

# 2020 & Beyond:

Technology Trends in  
Tomorrow's Schools

Next 





# Overview Technology and Schools



The Technology Conundrum



Chromebooks &  
Thin Client



IoT and Connectivity



# Technology Concerns in the Classrooms



## Technology



Social Media



Network Overload



Security Breach



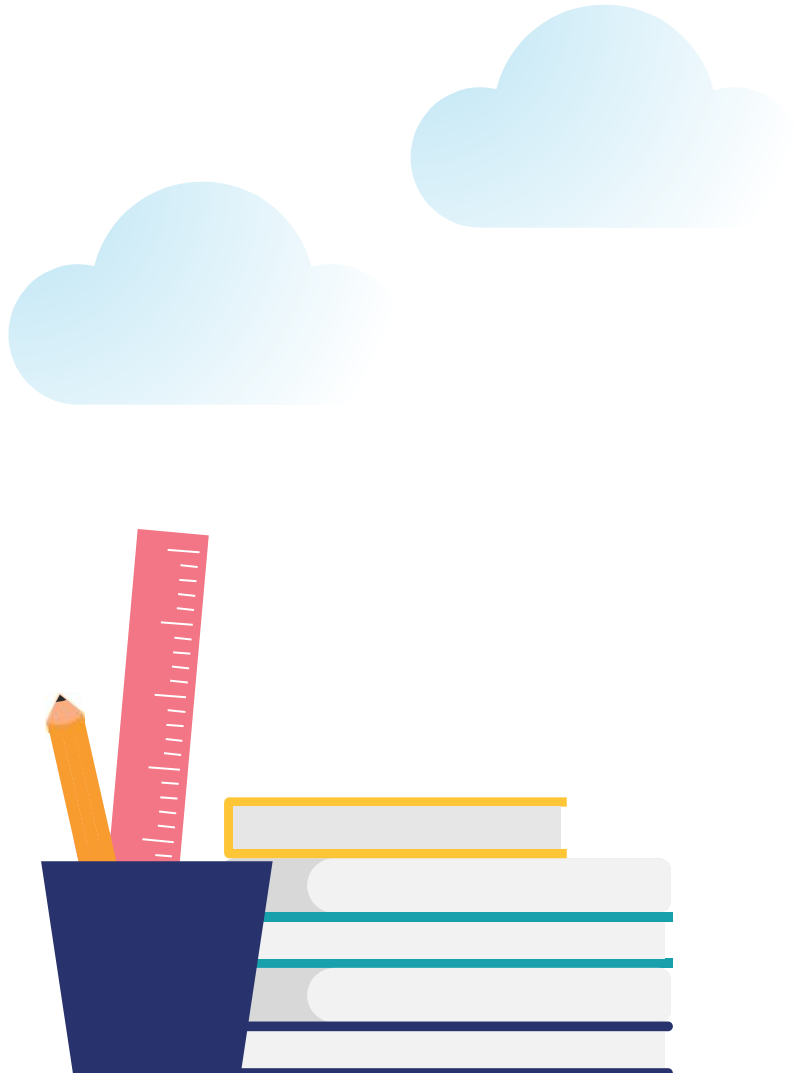
Physical Damage



IT Support



Gaming



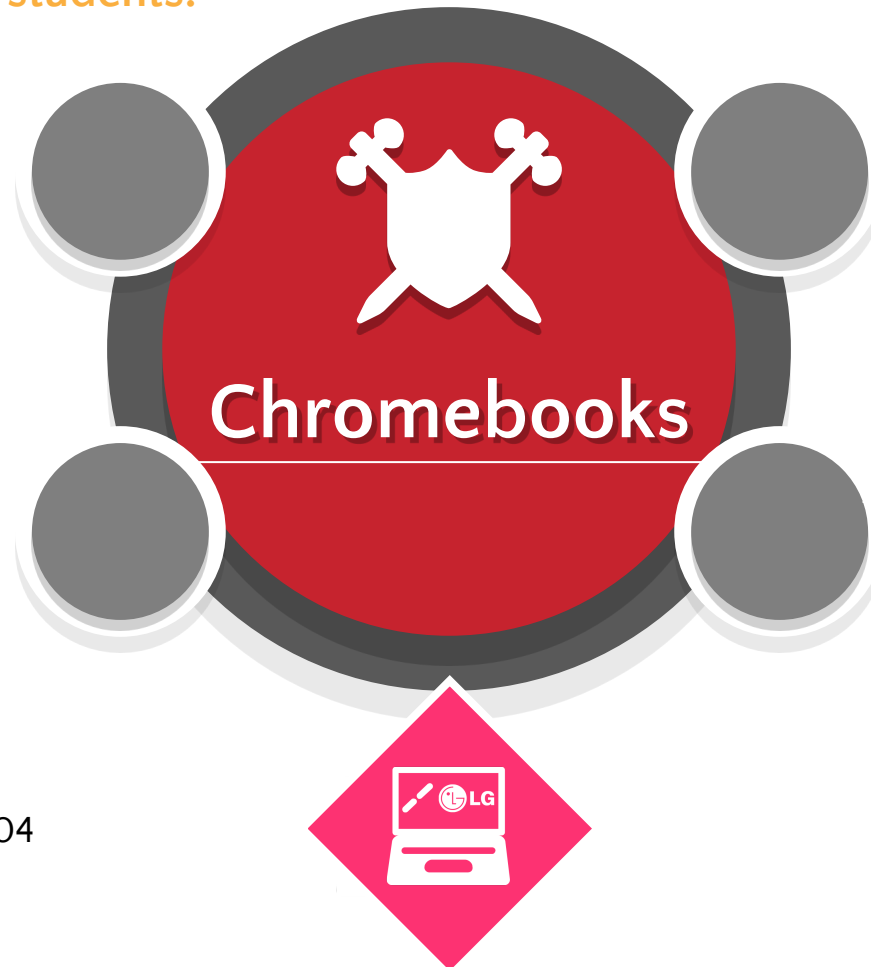
# Great for Students!

## Supports core applications for students:

- Word
- Excel
- Powerpoint
- Educational Software
- Internet

## Understanding Costs:

- Hardware Costs - \$270 - \$1000+
- Chrome Management Console License - \$38 / year / device
  - i.  $\$38 \times 8 \text{ Years (max)} = \$304$
- Total Cost of ownership:  $\$300 + \$304 = \$604$  for the base model



## Schools love them because:

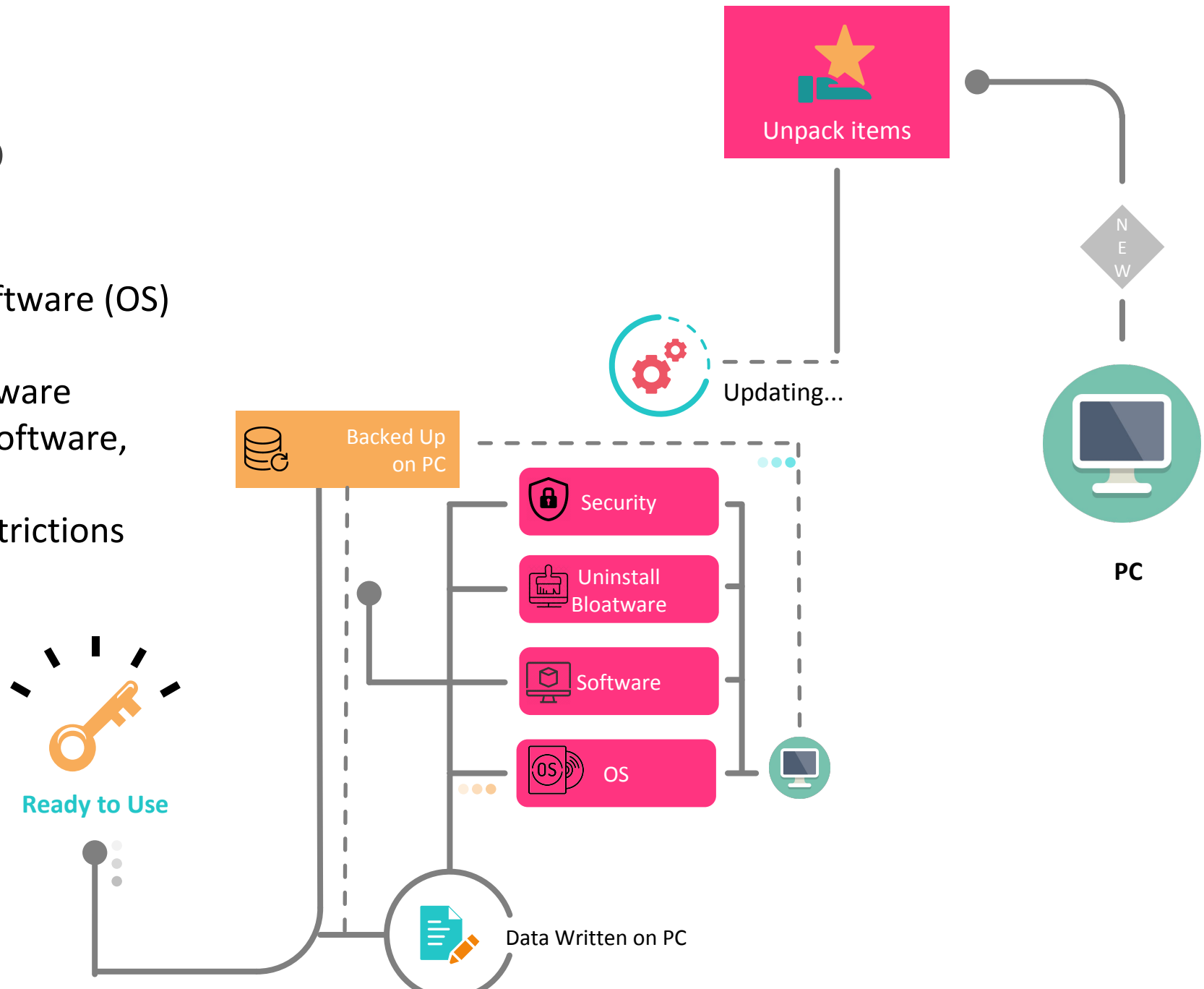
- Affordable
- Secure
- Easy to set up
- Easy to manage
- Easy to fix

## Limitations:

- 8 Years of support
- No Windows, Microsoft suite, Adobe, etc.
- Dependent on Internet Connection
- Slow response

# PC Setup Roadmap

- 1. Configure Network
- 2. Update Operating Software (OS)
- 3. Uninstall Bloatware
- 4. Install Anti-Virus Software
- 5. Install Applications, Software, Programs
- 6. Set Permissions / Restrictions



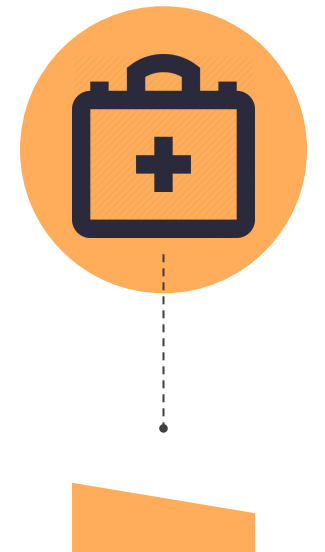
# A Waste of Time & Resources

Computers are **extremely susceptible**:

- Malicious Programs
- Malicious Emails
- Bad Software
- Computer Maintenance Neglect - (Anti Virus, Disc Utility, Defragment, Updates)
- Physical Maintenance Neglect - Dust, Rust, Heat

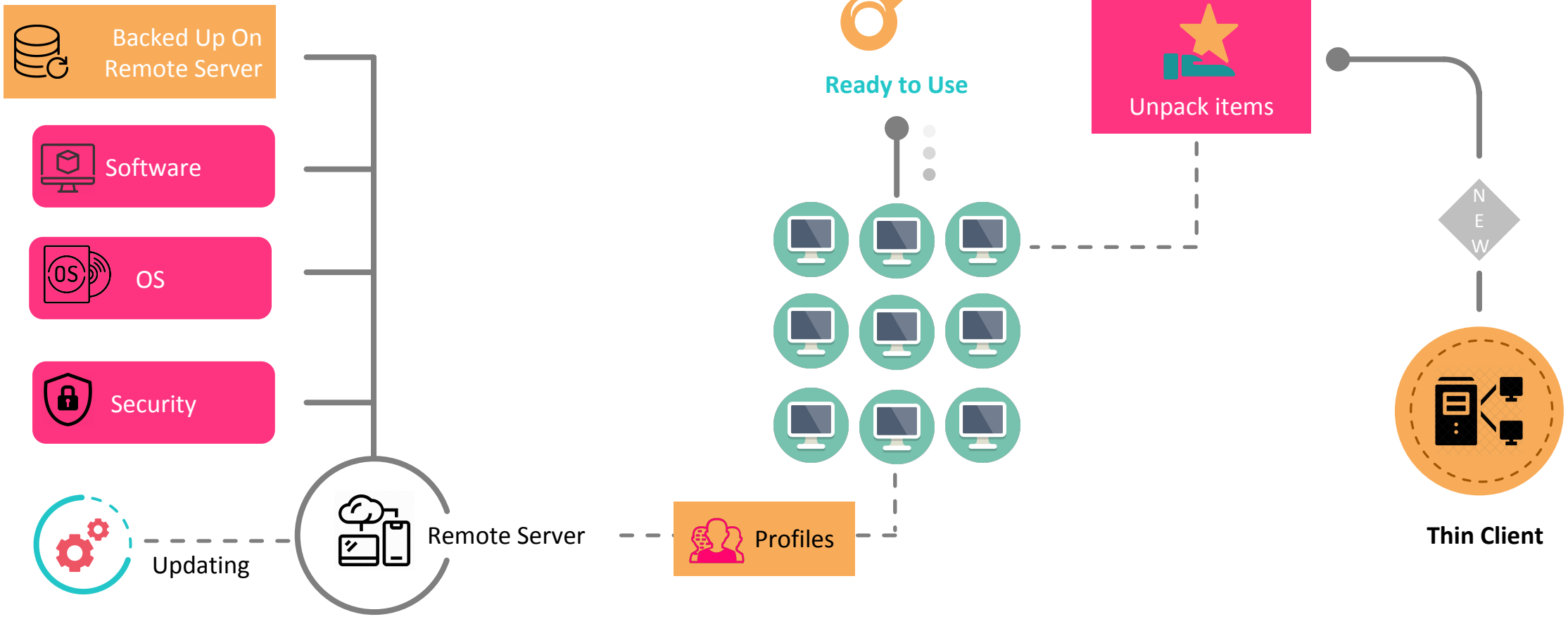
What happens when you have a problem?

- Restart Computer
- Check Power or USB Plugs
- Update the Operating Software (OS)
- Uninstall / Reinstall
- Submit a Ticket
- Ask a Fellow Teacher



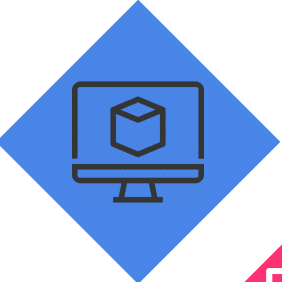

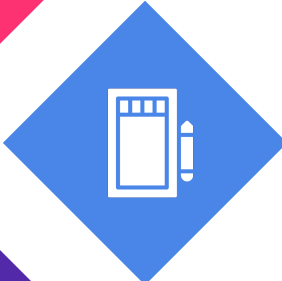

# Thin Client Setup Roadmap

## 5 Minutes!!





# Thin Client Options

-  › All-In-One Monitor
-  › Laptops
-  › Set-Top Box
-  › Desktop





# Traditional V.S Thin Client

### What is a Thin Client PC?

A thin client is a lightweight computer optimized for establishing a remote connection with a server-based computing environment.

This server runs the operating software (Windows), programs, and stores data.



**Security**



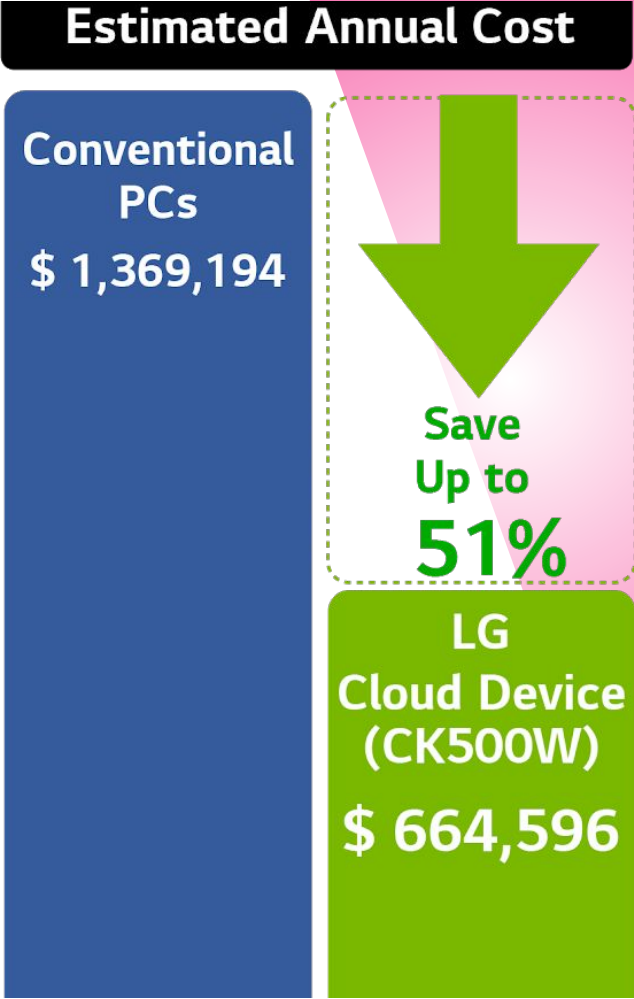
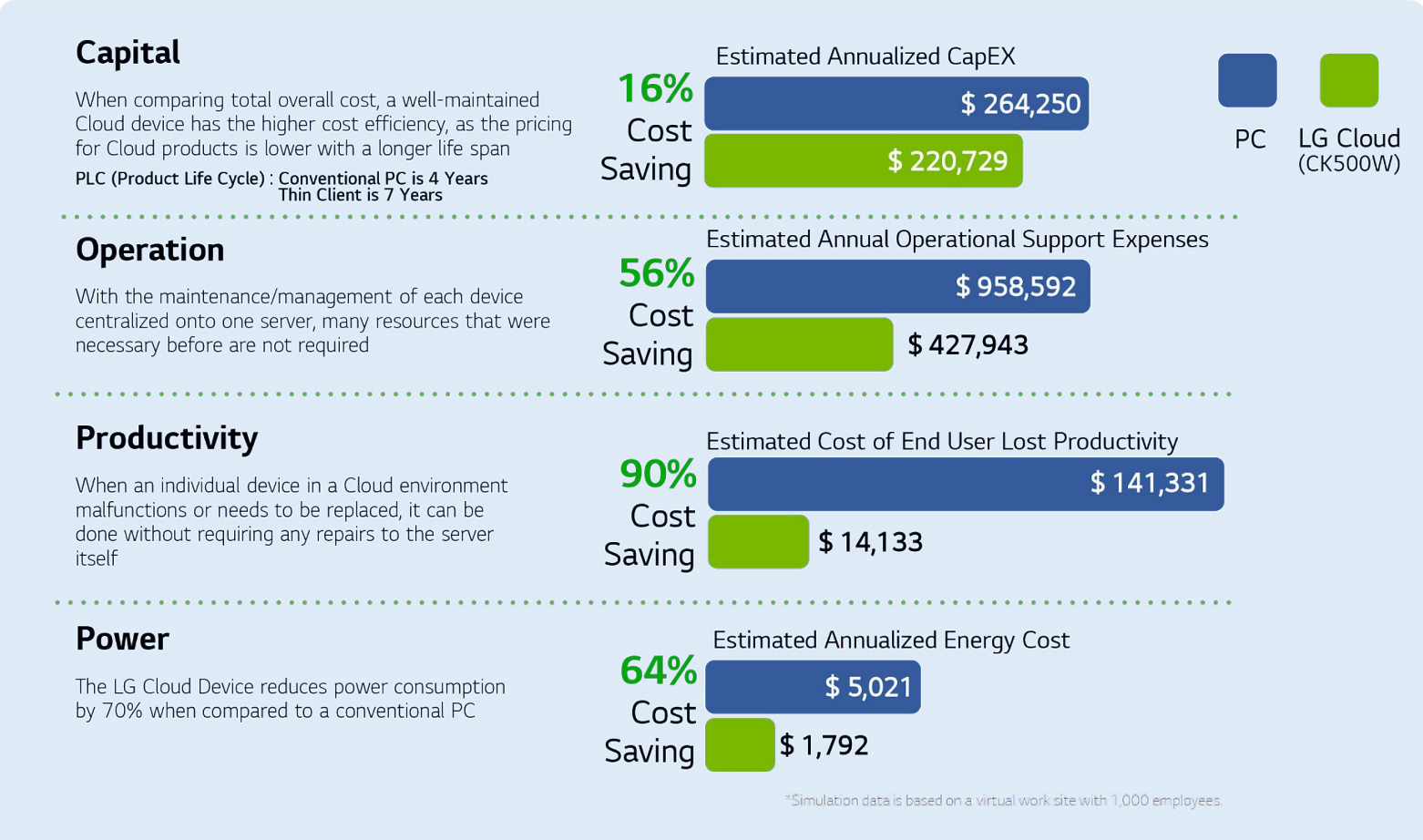
**Manageability**



**Streamlined User Experience**

		Traditional	Thin Client
<b>Server</b>		Data is written on hardware's local drives. Resources to run software are all stored locally, accessible to this machine only.	Remote Server or Cloud Server processes all functions on the Server to operate all programs and software without writing to local memory.
<b>Maintenance</b>		Maintenance for Traditional must be done per machine. Updates and security also have to be per machine.	Thin Clients allow users to maintain, repair and service all devices through the remote server.
<b>Power</b>		With more moving components, Traditional Computer take more energy to run.	By limiting the moving components in the machine, Thin Clients are able to reduce power consumption by 70% when compared to Traditional PCs.
<b>Security</b>		Users accidentally installing malware or otherwise compromising your systems is always a threat with dedicated PCs.	Thin Clients have inherent security to protect sensitive data and simplified management to minimize potential downtime.
<b>Product Lifecycle</b>		3-4 years is the average lifespan of traditional PCs and Laptops.	With less moving parts, the product lifespan is about 2x's longer than traditional PCs and laptops
<b>Functionality</b>		Need 3rd party software/outside server to increase functionality.	Ability to do screen takeovers and control student environments.

# Total Cost of Ownership - Conventional PC vs Thin Client



# Easier Device Management



### SIMPLER, SAFER RESOURCE SHARING

LG Thin Clients let students and staff access valuable research tools by logging into their own virtual desktops from any available Thin Client. This model maximizes the utility of every Thin Client, increases user access to shared resources, and helps to maintain endpoint security through dedicated log-in credentials.



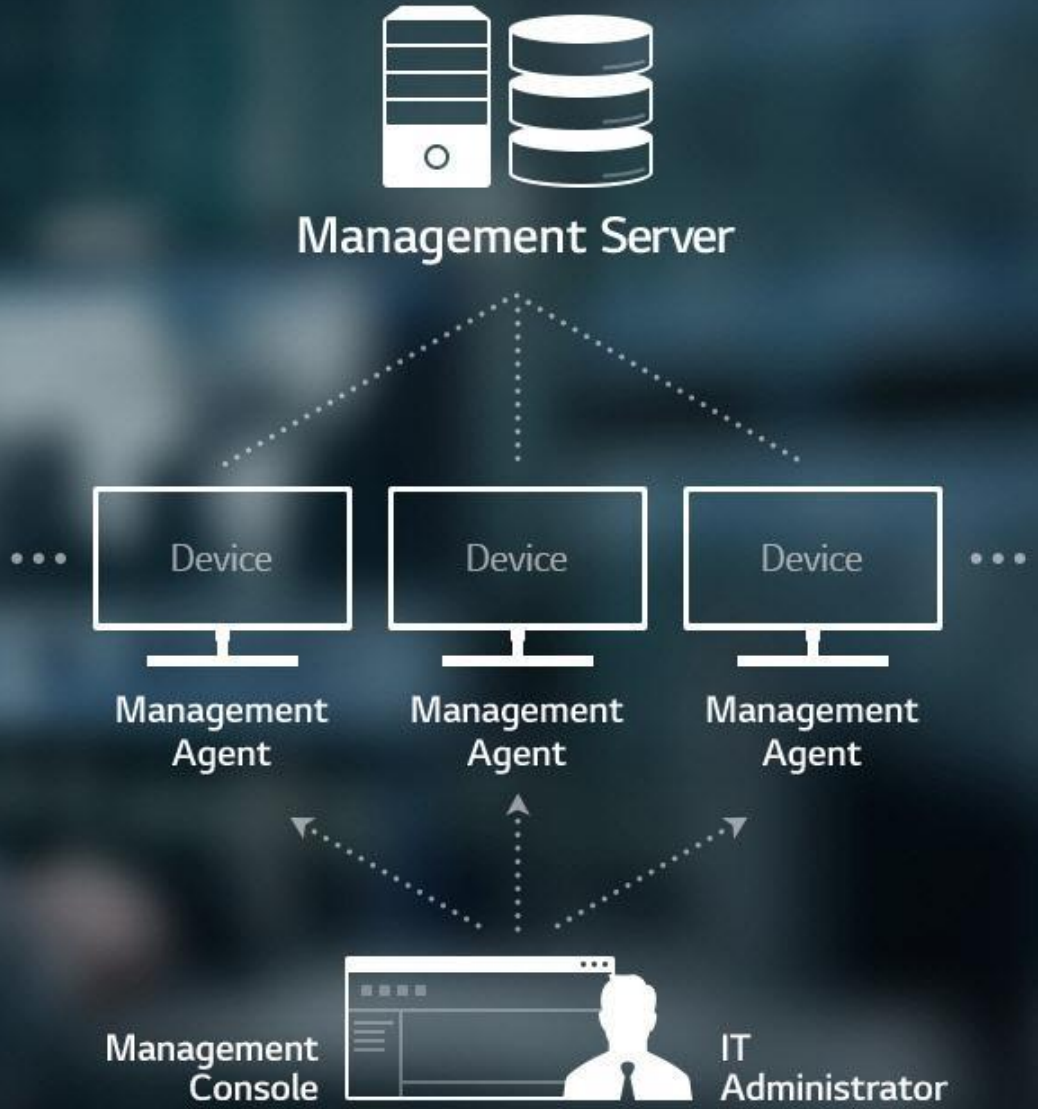
### SECURE STUDENT RECORDS

LG Thin Clients are a natural choice for protecting student data in accordance with the Family Educational Rights and Privacy Act (FERPA), including grades, financial aid information, contact information, and more. With less endpoint exposure, data remains safe in the data center.



### LESS IS MORE WITH FANLESS DESIGN

Thin Clients use fanless designs that create less noise and heat, making them a quiet and efficient addition to any IT infrastructure or work environment.



# Cluttered Workspace?

With their ability to reduce clutter and increase productivity, ultra-wide monitors are a compelling option for designing or upgrading workspaces. The super-wide, 21:9 (or even greater) aspect ratio provided by these displays solves business problems and boosts productivity.

Replacing multiple monitors with a single wide-format monitor will enable users to multitask with as many programs as they like, and numerous video feeds, on one screen at the same time. Reducing the overall number of monitors will cut your company's energy usage and equipment costs, provide clean workspace and reduce the number of hardware-related issues.



# Ultra-Wide Monitors



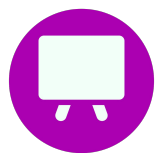


# Learning Environments of Classrooms

Past/Current	Future
Field Trips	VR
On-site Speakers	Video Conferencing
Traditional Method	Adaptive, Micro, Gamified, Enhanced
Physical Feedback	Digital Feedback
Physical Textbooks	Interactive Reading



# Interactive Teaching



Interactive Touch Displays



Interactive Projectors



Smart Televisions





### Interactive Touch Displays

Interactive Touch Displays provide numerous benefits in the classroom including enhanced lessons, interactive learning, ease of use, flexibility, internet and the ability to integrate additional technologies.



### Interactive Projectors

Similar to the Smartboards, Interactive Projectors increases student engagement using the same principles as Smartboards, but with the opportunity to provide a larger work space.



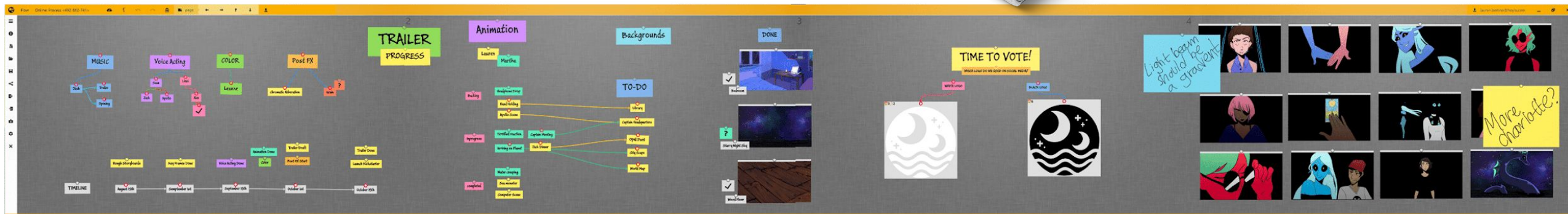
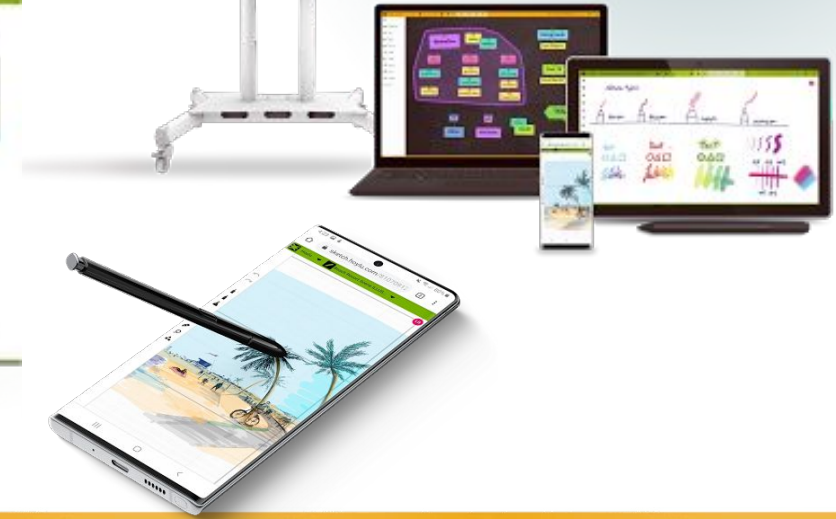
### Smart Televisions

Smart TV allows download of interactive games, such as tactical games, word plays, quizzes and math problems, that promote class participation among students.











# Retrofit Your Chalkboard Into A Digital Canvas



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# The Common Setups in Classrooms

	Past/Current	Future
	Desktop, Laptop,	Chromebooks/ Thin Client
	Overhead Projector	Interactive Projector
	Whiteboards	Interactive Touch Displays
	Televisions	Smart Televisions
	Server on Site	Server on Cloud
	Username + Password Login	Scanners that preloads profiles





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