA accepted the challenge given by LFG of four and a half months for the concept design, tender and construction works for their regular office spaces and meeting rooms.

The general aspect of the design is classical, with oak veneer in the meeting rooms and wood laminated on the partitions panels and doors.

From the ground floor to the mezzanine, the meeting rooms can receive outsiders but also LFG employees. On the other floors, a series of closed offices and small open spaces create a cosy and concentrated environment. To avoid the creation of closed clusters, most of the rooms are treated with glazed partitions. All partitions received leaf shaped manifestations to give a sense of space, but nestling each room in a small volume.



**PERSPECTIVE**

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