



# The case for BIM collaboration - going beyond coordination



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# Session *Presentation* Available Here

[\*bimtrack.co/dcw\*](https://bimtrack.co/dcw)

The screenshot displays the BIM Track website's 'DCW 2021 - BIM Track presentations' page. The navigation bar at the top includes links for Features, Plans, Resources (highlighted), Blog, Careers, and About, along with a 'Sign up' button. The main content area features six presentation cards arranged in a 2x3 grid. Each card includes a thumbnail image, a title, and a brief description.

Thumbnail	Title	Description
	The case for BIM collaboration - going beyond coordination	The case for BIM collaboration - going beyond coordination
	Paving the Way for true interoperability	The behavioral side of digitalization Open standards and Openness to change.
	bridging the gap between the job site and preconstruction	The immense value of taking BIM to the field
	BIM Track - Better coordination, Better teams, Better buildings	BIM Track - Better coordination, Better teams, Better buildings
	Apps & Add-ins for Your VR Workflow	Apps & Add-ins for Your VR Workflow
	AEC Technology: Fear, Fact, Future	AEC Technology: Fear, Fact, Future

# ***Agenda***

- **Introductions**
- **Tailored Expectations**
- **BIM Coordination**
- **BIM Collaboration**
- **Final Thoughts**
- **Questions**

# *Introductions*

**HELLO**  
**MY NAME IS**



Carl Storms  
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# Your *Speaker*



## Carl Storms

Technical Solutions Lead | BIM Track

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LinkedIn: [Carl Storms](#)  
Podcast: [BIMThoughts](#), [BILT Academy Podcast](#)  
[The Simply Complex Podcast](#)

- Worked in Residential & Commercial Architecture
- Worked in Commercial Construction (BIM/VDC)
- 10+ Years as a Collegiate & Industry Instructor
- Working with CAD  
*Since 1993, using since 1989*
- Involved in the AEC Industry  
*Since 1998*
- Utilizing and Advocating BIM  
*Since 2008*
- Global Conference Speaker  
*Since 2014*
- Autodesk Expert Elite

# *Tailored Expectations*



# Tailored *Expectations*

Morning Caffeine



# Tailored *Expectations*

## BIM Collaboration



**BIM TRACK®**



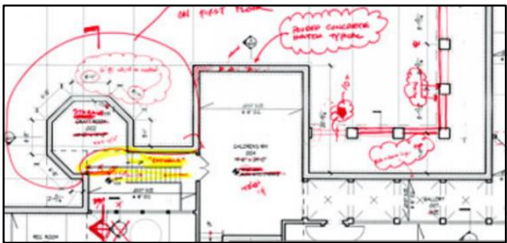
**PROCORE®**



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**AUTODESK  
CONSTRUCTION  
CLOUD™**



# Tailored *Expectations*

I had help!

- [Panel Discussion:](#)  
BIM Coordination Meetings  
What's Your Secret Sauce?
- [Panel Discussion:](#)  
BIM Coordination Meetings  
What's Your Secret Sauce Vol 2:  
Collaboration for the Win!

A **HUGE** thanks to those AECO experts who shared their knowledge and formed the basis for this session!

# *The AECO Expert Panelists*



**Katelyn Sanchez**  
**VDC Coordinator**  
McVeigh & Mangum



**Aaron Maller**  
**Director**  
Parallax Team



 **NEWFORMA**

**Tom Maleski**  
**Sr. Solutions Engineer**  
Newforma



**Mirra Maheden**  
**Director**  
MLC Digital Solutions



**Alice Leung**  
**Investment Associate**  
Brick & Mortar Ventures



**Scott Chatterton**  
**BIM Solutions Director**  
BIM One

# *The AECO Expert Panelists*



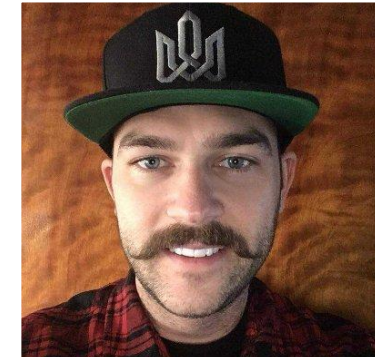
**Ryan Camer**  
Director of VDC  
Haskell



**Darren Roos**  
Corporate BIM/VDC Director  
Bernards



**Jacob D'Albora**  
Director of BIM-FM Services  
McVeigh & Mangum



**Brodi Scott**  
Product Owner  
MiTek

# *What is BIM Coordination*



# What is **BIM Coordination**?

Well it's  
not Magic

“Any sufficiently  
advanced technology  
is indistinguishable  
from magic”

Arthur C. Clarke

# What is **BIM Coordination**?

It also doesn't come  
with an **easy button**



# What is **BIM Coordination**?

According to  
Merriam-Webster  
Dictionary

“The process of organizing people or groups so that they work together properly and well”

\*Technically it's the definition for coordination

# Coordination Questions

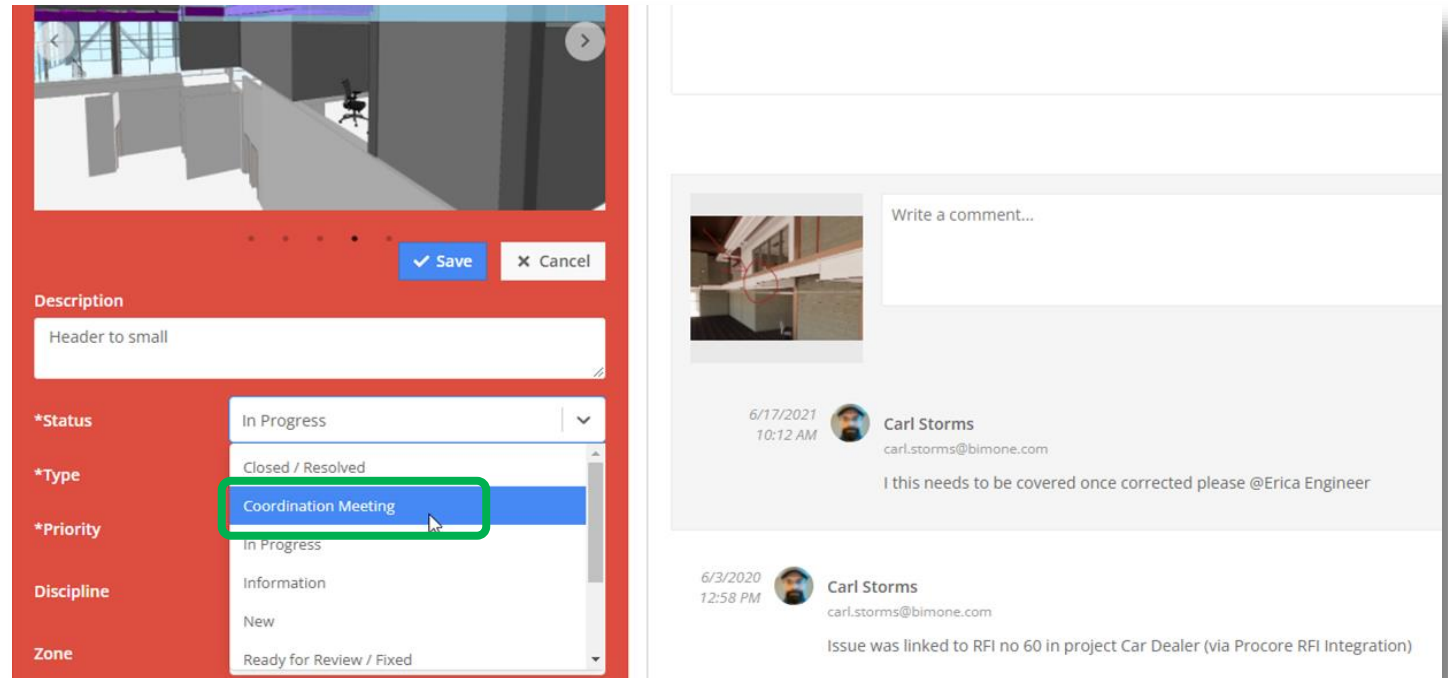
How do you get  
(and keep) your  
coordination  
meeting **organized**?

- Understand the project construction documents
- Set an agenda for the meetings and stick to it
  - Organized meetings are shorter meetings
- Distribute the clash report before the meeting
- Don't review every clash during the meeting
- Record virtual meetings to accompany meeting minutes

# Coordination Questions

How do you get  
(and keep) your  
coordination  
meeting **organized**?

- Use custom Priority or Status in BIM Track like “**Coordination Meeting**”



The screenshot displays the BIM Track interface. On the left, a 3D model of a building interior is visible. On the right, a form is open for creating a new issue. The form has a red header bar with 'Save' and 'Cancel' buttons. Below the header, there is a 'Description' field with the placeholder text 'Header to small'. The form also includes several dropdown menus: '\*Status' (set to 'In Progress'), '\*Type' (set to 'Closed / Resolved'), '\*Priority' (set to 'In Progress'), 'Discipline' (set to 'Information'), and 'Zone' (set to 'New'). A green box highlights the 'Coordination Meeting' option in the '\*Priority' dropdown menu. To the right of the form, there is a comment section with a 'Write a comment...' text box. Below the text box, there are two comments from Carl Storms. The first comment is dated 6/17/2021 at 10:12 AM and says 'I this needs to be covered once corrected please @Erica Engineer'. The second comment is dated 6/3/2020 at 12:58 PM and says 'Issue was linked to RFI no 60 in project Car Dealer (via Procore RFI Integration)'.

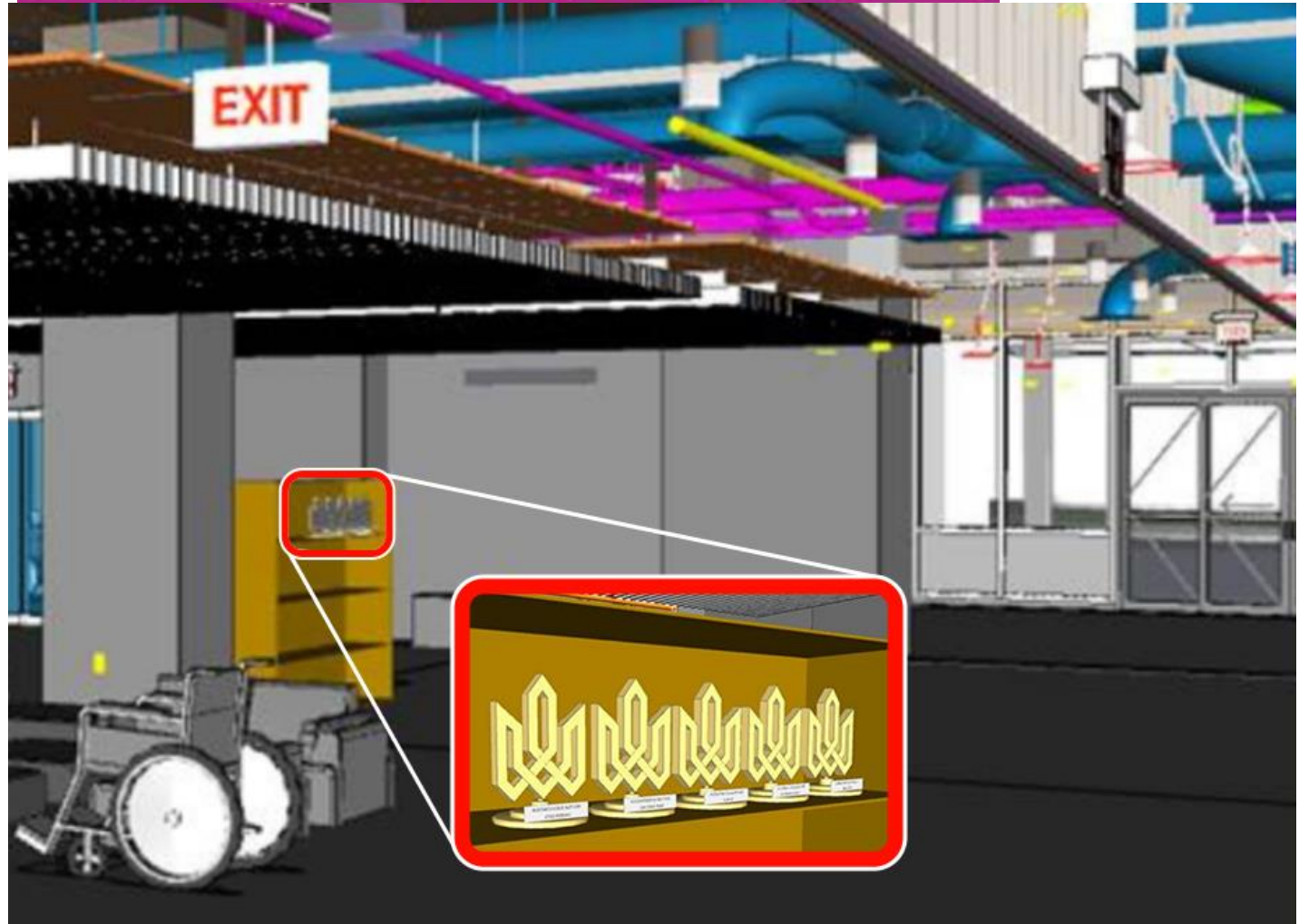
# Coordination Questions

How do you get  
**buy-in**  from all  
those involved?

- Need a culture of collaboration
  - The management of a coordination meeting is a soft skill
- Positive reinforcement works best
- Make a list of what will improve the project
  - Include the list in the BIM Execution Plan
  - Complete the list get a reward

# *Gamification* Questions

How do you get  
**buy-in** 💰 from all  
those involved?



More about this [HERE](#)

# Coordination Questions

How do you  
choose who **needs**  
to be involved?

- Not everyone is required
  - But those that are required must attend
  - Make this happen by adding to BIM Execution Plan
- Virtual meetings & coordination tools make this easier
- Very import to have the field people part of the process
  - Make them understand the value BIM/VDC can provide

# Coordination Questions

How do you use technology to your advantage, and not let it become a distraction?

- **Cool Features** don't help if they aren't practical
- To many “things” on a project can be a big distraction
  - If I deploy it will it help this project
  - Not all projects need all “tools”  
best tool for the job (current job)
- A tool that is helpful and efficient, but hard to use or understand will NOT get used
  - UI is very important here
  - Still problem with people not wanting to learn new things

# Coordination Questions

How do you use technology to your advantage, and not let it become a distraction?

- The BIM & VDC people on the project are part of the “package” so how you share the tools and workflows can also play into the distraction
  - And vice versa with field people
  - Sharing knowledge between consultants and sub-trades is a Win/Win

# Coordination Questions

What coordination meeting **mistake** have you learned the most from?

- Modeling something that “solves” the problem, but isn’t constructable
- Trying to micromanage meetings
  - Try to keep them 60 minutes or less
  - Make everyone at the meeting feel like they are part of it
- When you schedule your meetings is key
  - Friday afternoons - not a good idea

# Coordination Questions

What coordination meeting **mistake** have you learned the most from?

- Relationships are key
  - Get to know the people on the projects, not just the project details
- One bad trade can derail the whole project
  - Make sure what they say they can do is truly what they can do
  - Have a list of resource available to help get everyone up to speed
- Make sure 3rd parties know the trades they are representing
  - People that don't know something, don't know they don't know it

# ***BIM Collaboration***



# What is **BIM Collaboration**?

## BIM Dictionary to the rescue

### BIM Collaboration Event



A meeting, presentation or workshop conducted as part of a Collaborative BIM Project. An event may be conducted in meeting room, Immersive Environment or online and includes at least two Project Participants

Labels: **Event**

### BIM Management Plan (BMP)



A formal document used to define how a Collaborative BIM Project will be delivered. A BIM Management Plan (BMP) includes model exchange templates and detailed guidance covering BIM Roles, Modelling Standards and Data Exchange Protocols. According to NATSPEC National BIM Guide, there are two types of BMPs: a Design BMP and a Construction BMP. In some cases, a BMP is considered part of the Contractual Relationship between Project Participants...Also refer to BIM Execution Plan (UK)

Similar: BIM Project Execution Plan, Project Delivery Plan, BIM Collaboration Guide, Design BMP, Construction BMP  
Labels: **Document**

### Collaborative BIM Project



A multidisciplinary BIM Project which revolves around the use of BIM Software Tools to generate and exchange data-rich, object-based models. A Collaborative BIM Project relies on the availability of other enabling technologies (e.g. Model Viewers or Model Servers), collaborative workflows, Data Exchange Protocols and suitable contractual arrangements. Most importantly, a Collaborative BIM Project depends on the willingness of Project Participants to collaborate with each other

Labels: **Conception**

### BIM Collaboration Guide



A guide used at the start of a collaboration process to facilitate data exchange, identify modelling responsibilities and clarify project workflows

Similar: BIM Project Execution Plan (PennState), BIM Delivery Manual, BIM Protocol (UK), BIM Management Plan (NATSPEC)

# What is **BIM Collaboration**?

*Coordination*  
is **Contractual**

*Collaboration*  
is **Voluntary**

# Collaboration Questions

What do you consider the most important difference between **Coordination** and **Collaboration**?

## You need Both!

- Bring the people together (**collaboration**) not just the data (**coordination**)
- Coworking can foster this by building relationships
  - Note coworking can also provide a level of distraction - need balance
  - Coworking sites also need to function  
*jobsite wifi can suck!*

# ***Collaboration* Questions**

## **Coordination**

**Can be done by yourself**  
(in a silo)

**List that needs to get done**

**Dealing with the issue**

## **Collaboration**

**Needs a team**


**Working as team**

**There is feedback**

**Team works together towards the bettering  
of the project not the individual**


**Communicating the effort  
to solve the issue**

# Collaboration Questions

How do you handle projects where not everyone is **on board** the Collaboration Train? 


- You want everyone on the Collaboration train
  - If the project is 90% On & 10% Off then everyone else needs to make up that missing 10%
- Why are they not willing to collaborate?
  - Sometimes they are just new or unsure so offering help from others on the project that have BIM/VDC experience is a win/win for all
  - Make them feel comfortable in trying something new

# Collaboration Questions

How do you handle projects where not everyone is **on board** the Collaboration Train? 

- Make sure you have the right people for the project
  - Might mean looking outside your tradition circle of consultants/trades
- Sometimes you just need to work around them
  - Or through them
- Take advantage of new cloud based tools & emerging tech
  - Make it easy

# Collaboration Questions

How do you handle projects where not everyone is **on board** the Collaboration Train? 

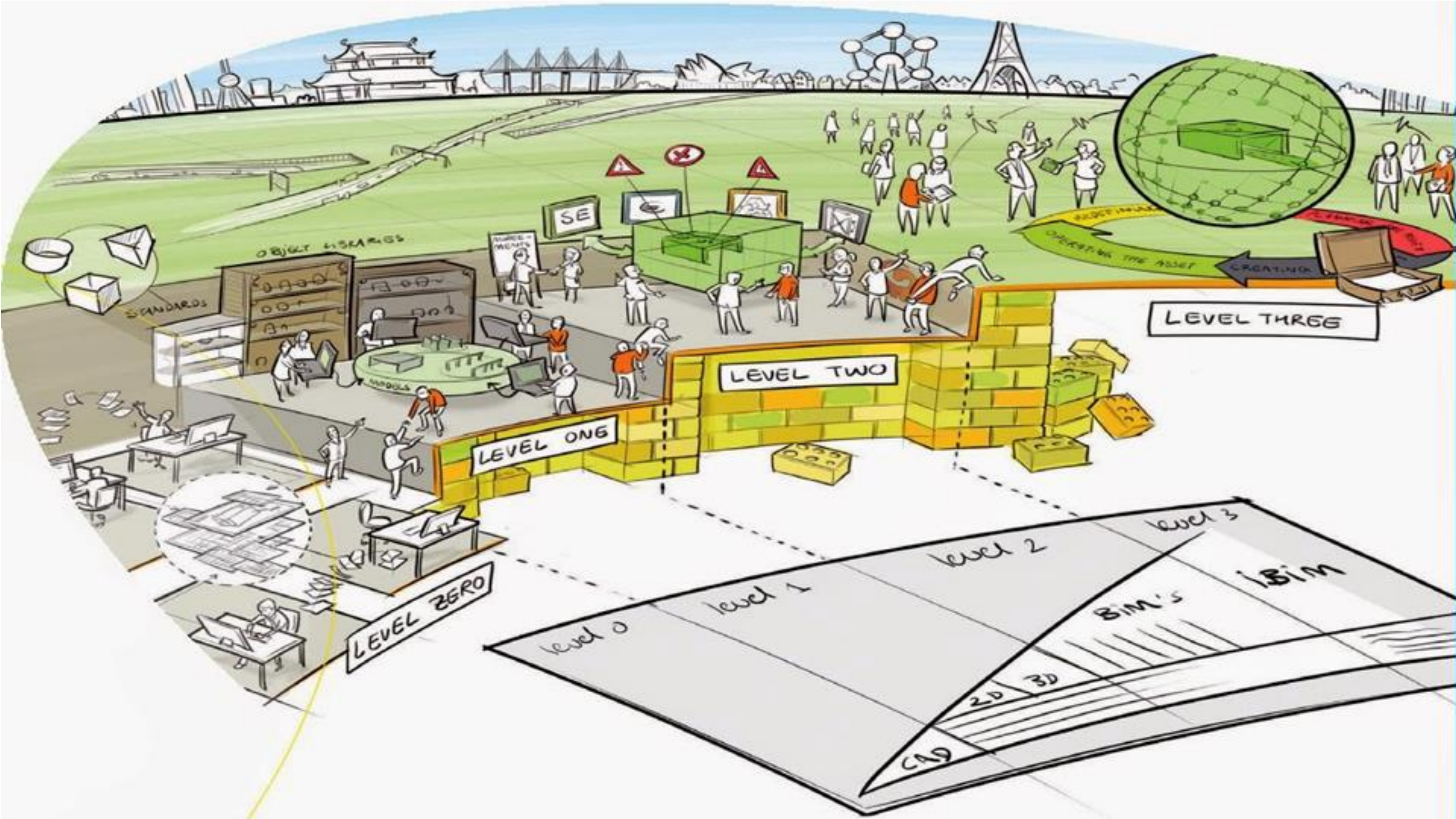
- People skills and soft skills are needed for a collaborative project
  - Not everyone is good at the “People” side
  - How do you get people skills when all your experience is in digital or virtual?

# Collaboration Questions

True collaboration is more than just communication it requires a process, commitment and the tools to get you there.

How do you help others **get there**?

- Offer support and shared wisdom to team members not from your discipline or company
  - Offer short little lessons, keep them growing and learning
  - They will take those lessons on to the next project
- Helping everyone up to the same level is good for the whole AEC industry



# Collaboration Questions

True collaboration is more than just communication it requires a process, commitment and the tools to get you there.

How do you help others **get there**?

- Create a BIM coordination schedule like a construction schedule (lean/pull planning)
  - If you coordinated “just in time” like you do for construction schedules effort is wasted or duplicated
- A good BIM Execution Plan (BEP)
  - There has to be accountability

# Collaboration Questions

True collaboration is more than just communication it requires a process, commitment and the tools to get you there.

How do you help others **get there**?

- Sometimes owners ask for “Buzzword BIM” without actually knowing what they are asking for or if it is actually needed
- There needs to be more BIM/VDC education for the owners
  - *You get what you pay for not what you ask for*

## Collaboration Questions

True collaboration is more than just communication it requires a process, commitment and the tools to get you there.

How do you help others **get there**?

*“I’m fine with having RFI’s increase during the coordination process if it means less change orders during construction”*

# *Final Thoughts*

*Coordination*  
is about pulling it  
all **together**

*Collaboration*  
is about getting the  
**best from each  
player!**

# *Final Thoughts*

## Resources

- BIM Track Blog: [50 tips for better BIM coordination meetings](#)
- [BIM Track's Ultimate Guide to BIM Coordination](#)
- BIM Corner - [BIM Coordination](#) blog posts on the subject
- BIM Corner's [Practical BIM Coordination Guide](#)



# Questions?



# Thank You

Stop by Booth **F70A** and say Hi! 🙋

## For More Info

[www.bimtrack.co](http://www.bimtrack.co)

Start your free trial today!



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