

Case Studies

CIVIC SUITE UPGRADE

Two-phase project for upgrades to Audio Visual
and Video Conferencing infrastructure

Cambridge
Cambridgeshire, UK



Introduction

AV UPGRADE FOR LOCAL AUTHORITIES

3C ICT Shared Services is a strategic partnership between Cambridge City Council, Huntingdonshire District Council and South Cambridgeshire District Council. Two-phase project for upgrades to Audio Visual and Video Conferencing infrastructure in up to 60 meeting rooms, as well as Digital Signage and maintenance & support services.

The overall purpose of the project is to introduce reliable collaboration infrastructure for staff and introduce greater accessibility for the public/staff unable to attend in person. The latest digital signage will serve the purpose of efficiently circulating corporate communications across the Council facilities and outlying sub buildings

1. Purpose of the Installation

The purpose of the installation was to provide audio visual presentation capability throughout the building.

3C ICT Shared Services required upgrades to their AV provision in the Civic Suite at Huntingdonshire District Council. The Civic Suite consists of a divisible space that can be combined for full council meetings or separated by movement of a folding partition wall for smaller meetings.

We delivered:

- ✓ Upgrade of Presentation equipment (Projectors)
- ✓ Upgrade to system control & inputs, with wireless collaboration (BYOD) provision
- ✓ Upgrade of the conferencing microphone provision across the suite
- ✓ New AV equipment rack
- ✓ Wireless touch-panel control interface
- ✓ Further button keypad control
- ✓ Integration of existing equipment into the new system:
 - Loudspeakers for reproduction of programme & voice-lift audio
 - Wireless handheld/lapel microphone system
- ✓ Further ceiling speakers in the public gallery
- ✓ Infra-red assisted hearing system
- ✓ Pan-tilt-zoom (PTZ) cameras
- ✓ Recording & Streaming functionality

2. Installation Description

The AV installation includes local data and signal wiring, audio and video transport cabling and associated final containment required to complete the works.

Civic Suite

Recording and Streaming

Three PTZ dome cameras mounted to the walls in the Civic Suite. Two are mounted on the front wall to capture visuals of the council members. Third camera automatically tracks and zooms in to designated seat positions when the associated delegate microphone unit is activated.

The other camera is mounted on the back wall to cover the head table. The cameras and the microphone audio feed to a recording & IP streaming unit in the AV rack.

Presentation Equipment (Projection)

2x 6000 lumen HD projectors display onto the front presentation wall in each half (when separated) of the suite. A further 5000 lumen HD resolution projector displays to an existing electrically-operated projection screen at the back wall of the suite for the perspective of the head council table. All projectors are mounted to the ceiling within the suite.

System Control & Inputs

The audio-visual equipment is located in the central AV rack. The 19" 36U rack houses the switching & distribution equipment, amplifiers, controller, etc. The rack also includes two Barco units for wireless collaboration in each half (when separated) of the suite.

The control system also interfaces to the lighting control system in the suite. The control system also receives the state of the dividing partition via a sensor and will automatically configure the system for combined/separated use accordingly. This configuration can be manually overridden.

A connection plate on the rear of the lectern interfaces to the external equipment and connections. An 8.7" wireless touch panel stored in the rack-room displays a graphical user interface (GUI) to control the audio-visual equipment from any position in the Civic Suite. The system can also be controlled from two button keypads by the entrances to the Civic Suite.

Four floor-boxes in the Civic Suite provide HDMI laptop/video connections to the AV system.

Conferencing Microphone Upgrade

The Civic Suite features 63 (61 delegate + 2 chairman) wireless conference microphone units with voting functions. Four antennas across the front of the suite receive the audio signals from these units back to two conference control units in the AV rack.

The system is set-up so that the conference units can be used independently when the suite is divided into two separate areas by the folding partition.

The existing TOA wireless microphones, antennas and receivers have been retained and integrated into the AV system in the equipment rack.

Loudspeakers & Assisted Hearing

The two existing Bose column loudspeakers arrays have been retained and integrated into the AV system. A further four ceiling speakers have been installed in the public gallery area of the Civic Suite to provide program audio & voice-lift audio.

For assisted hearing provision, the system includes two IR transmitter units at the front of the suite and eight IR receivers with headphones and charging unit.

Client Reference

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ABOUT US

In plain speak, we are an international supplier of integrated audio-visual systems, environments and communications technology; we design, integrate, install and maintain robust AV systems and environments.

But 'how' we do it isn't quite so plain.

Our roots go back to 1954 when Roy Snelling started his business out of a redundant Victorian laundry in rural Norfolk, selling Television and Radio sets in the earliest days of broadcasting.

Roy Snelling witnessed a major transformation as more and more TV and Radio sets found a place in homes- there was a whole new way for people to interact, engage and consume information; the same purpose for which many AV systems and environments today are designed and built for.

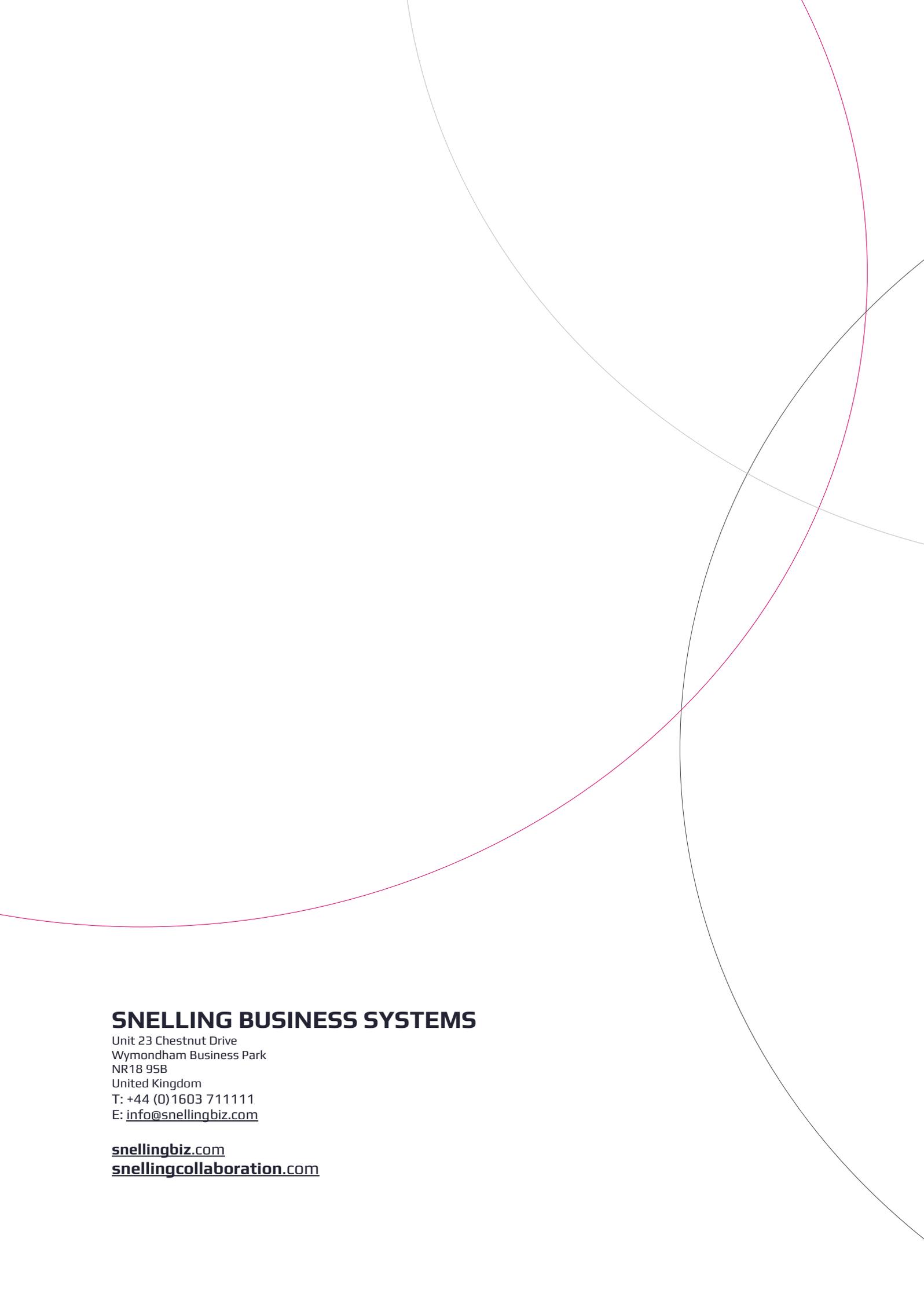
Over the years our experience led us to ask ourselves the obvious question.

“How can we use the potential in AV systems and environments for sensory engagement, to unlock possibilities for businesses to interact with and engage their audiences”?

As we continued to grow and evolve, we nurtured what we learnt along the way in our internal culture and design/engineering philosophy. Therefore, you'll find our design/engineering teams thinking how AV systems design and engineering can change workspaces, minimise cost and optimise space utilisation?

At the same time, how do we continue to uphold the Snelling Philosophy? Audio Visual Excellence. Operational Simplicity.

We deliver all aspects of audio-visual integration from design to the supply, installation and on-going maintenance - all backed by a service ethic, which continues to carry the Snelling signature of quality. Based in London and Norwich, we have maintained our portfolio of major clients and diverse projects across higher education, corporate, public sector, defence and aerospace, retail, religious, healthcare and niche specifications.



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