



I am a BIM Manager with 20+ years total experience servicing as an BIM Design Lead, BIM Content Builder, BIM Coordinator, BIM Teacher, experienced in both 2D and 3D production. I bring experience guiding clients from kick off planning, all the way through SDC and VDC, and visualization with High End renderings and VR.

Background is Architecture, but I have built-designed content for every discipline.

I also have 20+ years of Graphic Design, Digital Media and Publication experience.

Personal Blog: http://bimtheworld.wix.com/hydroglyphic

https://servicesmarketplace.autodesk.com/provider/public/charles-berteaux-iv









Class Summary

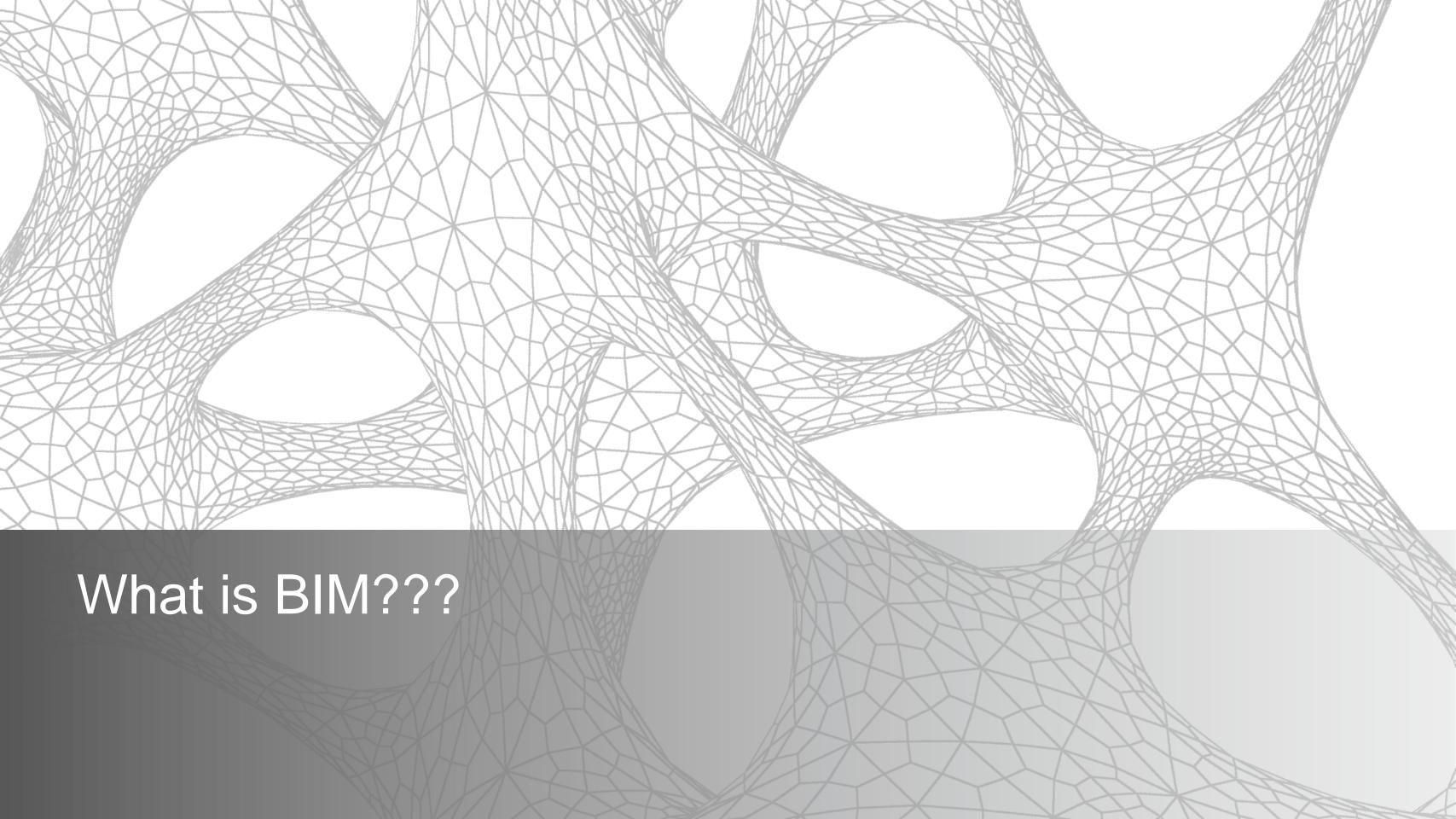
Whether you are looking for a BIM Manager or want a job as a BIM Manager, but you have no idea where to start - This class is for you. Without a doubt, BIM management requires an extremely diverse set of management skills and toolsets. This roll is often called upon to provide tips, tricks, technologies, tools, and strategies to better manage the company's BIM environment. A BIM Manager needs to have the ability to tackle problem identification, problem solving, user motivation, senior management support, budgeting, training program justification, objection handling and more. I hope that this class will give you a few insights and resources to help you hire the BIM Manager you need or give you the resources to be the best BIM Manager possible.

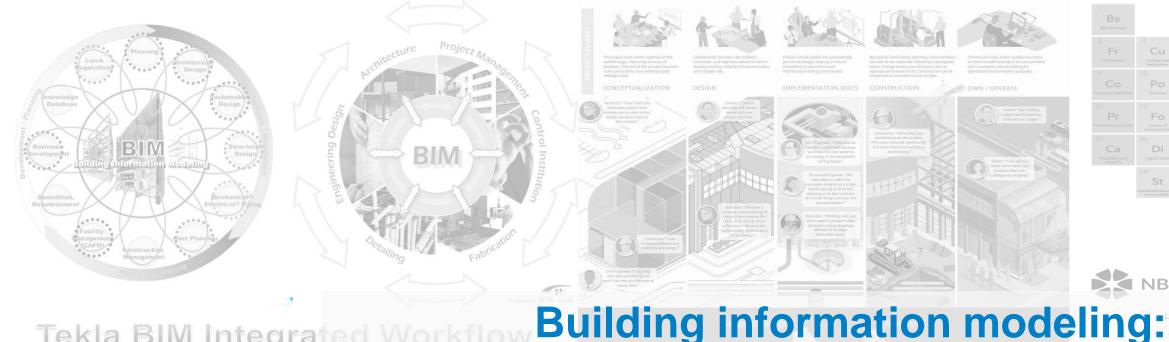
- What is BIM???
- 10 Key Terms
- Roles and Responsibilities
- Salaries
- Integrating with Management & Non-BIM
- Standards and Templates
- Training
- Tools for the Trade
- 8 Steps To Successfully Marketing BIM

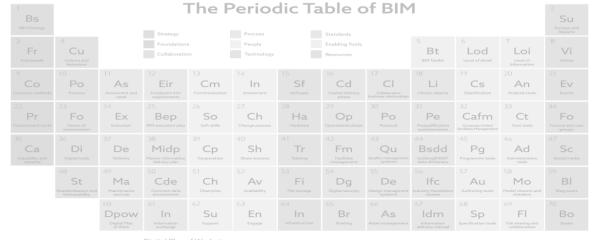
Key Learning Objectives

By the end, you will have a better understanding of all the above.











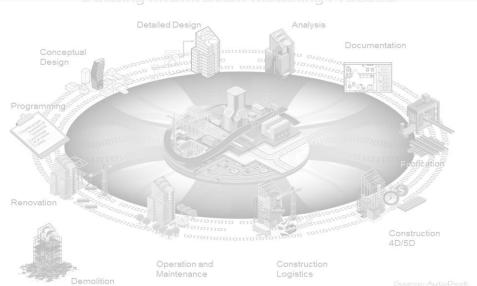
Tekla BIM Integrated Workflow

Building information modeling (BIM) is a process involving the generation and management of digital representations of physical and functional characteristics of places. Building information models (BIMs) are files (often but not always in proprietary formats and containing proprietary data) which can

be exchanged or networked to support decision-making about

a physical place.

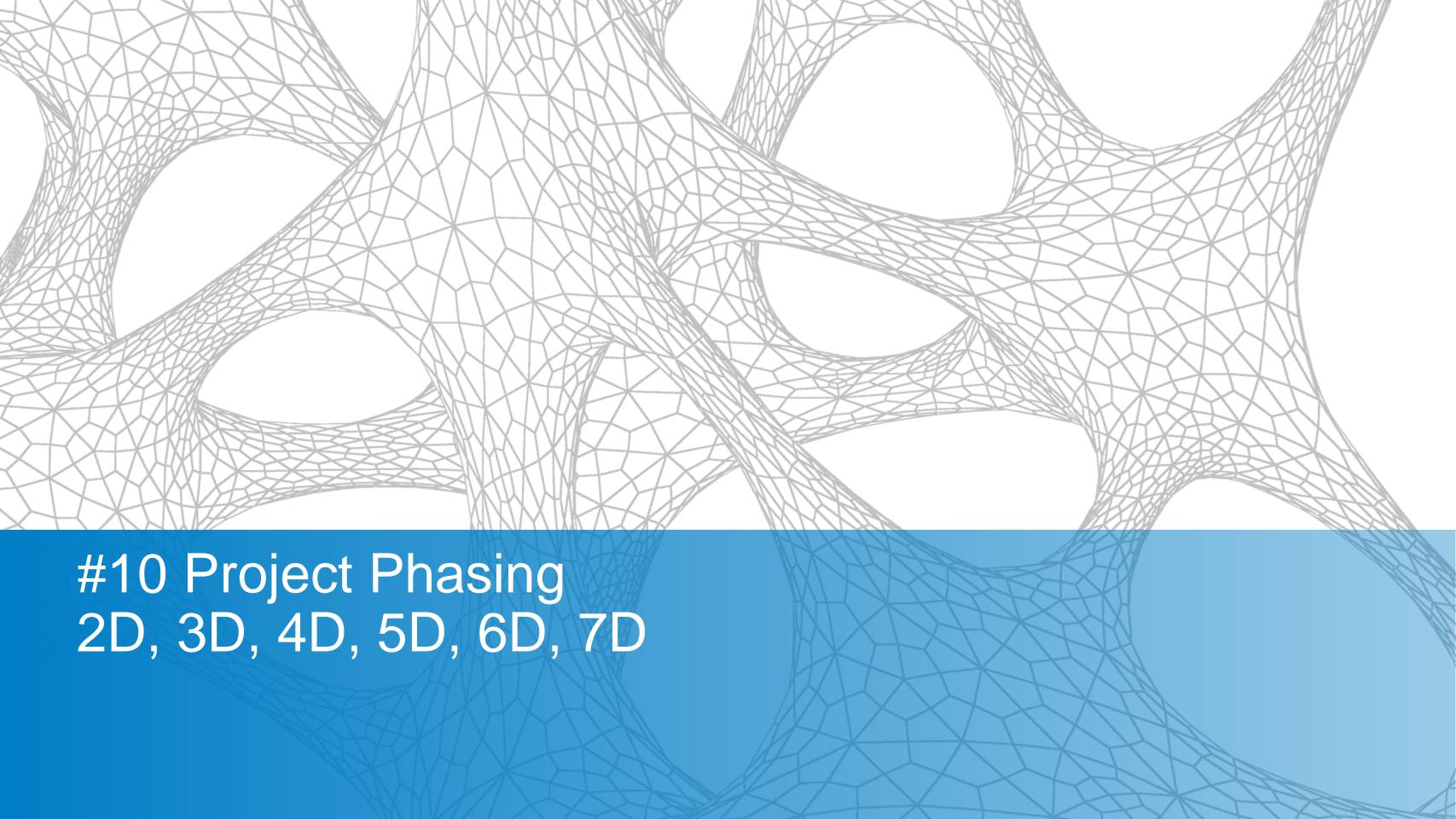












FACILITY MANAGEMENT

⊠ BIM Life Cycle Strategies

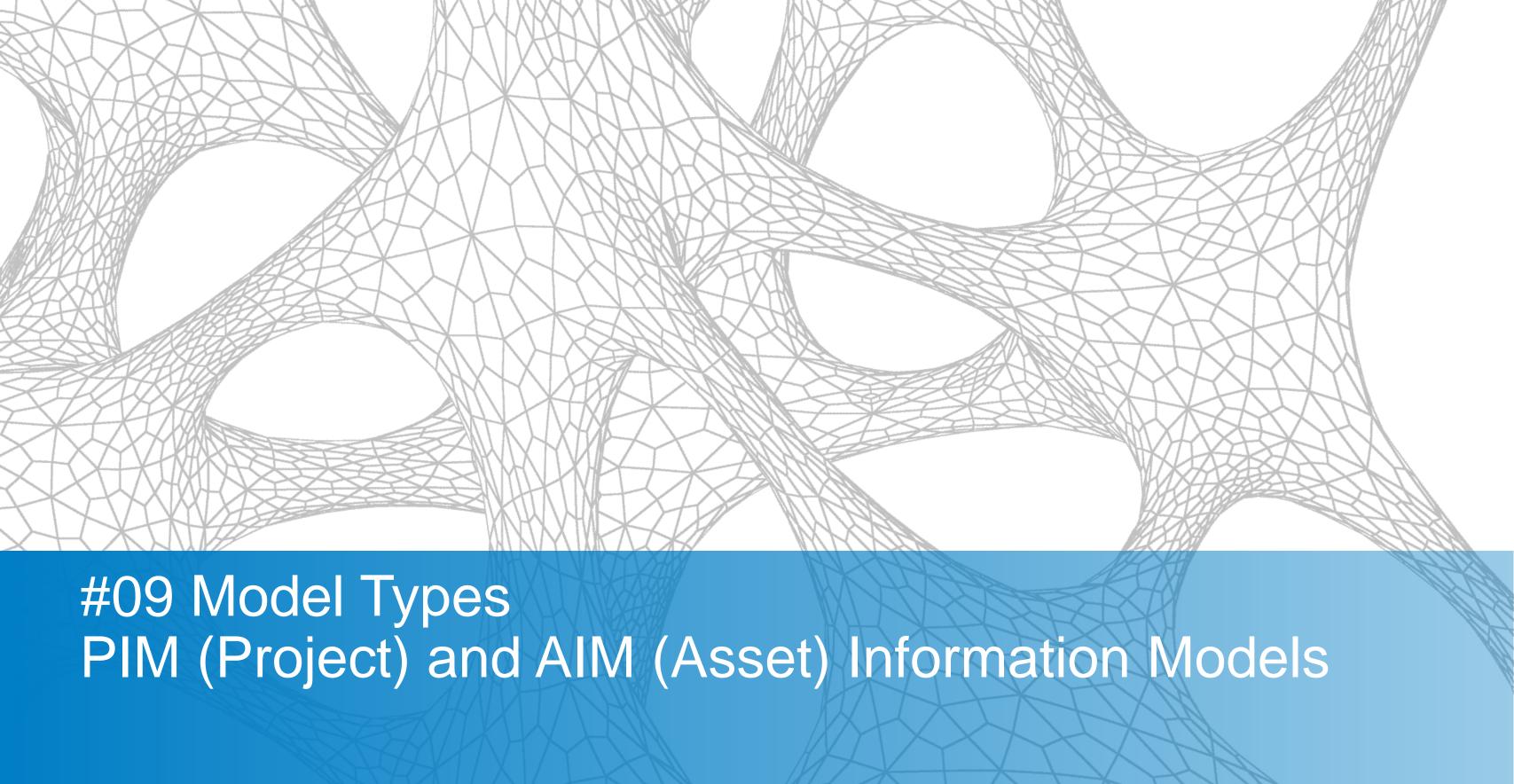
図BIM As-Builts

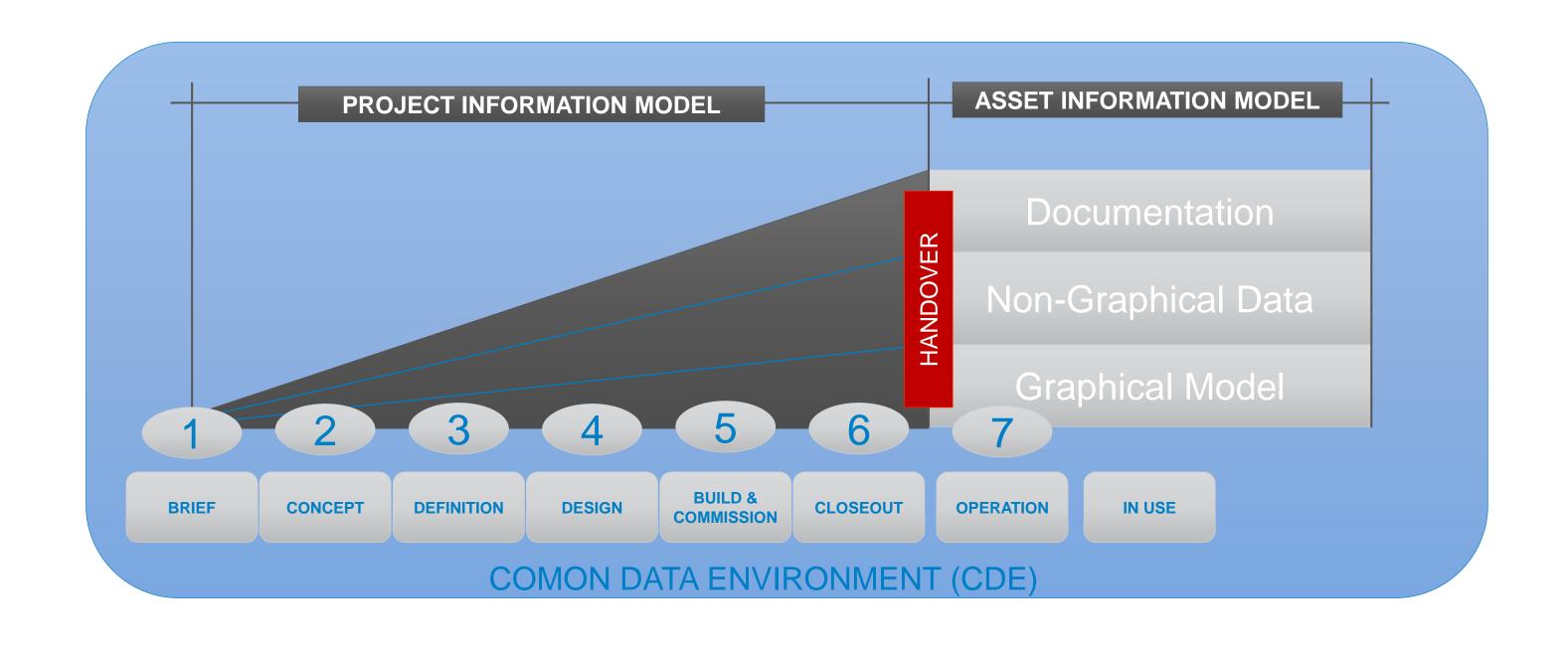
⊠BIM O&M Manuals

⊠ BIM Maintenance Plans

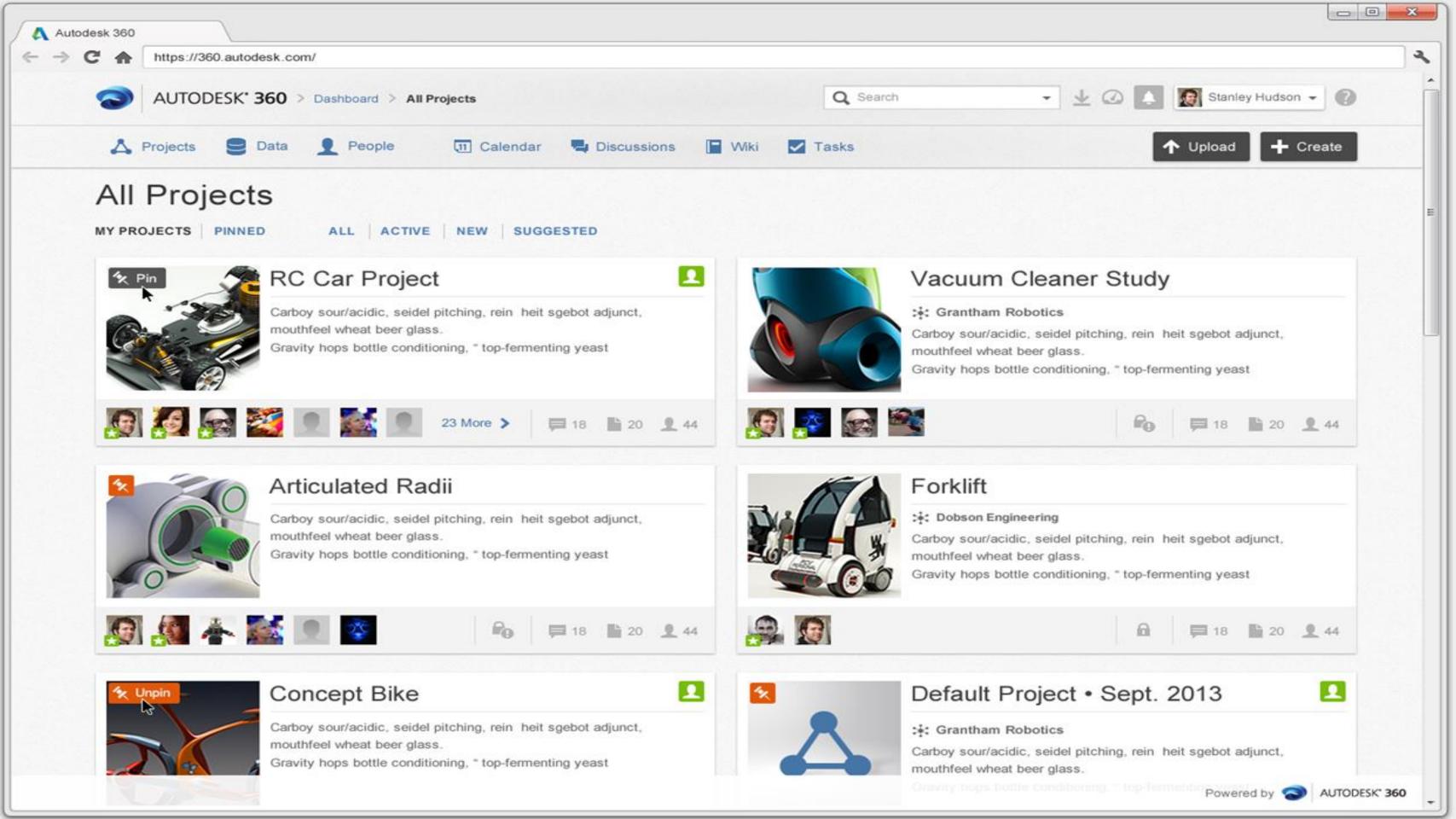
⊠ Smart BIM Facilites







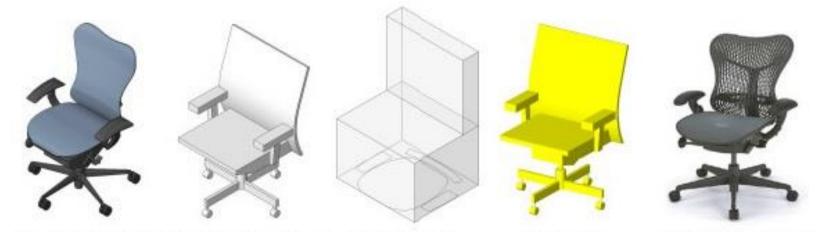


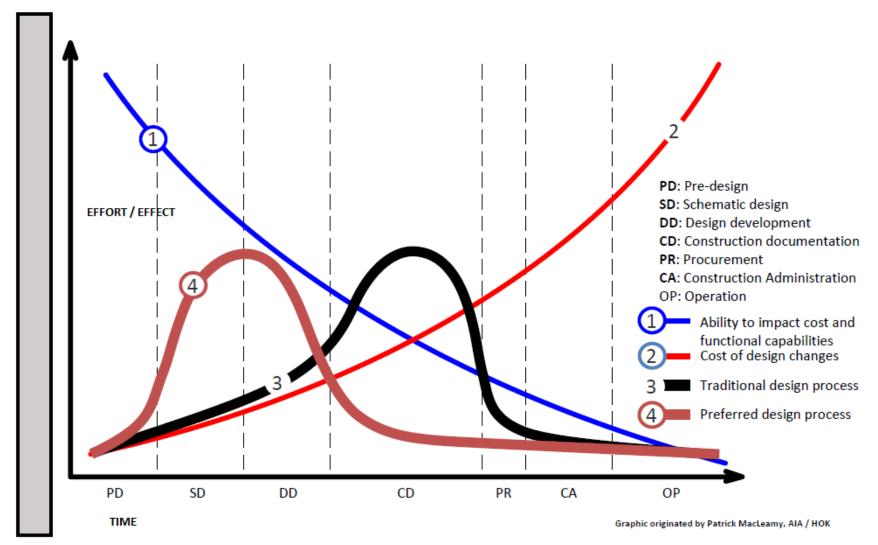




LEVEL of DEVELOPMENT

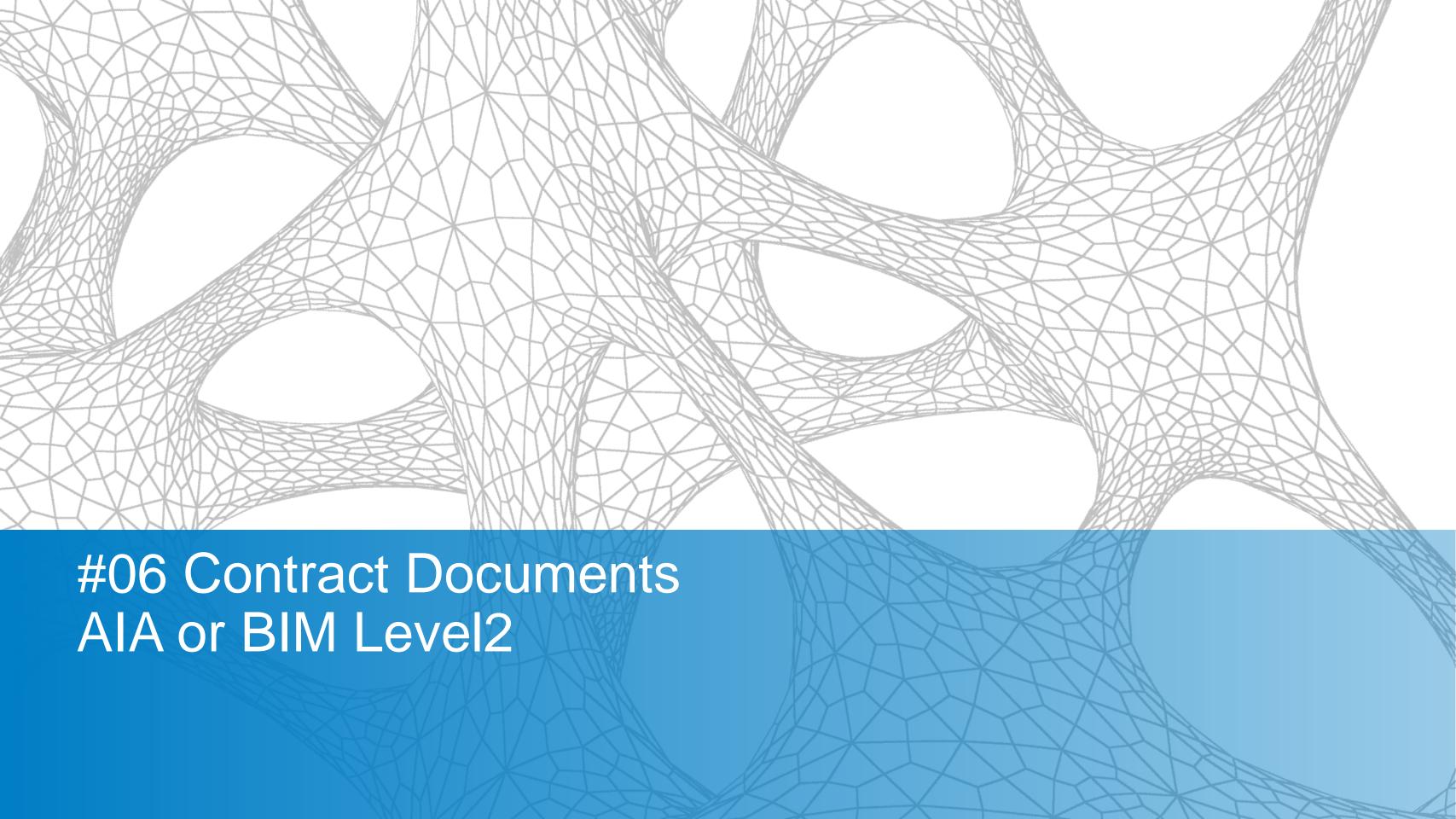
LOD 100 LOD 200 LOD 300 LOD 400 LOD 500





- More Information is required UPFRONT
- We live in a world comprised of 3D objects
- Goal of BIM should be to Model everything accurate within tolerances

| | SD | | DD | | CD | | | | |
|--|-----|------|-------|-----|------|-------|-----|------|-------|
| Date | | Date | | | Date | Date | | Date | |
| Relevant Attribute Tables | LOD | MEA | Notes | LOD | MEA | Notes | LOD | MEA | Notes |
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| A, B - Str. Concrete | | | | | | | | | |
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The American Institute of Architects

E203-2013 – Building Information Modeling and Digital Data Exhibit

Purpose: To encourage the useful sharing of Digital Data by providing the project participants a way to establish the framework and expectations regarding the creation, sharing, and use of Digital Data on the project.

G201-2013 – Project Digital Data Protocol Form

Purpose: To allow the project participants to document the Digital Data protocols for the project, exclusive of specific Modeling requirements.

G202-2013 – Project Building Information Modeling Protocol Form

Purpose: To record the parties intentions regarding the use of Modeling on the project, the anticipated uses of the model and other basic assumptions about the roles and responsibilities of all parties.

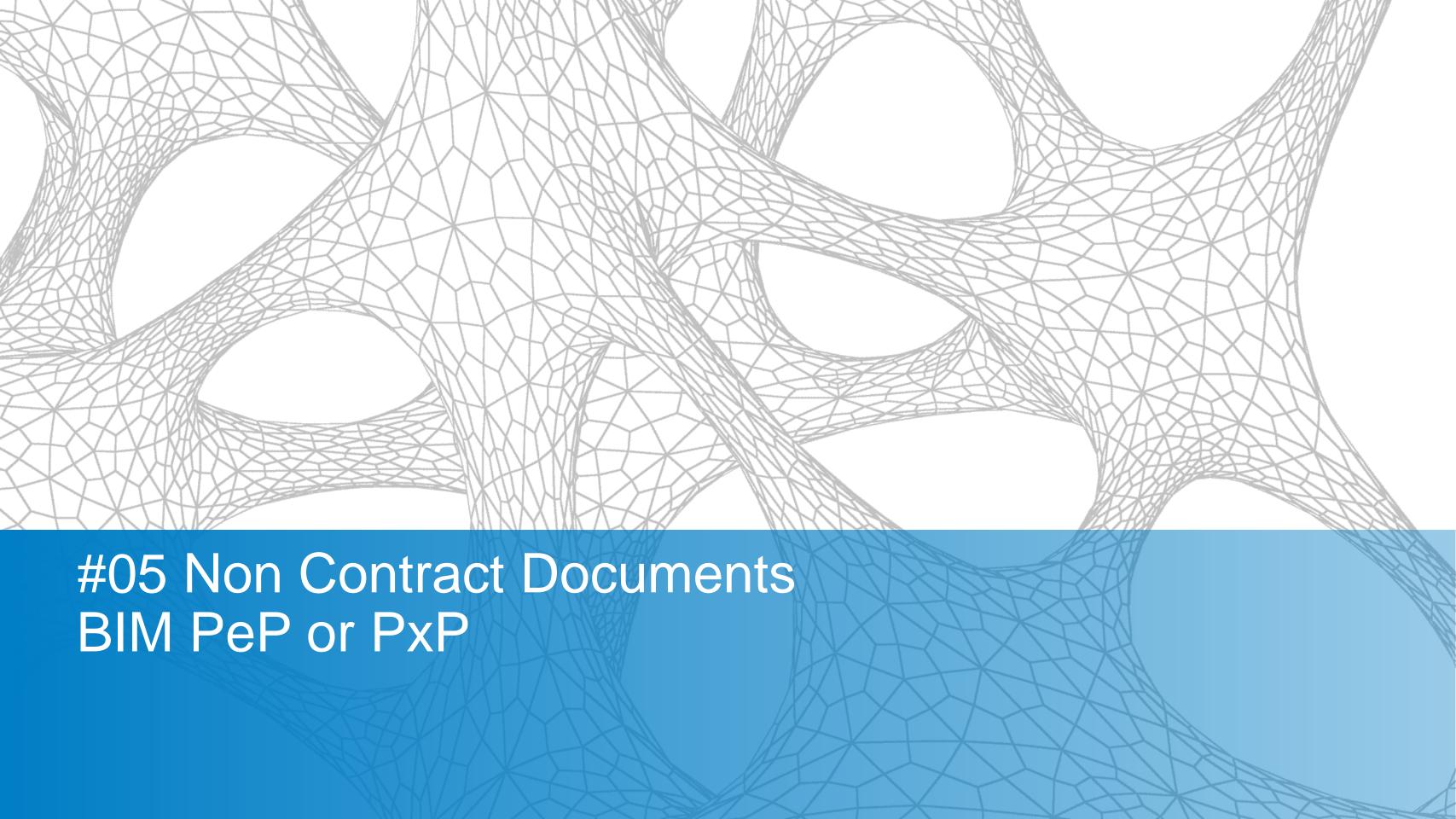
http://bim-level2.org/

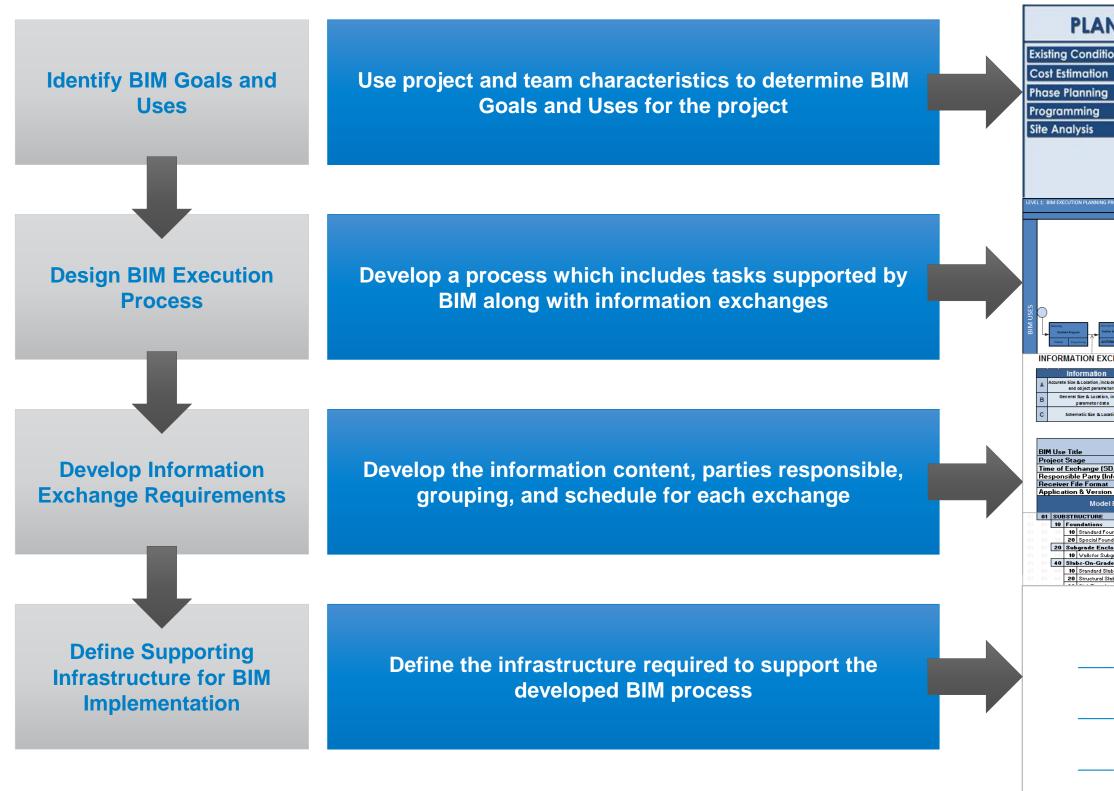
The UK Construction Industry Council (CIC) developed the documents that can be used to enable the model to be a contractual deliverable – the CIC BIM Protocol. This is due to be updated this year.

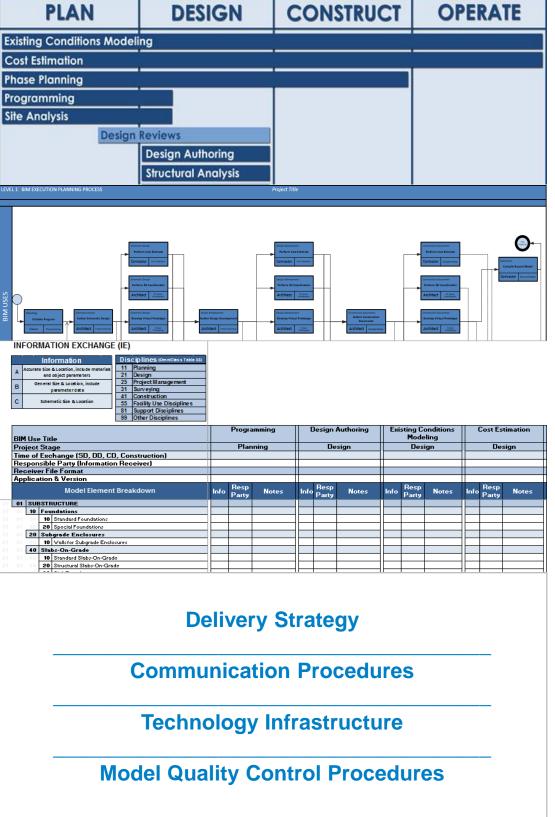
- CIC BIM Protocol
- BIM protocol appendix 1
- BIM protocol appendix 2

Supplementary guidance can be found on the BIM Level 2 website including:

- Introduction to commercial documents
- Outline Scope of Services for the role of Information Management
- Best Practice Guide for Professional Indemnity Insurance when using BIM









A project delivery method that integrates people, systems, business structures and practices into a process that collaboratively harnesses the talents and insights of all participants to optimize project results, increase value to the owner, reduce waste, and maximize efficiency through all phases of design, fabrication, and construction. IPD represents a return to the "Master Builder" concept where the entire building team including the owner, architect, general contractor, building engineers, fabricators, and subcontractors work collaboratively throughout the life cycle of the building.

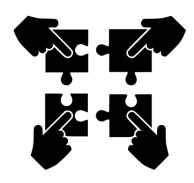
8 Keys to IPD:



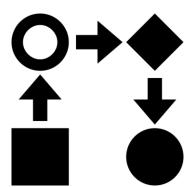
Involve all team members in design meetings including trades and contractors



Institute Building Information Modeling



Facilitate Collaboration



Setup contract mechanisms that enable open collaboration



Minimize paper based processes and collaborate digitally



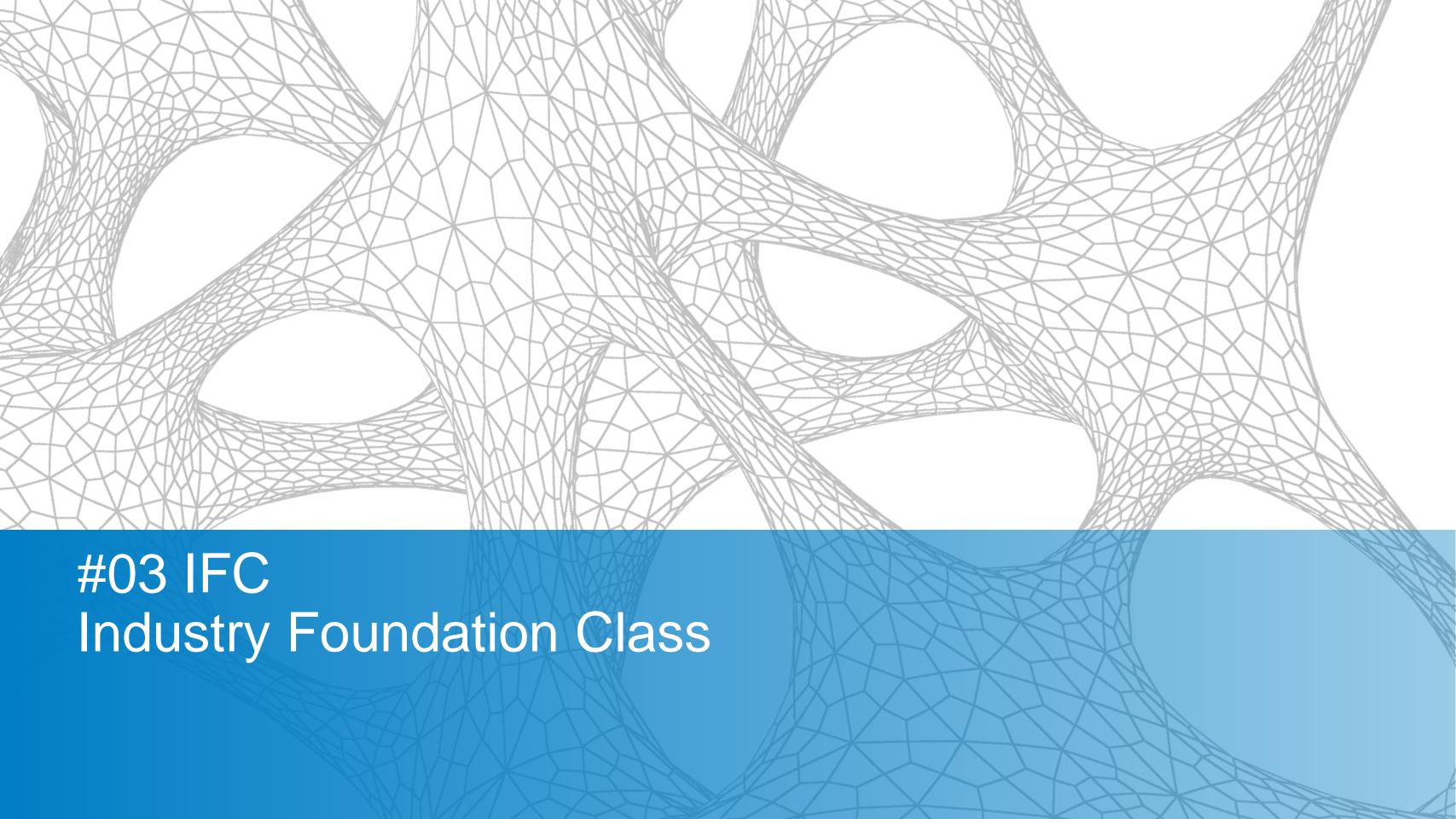
Check for and manage interferences between trades digitally



Create a culture of trust and sharing



Communicate
design ideas
using 3D
visualization to
keep everyone
aligned



WHAT???

Industry Foundation Classes (IFC) is a neutral and open specification that is not controlled by a single vendor or group of vendors. It is an object-based file format with a data model developed by buildingSMART to facilitate interoperability in the building industry OR is a neutral and open specification, object-based file format with a data model developed by building SMART to facilitate interoperability in the architecture, engineering and construction (AEC) industry

WHO??

The IFC initiative began in 1994, when Autodesk formed an industry consortium to advise the company on the development of a set of C++ classes that could support integrated application development. Twelve US companies joined the consortium. These companies included AT&T, HOK Architects, Honeywell, Carrier, Tishman and Butler Manufacturing. Initially named the Industry Alliance for Interoperability, the Alliance opened membership to all interested parties in September, 1995 and changed its name in 1997 to the International Alliance for Interoperability. The new Alliance was reconstituted as a non-profit industry-led organization, with the goal of publishing the Industry Foundation Class (IFC) as a neutral AEC product model responding to the AEC building lifecycle. A further name change occurred in 2005, and the IFC specification is

now developed and maintained by:



ifcRoot

ifcObject

Objects are the generalization of any thing (or item)

ifcProperty

Properties are the generalization of all characteristics (either type or partial type i.e. property sets) that may be assigned to an object

ifcRelationship

Relationships are the generalization of the interactions between objects



BIM Applications



Structural **Applications**











Building Services









Viewers







Database







•eurostep-

Dictionary







Building Code

Fornax Objects

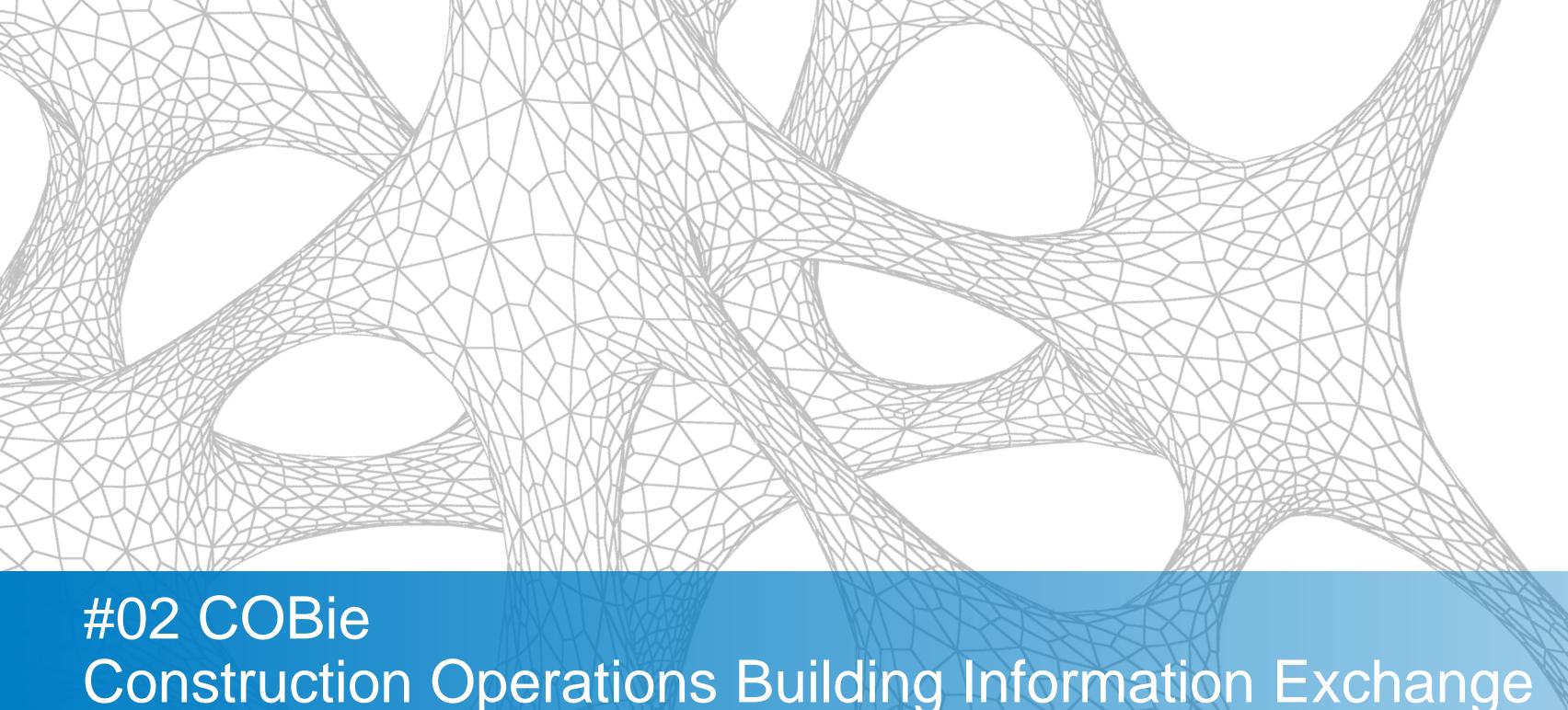












Construction Operations Building Information Exchange

COBie What?



COBie is an information exchange specification for the life-cycle capture and delivery of information needed by facility managers. COBie can be viewed in design, construction, and maintenance software as well as in simple spreadsheets. This versatility allows COBie to be used all projects regardless of size and technological sophistication

| Name • | CreatedBy | CreatedOn | Category ◆ | ExtSystem | ExtObject |
|-------------------------------------|--|---------------------|---------------|-----------|-----------|
| Basic Electricity Course | parts@ps.com | 2010-02-13T12:09:09 | Training | n/a | n/a |
| Boiler Certification Course | parts@ps.com | 2010-02-13T12:09:09 | Training | n/a | n/a |
| Cad Call Relay Switch Flame Sensors | parts@hongbo.com | 2010-02-13T12:09:09 | Material | n/a | n/a |
| Door Hinge Lubricant | customercare@lowes.com | 2010-02-13T12:09:09 | Material | n/a | n/a |
| Halide Leak Detector Kit | sales@grainger.com | 2010-02-13T12:09:09 | Tools | n/a | n/a |
| Ladder | mariangelica.carrasquillo@usace.army.mil | 2010-02-05T12:09:09 | Tools | n/a | n/a |
| Limit Switch | parts@hongbo.com | 2010-02-13T12:09:09 | Material | n/a | n/a |
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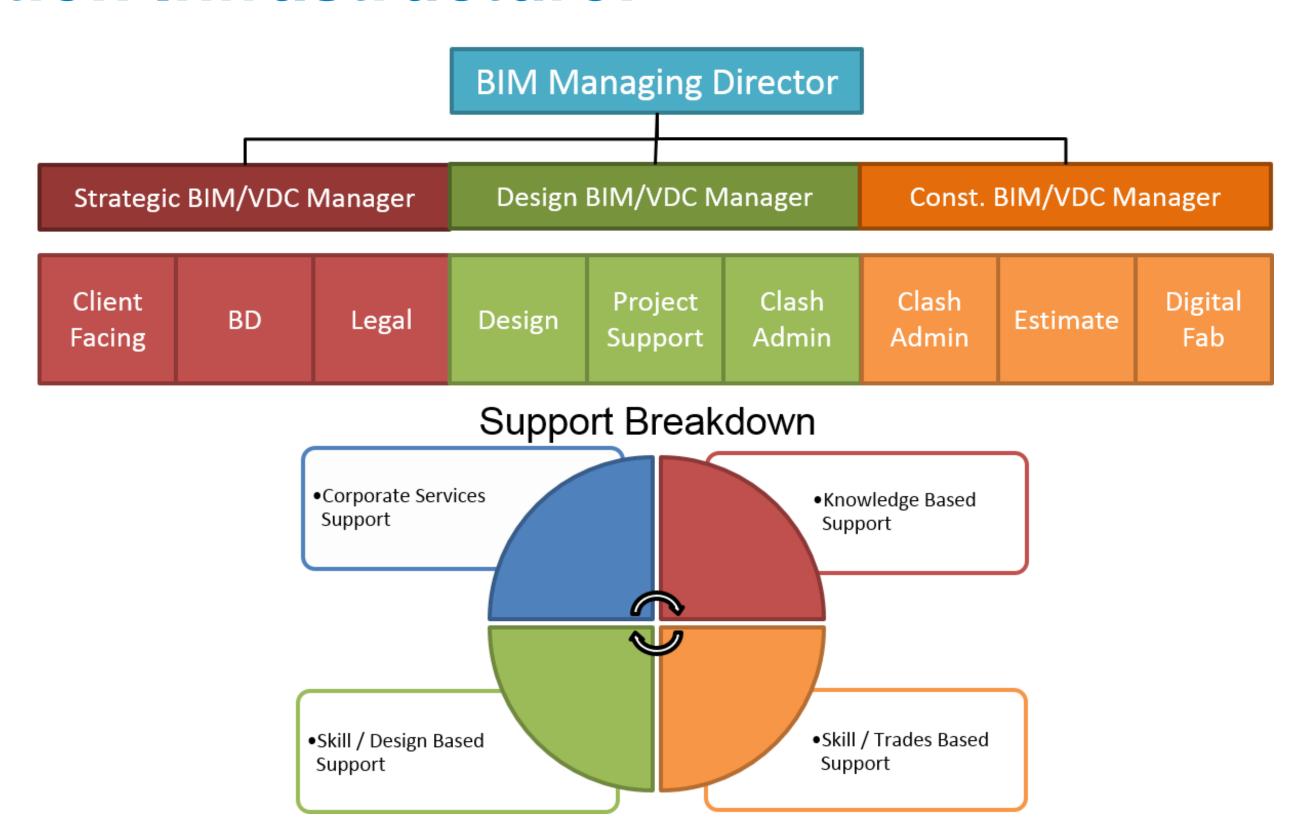
The COBie specification identifies the content of the information that must be captured and exchanged at each phase of the project to begin to reduce the waste associated with the current paper process. The designer is required to provide the space layout, system list, types of equipment, and the location of named equipment. The builder adds equipment make, model and serial number and provides manufacturer literature, warranty and replacement parts information. The commissioning agent provides the job plan data with associated tools, training and equipment requirements







Position Infrastructure:



Strategic BIM Manager

Client Facing In our business, client facing staff, such as senior managers and business developers, spend a great deal of effort establishing and fostering relationships with new / existing clients. They need to stay on top of new trends within the industry and understand BIM in order to speak the language, share your future vision and make achievable promises.



Strategic BIM Manager

BD

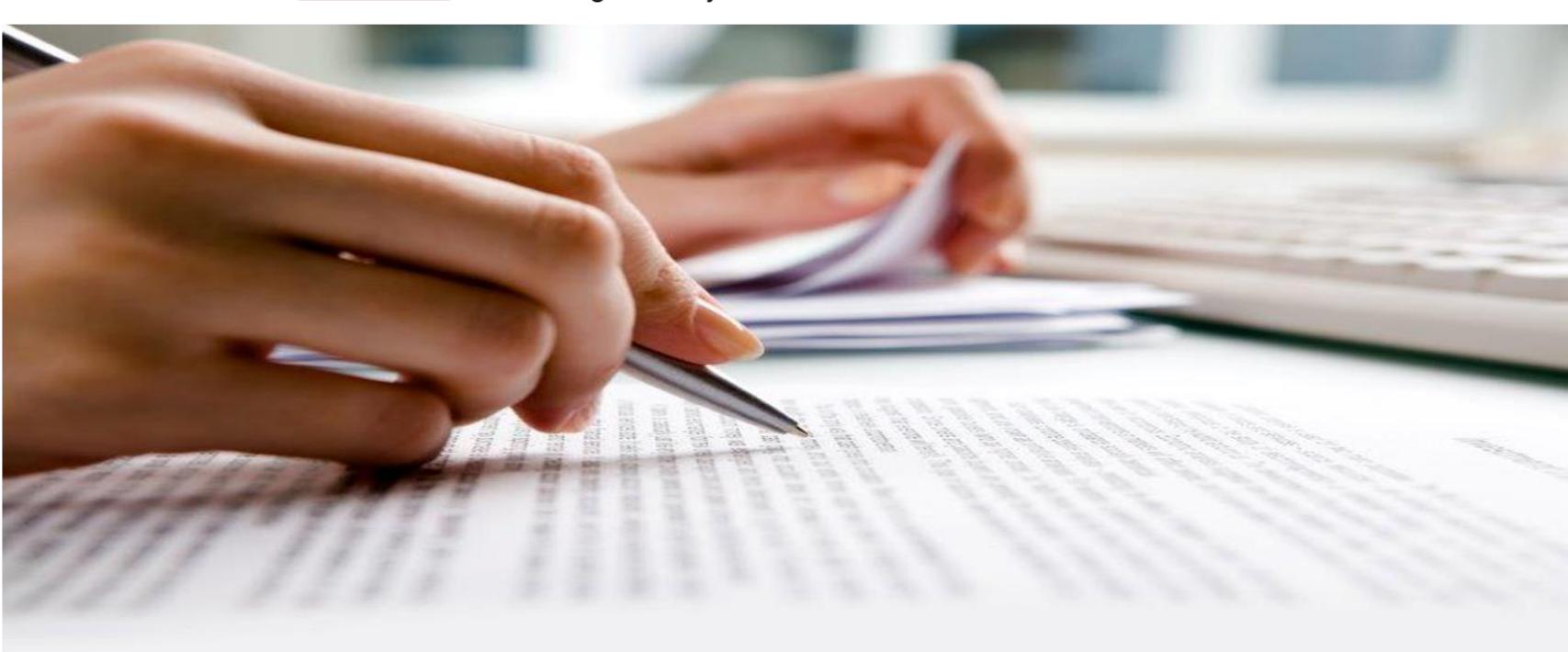
Business development is the creation of long-term BIM values for an organization from customers, markets, and relationships. At its heart, BIM business development is all about figuring out how the interactions of those forces combine together to create opportunities for growth.



Strategic BIM Manager

Legal

In writing your BIM scope and documents, there are several legal considerations. You should guide your legal team to update contracts and create content that deals with BIM scope, otherwise you are not protected. This includes roles & responsibilities, BIM process & collaboration management, data-release-forms and proprietary data protection. Finally defining BIM on a project and aligning expectations with client and team all the way to the finest details such as model detail granularity.



Design BIM Manager

Design

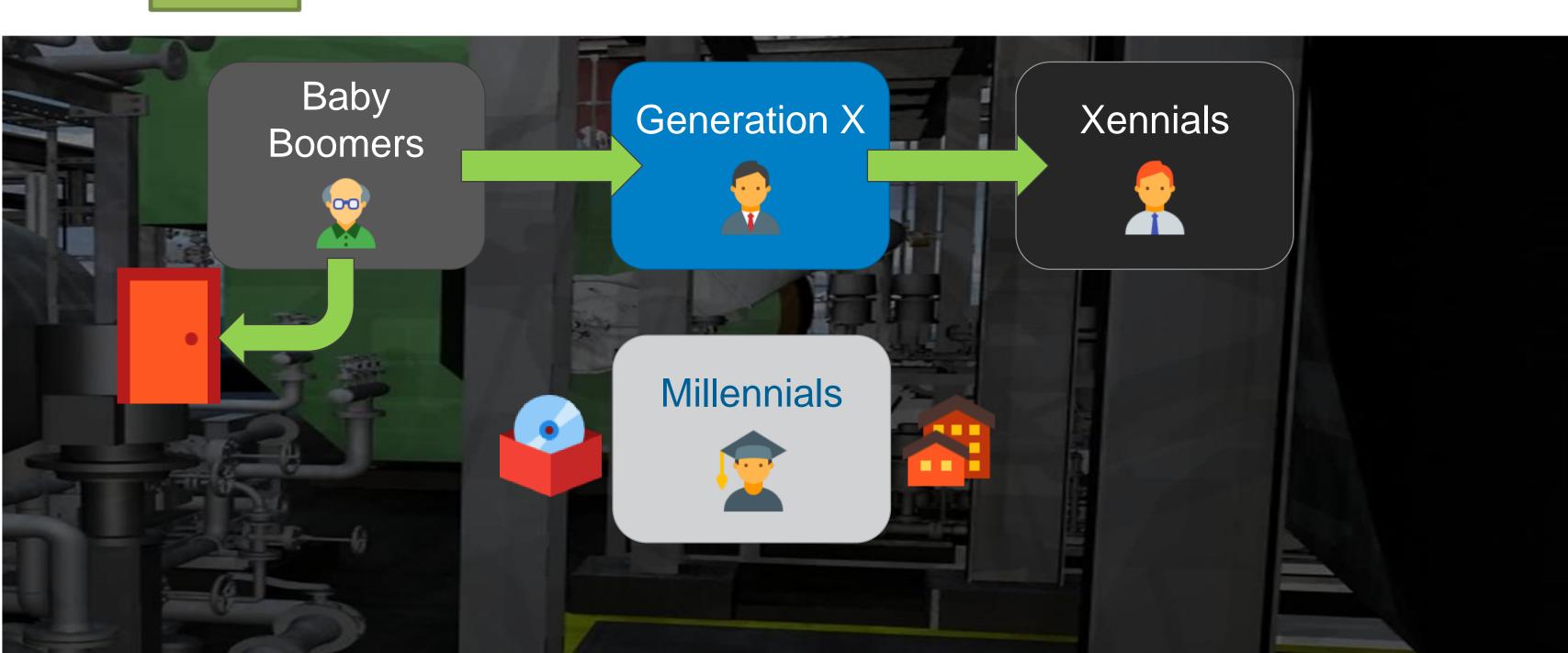
Employees, want to know what their expectations are and their involvement on projects. In addition if you want them accountable, you must give them the proper tools and define their specific roles to achieve success. The sum of the parts = the whole.



Design BIM Manager

Project Support Due to technology advancement, the largest gap is the lack of understanding design and construction.

BIM today forces us to engage project production staff with a solid understanding of how a building is supposed to come together. This changes the roles, responsibilities and placement of such staff on your projects, as well as the mentoring approach from senior to junior staff.



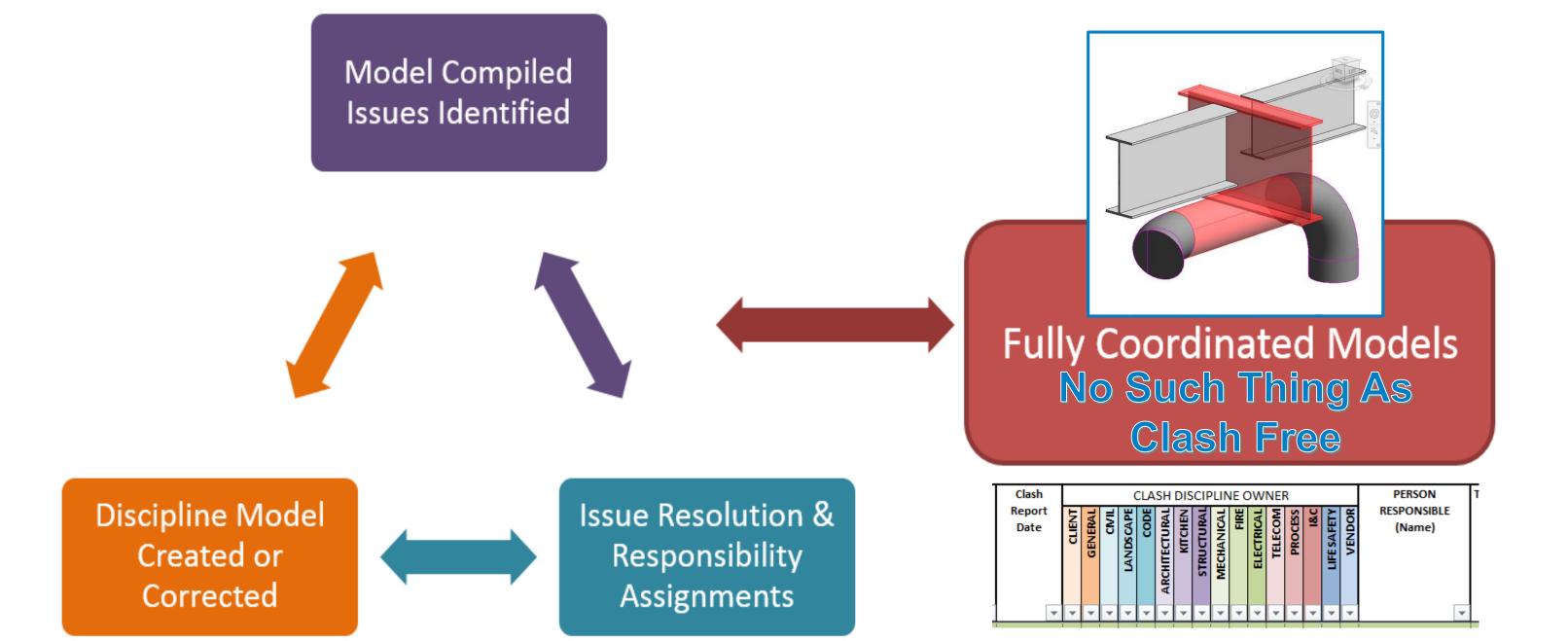
Design BIM Manager

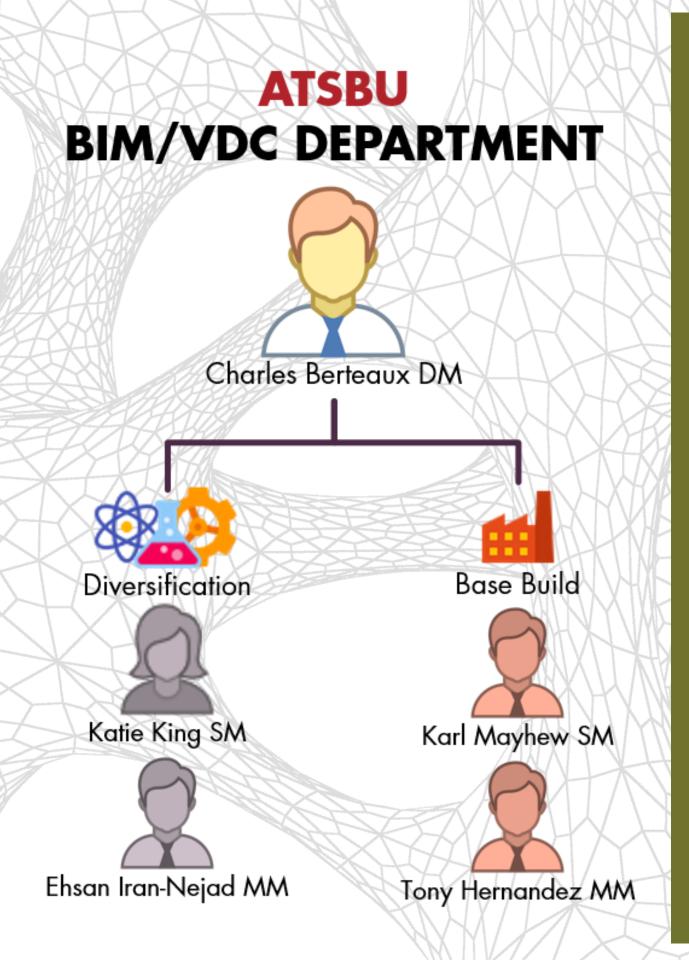
Project Support

| | on | BIM Position | Key Tasks |
|--|---------------------------------------|-------------------------------------|---|
| | BIM Design Communication | Design BIM/VDC Manager | Corporate and Strategic Goals / PM Project Alignment Corporate PeP Implementation Corporate Standards Methodologies and Strategies Liaison with client BIM/VDC Group Staff Mentoring and Training Weekly roundtable of BIM Job Captains and BIM Discipline Coordinators Content Development |
| | | BIM Job Captain | Daily Model Management Complete Drawing Set Ownership and Delivery BIM Content Development if capable Liaison with Design BIM Manager BIM Collaboration / Coordination / Trouble-shooting May help to preform Clash Detection |
| | BIM Project Support and Production | BIM Discipline Coordinator Champion | Modeling one discipline - Head of a Specific Discipline Drawing Set Ownership BIM Content Development if capable Liaison with BIM Job Captain BIM Collaboration / Coordination May help to preform Clash Detection |
| | | BIM Technician | Modeling one discipline Potential BIM Coordination Liaison with Design BIM Coordinator |
| | | BIM Clash Administrator | Liaison with Design BIM Manager/Job Captain/Construction Clash Coordinator Clash Detection Setup and Managing Clash Meetings with AR Log Weekly Clash Reporting Metrics |

Design BIM Manager

Clash Admin It is important that this person have an in-depth knowledge of many different disciplines, and how they interact with each other from a DESIGN point of view. This person also needs an in-depth knowledge of Navisworks Manage, Clashing, Creating Rules, Organizing and Disposition of Clashes, and getting the Clashes resolved.

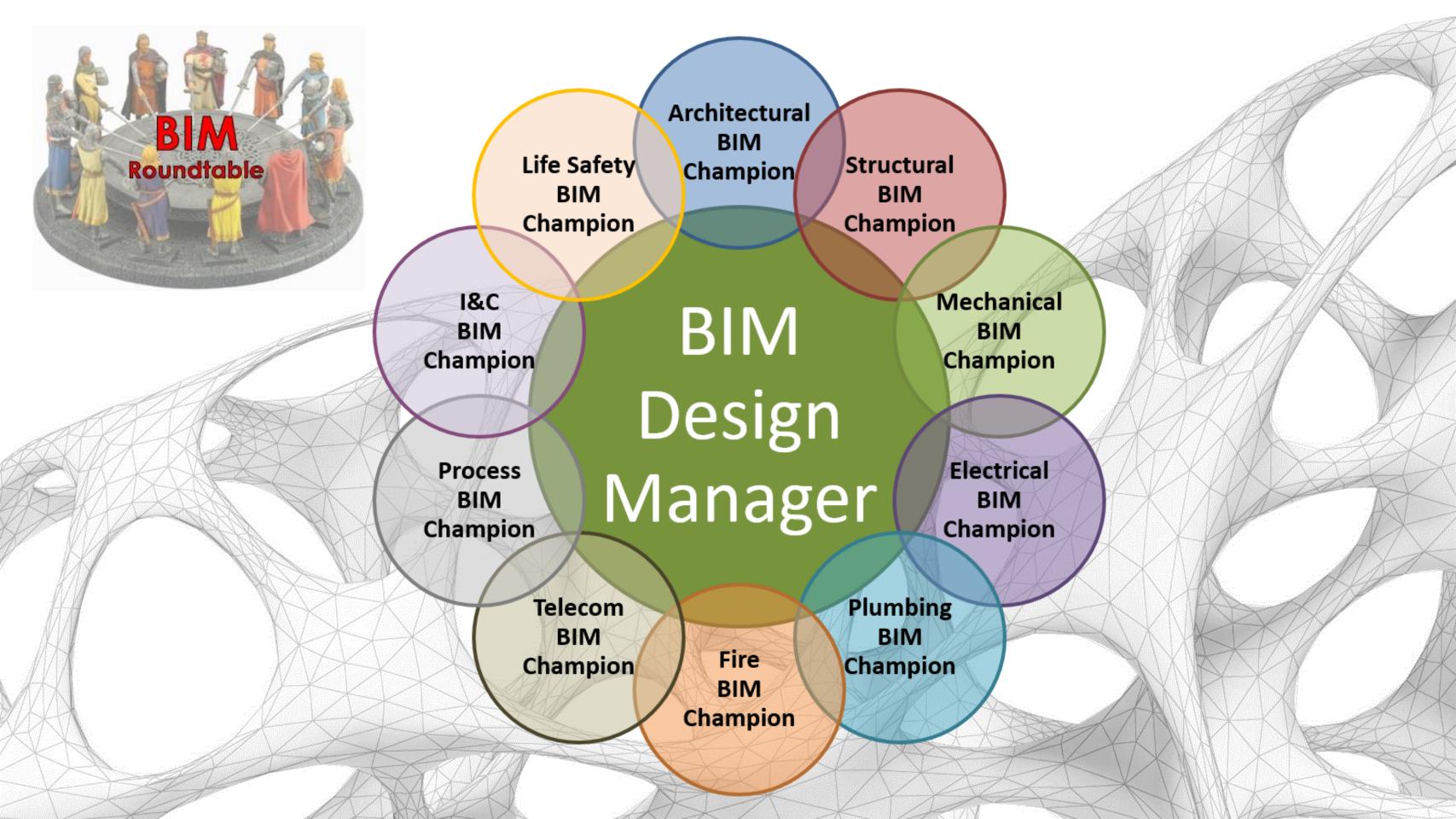




DUTIES AND RESPONSIBILITIES

- Leads, facilitates, and integrates the design and/or construction modeling efforts on projects in collaboration with the Project Director and/or Manager, project design coordinator, discipline design leads, and/or Construction Manager. Specific responsibilities include:
- Assist Department Mgmt. with assessing project team skills and development needs, and recommendations for training.
- Provide input to the project manager for project budget and develop the project technology team project work plan (DWP) in association thereto.
- Develop Project Execution Plans, including Model Authorship and LOD specifications.
- Prepare and lead the VDC/BIM Project Execution kick-off session.
- Assist the PM with requests for proposals and specifications for Reality Capture (3D laser scanning) & other outsourced BIM/VDC services.
- Create & review development of, and deploy project-specific model content.
- Facilitate the 3D spatial coordination process and resolution of (clash/interference) issues with the project Design Coordinator.
- Processing laser scan point cloud data for use in design and construction models.
- Perform specialized modeling application e.g. 4D simulations, point layout extractions, etc.
- Lead quality review process(s) for model content and methods within project models.
- Performance of regular maintenance processes on project models.
- Support the PM and QSR with project post-mortem sessions, capture and document improvements to modeling processes and Best Known Methods (BKM's).
- Provide support to the Project Manager, VDC/BIM Coordinator, Discipline BIM champions and discipline modelers throughout project.
- Participate in the firm's design technology community of practice (CoP) as part of the core group leadership.

Design BIM/VDC Manager I&C Mechanical Electrical Plumbing Fire Structural Architect Engineer Engineer Engineer Engineer Engineer Engineer BIM BIM BIM BIM Champion Champion Champion Champion Champion Champion Champion BIM BIM BIM BIM BIM BIM BIM Technician / Designer Designer Designer Designer Designer Designer Designer BIM BIM BIM BIM BIM BIM BIM Technician / Designer Designer Designer Designer Designer Designer Designer BIM BIM BIM BIM BIM BIM BIM Technician / Designer Designer Designer Designer Designer Designer Designer BIM BIM BIM BIM BIM BIM BIM Technician / Designer Designer Designer Designer Designer Designer Designer



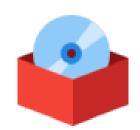


BIMMANAGER WESOLVE PROBLEMS YOU DIDNT KNOW YOU HAD IN WAYS YOU DO NOT UNDERSTAND

The Roll of BIM Manager, what is that???

- This roll in the industry is still being invented and has not exactly been laid in stone and can mean different things to different people. One thing is for certain though, BIM management requires a diverse set of management skills and toolsets. We are often called upon to provide tips, tricks, technologies, tools, and strategies to better manage our company's BIM environment. We need to have the ability to tackle problem identification, problem solving, user motivation, senior management support, budgeting, training program justification, objection handling and more. Because of all of the nuances associated with our Title and Position it is sometimes hard to quantify exactly what we do.
- Basic Duties & Essential Job Functions any good BIM Manager

Software:



- Manage software products including but not limited to incorporating new version releases and customization of the product
- Manage the implementation of supporting software for BIM
- Evaluate new BIM related software and technologies
- Stay informed on best practices for use of Revit Architecture and BIM
- Stay informed on other BIM related software and how they work with Revit
- Installation and support of related BIM software

Standards:



- Responsible for BIM standards development, implementation, and enforcement
- Creation and maintenance of the software Template files to assure standards are being followed
- Provide support for plotting and electronic file submissions
- Automate routines in BIM to support standards and productivity
- Provide quality control for completeness and adherence to company standards of all shop drawings produced
- Assist in developing and enforcing BIM documentation and workflow process standards
- Train and oversee the day-to-day activities of the Revit Specialist to ensure BIM standards are maintained in the creation of the Architectural Revit model

Management:



- Create written technology evaluations and budgets for future technology adoption that aligns with the corporate goals
- Chair the company's BIM committee (BIM Roundtable)
- Report on the company's current and projected state in regards to BIM implementation
- Create Upgrade and Deployment strategies for the BIM implementation effort
 - Assess: evaluate the firms current workflow, strategies, budgets, projects, staffing, etc.
 - Plan: create a plan for implementation. Who are the team members, what is the project, what are the goals, etc.
 - Solve: Execute the plan, install the software, get templates created, get training, do the pilot project, etc.
 - Confirm: Be able to demonstrate the company's BIM success by evaluating goals that were established in the Assess Phase

Support:



- Provide hardware and network support as it relates to BIM production
- Support the BIM technology needs of satellite offices
- Troubleshoot problems
- Liaison with national vendors
- Liaison with corporate technology support staff
- Liaison with software developer support staff and other support channels.
- Confirm: Be able to demonstrate the company's BIM success by evaluating goals that were established

Training:



- Internal Training: Provide Revit Architecture Fundamental and Intermediate training to all of your staff
- Conduct internal continuing education training sessions
- Provide technical orientation to New Hires regarding BIM tools
- Test new hires skills in BIM
- Maintain high level of competency of software through continued use and training
- Attend conferences, seminars, and workshops for BIM; bringing back learning and disseminating the information to appropriate teams

Project Interface:



- Support project standards coordination with customers
- Assist on project work modeling and detailing
- Assist project teams in BIM project setup
- Create BIM Content in response to project need
- Help resolve BIM design issues
- Manage and distribute coordinated digital documents to the project team
- Coordinate needed hardware upgrades with IT Communicate with subcontractors to receive, coordinate and update all electronic models
- Linking BIM to the project Construction Administration Phase for submittals, construction models, shop drawings and schedules

Marketing of BIM Services:



- Web, literature, interviews, presenting at relevant client focused conferences
- Future BIM/Revit Industry Initiatives and Developments
- Identify trends and business opportunities relating to BIM Evaluate and make recommendations regarding BIM software.
- Develop a Blog or other form of social media

Involvement with Industry Organizations:



- AIA Technology in Architectural Practice (TAP) Knowledge Community
- AIA Integrated Practice Knowledge Community Industry Events: AIA National Convention
- PE / MEP
- Autodesk University
- AUGI
- Local User Groups
- Local colleges and universities for future resources

Required Qualifications:



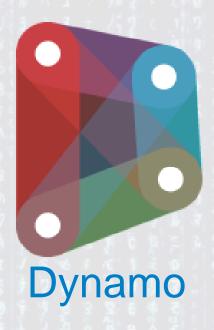
- 5+ year's production experience in design, drafting or engineering
- Associates Degree or Higher in the above
- Must have an in-depth working knowledge of current PM versices with mphasis on project setup
- Strong written and verbal communication
- Must have a processional appearance
- Ability to use the paradictively, maximize efficiency of the lenging work goals
- Ability to take on additional rections fill a seeded as well as determined a sixty age priorities with minimal guidance
- Must possess and maintain exceptional work ethic as well and of conduct from self and others
- Must have basic PC experience in Windows environments, working knowledge of word processing, spreadsheets, e-mail, Web-enabled applications, and database software
- Must be a self-starter and possess the drive to pursue continued education on BIM
- Must possess the ability to work well as part of a team and independently

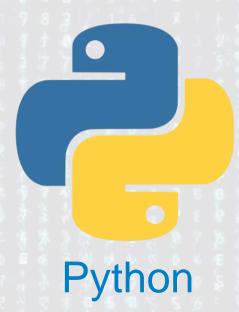
Coding:

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- The hottest skill set needed in todays market
- ADSK API

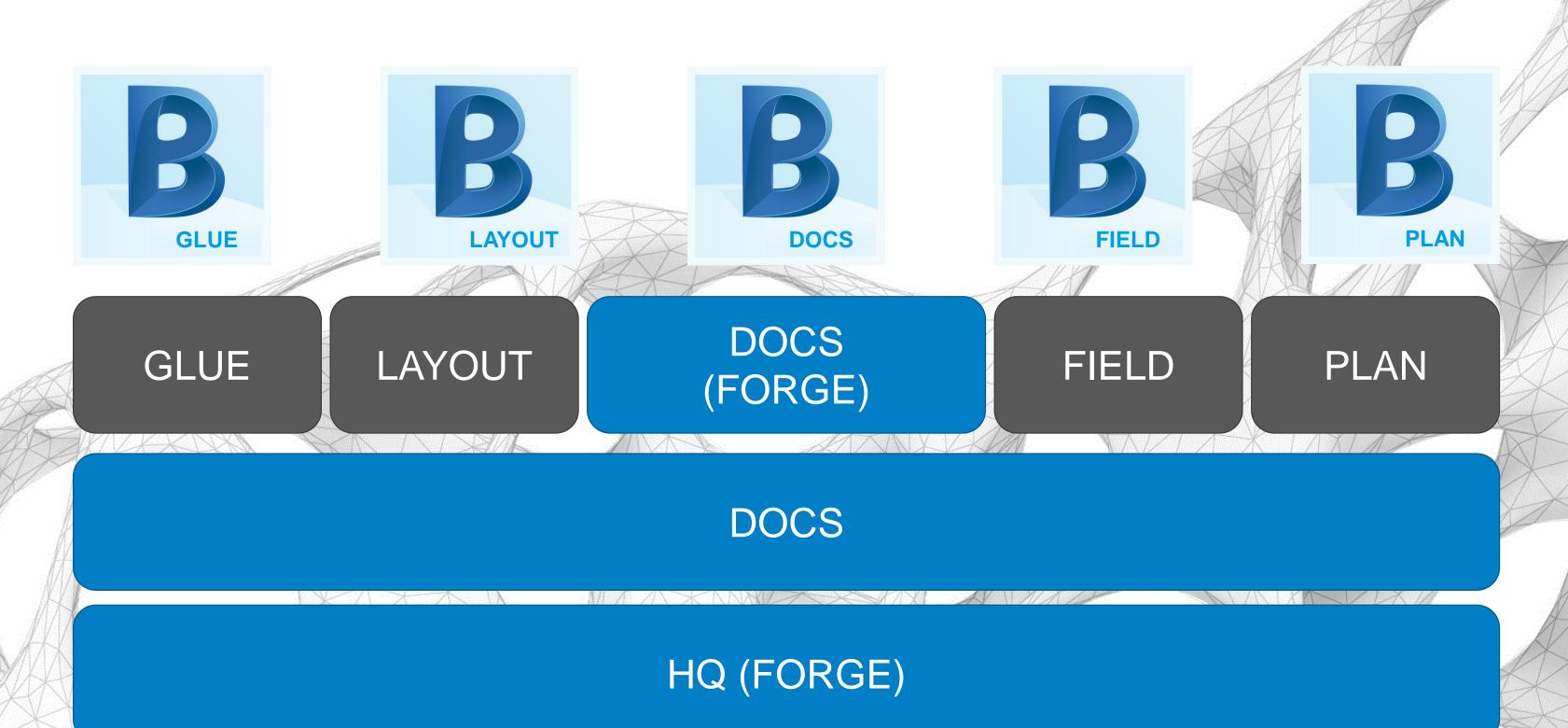




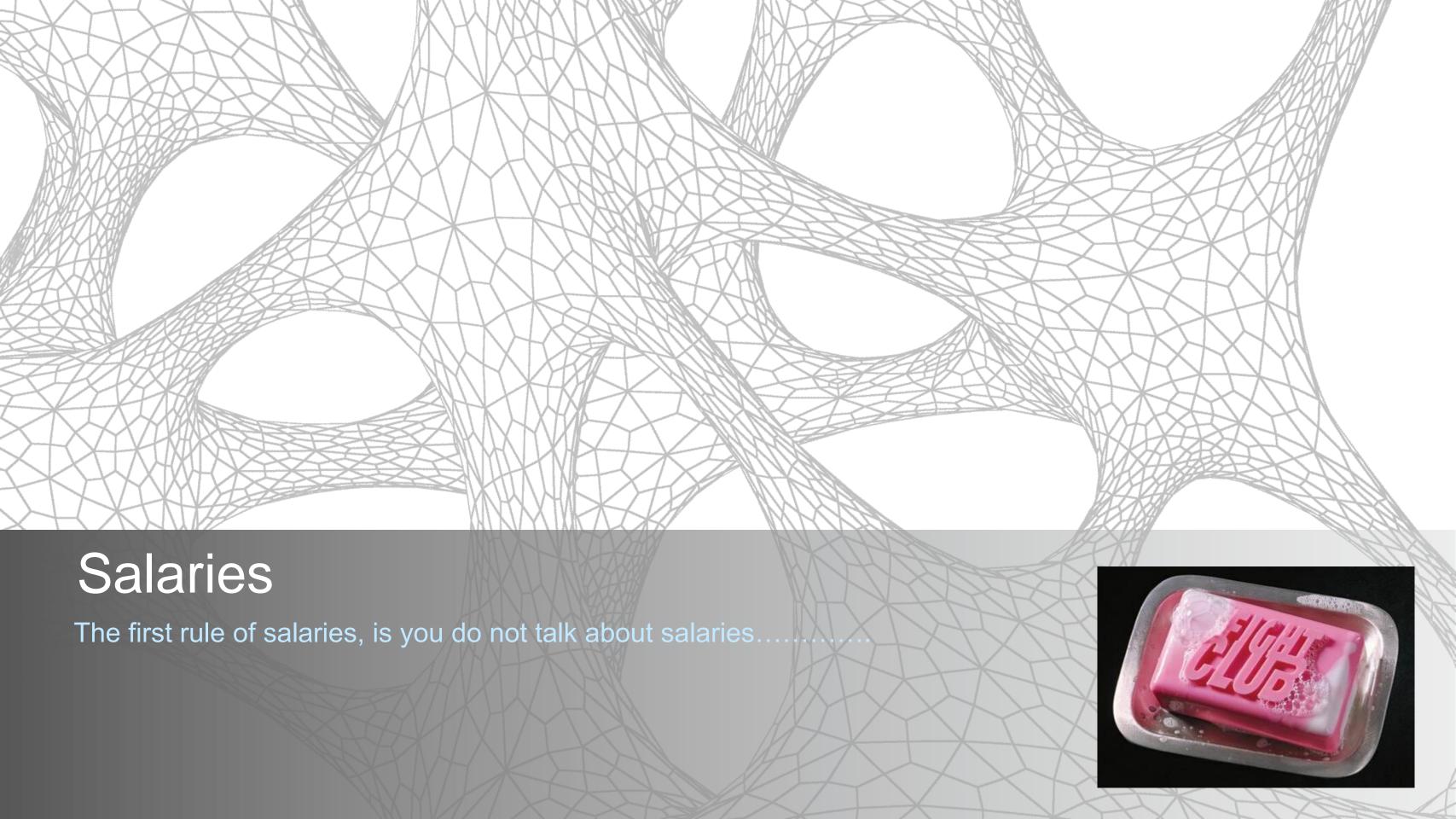


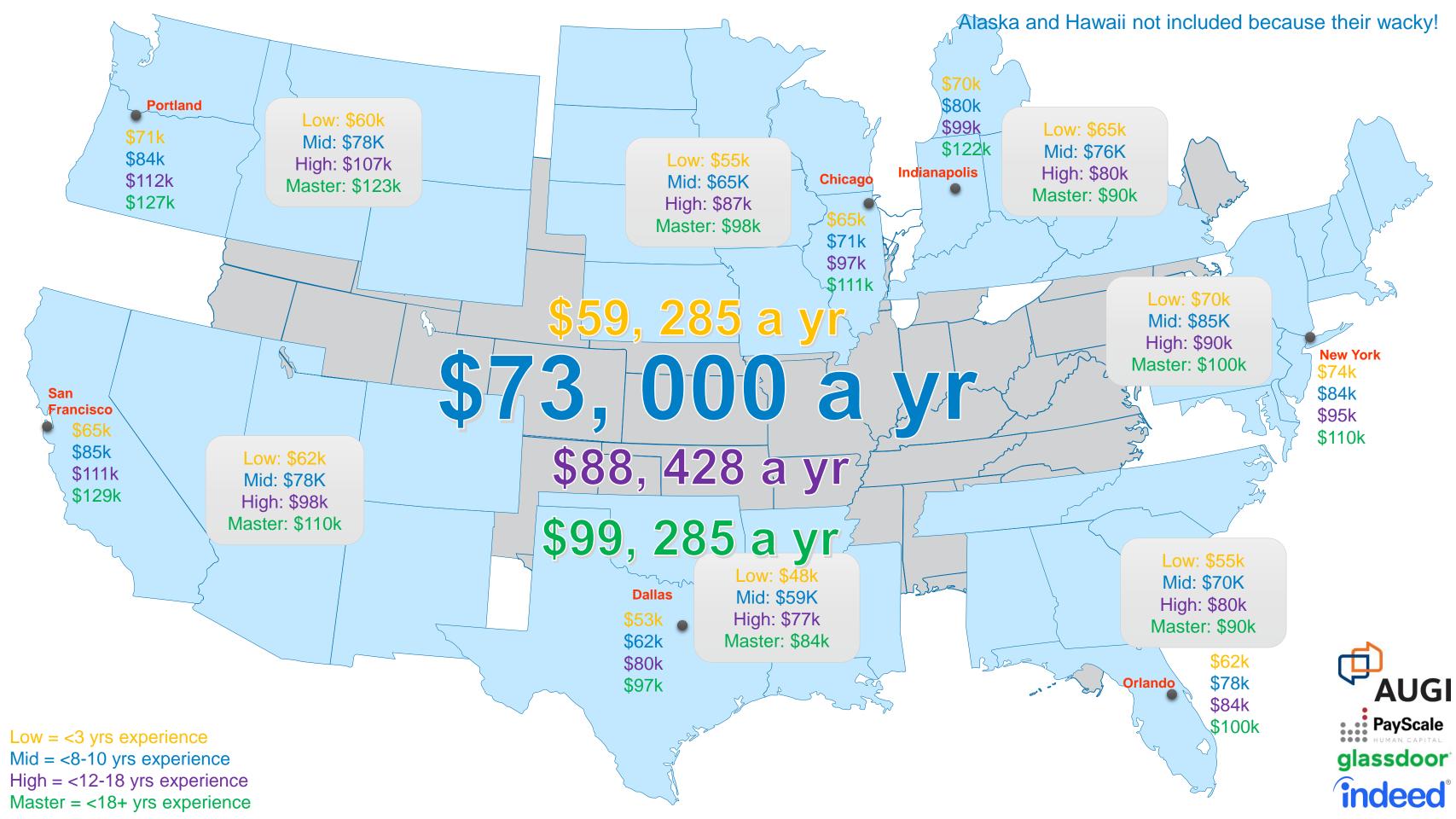


BIM 360 Future



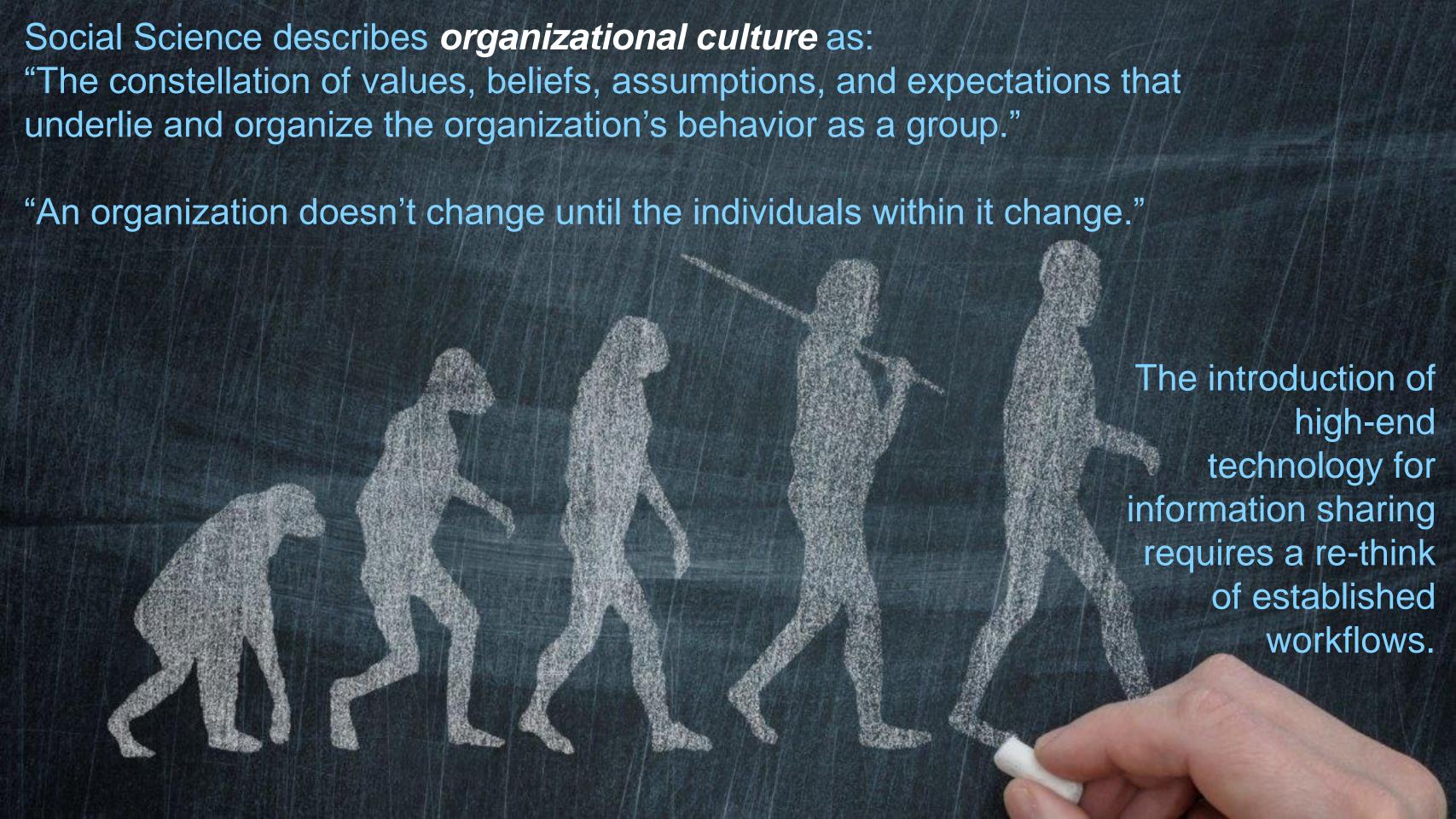




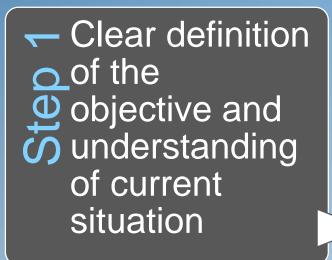




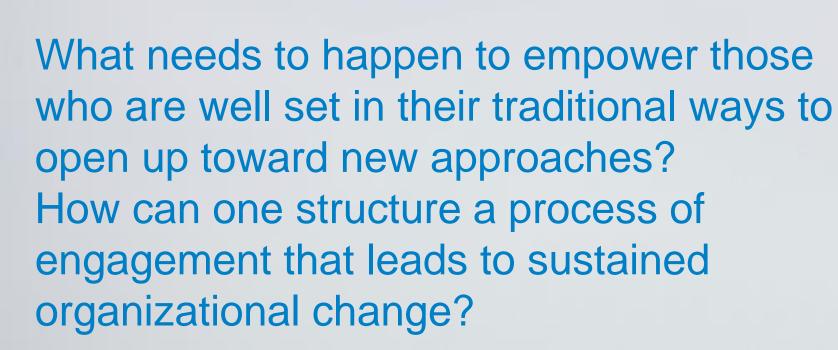




"The illiterate of the 21st century will not be those who cannot read and write, but those who cannot learn, unlearn, and relearn" **Alvin Toffler**



Get employees involved in executing the change Consolidation of the change with constant feedback Any organizational change is only as effective as the means to uphold and sustain its effects.





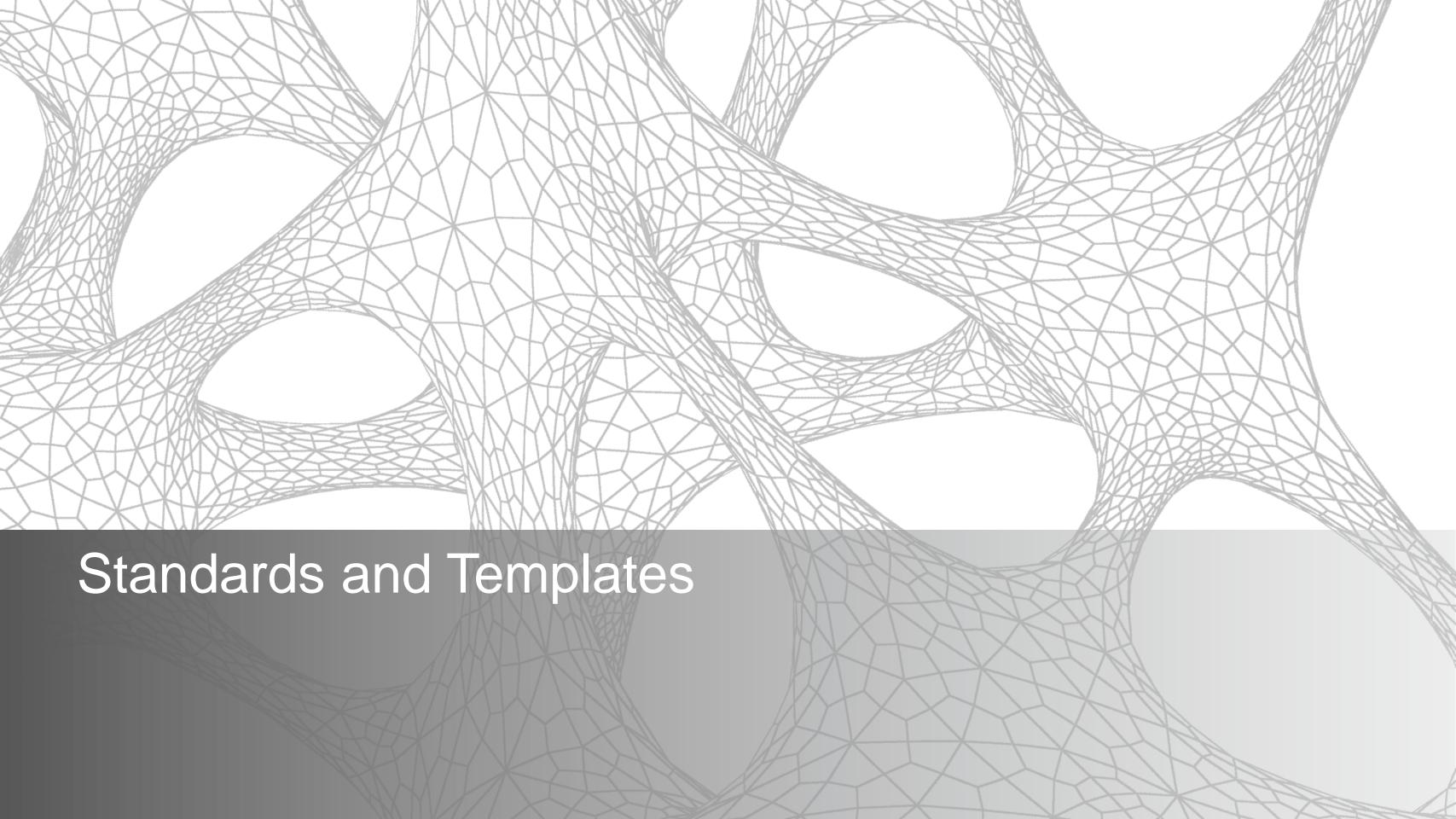
There appears to be a disconnect between those who manage and lead an organization and those who actively engage with BIM.

The kind of change required, and the extent to which change is needed to facilitate BIM, is often unknown to upper management.









National BIM Standard-United States®











BIM Execution INDIANA UNIVERSITY











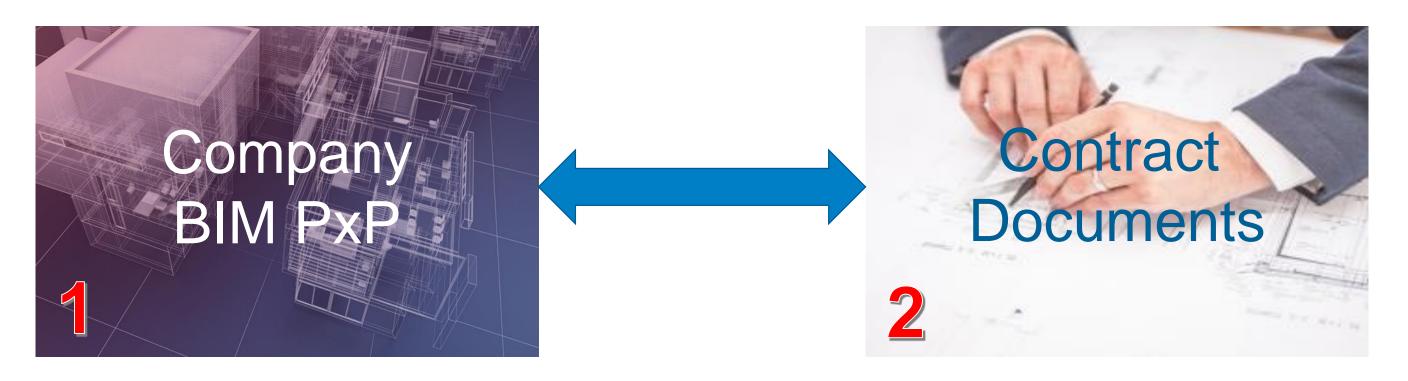


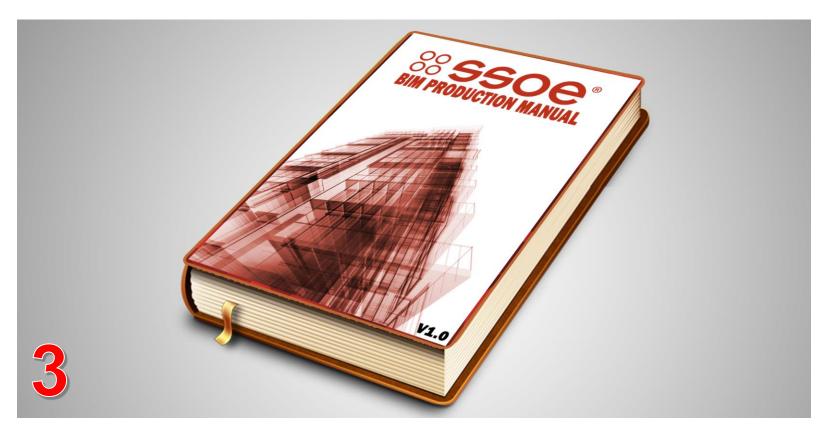




A practical & pragmatic BIM standard for the Architectural, Engineering and Construction industry in the UK.







88550e[®] BIM PRODUCTION MANUAL



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First: What is a Template??

Templates are defined as 'a standardized non-executable file type used by computer. Using a template to work from and to layout software as a pre-formatted example on which to base other files, especially documents'. Templates contain a set of repeated elements and are created to standardize visibility setting across the final documents.

Second: Why are Templates necessary??

elements, allows for less time with background work and more time on individual projects. Templates also provide a level of consistency across all projects, this is essential from a managing perspective.

3rd - Min. Template Requirements:

- **Project Units** (Metric/Imperial)
- Levels and Spacing
- Defined Views (On-Going)
- **View Properties**
- View Display
- Detail Level by Scale
- View Templates
- Object Styles (On-Going)
- Fill Patterns
- **Material Definitions**
- Line Styles

- Line Weights
- Line Patterns
- Title Blocks
- **Grid Styles**
- Wall Styles
- Floor Styles
 - **Roof Styles**
- **Door Styles**
 - Window Styles
 - Stair Styles
 - Railing Styles
 - Section Styles
 - **Elevation Styles**
- Callout Styles

- **Default Families** Loaded (Family Manager Add-In?)
- **Default Loaded** Tags
- **Default Symbols** Loaded
- **Temporary Dimension Defaults**
- Permanent **Dimension Styles**
- Text Styles
- **Snap Settings**
- Room and Area Settings

- Browser Organization
- Phases
- Keynoting (Spec Software integrated?)
- **Project Parameters** (On-Going)
- Site Settings
- Structural Settings
- **Filters**
- Spelling Library
- Color Schemes
- **Export Layers** Defined

- Import Line weights
- SHX font mapping
- Use OpenGL Hardware Graphics
- Sun and Shadow Settings
- Revit .ini customization
- **Keyboard Shortcuts**
- Code Requirements
- **Cover Sheet** Requirements



I'm a strong believer in BIM standards, that's why I use an excellent set of my own

4th – What not to put in your templates

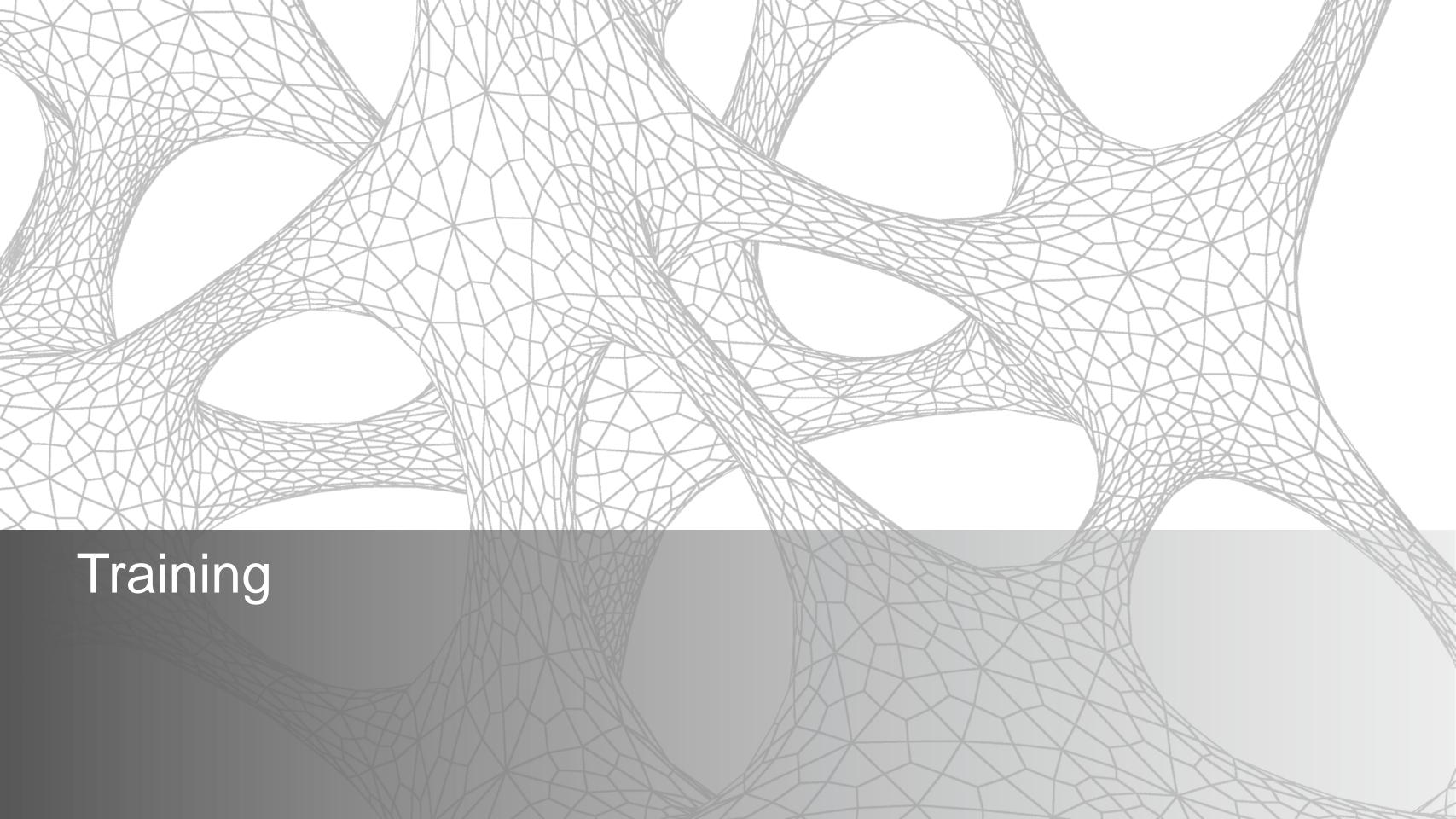
Do not make your project templates heavy, i.e. you do not include everything that a project **MAY** use. This is why we have a Standard Content folder with a structure for the user to find the content to be load easily. So items may be loaded in using Load Family and System Families can be loaded either via Copy/Paste or Transfer Project Standards.

Details:

Adding details that a project may use will unnecessarily weigh the template down. Some details are appropriate to add, like standard mounting heights, abbreviations, patterns etc. In our office we have the sheet setup for out Discipline Standards which get put in for every project. Those details are appropriate to add to the project template.

Worksets:

Worksets cannot be expressed enough – these are not layers like in the CAD days. Use only as many as you need to break up modeling efforts. The more you have, the slower your model will behave.....Naughty Naughty – Make sure your naming standards are captured in your companies production model.











BIM Management Certification Programs

Georgia Professional Tech Education



















Internal Wiki

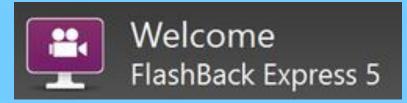




Training Your Staff





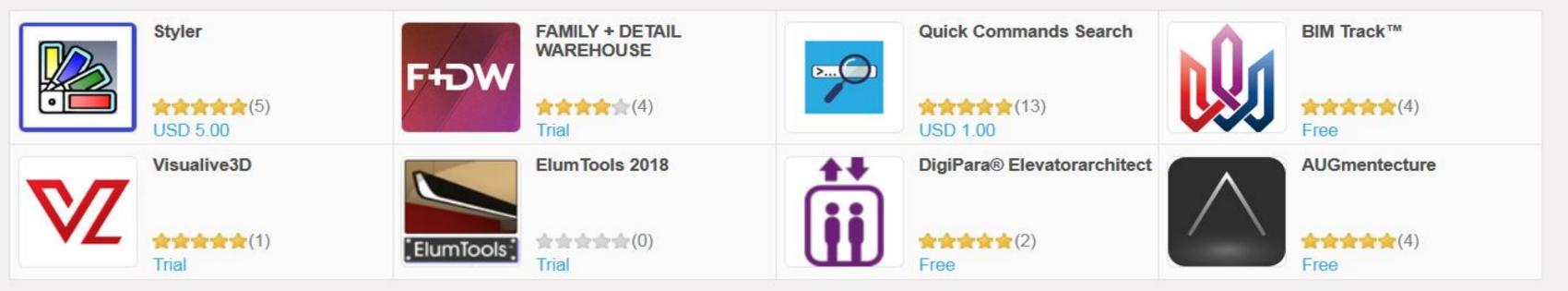








Featured Apps



Most Popular Apps

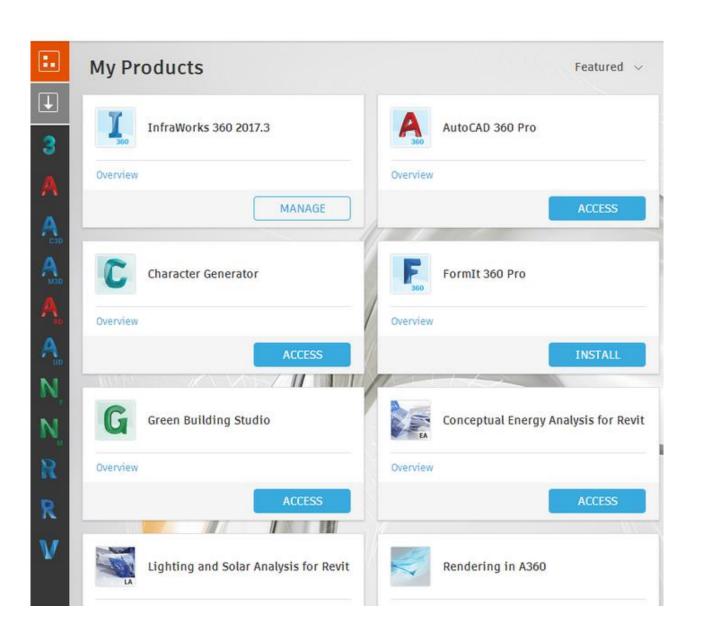


Most Popular Paid Apps

Featured New Apps







OTB or Subscription



Autodesk® Revit® Extension for Autodesk® Fabrication 2017

Apr 14, 2016 | 22.7 MB



Steel Connections for Autodesk® Revit® 2017 64-Bit

Apr 14, 2016 | 113.4 MB



Space Naming Utility for Autodesk® Revit® 2017 64-Bit

Apr 14, 2016 | 113.5 MB



DB Link v1 for Autodesk® Revit® 2017 64-Bit

May 1, 2016 | 113.4 MB



Batch Print v1 for Autodesk® Revit® 2017 64-Bit

May 1, 2016 | 114.6 MB



Worksharing Monitor for Autodesk® Revit® 2017

Jun 14, 2016 | 114.1 MB



Revit 2017 Site Designer v2 Enhancements

Sep 8, 2016 | 43.3 MB





Dynamo

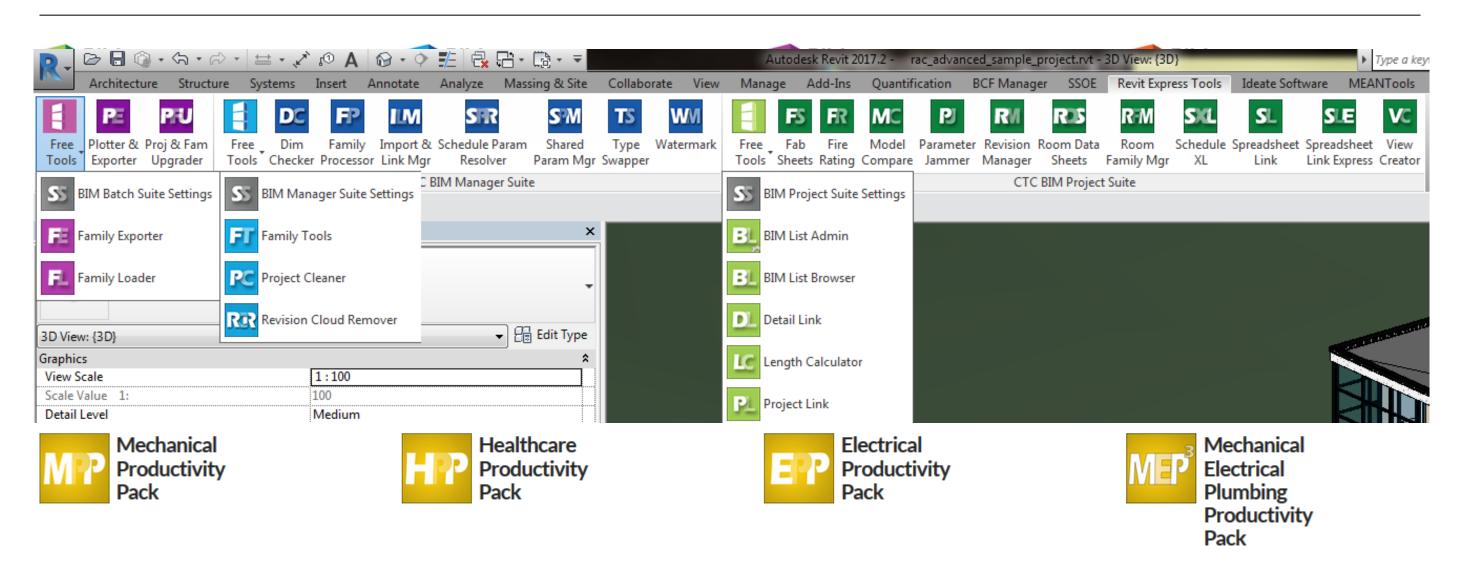


DYNAMO STUDIO



Revit Products

Software





Issues

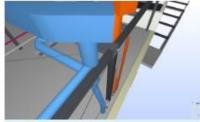
Import

Search issue

KUBUS EHV fase2

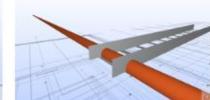
All 81 issues in this project

My projects



56. luchtkanalen door staalconstr...

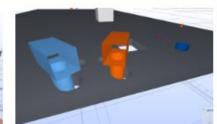
Jan Rombouts
Active, Major
UITVOERINGSFASE, KANTOORVE...



Export

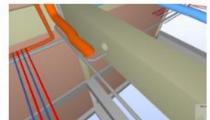
57. kabelgoot boven pluvia leggen

Marc Geenen Active, Major UITVOERINGSFASE, KANTOORVE...



58. daksparingen stroken niet met ...

Jan Rombouts Active, Major UITVOERINGSFASE, KANTOORVE...



59. sparing zit te hoog voor conde...

Jan Rombouts
Resolved, Major
UITVOERINGSFASE, KANTOORVE...

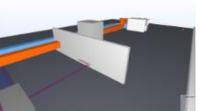


Set filter

New issue

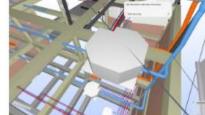
60. luchtkanalen door staalconstr...

Jan Rombouts
Resolved, Major
UITVOERINGSFASE, KANTOORVE...



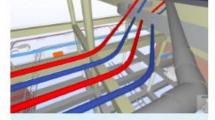
61. wand afsnijden tegen dak

Rob van Leuven Closed, Normal UITVOERINGSFASE, KANTOORVE...



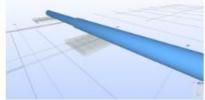
62. plafondunit naast windverband...

Rob van Leuven Resolved, Major UITVOERINGSFASE, KANTOORVE...



63. koelleidingen boven kabelgote...

Marc Geenen Resolved, Major UITVOERINGSFASE, KANTOORVE...



64. luchtkanaal zo hoog mogelijk I...

Jan Rombouts
Resolved, Major
UITVOERINGSFASE, KANTOORVE...



Erwin van Lieshout Closed, Normal Undecided



66. Doorgang naar trappenhuis ve...

Erwin van Lieshout Resolved, Major UITVOERINGSFASE, WINKELS (BG)



67. afvoer 1e verdieping tpv toiletten

Henk van Doremalen Closed, Major UITVOERINGSFASE, KANTOORVE...



68. wijziging afmetingen schact 3d...

Erwin van Lieshout Active, Major UITVOERINGSFASE, KANTOORVE...



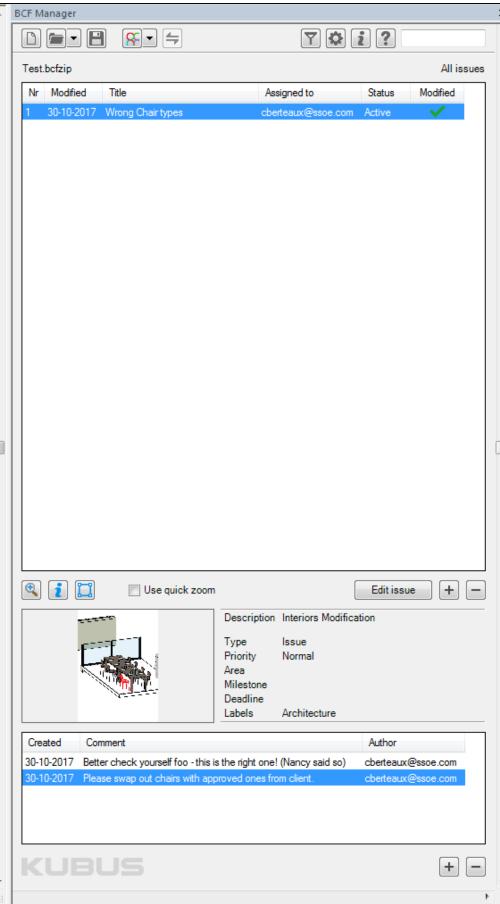
69. kozijn entree 1ste verdieping w...

Erwin van Lieshout Resolved, Normal UITVOERINGSFASE, Model



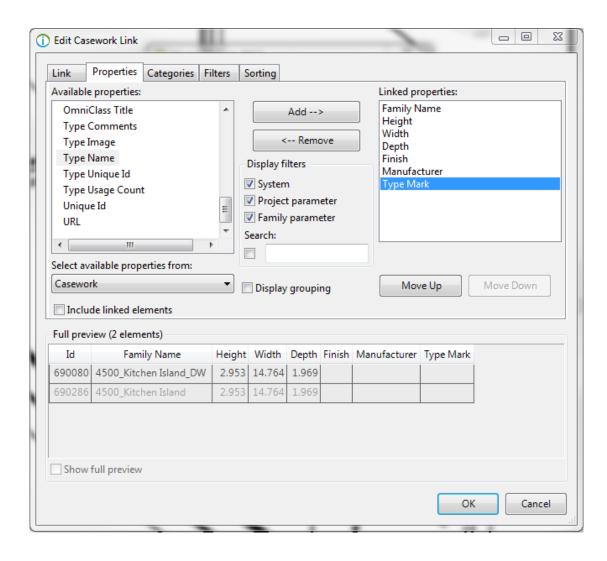
70. koelleiding waar deze in het zi...

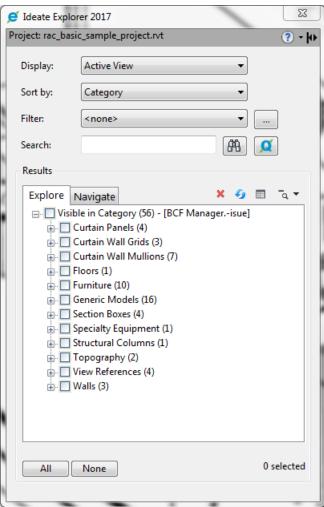
Jan Rombouts Active, Normal Undecided, KANTOORVERDIEPING..

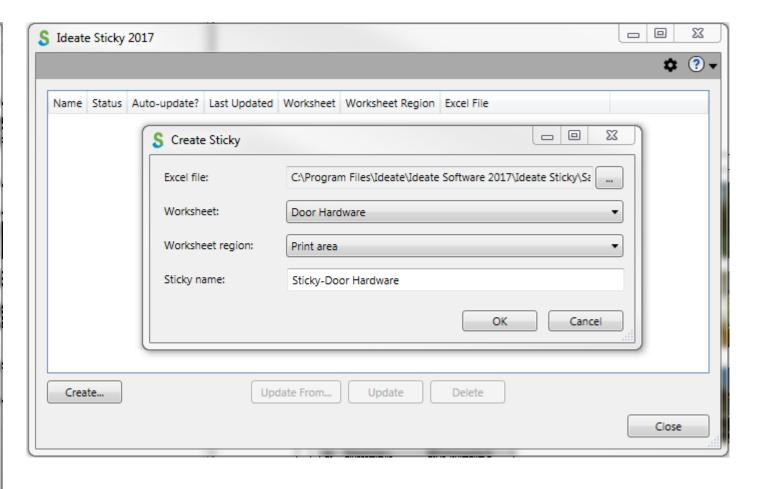


Ideate From Ideas to Reality





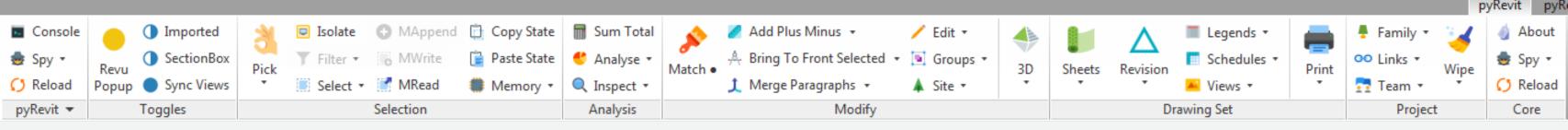








Ehsan Iran-Nejad



pyRevit is an IronPython script library for Revit. However, it is not really written as an example library. It is a working set of tools fully written in IronPython that explores the power of scripting for Revit and also adds some cool functionality. Download and install it, launch Revit and you will note the new pyRevit tab that hosts buttons to launch all the scripts provided by the package to easily run them without the need to load them in RevitPythonShell or some similar IronPython console. You can also write your own scripts and add them to pyRevit. There is even a Reload button than dynamically adds the new scripts to the current Revit session without the need to restart Revit.



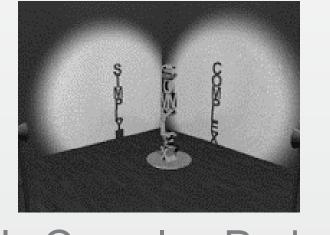
https://github.com/eirannejad/pyRevit





John Pierson





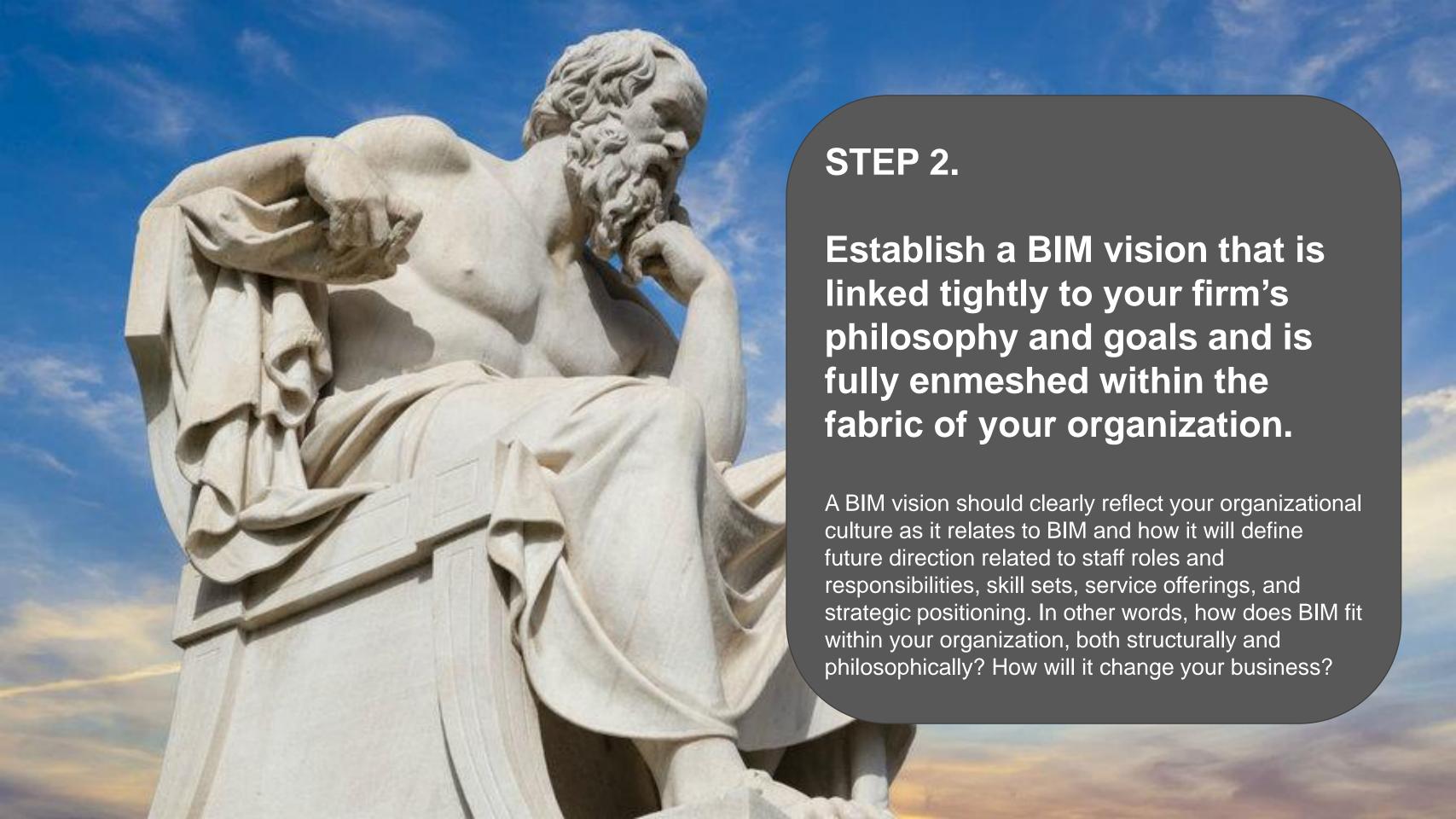
Simply Complex Podcast









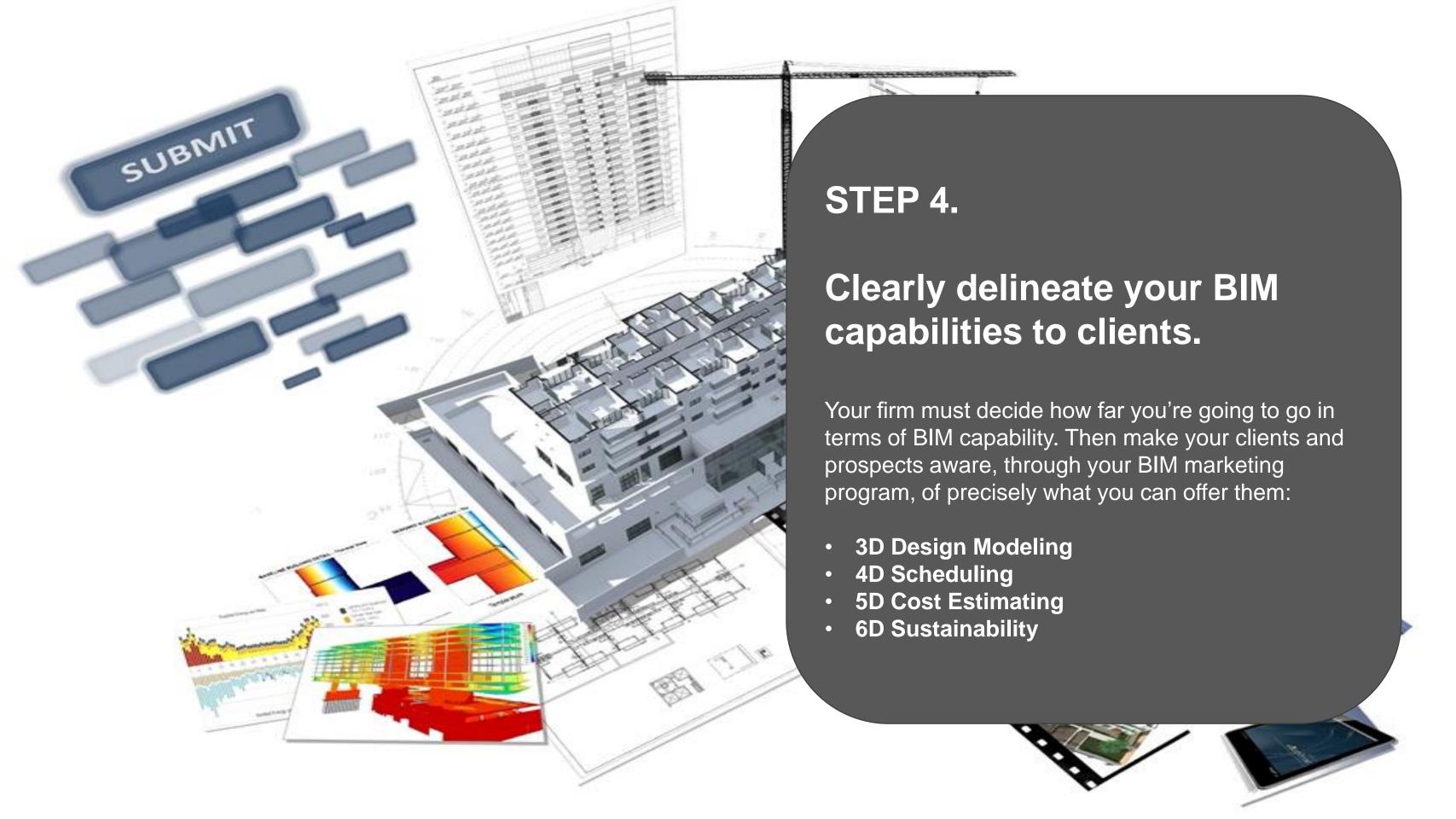


STEP 3.

Identify a BIM champion within your organization to lead the effort.

As the face of BIM in your organization, your BIM champion will have to reach out to a wide group of stakeholders, both internal—marketing, finance, principals—and external—clients, prospects, and their representatives. The BIM champion must be the kind of person who can listen to and understand the needs of clients and prospects and implement business strategies to meet those demands most effectively. At the same time, this person must have the ability to push back on those who resist change.





BIM PROJECTS 3D 4D 5D 6D 7D

STEP 5.

Embed BIM into your firm's marketing content. Start by creating a BIM portfolio.

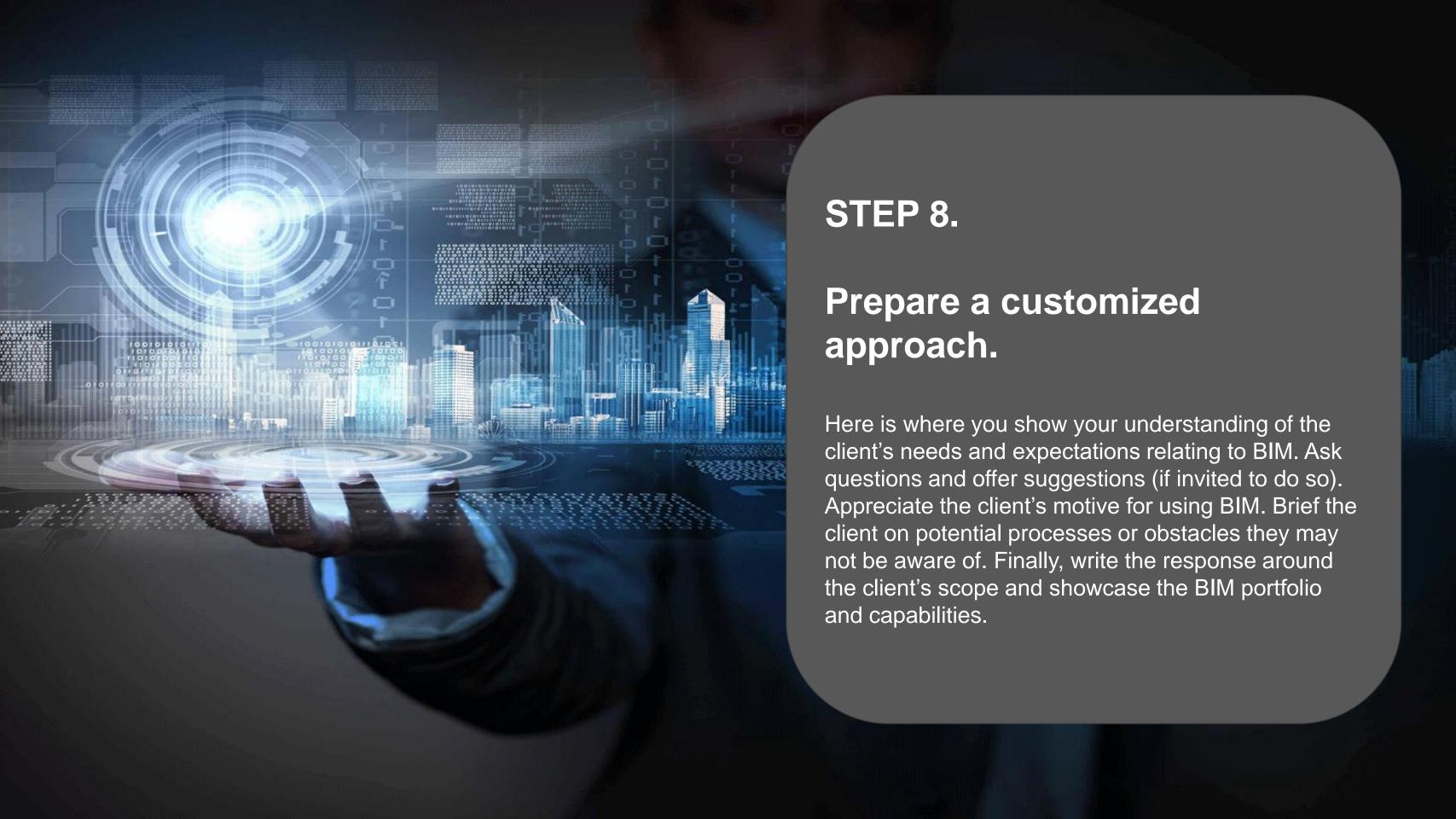
The BIM portfolio is your firm's BIM résumé. You will need to combine your recent BIM project success stories with your core services to build a new presentation of your more robust capabilities. BIM can be presented as a set of processes, workflows, and technologies leveraged within your firm to aid in your coreservice delivery. BIM portfolios should include a mix of media—images, animations, and roadmaps—that showcase your BIM capabilities.



YOUR COMPANY PROFILE













Make anything.

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