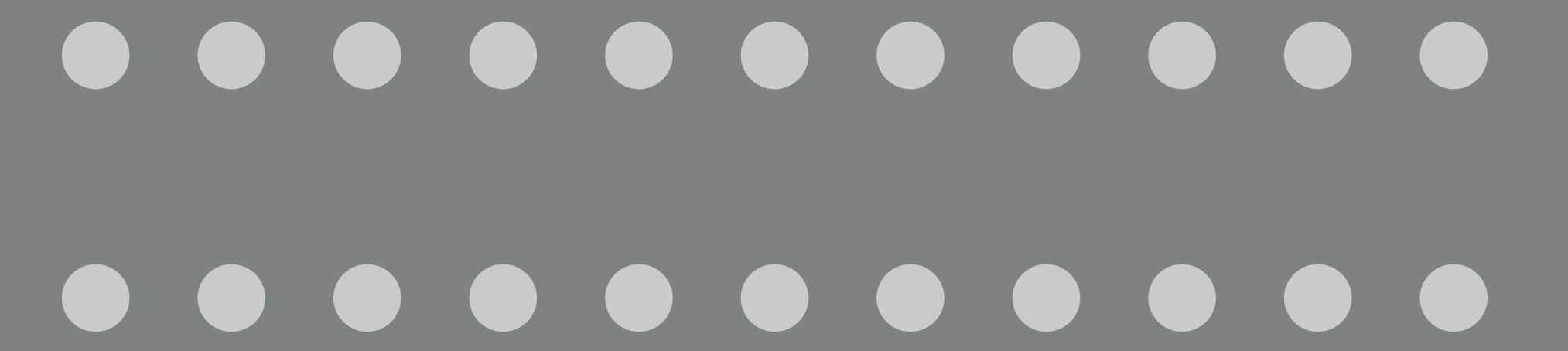




AVIANO
Private Limited

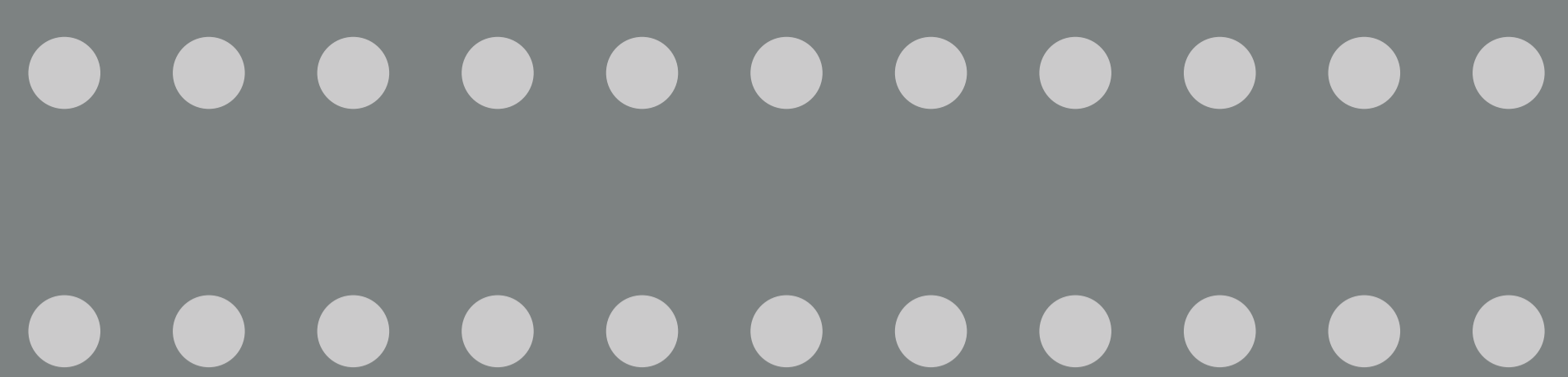
BM&F BOVESPA



ABOUT US

Aviano Private Limited is a company that develops innovative solutions for its customers based on the experience of technical consultancy and keeping a leading position in the market.

Ardor Wing is a subsidiary of Aviano Private Limited which deals with Building Information Modeling (BIM) for Architecture and Construction fields.



VISION & MISSION

VISION

To become a global leader in providing services and solutions in BIM (Building Information Modeling) and construction industry

MISSION

We train our candidates to expand their knowledge and skills through realistic construction-based project.

OUR VALUES

- We are committed operating at the highest level of honesty with you at all times.
- We believe in giving due regard for your thoughts, feelings, wishes and rights as we work together and we are committed to ensuring that this respect is demonstrated in all we do together.
- Integrity is the quality of being honest and having strong moral principles. We believe that it is important to stand up for what one believes and to be an example of good moral principles and values..
- We have a wealth of knowledge and experience gained over 4+ years. We are passionate about helping people achieve their highest aspirations and dreams and will support you to make this happen. In addition we are qualified in all these areas and work to continually keep our skills and knowledge updated ongoing Continual Professional Development.



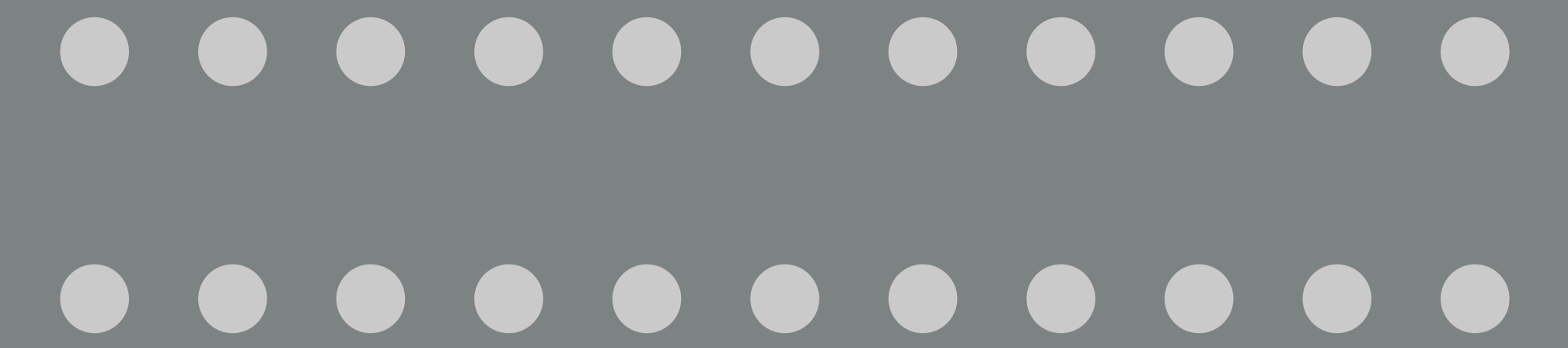


ABOUT BIM

Building Information Modelling (BIM) is the foundation of digital transformation in the architecture, engineering, and construction (AEC) industry.

It is a highly collaborative process that allows architects, engineers, real estate developers, contractors, manufacturers, and other construction professionals to plan, design, and construct a structure or building within one 3D model. It is the holistic process of creating and managing information for built asset.

In the past, blueprints and drawings were used to express information about a particular building plan. This 2D approach made it very difficult to visualize dimensions and requirements. Next came CAD (Computer Aided Design), which helped drafters see the benefit of plans in a digital environment. Later on, CAD turned 3D, which brought more realistic visuals to blueprints. Now, BIM (Building Information Modelling) is the standard— but it is much more than just a 3D model.



WHY BIM

1. BIM improves team collaboration and workflow efficiency

- Greater iteration can be embraced during the design phase.
- Teams are allowed to work more collaboratively and are no longer required to waste time cross-checking documentation and files
- Specialists are more easily able to provide input across all areas of a project
- The amount of time it takes to develop a plan is reduced.
- Workflows will produce fewer errors and require less oversight.

2. BIM provides a stable platform for computer simulations and 3D Models

- It provides a store of architectural and design data that can be used for 3D modelling and software simulations.
- These programs can be used for design and structural purposes, allowing for the creative deployment of new materials and design concepts.

3. BIM enables clients to engage with projects prior to construction

- The 3D models you can use for design purposes also make it easier to share ideas with clients.
- 3D modelling makes it easy for individuals without specialist architectural training to view plans and visualise the final result. Even people in the construction industry struggle to accurately interpret architectural drafts.

4. BIM follows buildings throughout their lives

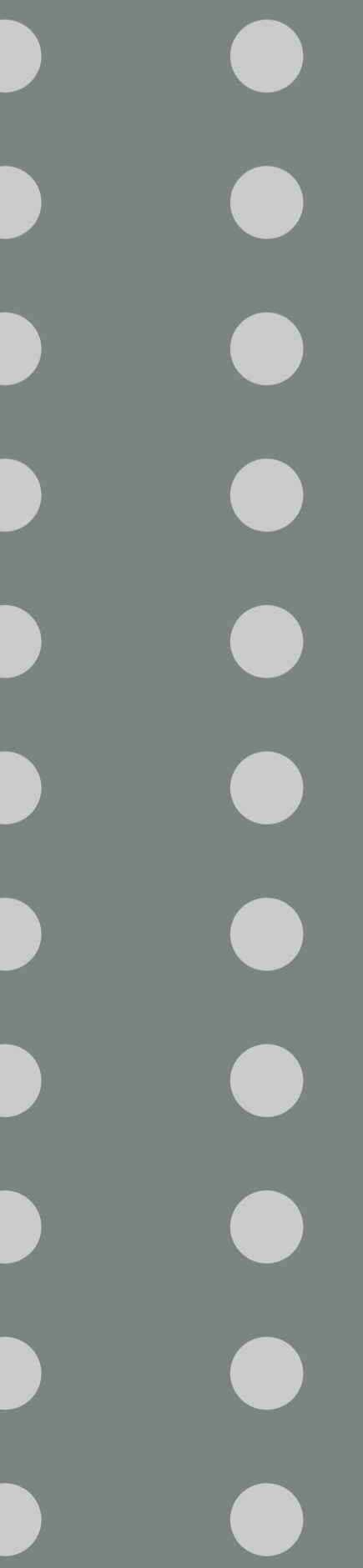
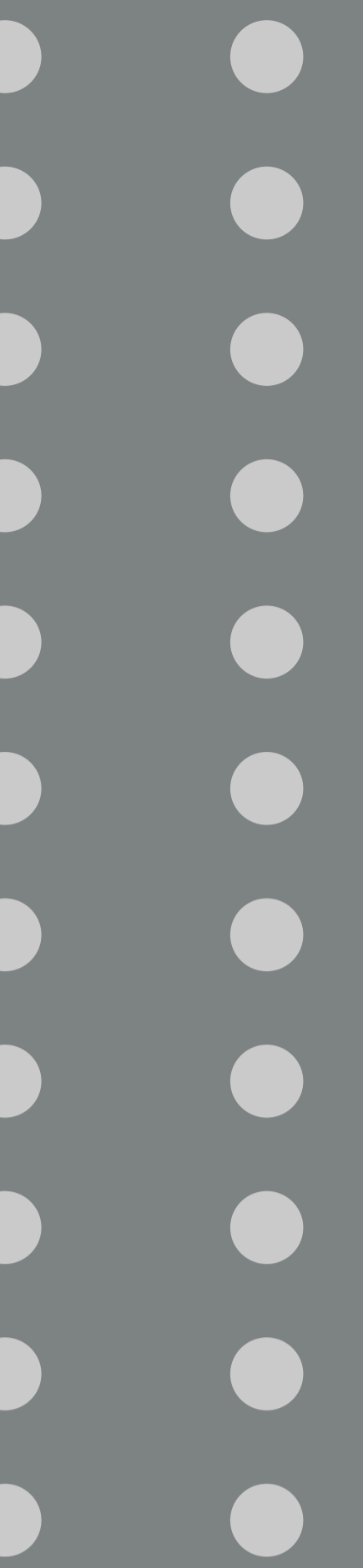
- BIM schematics aren't only useful to construction teams; they create the foundations for a true digital handover.
- A database of all the relevant information about a building or facility is passed on to the building manager at the end of a construction process

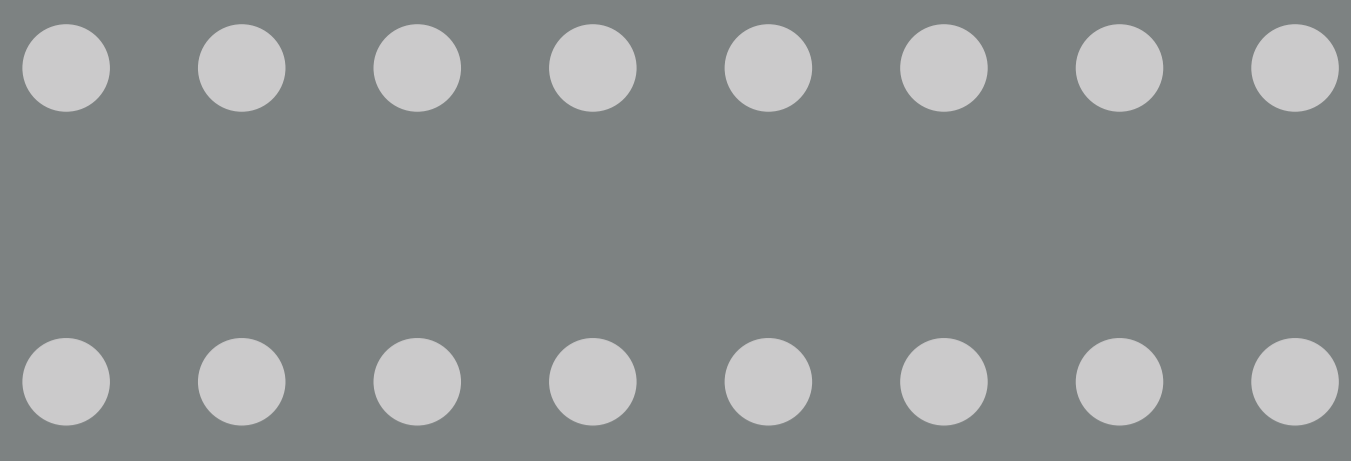
5. BIM delivers visibility, collaboration and workflow efficiency

- BIM improves collaboration while reducing errors. Documentation can be produced automatically and workflows can be accelerated.
- BIM produces 3D models of designs. This widens the accessibility of the data and enables non-specialists to engage with (and even edit) building designs.

6. BIM is more than just a design

- The central characteristic that makes BIM special is its database storage methodology
- Creating a single source of truth for design allows for collaboration, modelling and streamlining of workflows.





WHY LEARN BIM

- 3D modelling makes it easy for individuals without specialist architectural training to view plans and visualise the final result. Even people in the construction industry struggle to accurately interpret architectural drafts.
- More than 90% of AEC industries are using BIM concept.

- A BIM skilled Professional is paid 30% more on an average.
- More career growth in AEC industry.






SCOPE & BENEFITS IN BIM INDUSTRY

SCOPE

This includes designing a clear understanding of the model and information needs of the project. This can be contained in a responsibility matrix or LOD table – as a Model Progression Specification. The matrix/table outlines the work that needs to be done and by whom at each stage of the project. The responsibility matrix/LOD table will also help to avoid the area by clearly illustrating the deliverables

BENEFITS

- Cost and resource savings.
 - Greater efficiency and shorter project lifecycles
 - Improved communications and coordination
 - More opportunities for prefabrication and modular
 - Higher quality results construction
- 



HOW BIM USED IN DESIGN & CONSTRUCTION



STEP 1: MODELLING

Architects use BIM authoring tools to make detailed 3D models of the structure. At this stage, they can experiment with the design and identify potential issues before committing their ideas to the construction process.

STEP 2: WORKFLOW

All information and ideas related to the project are stored in a shared location that clients, architects, contractors, and other collaborators have access to.

STEP 3: CONSTRUCTION

With the established workflow in mind, contractors construct the building. They can revisit the BIM model or workflow during the process anytime and make adjustments to it as needed.

STEP 4 : HANDOVER

After the structure is complete, architects can turn over the BIM model to the client or the facility management (FM) company. Having a detailed model of the design is useful for locating HVAC systems or making future renovations.



BIM MANDATE COUNTRIES

- USA
- UK
- SINGAPORE
- CHINA
- SCANDINAVIAN COUNTRIES (NORWAY, DENMARK
FINLAND, SWEDEN, etc.)
- FRANCE
- SOUTH KOREA



COURSE STRUCTURE

INTRODUCTION OF
BIM

BASIC OF
RIVET

BASIC OF ARCHITECTURE
STRUCTURE & RIVET

INFORMATION MANAGEMENT
PRESENTATION
DOCUMENTATION
BIM PROCESS
INDUSRTY WORKFLOW
CLASH DETECTION IN NAVIS
WORK
BASIC OF DYNAMO

3D VISUALIZATION
WITH VRAY &
TWINMOTION

ANALYTICAL MODEL
ETABS

ADVANCED
ARCHITECTURE

ADVANCED
STRUCTURE

COURSE SYLLABUS

1. INTRODUCTION OF BIM

- The 3D models you can use for design purposes also make it easier to share ideas with clients.

2. BASIC OF REVIT MODELLING

- Revit interface— toolbars, navigation, views views.
- Setting up a project - project templates, importing from cadcad.
- Grids & Levels
- Creating 3d forms forms via 3d modelling tools.
- creating families in revit & hosted and nested families.
- Mass modelling in revit.

3. BASIC OF ARCHITECTURE, STRUCTURE & MEP

- Basic tools & basic concept of architecture, structure & MEP.

4. ADVANCED REVIT MODELLING ARCHITECTURE (OPTIONAL)

- Site design, topography and terrain.
- Solar study
- Design analysis
- Adaptive parametric component
- Copy/monitor as a co -ordination
- Mass modelling
- Global Parameters



5. ADVANCED REVIT MODELLING STRUCTURE (OPTIONAL)

- Structure grids and levels.
- Structure column, beams, slabs and bracing.
- Structural walls and opening.
- Foundation, plinth beams and columns.
- Placing of rebar's in all components.
- Steel connections and rebar detailing.
- Structural analysis workflow.

6.3 D VISUALIZATION IN TWIN MOTION V-RAY

- Make rendering in v ray.
- Creating and exporting 2D & 3D views.
- Creating walk throughs.

7. ANALYTICAL MODELLING IN ETABS (OPTIONAL)

- Structure modelling.
- Material properties.
- Member specifications.
- Loading particulars.
- Seismic load wind load analysis.
- Post processing.
- R C design steel design precast.



8. INFORMATION MANAGEMENT, PRESENTATION AND DOCUMENTATION

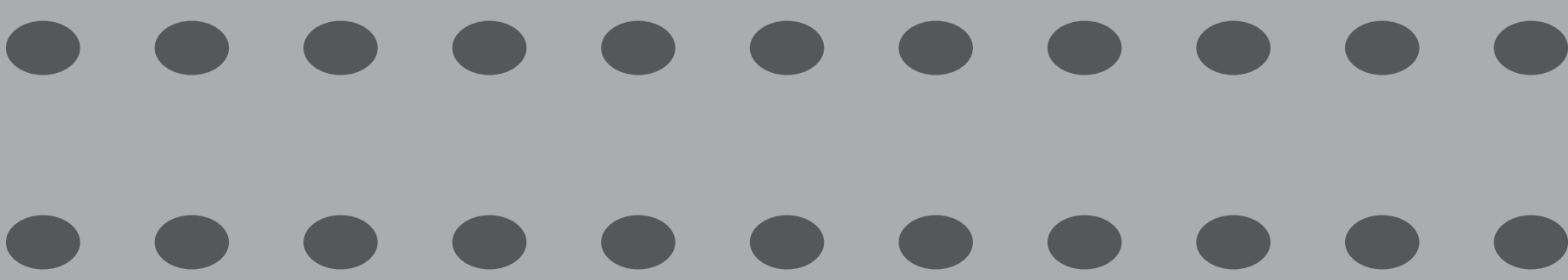
- Visibility and graphics
- Scope box
- Organization of views
- Presenting a design in revit
- Sheets, phasing, revisions, annotation and detailing, annotation families
- 2 D 3 D views, tagging, parameters
- Managing worksets and link, schedules and keynotes

9. BIM PROCESSES INDUSTRY WORKFLOWS

- BIM strategy
- BIM execution plan
- 4 D schedule quantity take off
- Level of development(LOD)

10. TEAM COLLABORATION AND MULTIDISCIPLINARY WORKFLOW

- Understanding the different roles in building construction
- Introduction of work sharing model
- BIM 360 design co ordination and clash detection

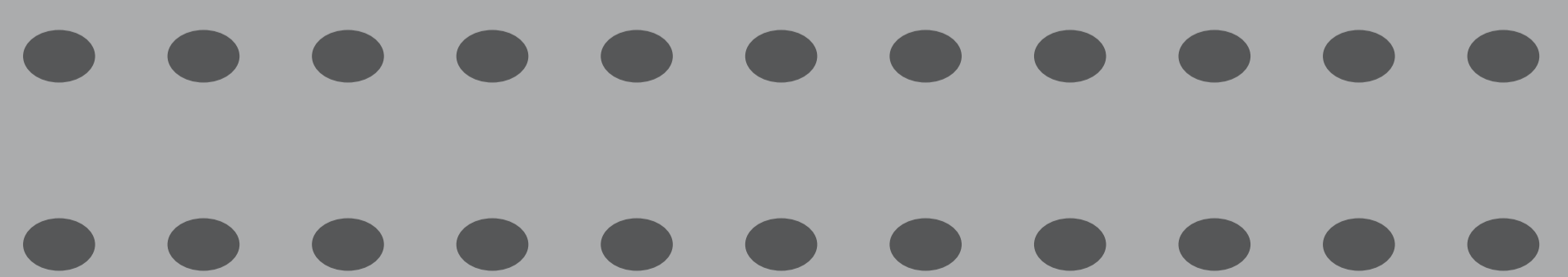


11. BIM CO ORDINATIONS IN NAVISWORK

- Use naviswork in 4 D and 5 D phases of BIM co ordination for clash detection
- Model break up strategy
- Model federation strategies
- Interoperability

12. BIM CO ORDINATIONS IN NAVISWORK

- This model aims to equip learners with the tools to model complex geometries in revit.



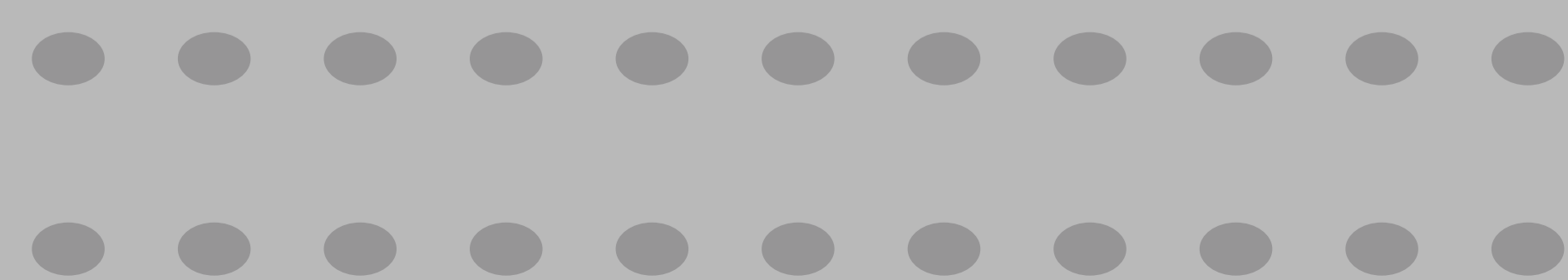
LIVE PROJECT

At the end of learning you will work on a live project where learners are taken through a real life project This is an experience where learners perform tasks, collaborate with teams and are guided by professionals at each stage

CAREER SUPPORT

As part of the course, learners are offered career guidance to help them find their footing and eventually flourish in BIM field.

- Job application training through mock interviews and mock tests.
- Inviting BIM companies to the platform to facilitate placements.



IMAGES OF PROJECTS USED BY BIM



~MUSEUM OF FUTURE



~ALTO TOWER



~Silver Oak Winery



~SHANGHAI DISNEYLAND



~SHANGHAI TOWER

SOME WORDS OF BIM PROFESSIONALS ABOUT THEIR CAREER ACHIEVEMENTS



I was working as a Site Engineer after my graduation. Later I came to know about Building Information Modelling(BIM) and joined the course. After the course completion, It was very easy to find the job as BIM engineer and received good offers from several companies with a good package. And I selected one of the best company and started the career. Now i feel it is very safe and secure and as well as I gained lot of knowledge.

~ JOPAUL JOLLY
BIM MANAGER
DWP INTERICS PRIVATE LIMITED



I was working as a civil engineer for a few years when I decided to take a bim course. The course was very helpful and I was able to apply what I learned in my job. My life changed after taking the course because I was able to get a job as a bim engineer. This job is secure to serve me a better career in future.

~ DEEPU DINESH
SENIOR BIM MANAGER
SIM LEISURE CONTRACTING LLC



I never expected that my career in design would take me to such amazing places. I started out as a bim modeler, and soon found myself working on some of the most high-profile projects in the world. I never would have thought that I'd be able to work on anything like that. Building Information Modelling is one of the best option to pursue the career in construction industry.

~ MUHAMMED SIYAAD
SENIOR BIM MANAGER
Gulftech Design Consultancy

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