



Shared IT Services for Higher Education & Research

Conference 2018

Welcome!

Making it GUI:

One University's Journey Into Making A Standardized User Interface

Who we are



Eugene
AV Programmer



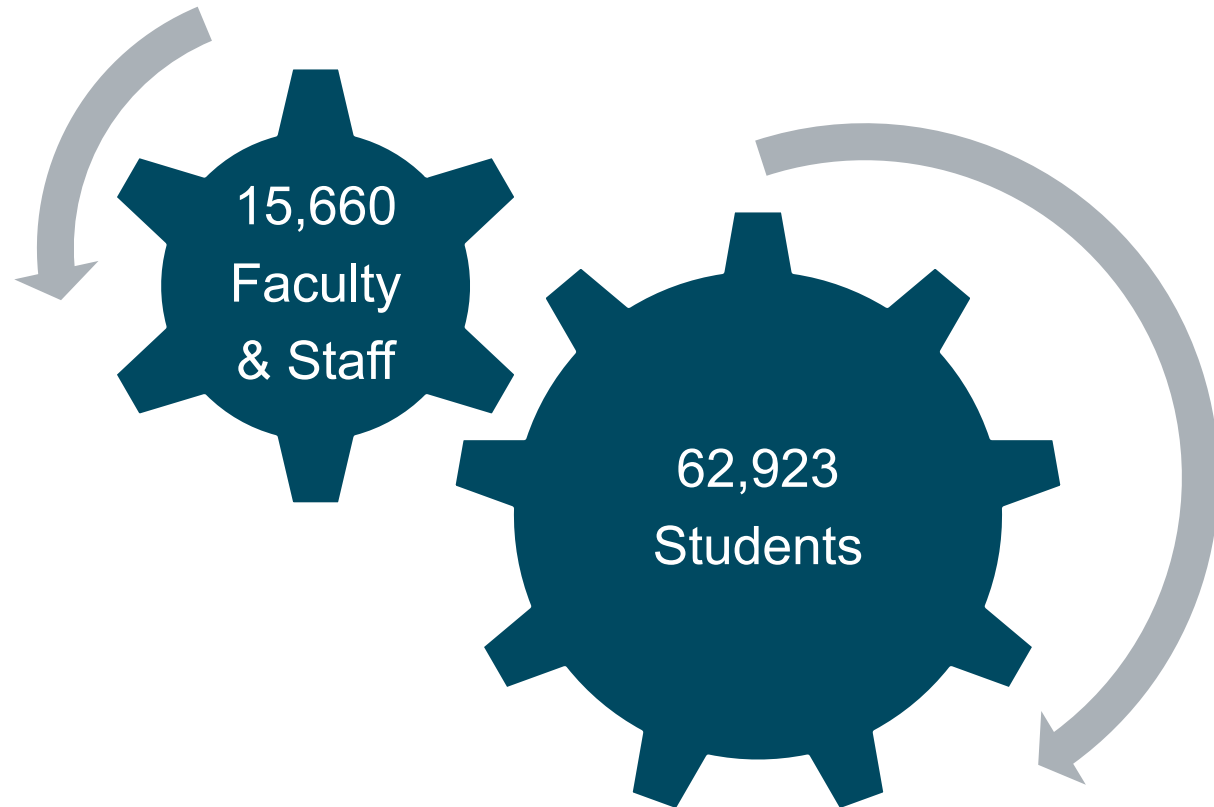
Octavian
Project Manager



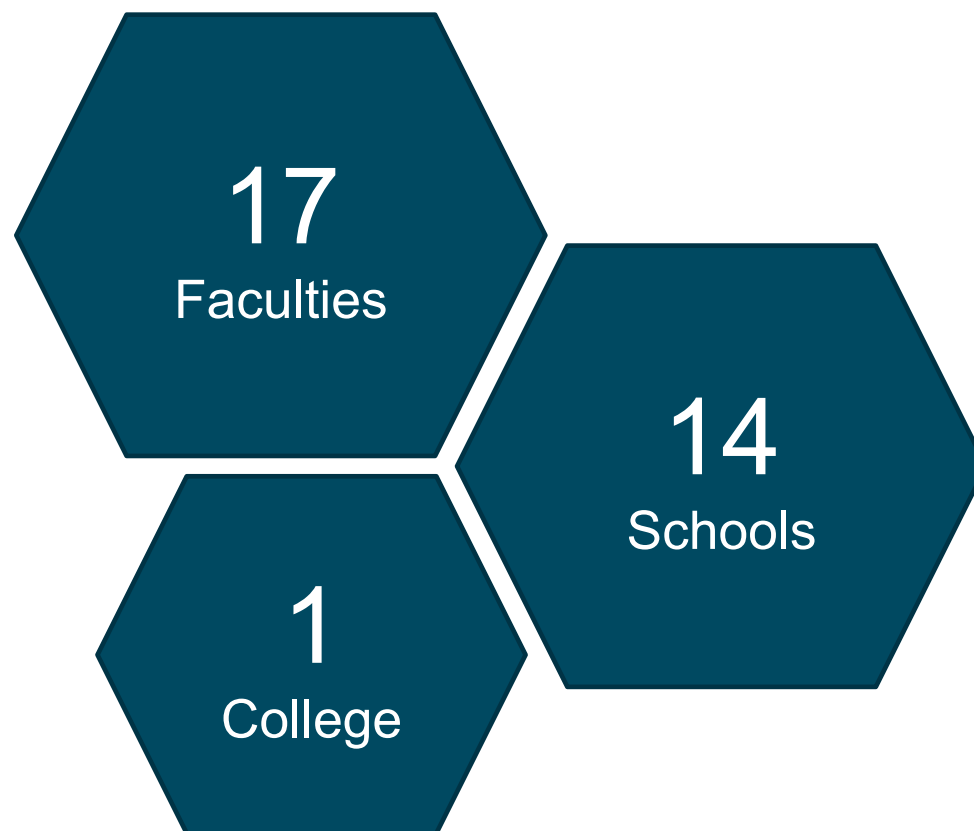
Chris
AV Programming Lead



In 2017, UBC served...



UBC is home to...

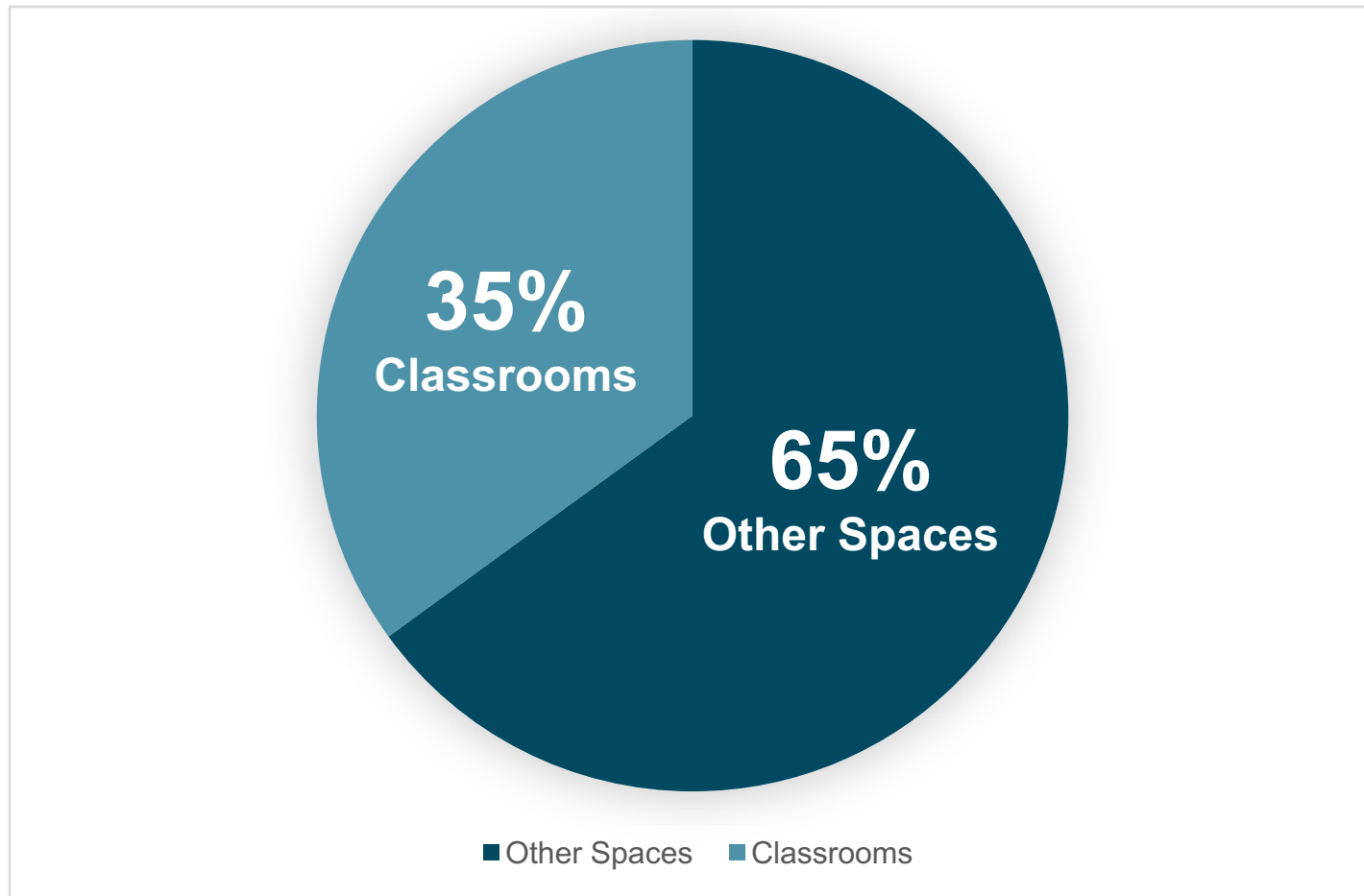


UBC supports...

1000

Technology
Enabled
Spaces

Tech Enabled Spaces consist of...



Before the standardized GUI...

There were

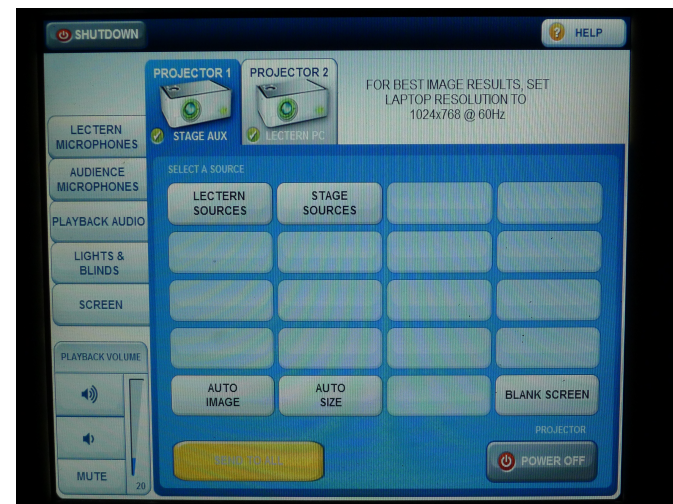
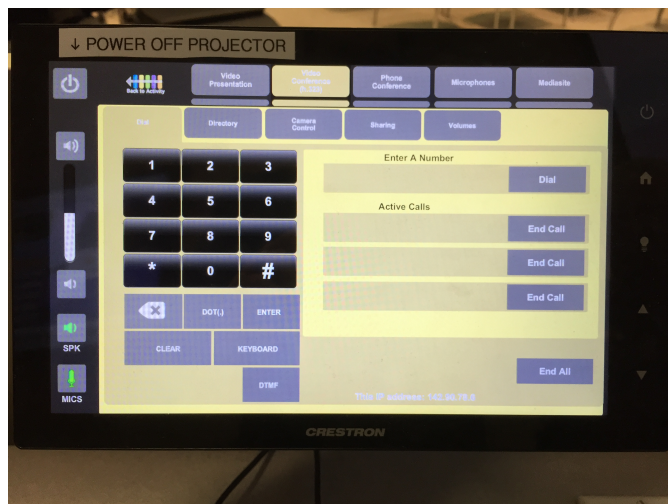
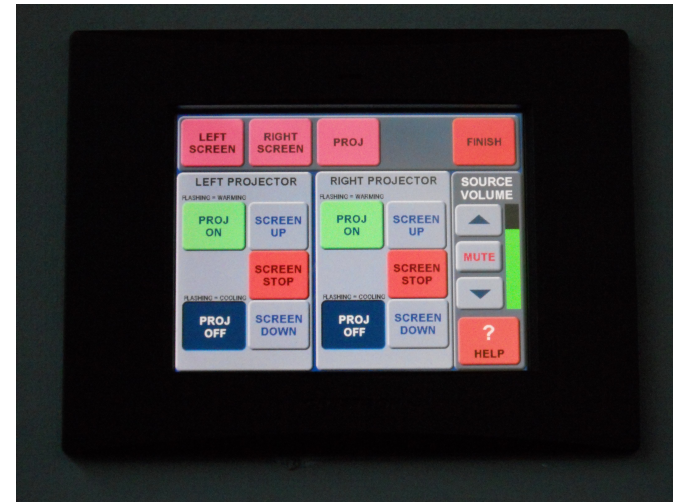


10+

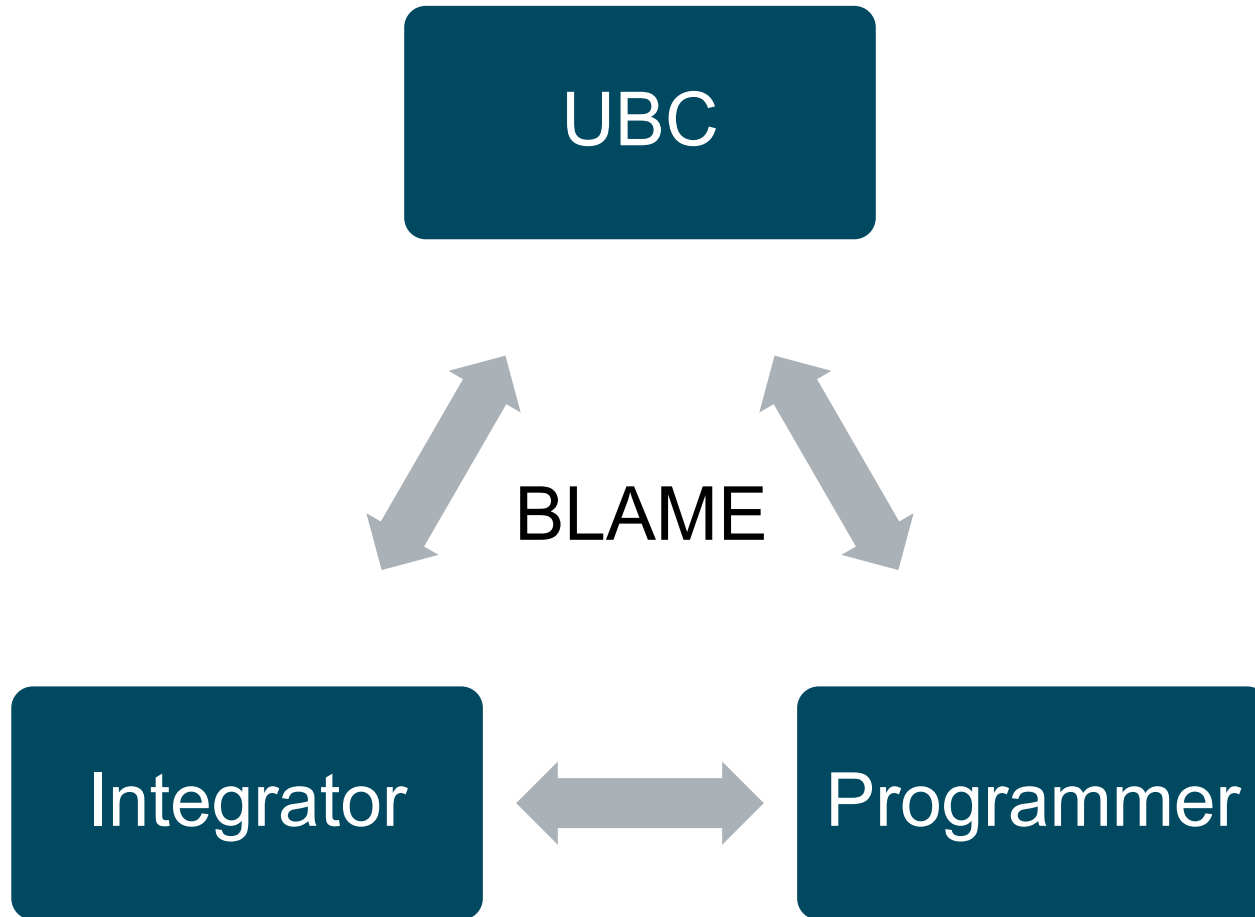
different GUIs at

Point Grey Campus

Here are some examples...



When the GUI didn't work...



Challenges...

Different looks
between rooms

Inconsistent button
behaviours

Hard to learn

Slow to fix

Difficult to
maintain/support

Frustrated users

So we set out to address it...

A common look and feel throughout UBC

Easy to use

Consistent GUI behavior

Works in any of the 1000 technology enabled spaces

Easy to maintain and support

A Common Look and Feel

- Single UBC Theme File

 - Official brand colours

 - Official font

 - Easy to update when UBC's brand refreshes

- Dynamic background

 - Changeable anytime for special events

Ease of Use - Users

Students

Faculty

Administrative Staff

Event Staff

AV Staff



Ease of Use - Tasks

General Room Related Tasks (Always available)

- Making an announcement

- Adjusting lights/shades

Presentation Related Tasks

- Presenting Locally

Conference Tasks

- Meeting Remotely

- Sharing Content

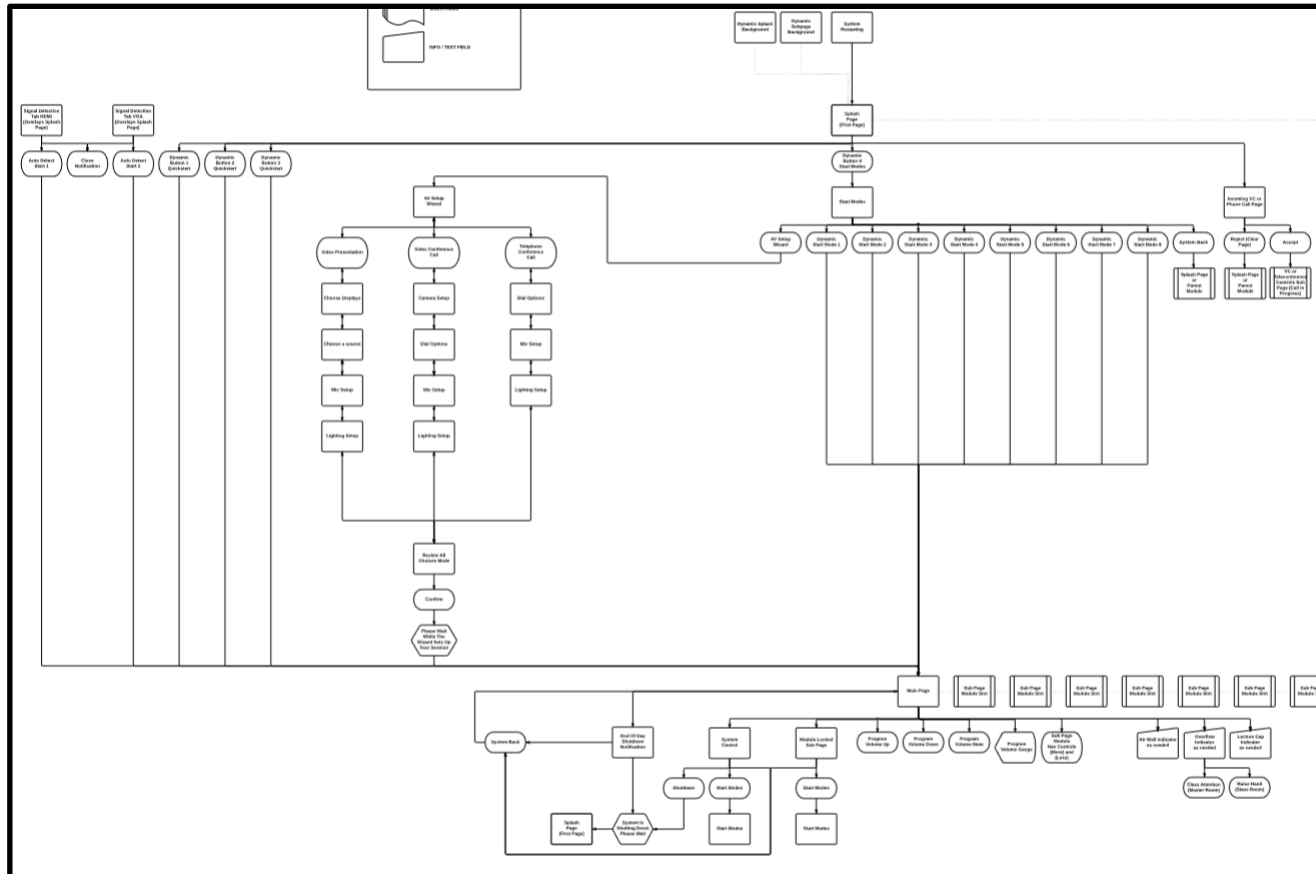
Hierarchy and Flow



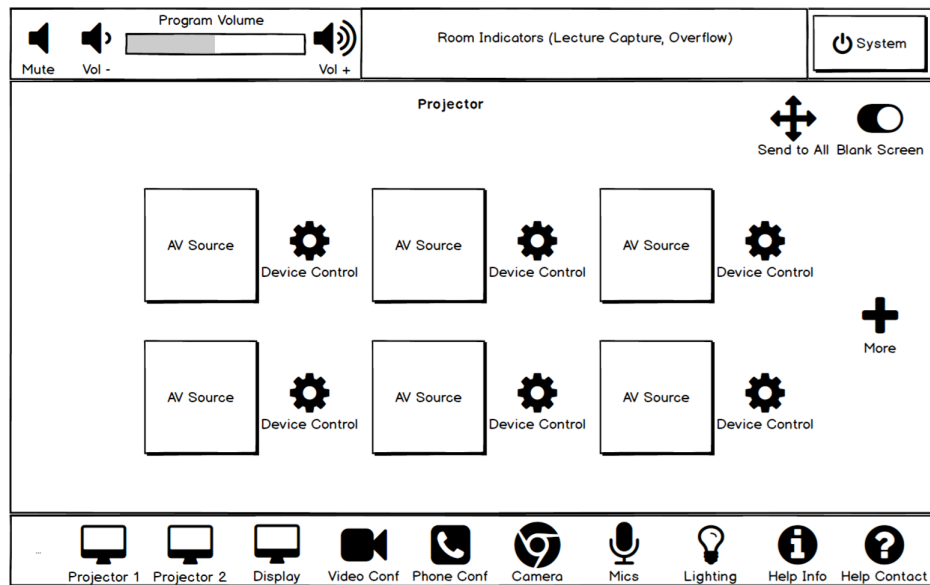
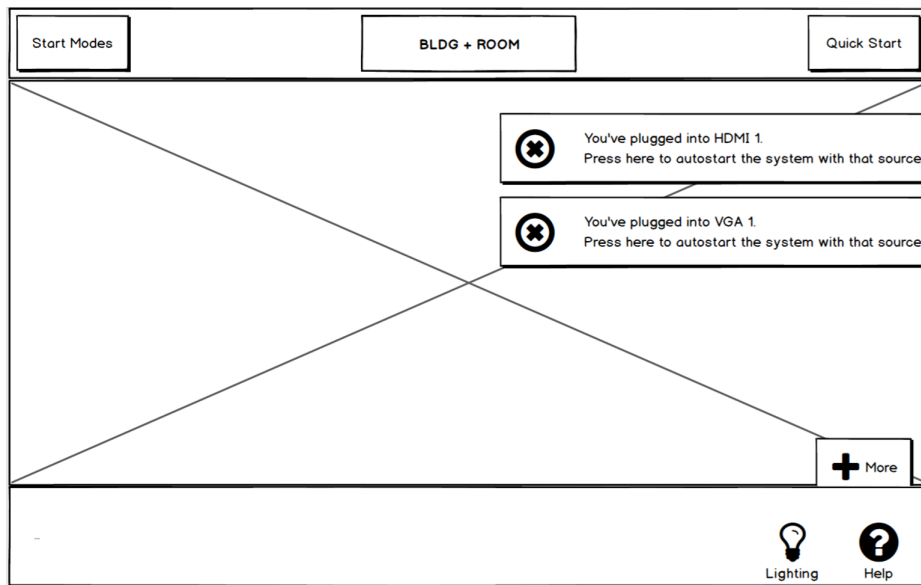
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Presses or less to:

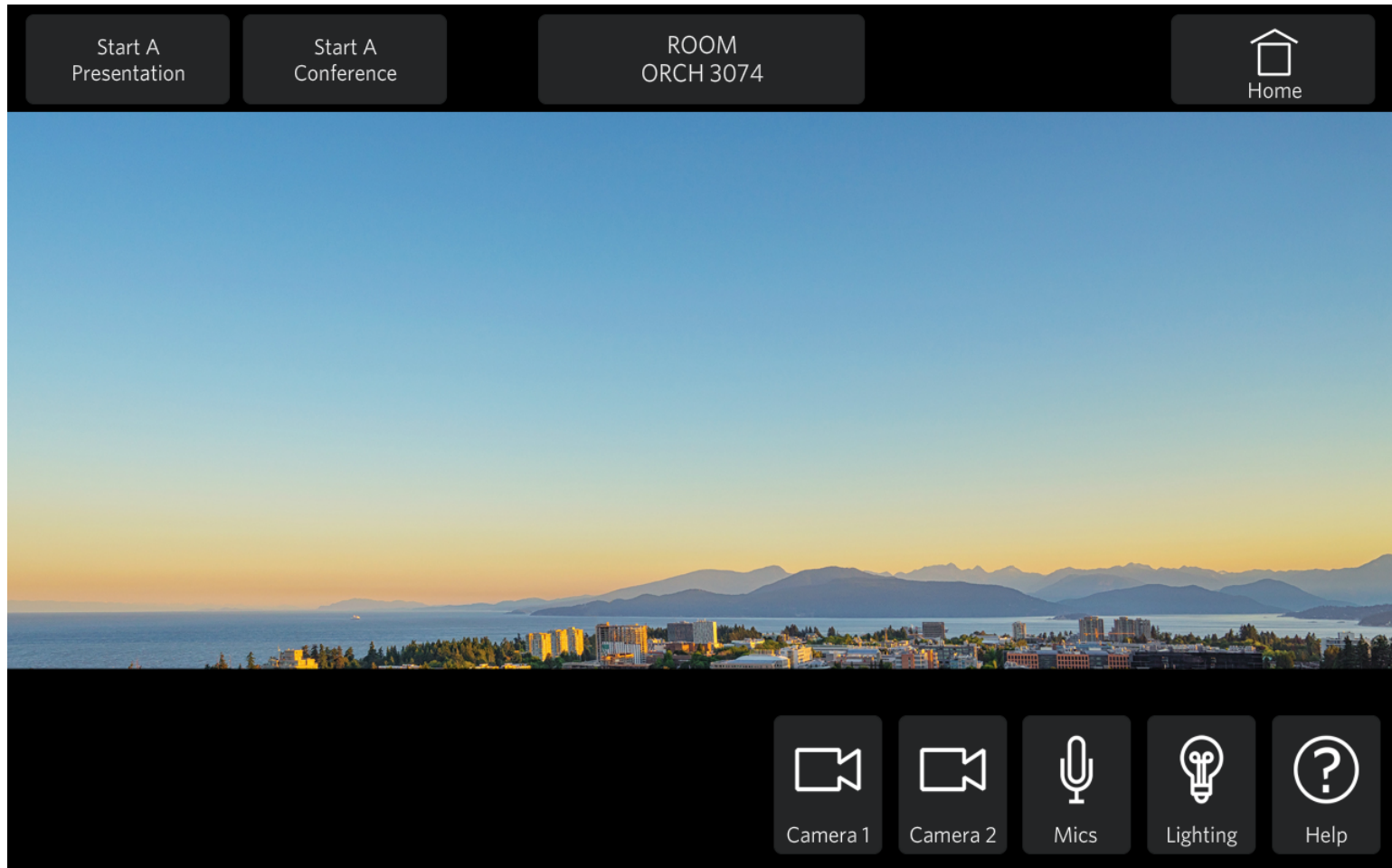
- Start Presenting (On all displays)
- Start Conferencing (Pre-dialing)
- Make an announcement
- Adjust shades/blinds
- Turn lights on/off



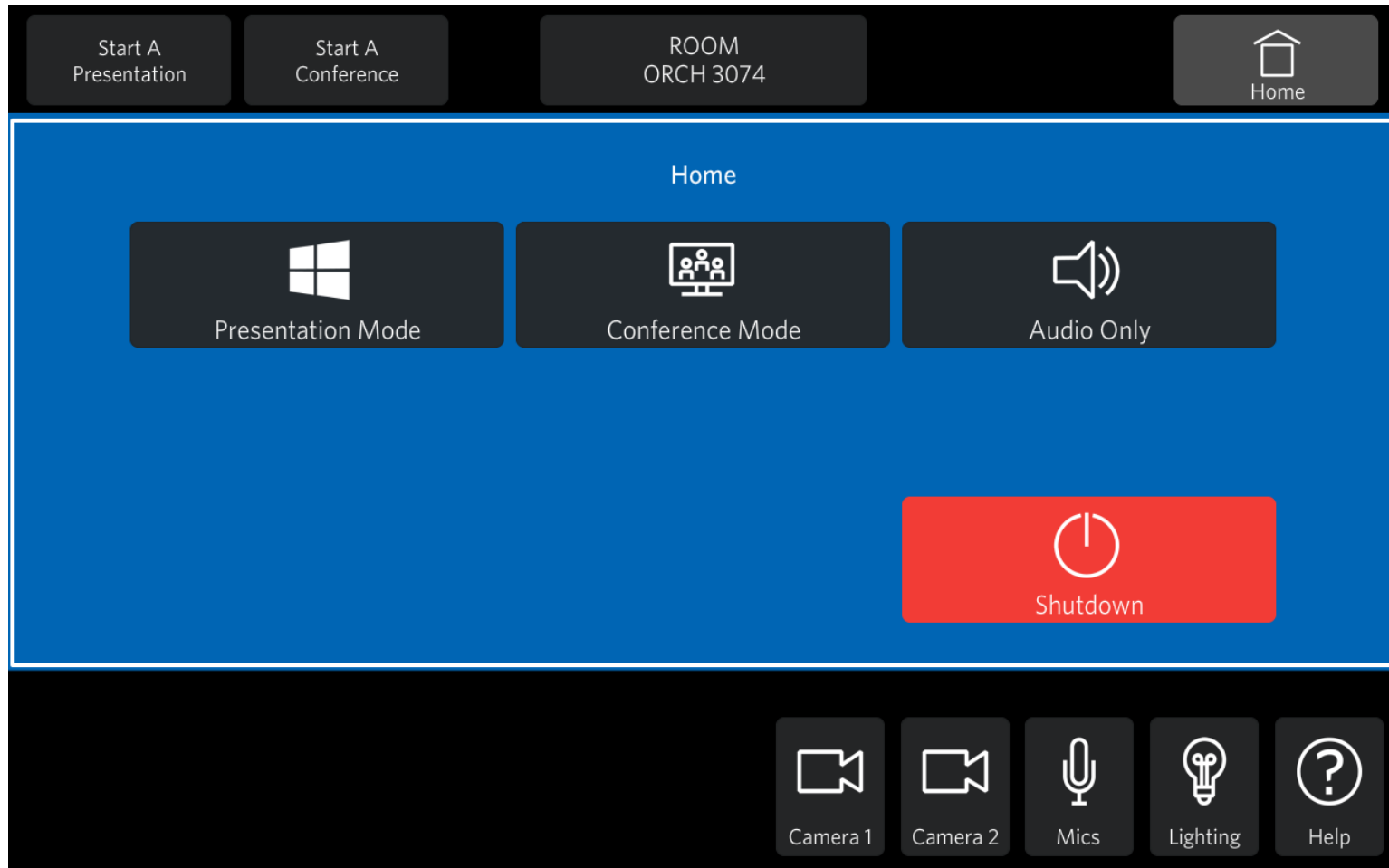
Make A Plan



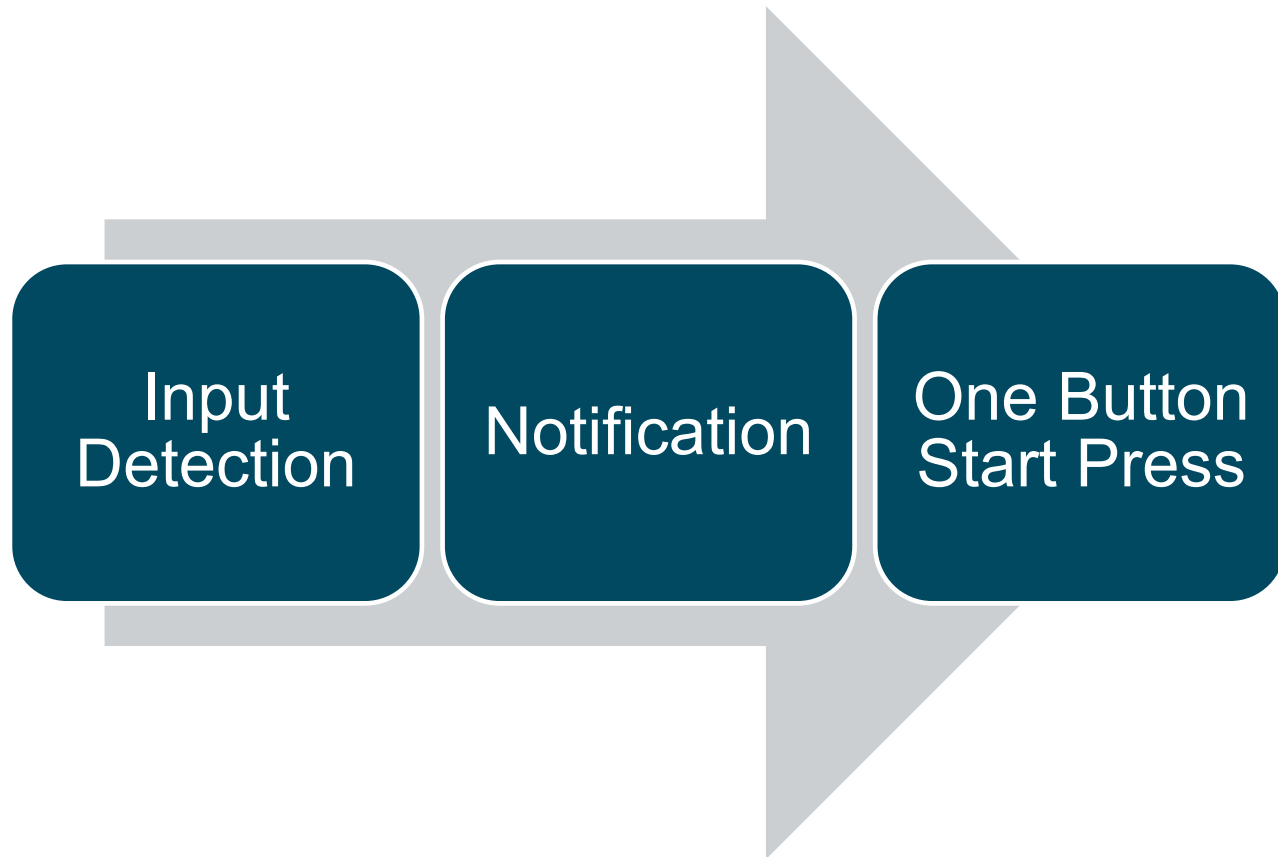
Starting Page



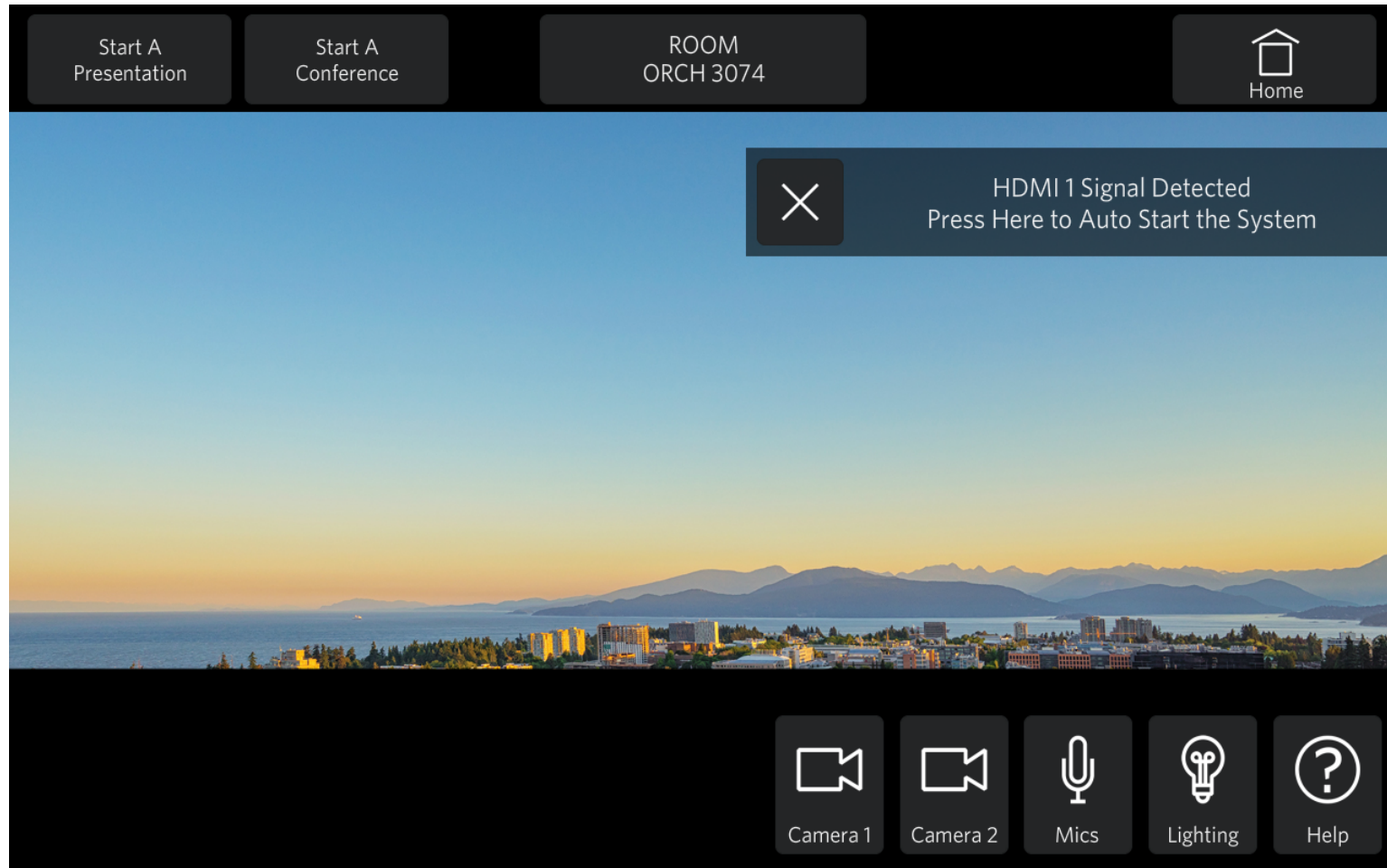
Modes Example



One Button Start



One Button Start Example



Ordering Sources

Standardized order for sources



Naming Conventions

New GUI Name (Full Name)	New GUI Name (Abbreviated)	Module/Navigation Bar
Floor Plate / Input	Floor Plate	Floor Plt
AirMedia	AirMedia	AirMedia
ClickShare	Click Share	ClkShare
Document Camera	Doc Cam	Doc Cam
Camera	Camera	Camera
Presenter Camera	Camera 1	Camera 1
Room Camera	Camera 2	Camera 2

Icons and Text Labels



Standardized icons

Use of only approved wording for all pages

“This room has a scheduled recording ongoing. Manual controls have been disabled until it has completed.”

Crestron Fusion

All graphics files located on Fusion server

Jointly used by all touchpanels

Easy to update look and feel

Consistent Behaviour

Standards documentation

Programming modules for all pages

- GUI elements

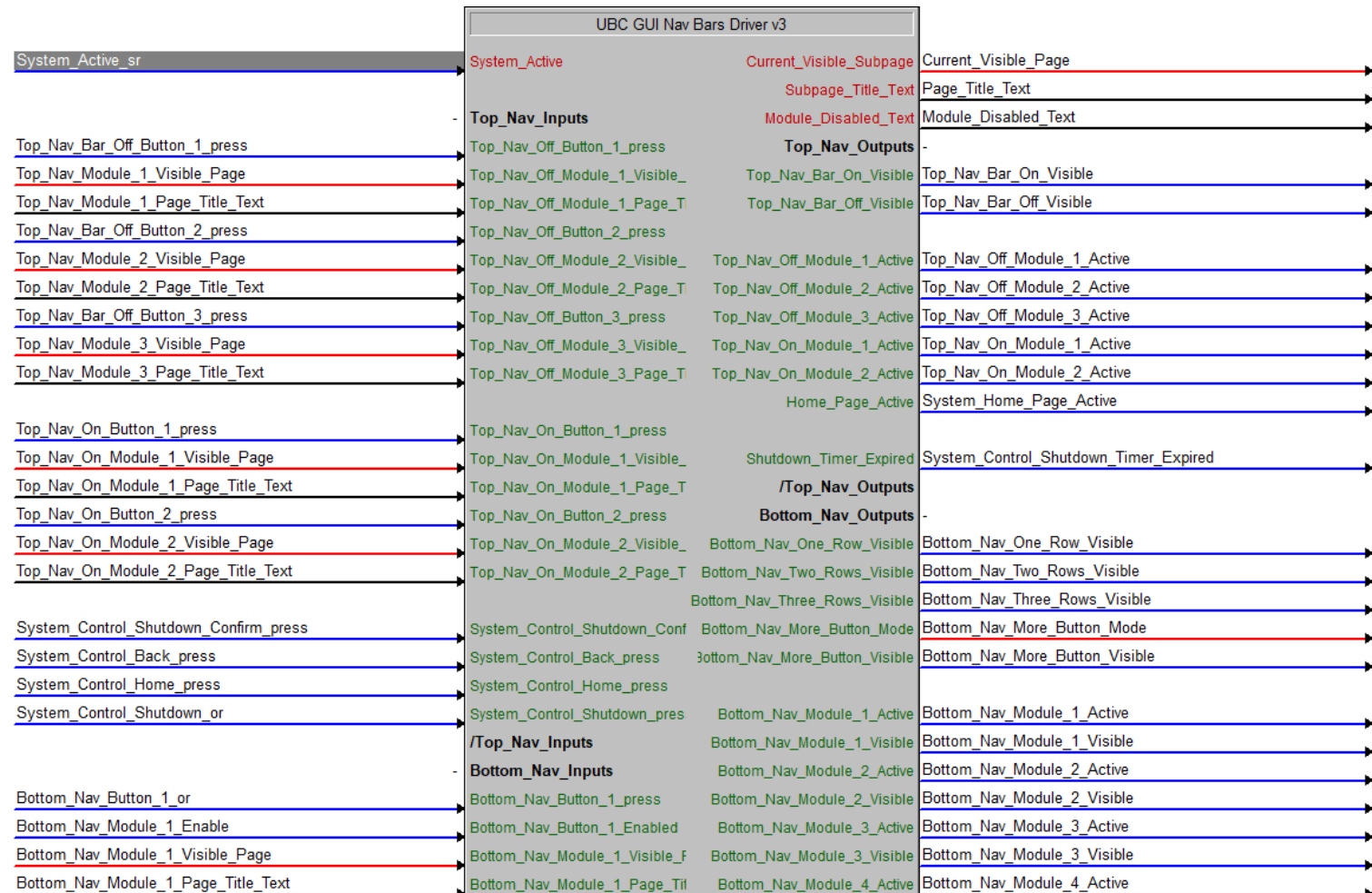
- Lighting

- Microphones

- Projectors

- Etc...

Module Example

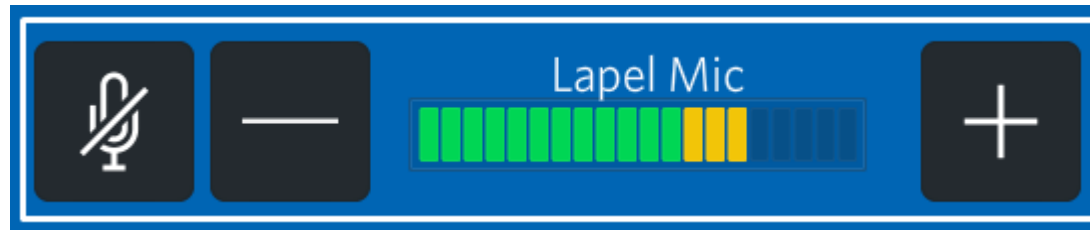


Standardized modules allows...

Same GUI programming across projects

Consistent button behaviour

Predictable user experience



Reusing modules also means...



30%

Less programming time needed per room

Works Everywhere

Modular structure allows easy scaling up

Handles any room of any size and any complexity at UBC

Some theoretical limits to the design are:

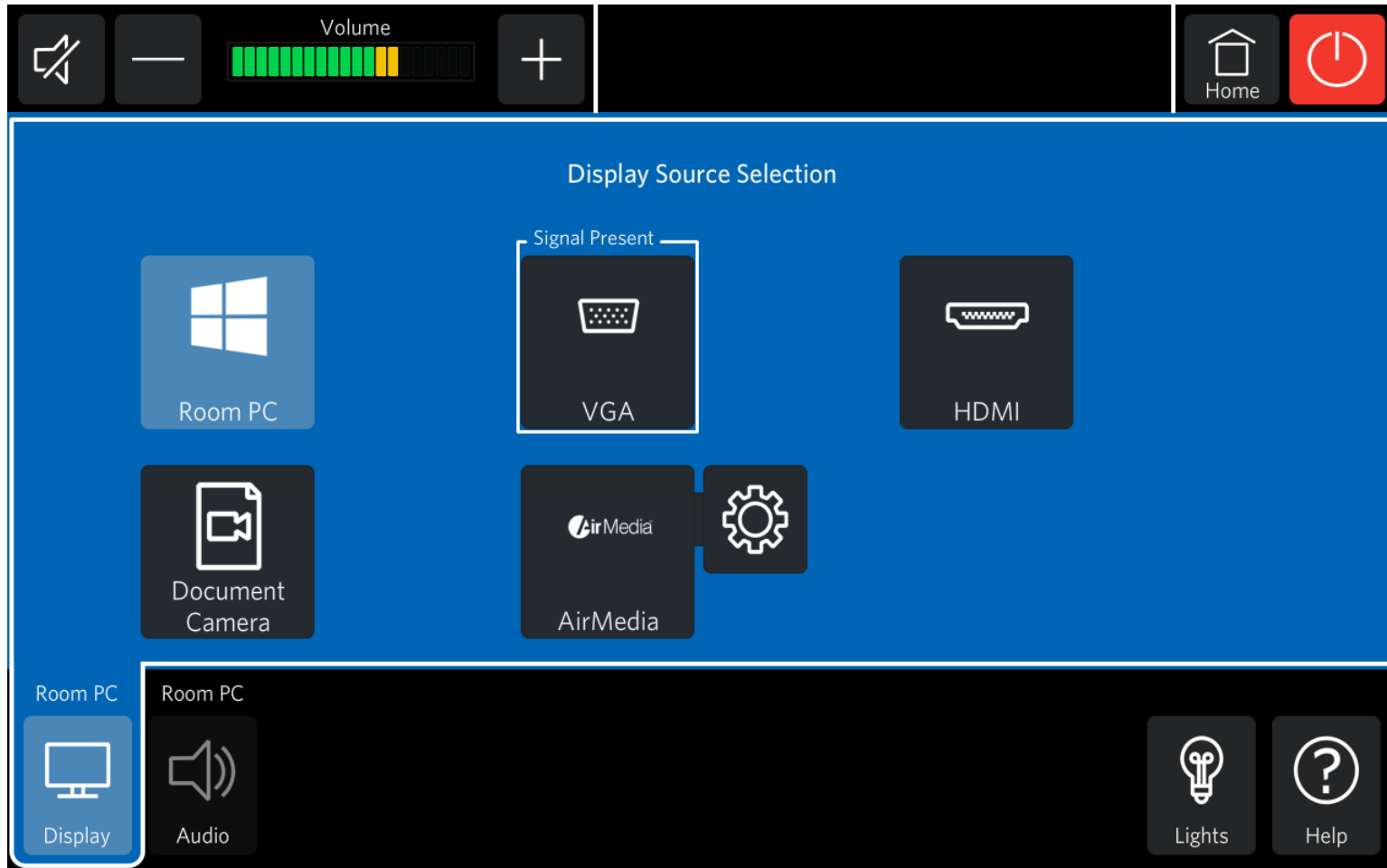
- 30 Projectors

- Unlimited Microphones

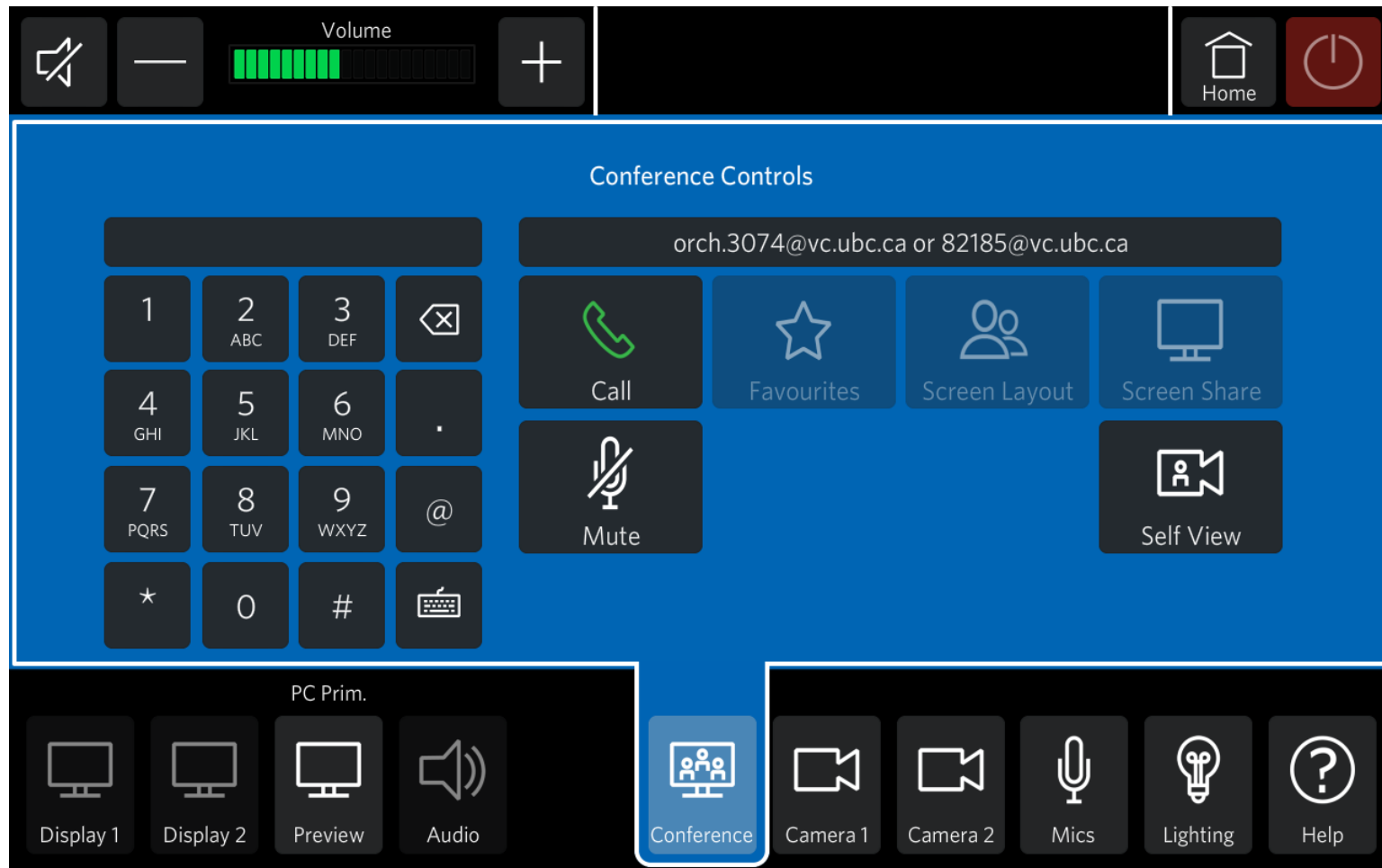
- Unlimited AV Sources

- Unlimited Lightning Zones

Presentation Example



Conference Example



Support and Maintain

AV Support Staff need to know only 1 GUI

Change settings to control any room remotely

Eliminates need to troubleshoot GUI during service calls

Easy to train and support users

How did we get here?

Agile approach

Frequent delivery of a working product/software

Collaboration between the business stakeholders and developers throughout the project

Simplicity

Flexibility to avoid delays when a requirement or feature request changes

Continuous improvement

Thank You

