

# Welcome!

## Everything You Need to Know About Tech in 30 Minutes

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Responses will be provided at the end of the webinar.

**Provider Name:**

Ohio Facilities Construction Commission

**Provider Number:**

G442

**Course Title:**

Everything You Need to Know About Tech in 30 Minutes Webinar

**Course Number:**

Web29.

**Speakers:**

Christy Miller & Caitlin Brudnicki, BCL IT Consulting

**Date:**

July 11, 2018



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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation

During this webinar, we will discuss a wide range of items that are affecting technology packages in projects across the board. Starting with the new-age debate of flat panels vs. projectors, which allows for optimal viewing for the best price? We will also touch on the up and coming technology that can save clients a dime or two, such as virtual and augmented reality. On the tail end of the presentation, we will discuss the affects of coordinating security, management, and maintenance at the beginning of a project to reduce the confusion and chaos the day before a building opens. If time permits, we will also touch on how to reduce technophobia within clients, to ensure all buildings are moving forward.

# Learning Objectives

- Audience will learn about viewing distance and how to apply this when speaking with clients regarding flat panel vs. projectors.
- Audience will learn about how to coordinate security, management, and maintenance at the front end of a project to aid in a smoother execution.
- Audience will learn about up and coming technologies, such as augmented reality and virtual reality, and how they can be dollar savers in a project.
- Audience will learn about how to combat technophobia with clients to ensure that clients are moving towards the latest and greatest products.

# Everything You Need to Know About Technology in Thirty Minutes

Christy Miller, CEO of BCL IT Consulting

Caitlin Brudnicki, Consultant



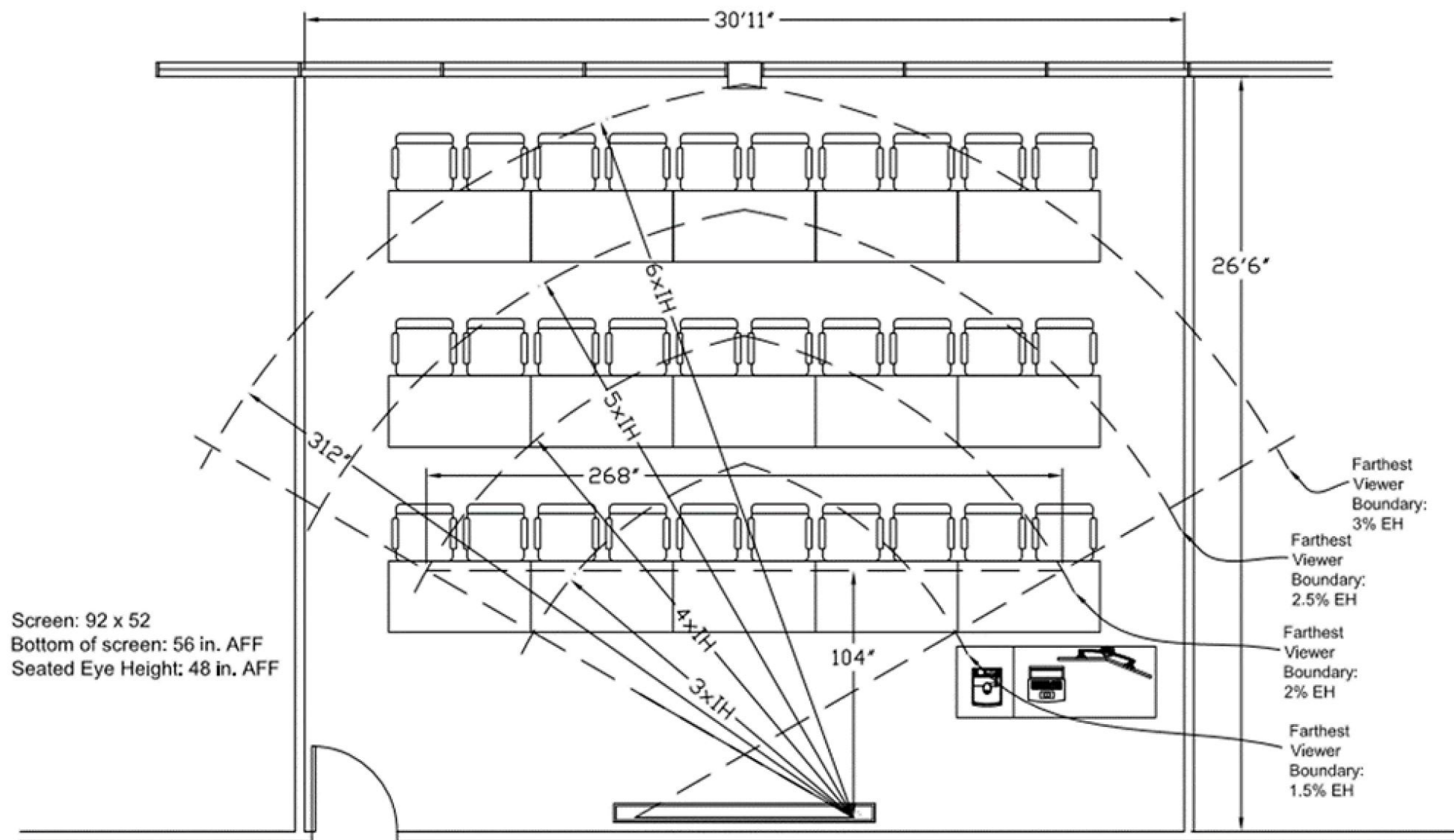
# Projector Vs. Flat Panel Debate

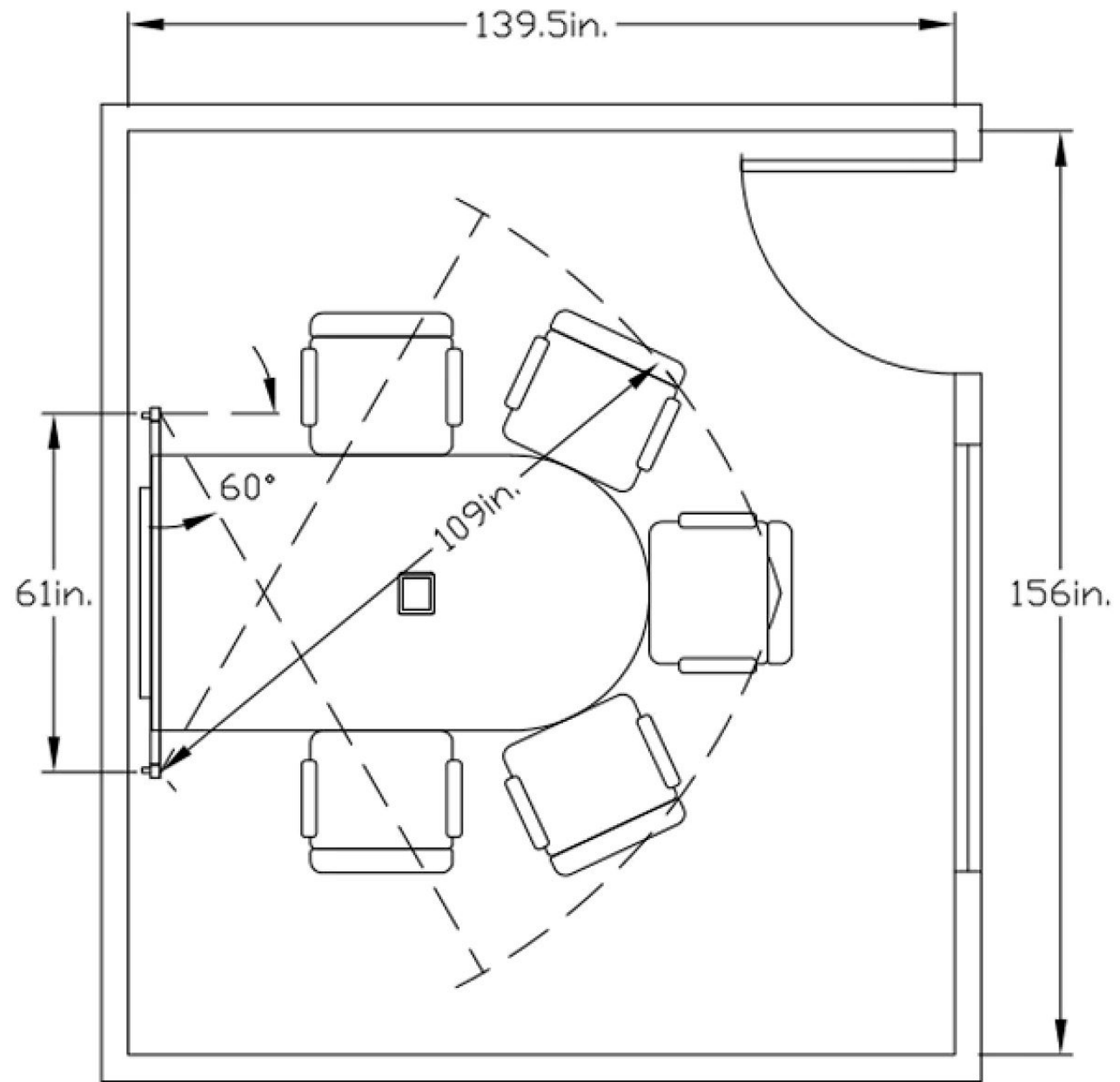
- Interactive projectors are standard, and the competition is the interactive flat panel
- Flat panels are great if you have the budget to get large monitor sizes
- Projectors are still cost effective, but in a few years, the flat panels will be competitively priced



# The Math Behind Viewing Distance

- When analyzing an image, you must follow ADM (Analytical Decision Making)
- When viewing a presentation that does not need analyzed, you must follow BDM (Basic Decision Making)
- These factors allow you to calculate the distance to both the closest viewer and farthest viewer allowed in the room





# Budgetary Restraints

- ▶ On average, interactive short throw projectors with a 100" diagonal are \$2400, an interactive flat panel with a 75" diagonal is roughly \$4800
- ▶ It is possible to “break even” in pricing, but there is also a lot of give and take that comes with it



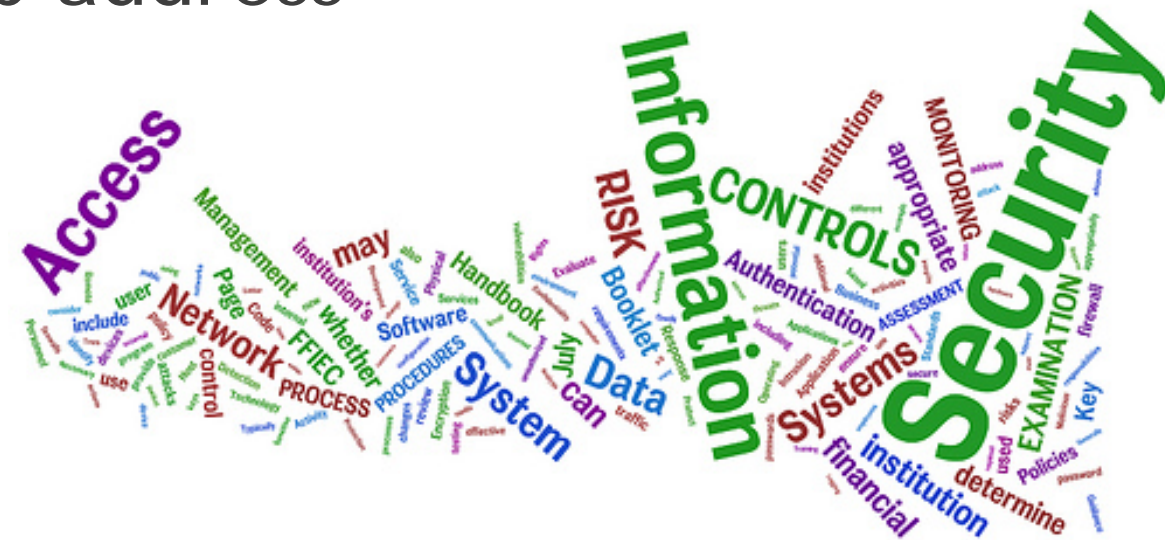
## Cat 6 Vs. Cat 6A

- ▶ The OSDM mandates Cat 6 is the minimum compliant cable
  - ▶ Cat 6A is mandated for Wireless
- ▶ The benefit of starting with 6A on new builds is it enables future growth



# Security Coordination and Fire Alarm

- ▶ Meet as early as possible to coordinate client desires for security
- ▶ Discuss how electronically controlled fire doors will release if a fire alarm is pulled
- ▶ Keeping up with code will help address coordination efforts





# Door Hardware Coordination

- ▶ Lockdown scenarios are only effective if 100% of your exterior doors are electronically controlled
- ▶ Securing “wings” of a building means electronically controlling doors
- ▶ Card access is another measure for coordination





# Augmented Reality



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- With augmented reality, we are able to dissect a whole new realm
- From practicing medical procedures to studying for chemistry, augmented reality offers expansive solutions for all users

# Virtual Reality

- We can now explore things we were never able to touch before
- Virtual reality can now be a tool for offices, schools, even professional development
- The possibilities are endless



# Telepresence



- We live in a world where we need to know telepresence etiquette
- Children who are sick can now be present in the classroom, employees who need to work remotely can now have a presence in the office
- This is the new morning commute



# Collaborative Spaces

- People thrive in open spaces, and we see that in more and more buildings
- These spaces mean getting creative with placing data and power
- Furniture is now housing data and power runs to ensure an open concept remains just that



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# USB Vs. USB-C



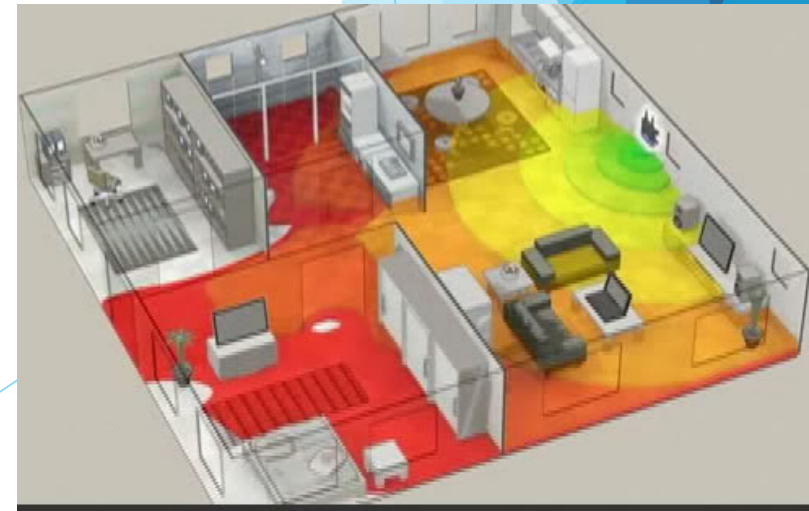
- ▶ We all know the struggle of finding a compatible cable to charge our laptops or phones
- ▶ The question now is whether or not USB-C will be the next large implementation
- ▶ Remember, cords are always made to be backwards compatible, so there will always be converter cables available

# Every Day Statistics

- ▶ 95% of adults between 18 and 44 own smart phones
- ▶ 69% of the population (birth to seniors) use smart phones
- ▶ By 2020, 20% of organizations will use mobile credentials for physical access instead of traditional ID cards
- ▶ The average smart phone user touches their device 2,617 times/day
  - ▶ I bet you are touching it now 😊

# Wireless Access: Density Vs. Capacity

- ▶ Wireless is a tricky thing, and planning it out is a long process
- ▶ Planning for capacity is based on the maximum occupancy of a room, which does not account for the number of devices per person
- ▶ Planning for density takes into consideration the number of devices instead of the max number of people in a room



# Backwards Compatibility

- ▶ Technology changes so rapidly that it is near impossible to maintain the latest and greatest standards
- ▶ Luckily, technology is created with the intention of being backwards compatible
- ▶ The thing to remember, however, is that you are only as strong as your weakest link



BACKWARDS  
COMPATIBLE



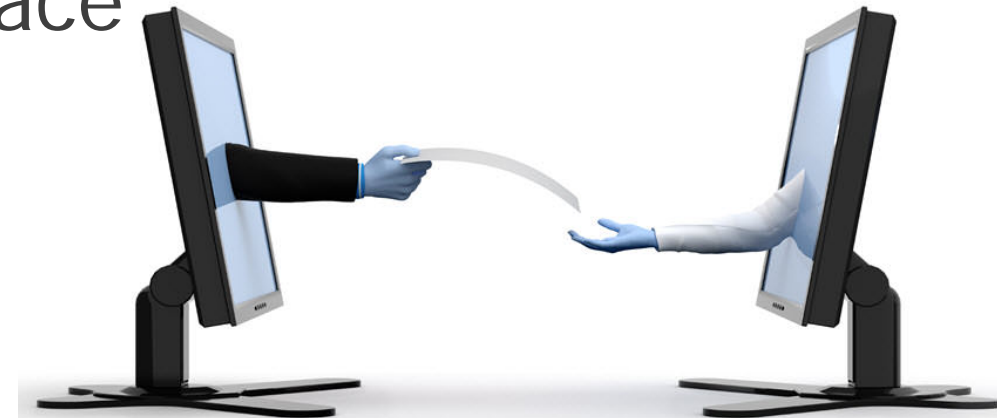
# Planning for Future Use

- ▶ In the construction industry, projects take years to complete
- ▶ For technology, this means what we specify in the beginning may not be relevant at the end of the build
- ▶ Planning for future use means keeping up with the standards that are on the brink of changing



# Screen Sharing

- ▶ We have all seen this by now, whether you connect your computer to the projector in the room or share your phone screen in a web conference
- ▶ These connections can be physical cables or software programs that allow for the necessary collaboration to take place



## The Power of Making Workshop

Thursday, July 19, 2018 10:00 AM - 2:00 PM (Eastern Time)

<https://www.regonline.com/builder/site/Default.aspx?EventID=2390578>



# What's up Next?

**Tuesday, August 7, 2018 | Columbus 1**

**Thursday, August 16, 2018 | Cleveland**

**Wednesday, August 22, 2018 | Cincinnati**

**Tuesday, August 28, 2018 | Columbus 2**

**Registration: <http://ofcc.ohio.gov/News-Events/OFCC-Conference>**

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- AIA CEU credit – don't forget to include your AIA #
- Certificate of participation for self-reporting to your professional organization or employer
- Remember, we are unable to offer individual credit when watching in a group environment

# For Any Questions, Please Reach Out

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- ▶ (513)860-2615 (office)

## **This concludes The American Institute of Architects Continuing Education Systems Course**

**Provider Name:** Ohio Facilities Construction Commission

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