



BACKGROUND

The National Highway Institute (NHI), part of the Federal Highway Administration, partnered with Productive AV to build a new, state-of-the-art national training facility in Vienna, VA. The goal: modernize how training is delivered by enabling high-quality, scalable hybrid and digital learning.

OBJECTIVE

Create a flexible, easy-to-use training and production environment that delivers:

- Broadcast-quality remote learning with live audience
- Professional-grade content creation
- Seamless content routing across spaces at national headquarters
- Simple operation of audio-visual systems for instructors and guest speakers

TECHNOLOGY-AT-A-GLANCE

- **Ross** Video Broadcast System
- **GrandMA** Lighting Control
- **Panasonic** 4K Studio Cameras & Lumens PTZ Cameras
- **Shure** Microphones
- **Yamaha** Audio Console
- **Crestron** Touchscreen Controls
- **Cisco** Webex Collaboration Systems
- **AJA** Video Routing System
- **Planar** UHD Displays

SOLUTION

Productive AV delivered a fully integrated, facility-wide AV system designed for performance and ease of use:

- **Professional Production Studios:** Robotic and manned 4K cameras, green screens, advanced lighting, and telepromoters to support high-quality content creation and confident on-camera delivery
- **Hybrid Training Rooms:** Two large classrooms equipped for streaming, recording, and teleconferencing, with PTZ cameras and large-format displays for clear, engaging instruction
- **Centralized Video Routing:** Enterprise-grade routing connects training rooms, production suites, and meeting spaces—enabling content to be created, reviewed, and distributed seamlessly
- **Intuitive Controls:** Touchscreen presets provide a “set-it-and-forget-it” experience so instructors can focus on teaching

The result is a cohesive, high-performance environment that supports simultaneous workflows, increases productivity, and enables NHI to deliver consistent, high-quality training across formats.



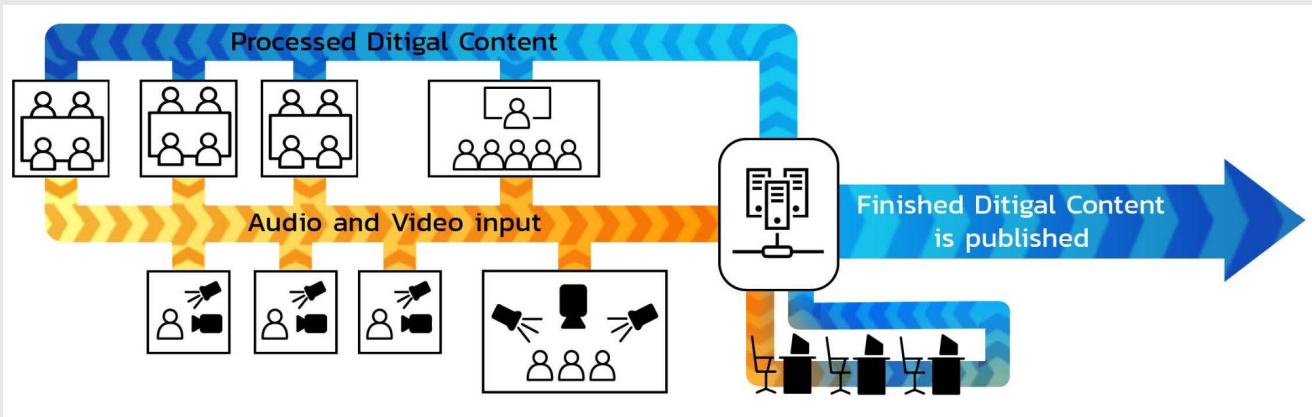
Production Studio

Professional-grade tools enable NHI to create high-quality content that can be reused and scaled.



Training Room

Hybrid-ready classrooms support seamless in-person and remote instruction—expanding reach without adding complexity.



Control Interface

Simple presets streamline operation, allowing instructors to focus on delivering training—not managing technology.