

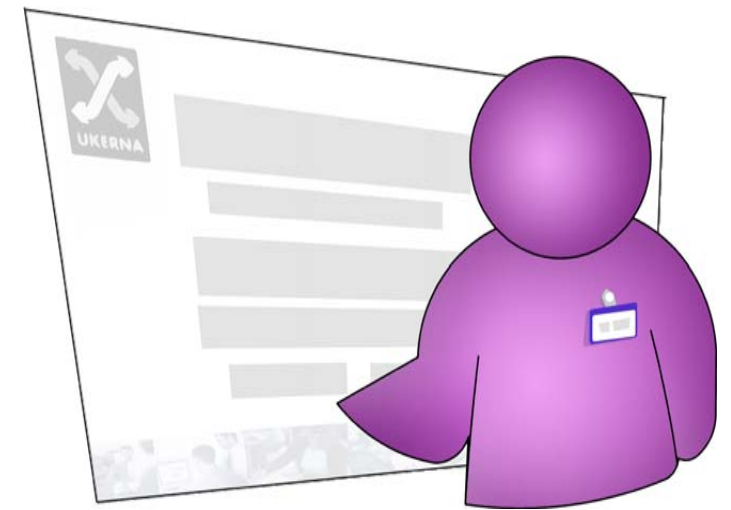
# Streaming Video across a Primary School LAN





# Introduction

- Matthew Cook
- Senior IT Security Specialist  
(Loughborough University)
- UKERNA Contracted Trainer
- Further details available at:  
<http://escarpment.net/>



# Background

- Westwood Infants and Nursery School
- Located in Nottinghamshire
- Small village school
  
- Heterogeneous ICT Suite
- Cross curricular ICT integration
- Effective use of resources



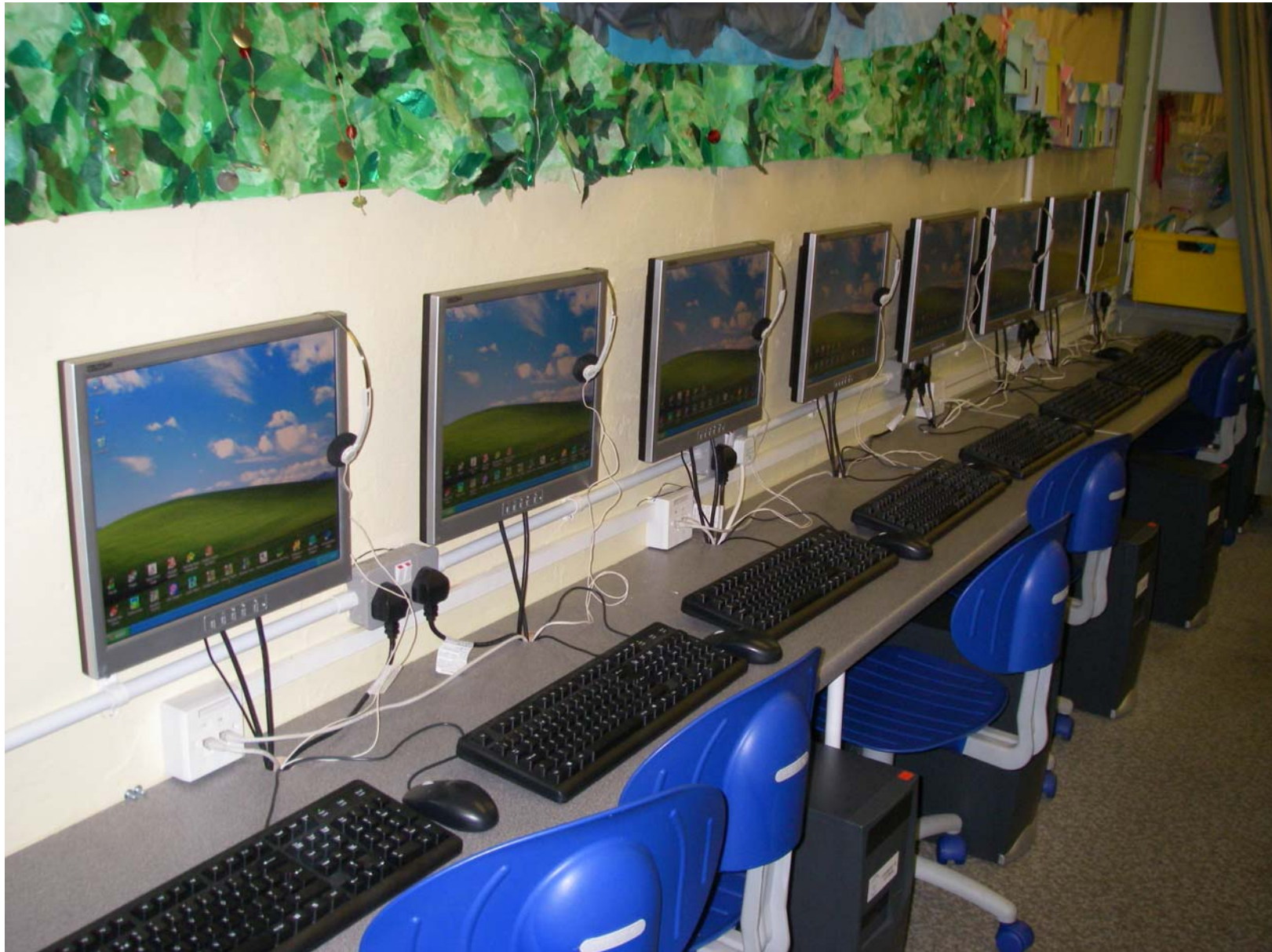
# A Small Network

- Revised in summer 2006, the school invested in a new network of 20 PCs
- Linking two buildings
- ...and the Internet (well slowly)
  
- PCs running Windows XP
- Server running Windows Server 2003
- Hardware Firewall

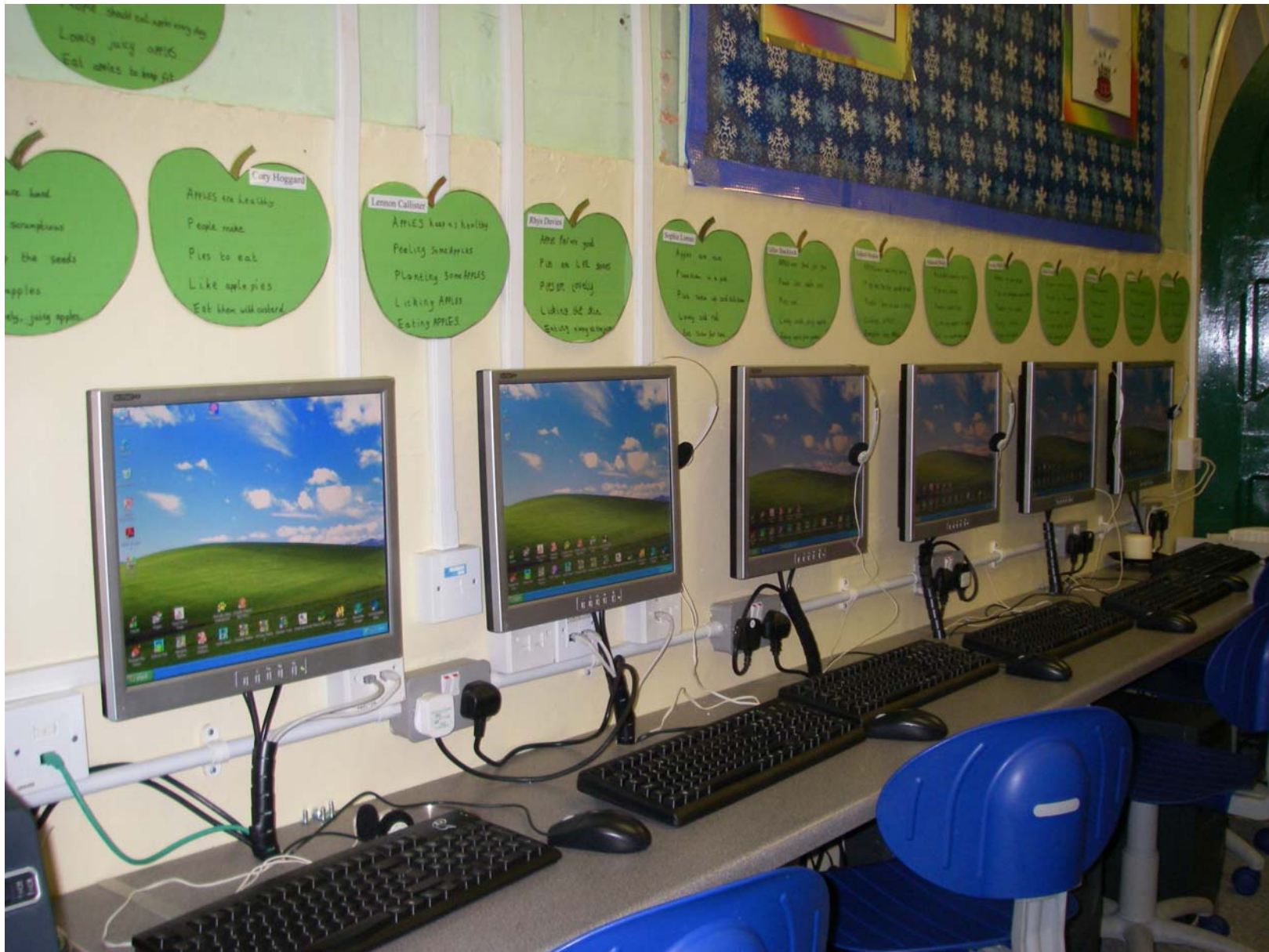
# What the Children See



# The ICT Suite



# The ICT Suite...



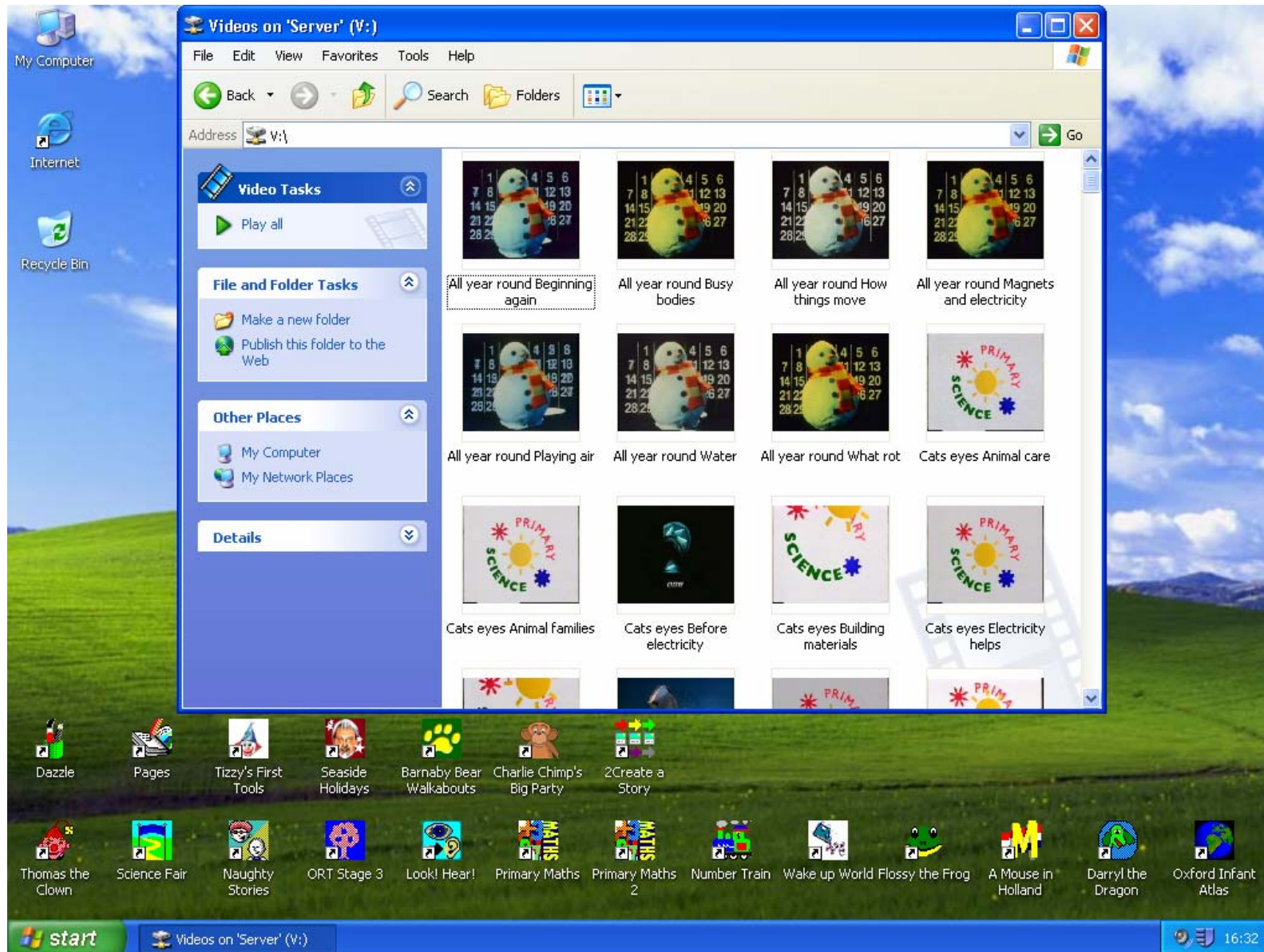
# Do We Need the Television?

- Lots of Computers:
  - ICT Suite with 14 PCs
  - Nursery three PCs
  - Others in classrooms
  - Interactive Whiteboards and Laptops
- Live television rarely watched, but still required for state/important occasions

# Capture the Video

- Project over the summer
- Captured using simple USB adaptor
- Edited using the supplied software
  - Scene selection
- 50Gb of Video content
- Provided from shared server drive

# What the Children See





# Benefits and Future

- Simple to use
- Watch on multiple computers
- Pausing
- Annotation
- Capture and insert in work
  
- Video Compression
- Menu driven access

# Streaming Television

- Television capture card in Server
- Issues with Drivers
- Free VLC provides a stream
- Windows media player on desktop
- Simple URL
- Changing channels
  
- Hardware devices



# UKERNA Training

- Portfolio of network based training
- Over 10 different courses
- Training venues in many locations
- Comprehensive course workbook + CD
  
- Basic Networking
- Wireless LAN Fundamentals
- Firewalls: Planning and Implementation

# Questions?

<http://escarpment.net/>