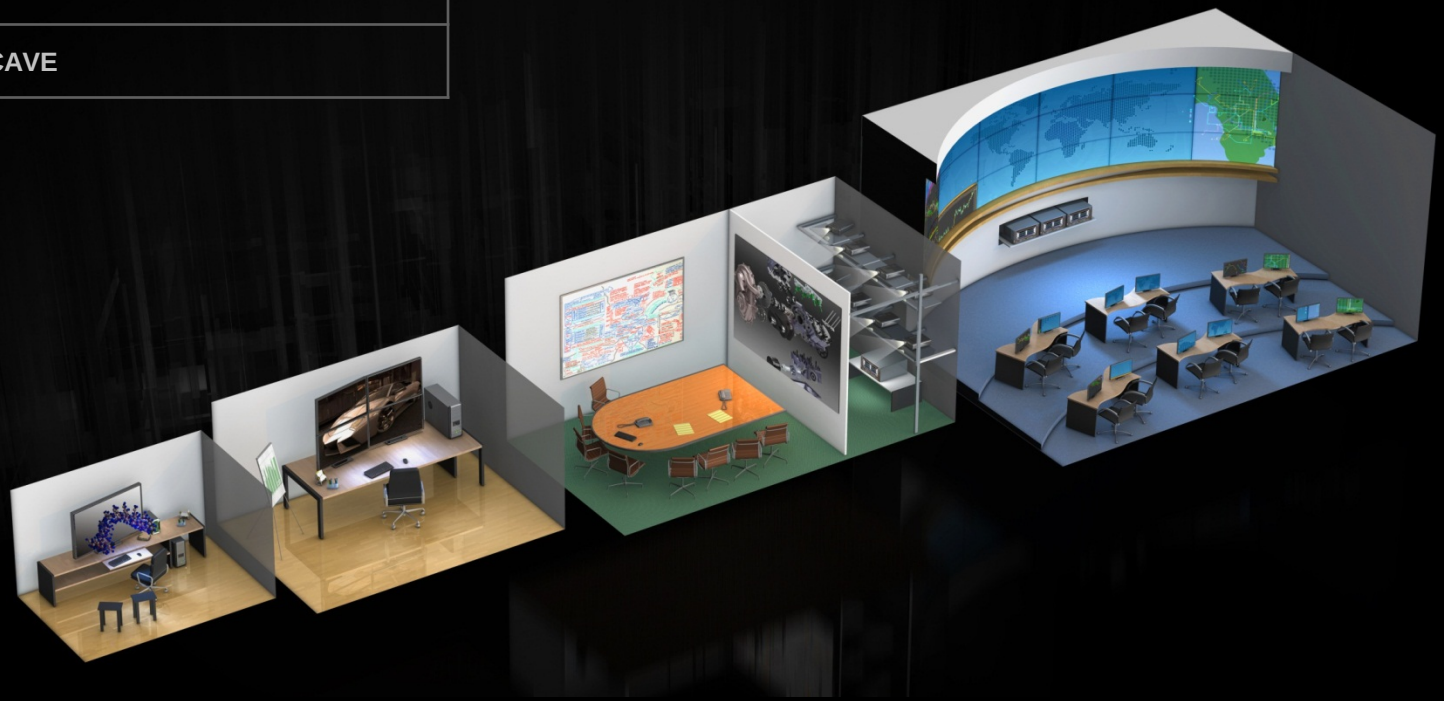
NVIDIA Scalable Visualization Solutions

See The Big Picture

NVIDIA Scalable Visualization Solutions

See the big picture

▪	Multi-display or projector
▪	4K panel or projector
▪	Digital signage
▪	Power Walls
▪	CAVE



NVIDIA Mosaic Multi-Display Technology

- Unified desktop
- Seamless image
- Up to 8 displays or projectors
- Professional performance and features

Image courtesy of Barco

Multi-Display Financial Trader Desktop

Viewing more data drives better decisions

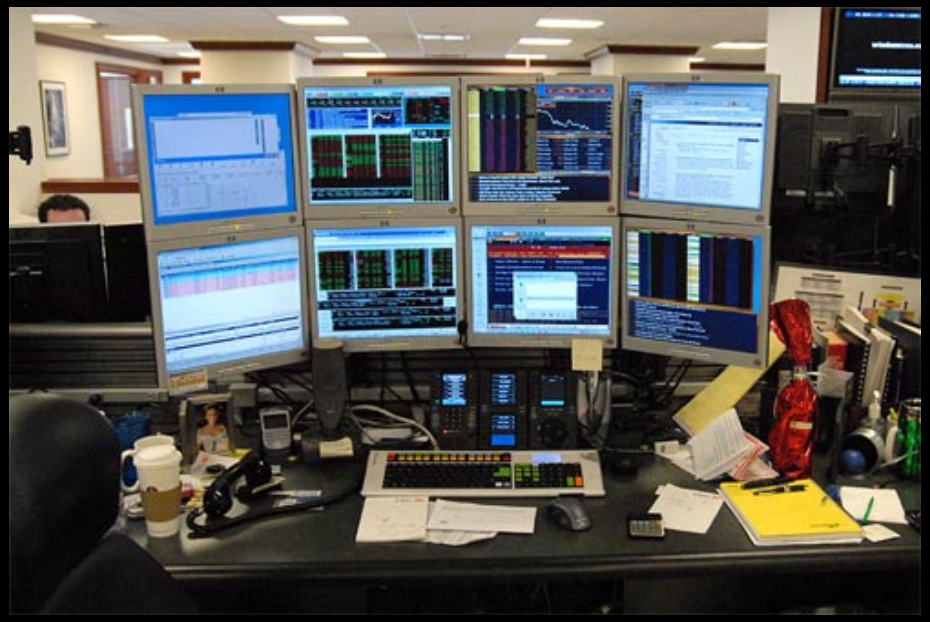


Image courtesy of Barco

Multi-Display Desktop

See everything in context

Image courtesy of Barco

Ultra High Resolution 4K Displays

See the details in the big picture

▪	4k panels provide a high resolution surface
▪	Previously obscured detail now easily visible

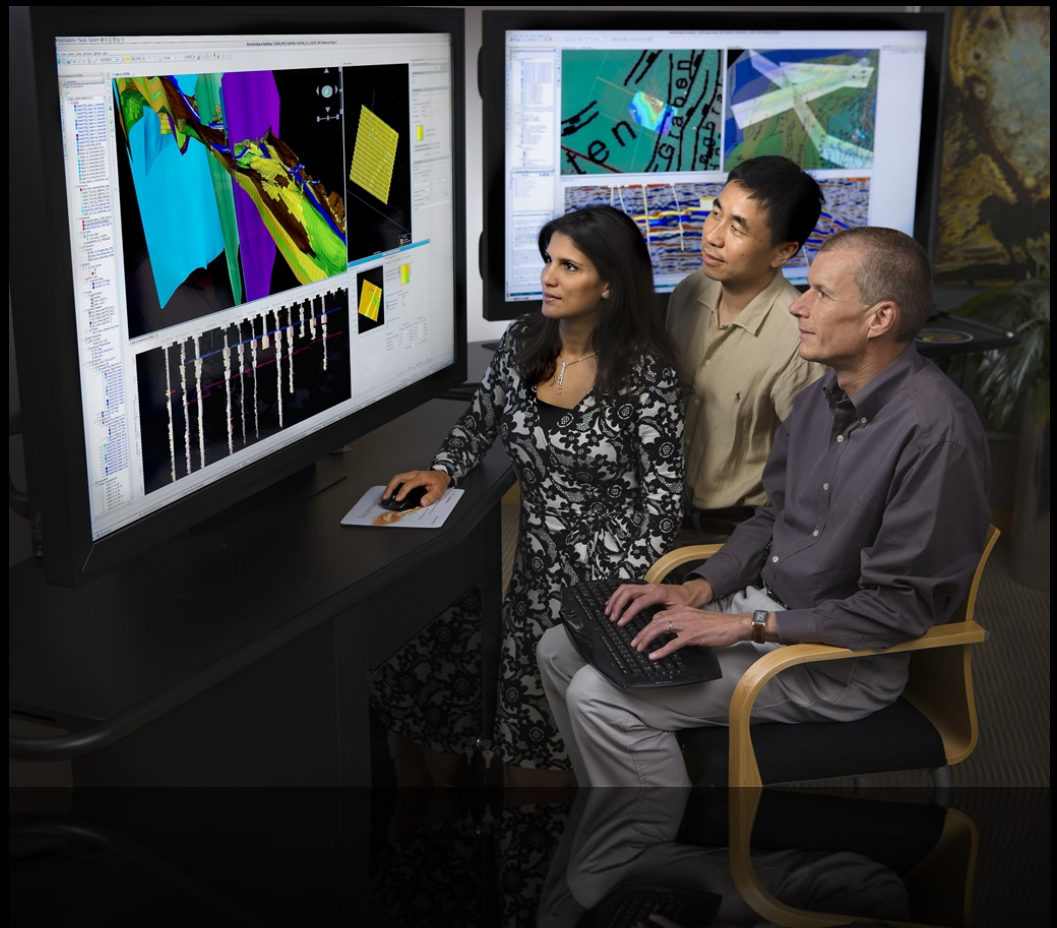


Image courtesy of Barco

High Resolution Stereoscopic 3D Display

Expansive and immersive environment

▪	NVIDIA Quadro Mosaic technology
▪	NVIDIA 3D Vision Pro RF hub and glasses

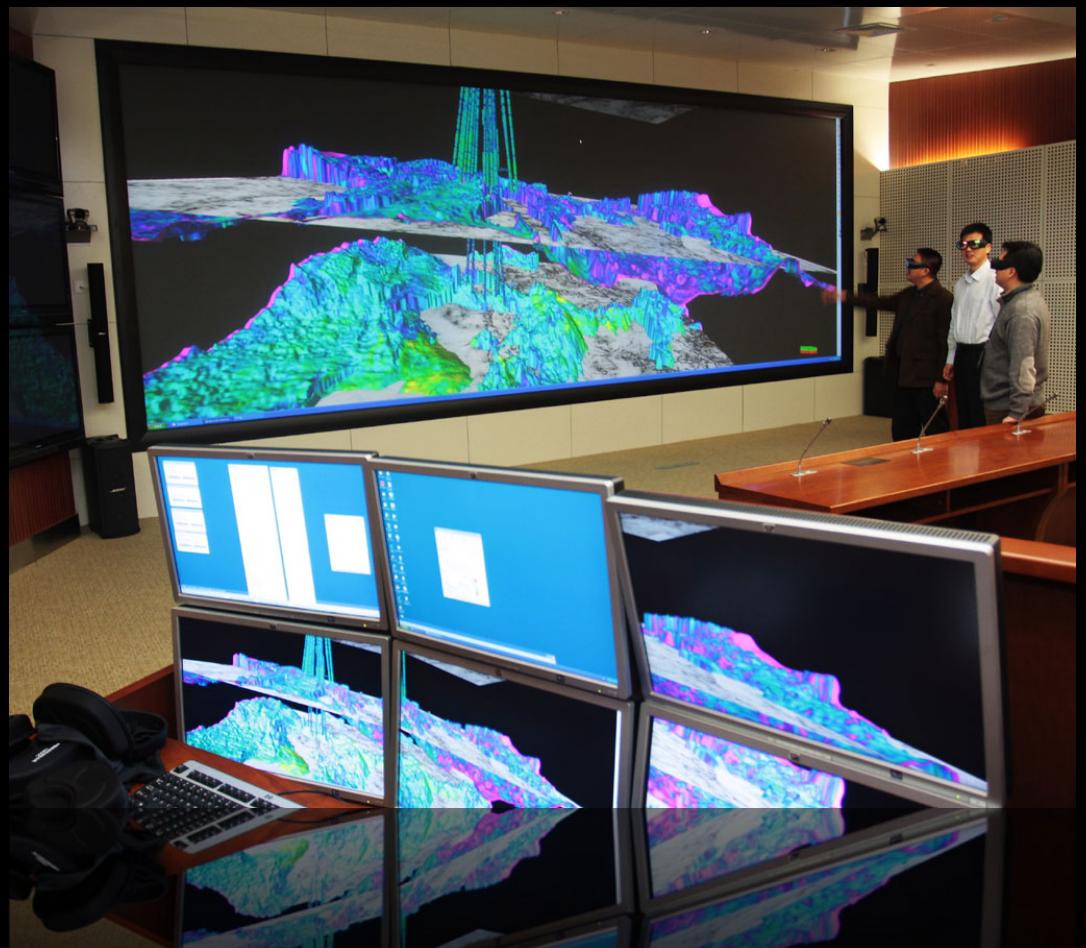


Image courtesy of Barco

Mosaic Technology Makes It Possible

Images courtesy of Barco

NVIDIA Mosaic Technology

Single unified desktop

✗ **Without Mosaic:** 4 Independent Displays

✓ **With Mosaic:** Single Unified Desktop and Taskbar

Mosaic Features

Available with NVIDIA Quadro and NVS products

▪	Easy configuration
▪	Unified desktop with up to 8 display devices*
▪	Application spanning
▪	Taskbar spanning
▪	Bezel correction
▪	Windows 7 support

* All displays require matching timings and resolution

Quadro Plex Mosaic Features

	Quadro Plex 7000
Maximum Number of Displays	8
Maximum Number of Seamless Displays	8
Maximum Mosaic Resolution	16k x 16k
Application and Taskbar Spanning	Yes
Stereoscopic 3D	Active and Passive
Windows 7	Yes
Windows Vista, XP, and Linux	Yes

PNY Multi-GPU Solutions

NVIDIA QUADRO with CUDA

PNY

NVIDIA QUADRO with CUDA

Premium Mosaic Features

Available with NVIDIA Quadro Plex

▪	Seamless display
▪	Projector overlap
▪	Stereo support
▪	Quadro G-Sync support
▪	Windows 7, Vista, XP and Linux OS support

PNY Multi-GPU Solutions

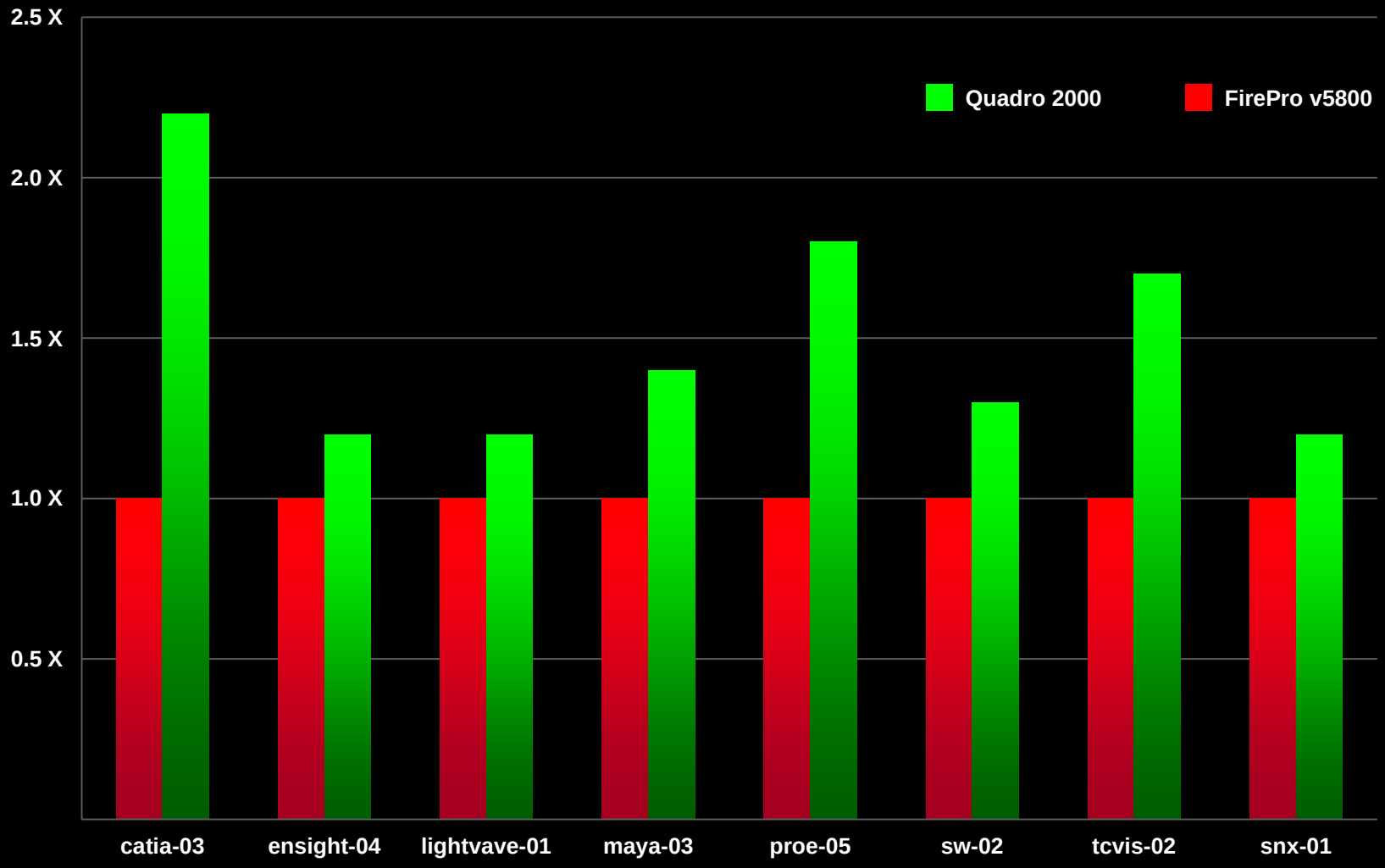
NVIDIA QUADRO with CUDA

PNY

NVIDIA QUADRO with CUDA

Unmatched Quadro Professional Performance

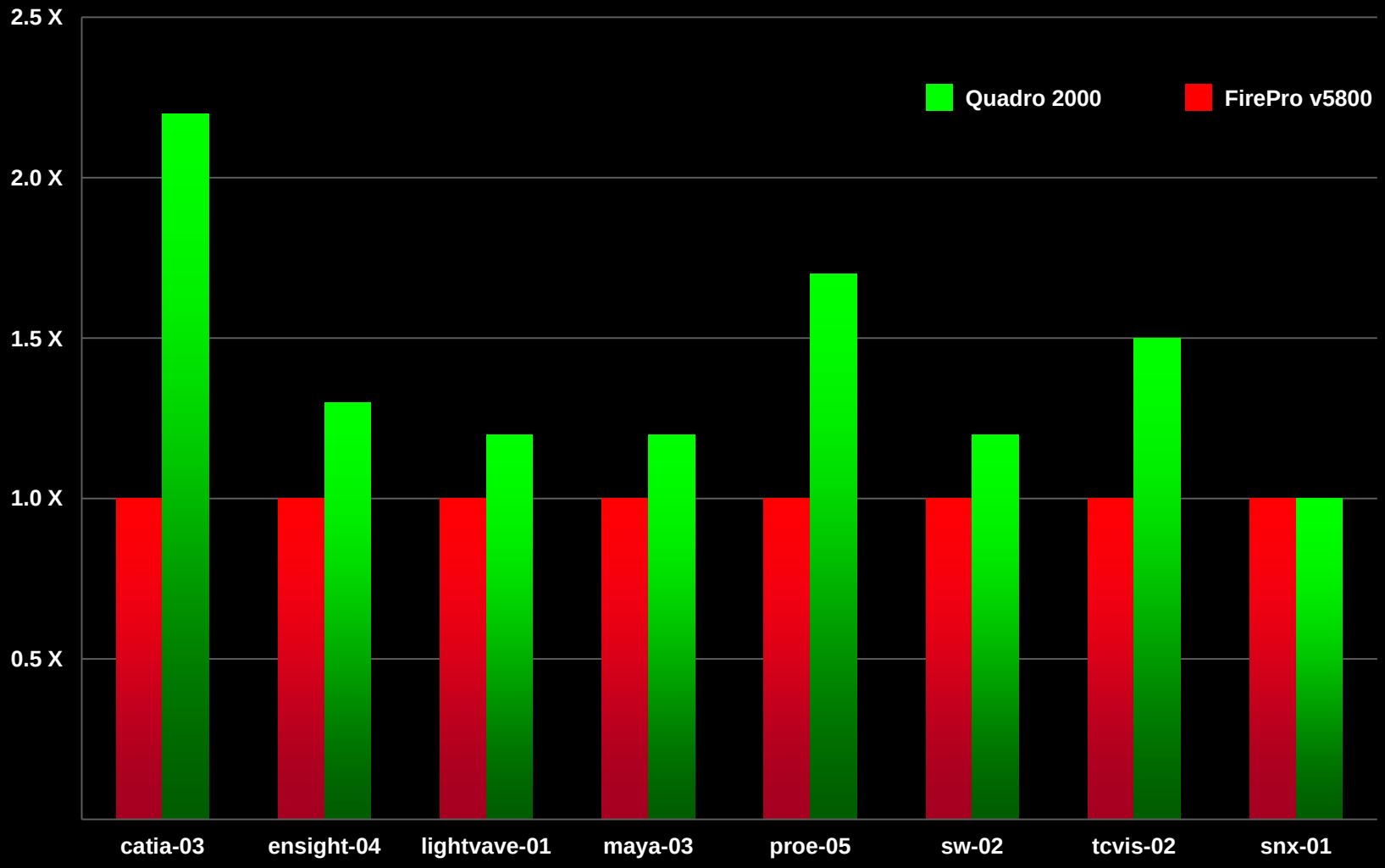
Single display topology



Viewperf 11, Windows 7 64-bit

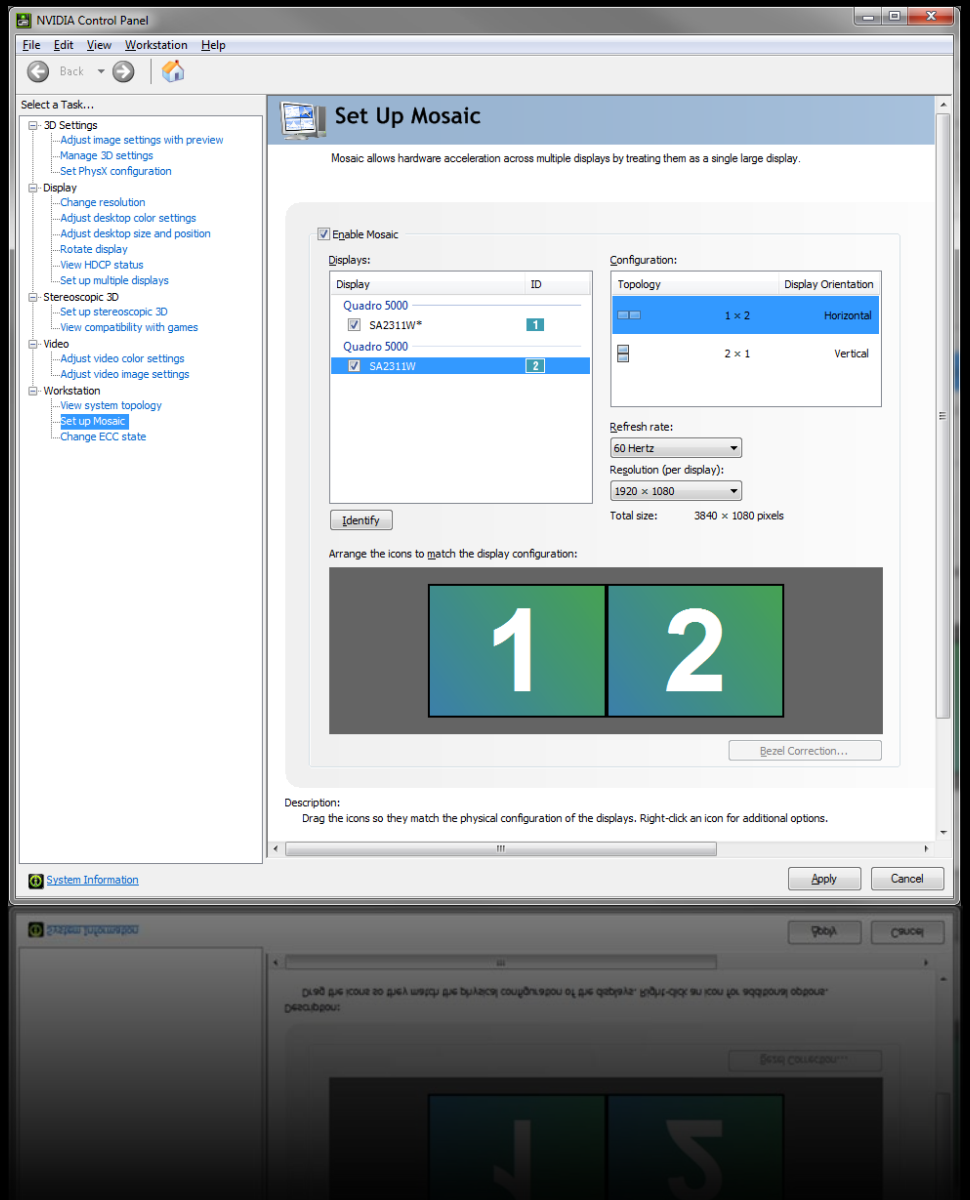
Unmatched Quadro Professional Performance

1 x 3 display topology

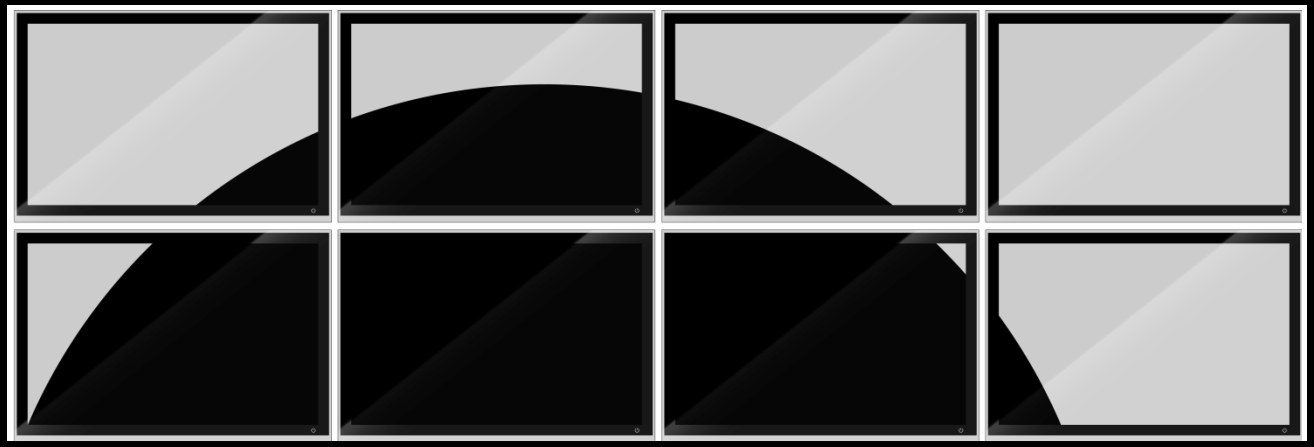


Viewperf 11, Windows 7 64-bit

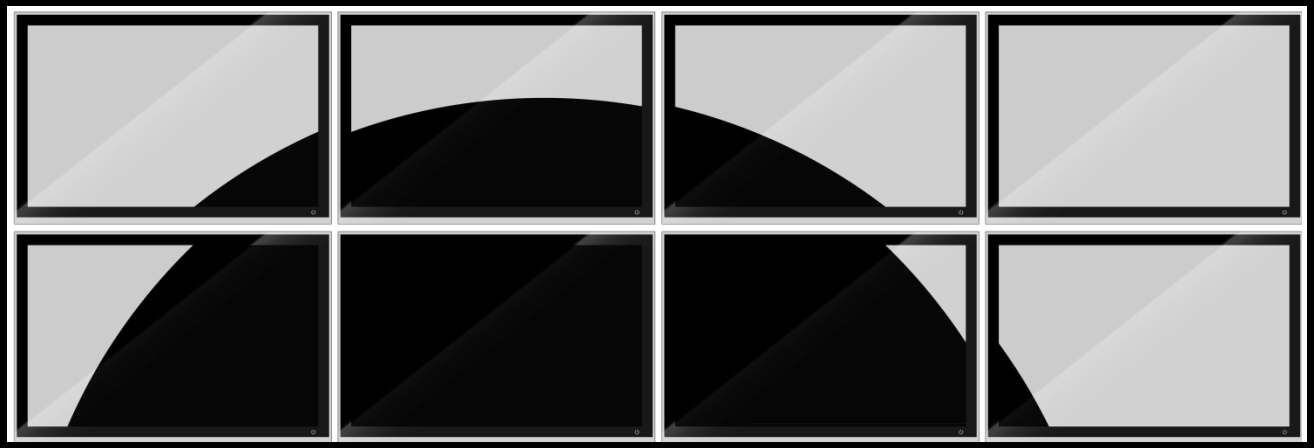
Easy Configuration



Bezel Correction



With Bezel Correction

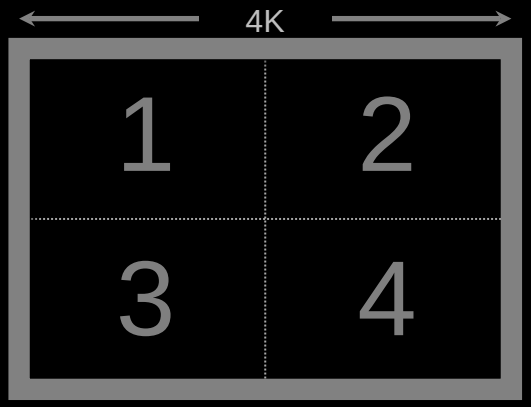


No Bezel Correction

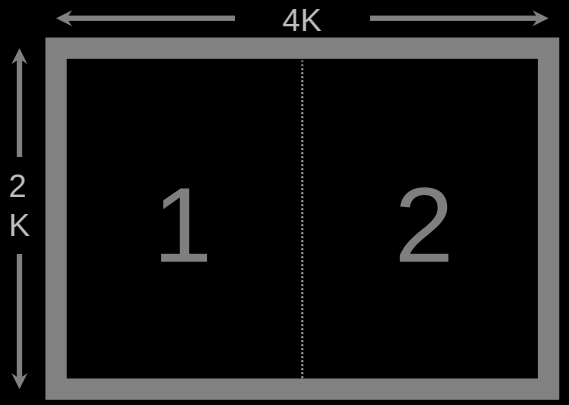
4K Panels and Projectors

▪	2 or 4 channel – Mosaic technology makes 4K easy
▪	Runs any application

Image courtesy of Barco

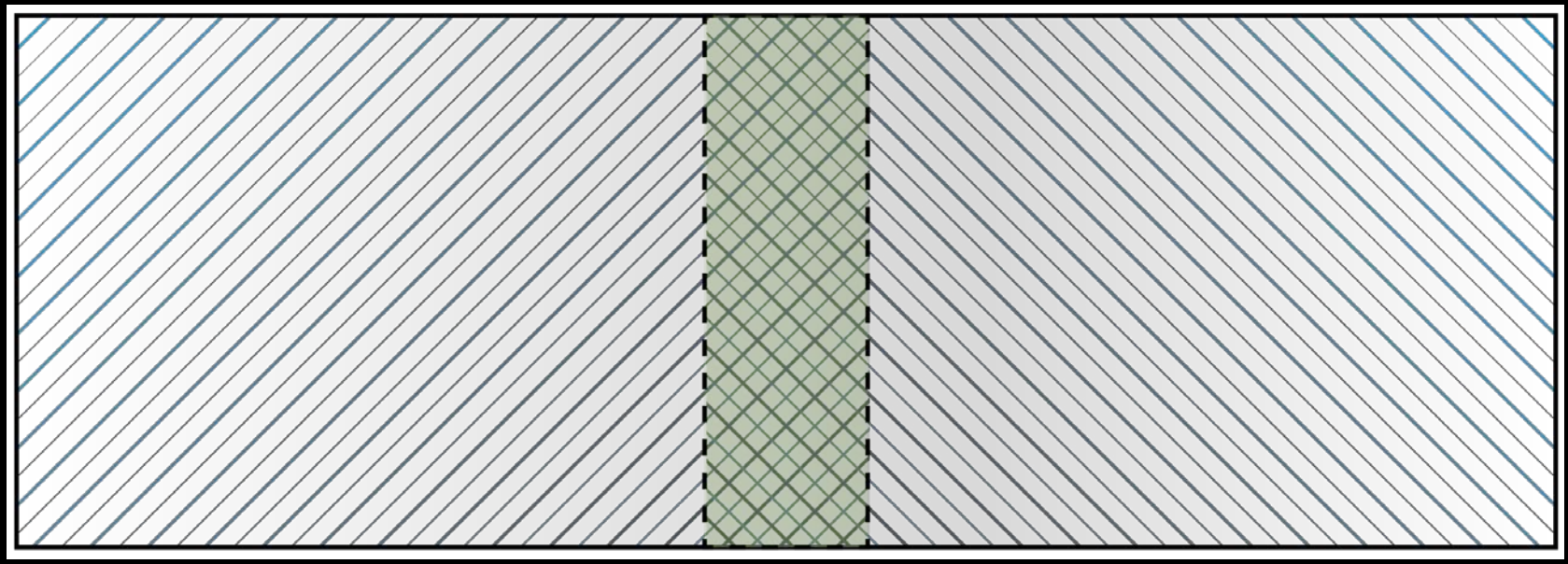


4 channel



2 channel

Projector Overlap



Projector Overlap

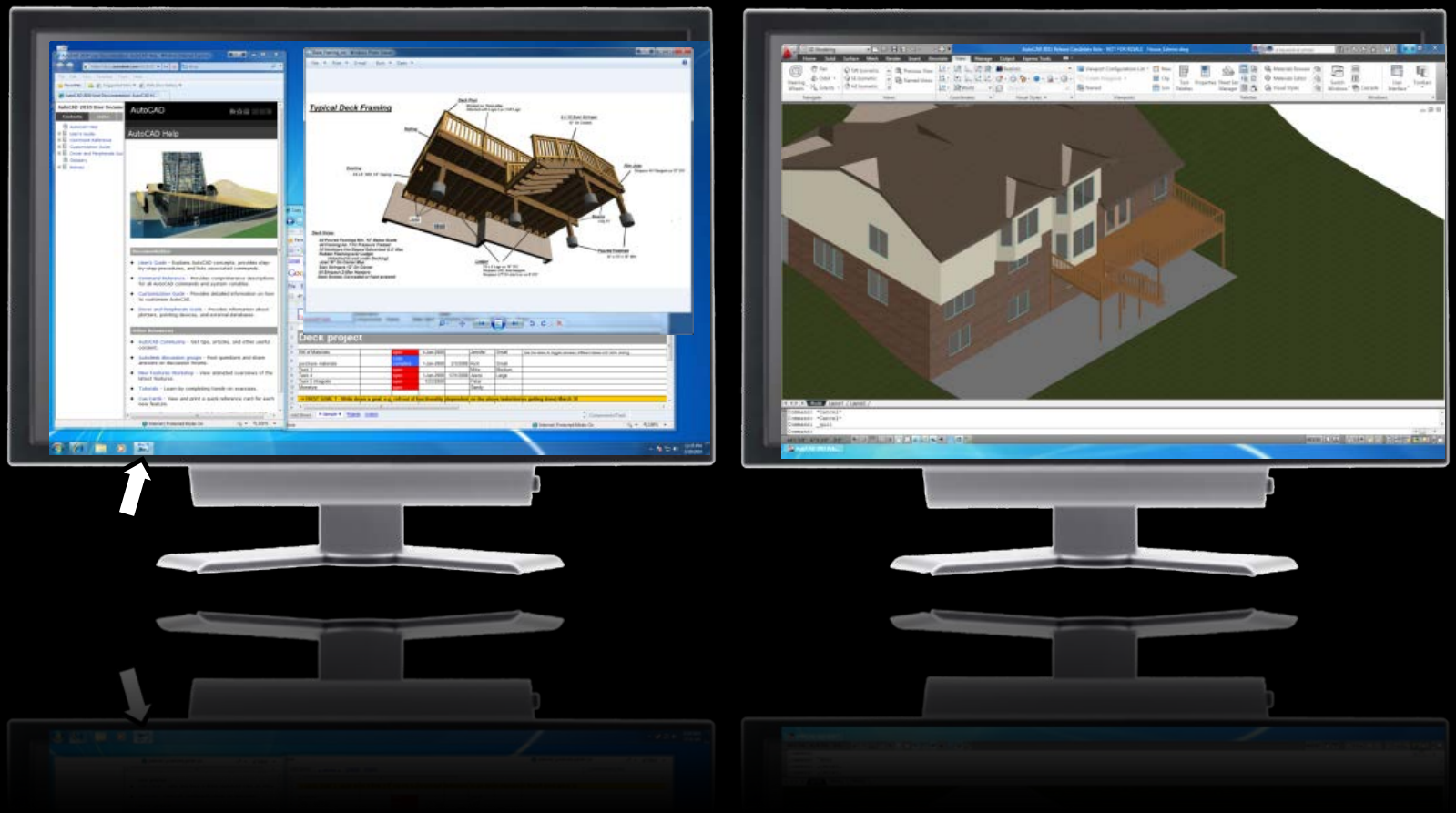
Compensates for geometry and brightness differences between projectors to present a visually seamless image | These are known as Warp (geometry corrections) or Blend (intensity adjustments) | Premium Mosaic Mode Quadro products have the graphics and compute performance necessary to make these adjustments in real-time.

NVIEW Desktop Manager

Easily manage your high-resolution desktop for increased productivity	
▪	Taskbar spanning across multiple displays
▪	Application, window, and dialog box repositioning
▪	Virtual desktops
▪	Display gridlines
▪	NVIEW profiles
▪	Centralized deployment and administration

Better Way to Work: NVIDIA NVIEW

Eliminate clutter by extending the taskbar across multiple displays

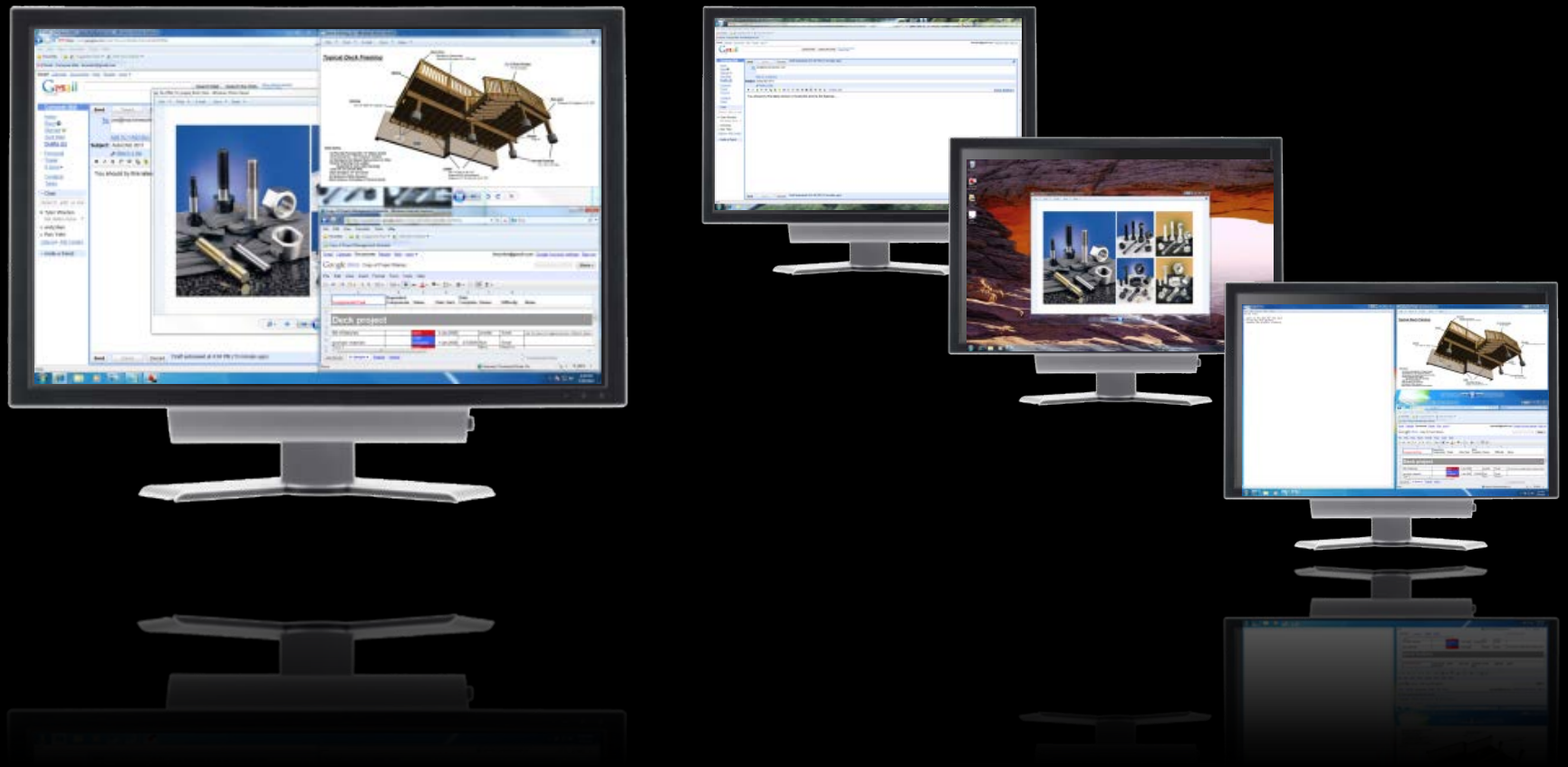


Better Way to Work: NVIDIA NVIEW

Gridlines divide monitors into sub-screens for efficient real estate use

NVIEW Virtual Desktops

Create, customize and switch between different virtual desktops



Stereoscopic 3D Support

3D Vision Pro and Quadro-based Solutions

▪	Active and passive multi-display support
▪	Easy configuration with Premium Mosaic Solutions
▪	Support for all types of 3D displays
▪	3D Vision Pro is the ideal enabler
▪	Up to 100 foot range
▪	Up to 100 users can be supported at the same time

PNY

NVIDIA QUADRO CUDA

Quadro G-Sync Synchronization Solution

Ideal for advanced visualization and collaboration environments

▪	Provides frame lock, genlock and swap lock functionality
▪	Works with Quadro 6000 and 5000
▪	Requires application to be cluster aware
▪	Supports Mosaic Technology clusters

See the Big Picture

In many environments

Images courtesy of Barco

PNY Professional Graphics Solutions

Get the advantage.

Learn More: www.pny.com/quadro

Graphics Solutions by

PNY