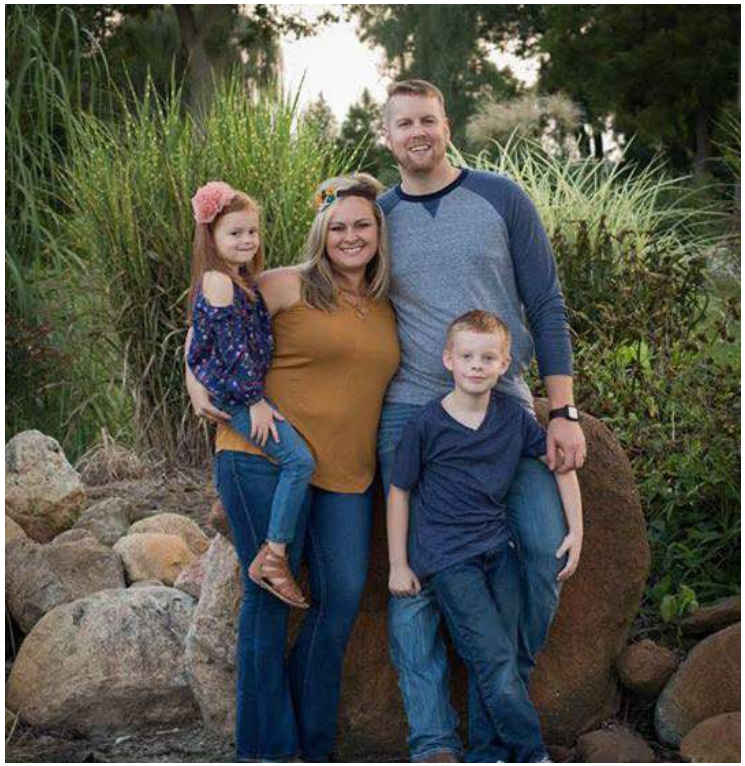
# The Step Child Named BIM

Cliff Ragan, Andrew Cooper

VDC Engineers – AECOM Hunt

Please Silent Phones

# THANK YOU!!



# Cliff Ragan

## VDC Engineer – AECOM Hunt

-Raised in construction.

-Associates in Applied Science

-”BIMming” since 2010

-Various roles in the BIM realm

-CM-BIM, Certified UAS Pilot, CP in Revit MEP and Arch

-Responsibilities at Hunt, IMPLEMENT BIM

Field Training, Coordination, 4D, 5D, 6D, etc.

# Andrew Cooper

## VDC Engineer – AECOM Hunt

-Architectural and Engineering Design Background

-Terrible at ping pong

-Various roles in the BIM realm

-Certified UAS Pilot

-Responsibilities at Hunt, IMPLEMENT BIM

Coordination, Drones, Laser scanning


# AECOM Hunt

Hunt Construction Group was acquired by AECOM in 2014/2015? We represent a portion of the C in AECOM, “A”rchitecture “E”ngineering “C”onstruction “O”peration “M”aintenance

BIM DC
AECOM HUNT

# WHO’S HERE??

# Why am I Here?

COMMON COORDINATION PROBLEMS

Learn from a few of the problems we have tackled in the past.

WE DON'T NEED BIM

Learn how to defeat the we don't' need BIM attitude.

TEACH YOUR TEAM

Gain some pointers for teaching those that struggle with adopting new technology.

LEVERAGE SOFTWARE

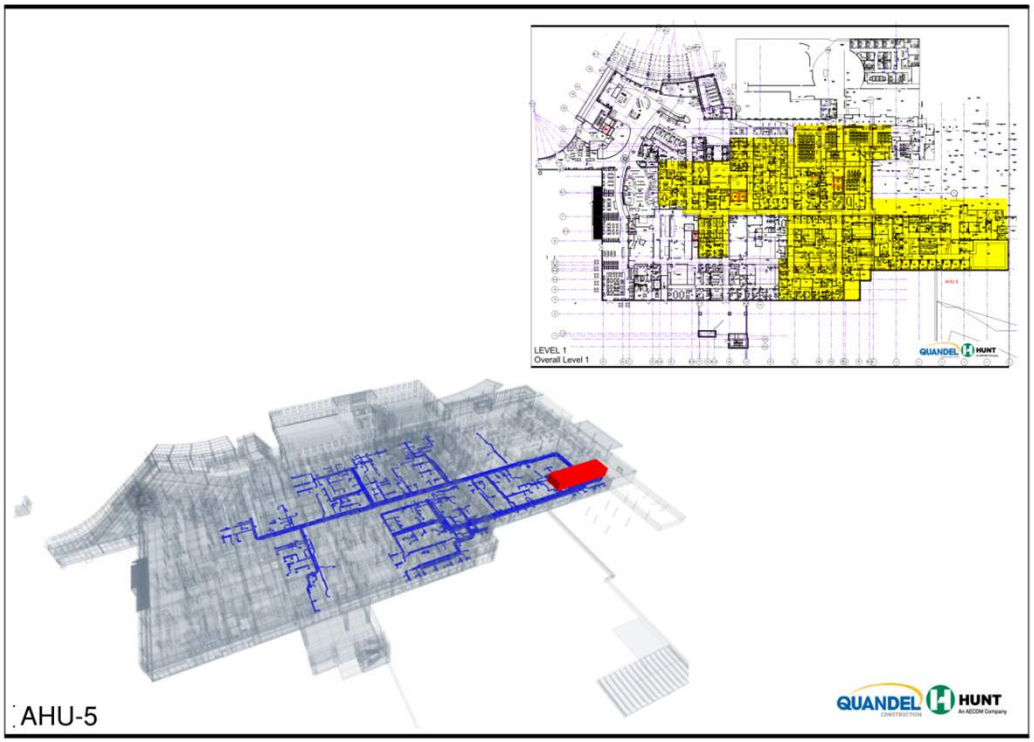
Capitalize on using the correct software for the appropriate task

## ……Walk Away With Some Knowledge

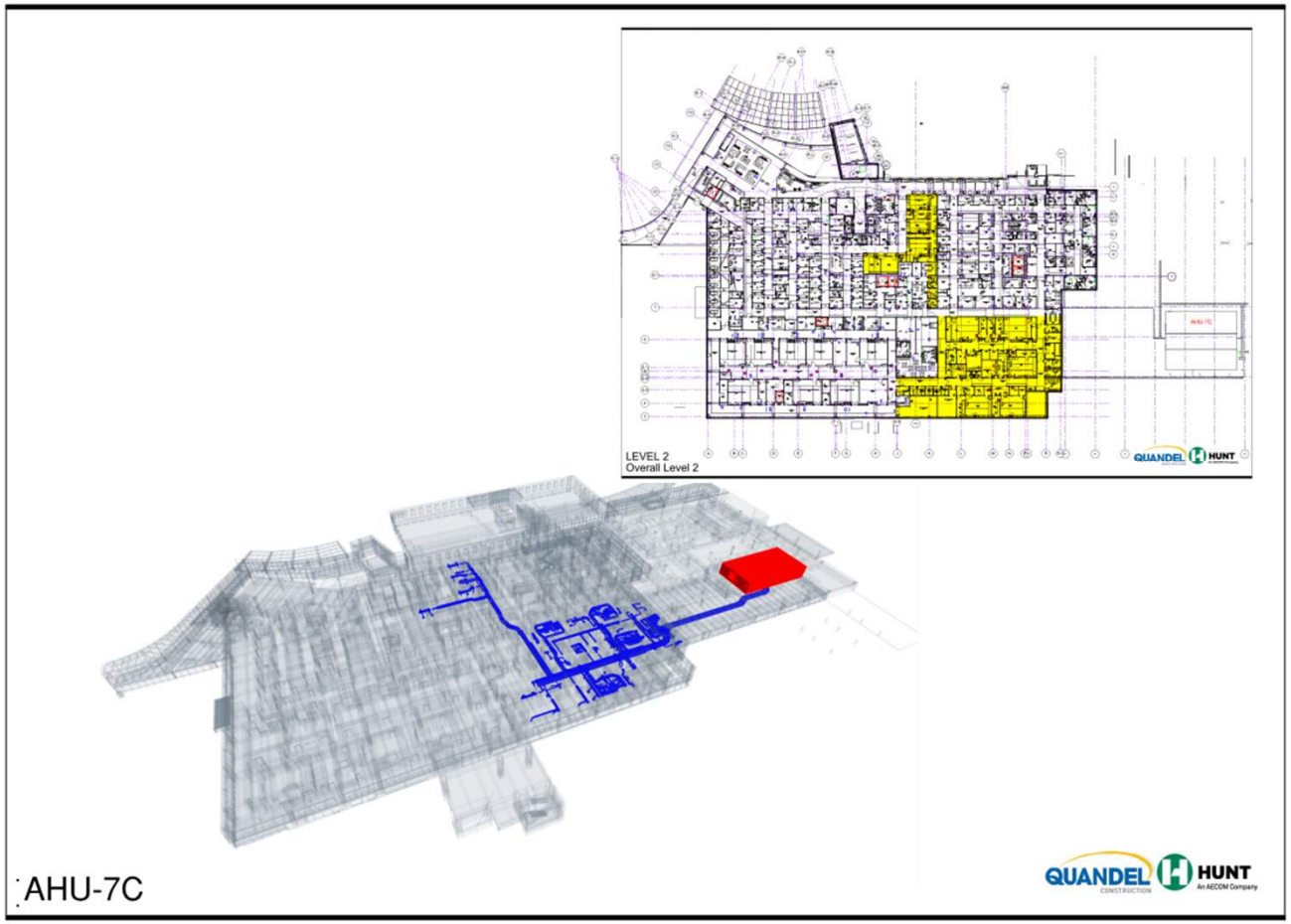
# LEVERAGING SOFTWARE

## PUSH THE LIMITS OF THE SOFTWARE

- Press Every Button
- Break It
- Engage your team



# LEVERAGING SOFTWARE



# LEVERAGING SOFTWARE

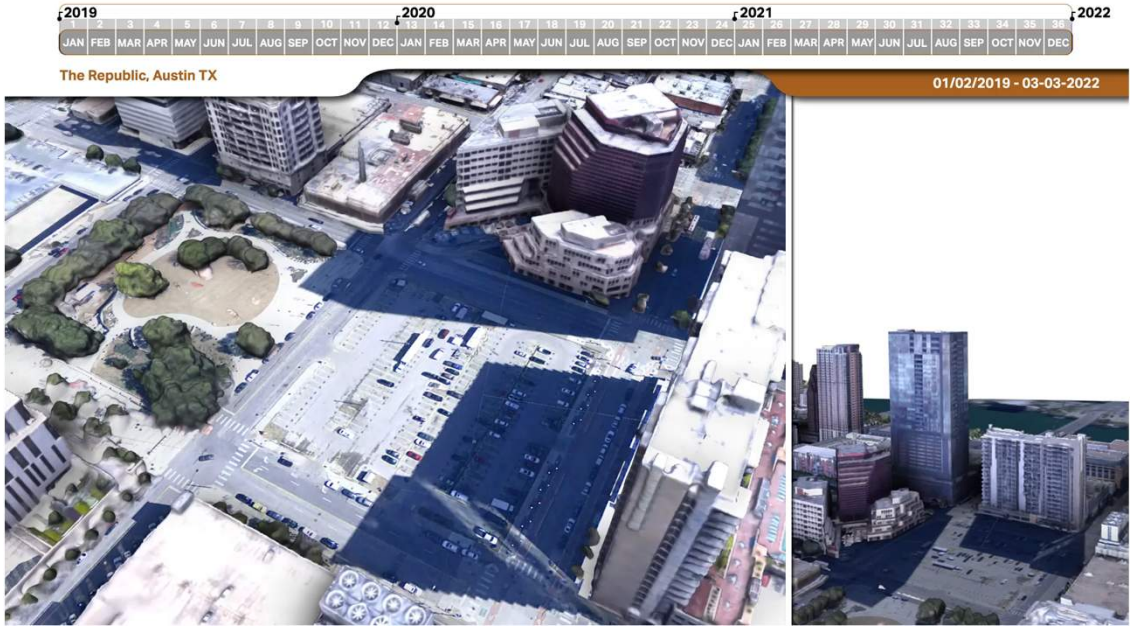
## ENHANCED 4D TIME LINER

- Not a 4th Dimension
- Adds time, or a schedule, to the model.
- Many different applications and detail levels.
- Use multiple software to create the best visuals.

# LEVERAGING SOFTWARE

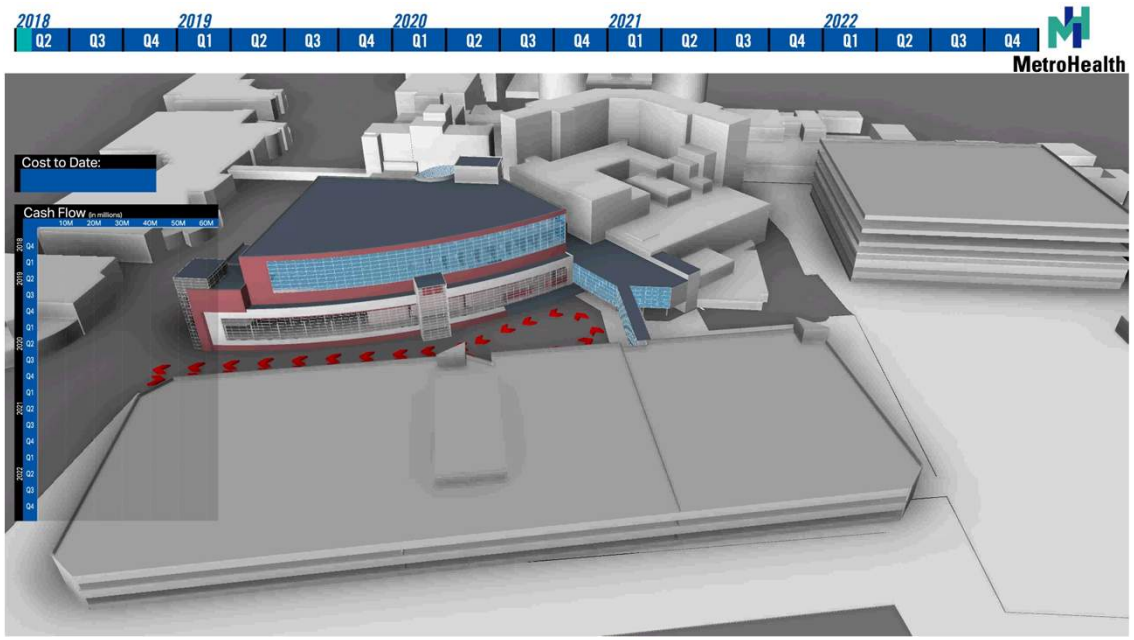

ENHANCED 4D WITH DRONE BACKDROP & TIMEBAR

# LEVERAGING SOFTWARE




ENHANCED 4D WITH PIP

# LEVERAGING SOFTWARE



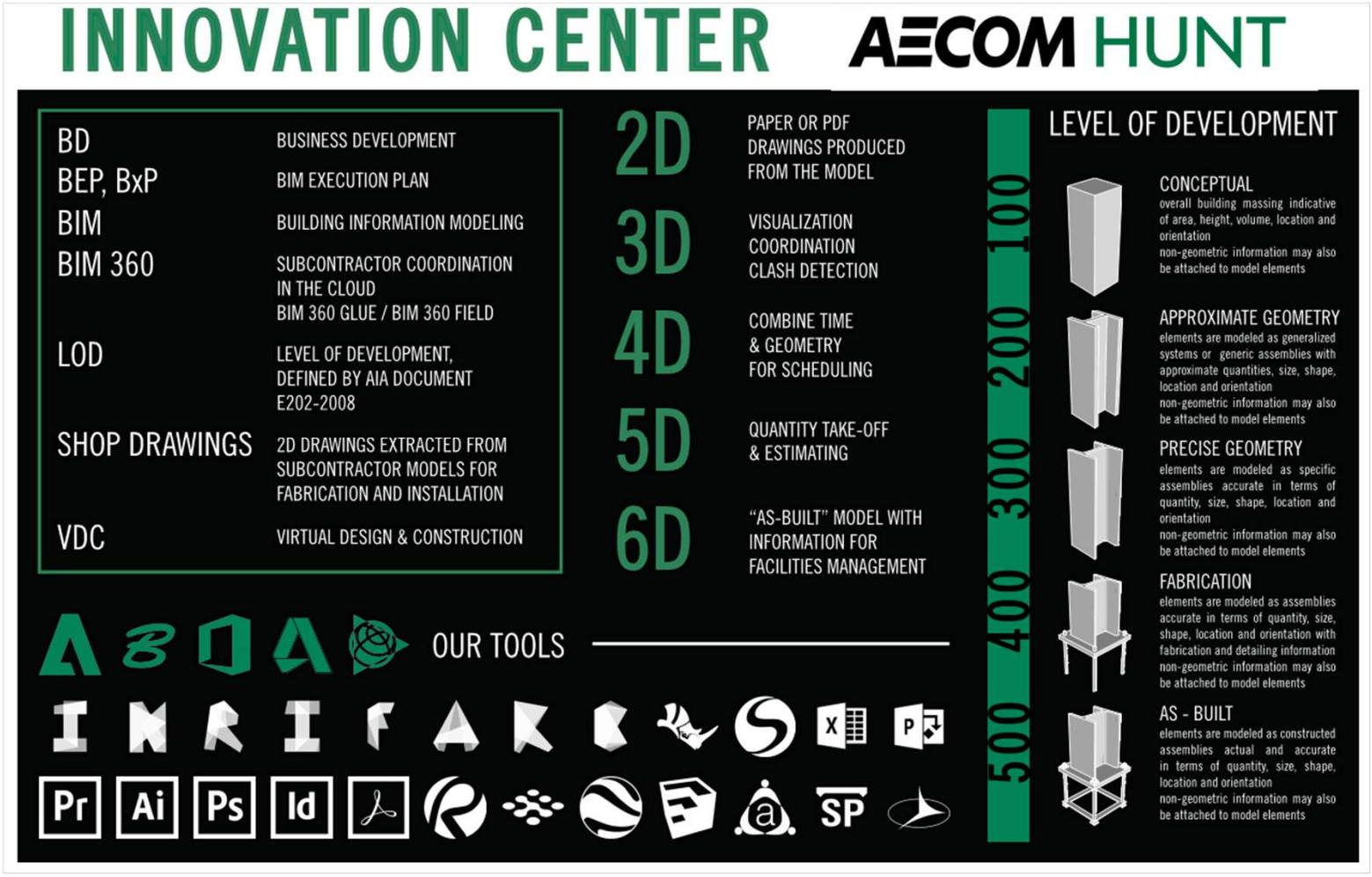

ENHANCED 4D WITH CASHFLOW

# TEACHING YOUR TEAM

## LET THEM KNOW BOUNDARIES

- You are not a IT person, however, help when you can.
    - Need to know basic computer functions.
- Make sure they understand your role, but assist as necessary.
- Have resources available……..

# TEACHING YOUR TEAM



# TEACHING YOUR TEAM

## GET TO KNOW THE PROJECT TEAM

- Gain trust.
- Prove the value of yourself and BIM early in the project.
- Immerse yourself in the goals of your project team.

# TEACHING YOUR TEAM

## BE AVAILABLE

- ANSWER YOUR PHONE
- Use email for documentation and sending memos, not to carry on a conversation.

# “Whatever Good Things We Build, End up Building Us”

-Jim Rohn

“The Road to Success is Always Under Construction”

-LILY TOMLIN

# “We Don’t Need BIM”

-TOO MANY PEOPLE


YES YOU DO!

# “WE DON’T NEED BIM”

## BAD EXPERIENCES

- Get feedback on what issues with BIM they’ve seen in the past.
  - Cost, Ineffective Coordination, Schedule Impact, etc.
- Ask what common problems they face on a project in general.
  - Look for opportunities for BIM to aid in those problems.

# “WE DON’T NEED BIM”

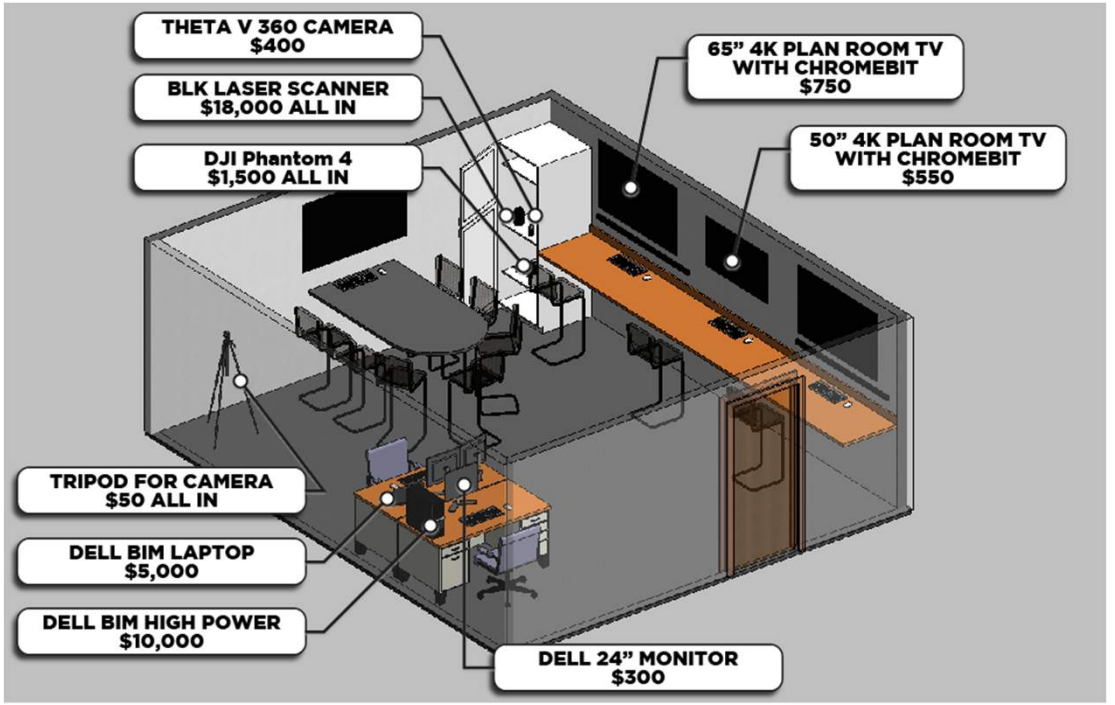
## BIM IS SCALABLE

- BIM is not just modeling and coordination.
- Stress the Information in “BIM”
- Keep current drawings posted in digital form.

# “WE DON’T NEED BIM”

## BIM IS SCALABLE

- Have answers for common questions.
- Be fluent in pricing, available tools, processes, and workflows.



# COMMON COORDINATION PROBLEMS

COVER YOURSELF BY CONTRACT

HAVE RESOURCES

COMMUNICATION BARRIERS

BE READY TO TRAIN


HUNT
An AECOM Company
HUNT
CONSTRUCTION GROUP
CONSTRUCTION MANAGERS
GENERAL CONTRACTORS
Quality
It's Your Job.


Make anything™