



Palm Beach County School District

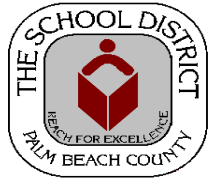
*Department of  
Information Technology  
Customer Service*

**Project:**  
**IP CONVERGENCE Plus**



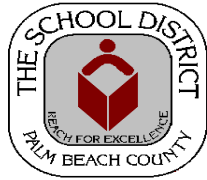
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- **DEFINITION: IP CONVERGENCE Plus**
  - IP : Internet Protocol
    - The language of the Internet, often referred to as TCP/IP
  - Convergence
    - Combining Telephone Services with Data Services on the same network
  - Plus
    - Adding enhancements to the District's existing network capabilities



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- **Project Goals:**
  - **Improve Telephone Service for the Schools**
  - **Increase Network Bandwidth (*more Speed*)**
  - **Save Money**
  - **Build an Infrastructure to position the District to:**
    - **Support High Bandwidth Applications**
      - Distance Learning
      - Web Conferencing
      - Engaging and Interactive web content
    - **Support ERP System and Portal interfaces**
    - **Connect to the County's Fiber Network**
    - **Support Wireless Networking District-wide**



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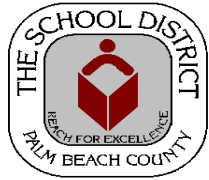
- Project Scope:
  - **Design and Engineering** – *Complete*
    - Award winning Design from ComputerWorld Magazine
  - **Upgrade Existing Hardware**
    - In High Schools and Middle Schools
  - **Install New Hardware**
    - In Elementary Schools and FHESC
  - **Install New Software**
    - Message Manager – (Auto Attendant)
    - One Voice – (Centralized Notification System)
    - Redsky E911 – (enhanced 911 call processing)
  - **Configuration and Tuning**
    - Load Balancing and Quality of Service



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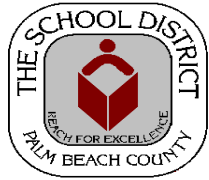
- **PROJECT BENEFITS: SCHOOLS**
  - **All schools have their own telephone systems – Remotely survivable**
  - **Access to Auto Attendant, Voice Mail, and Absentee notification**
  - **Easily moved telephone sets and computer-based Soft-Phones**
  - **E911 services to improve school safety**
  - **Increased Bandwidth for current and future applications**

**Some schools will experience 150 times faster access to the Internet**



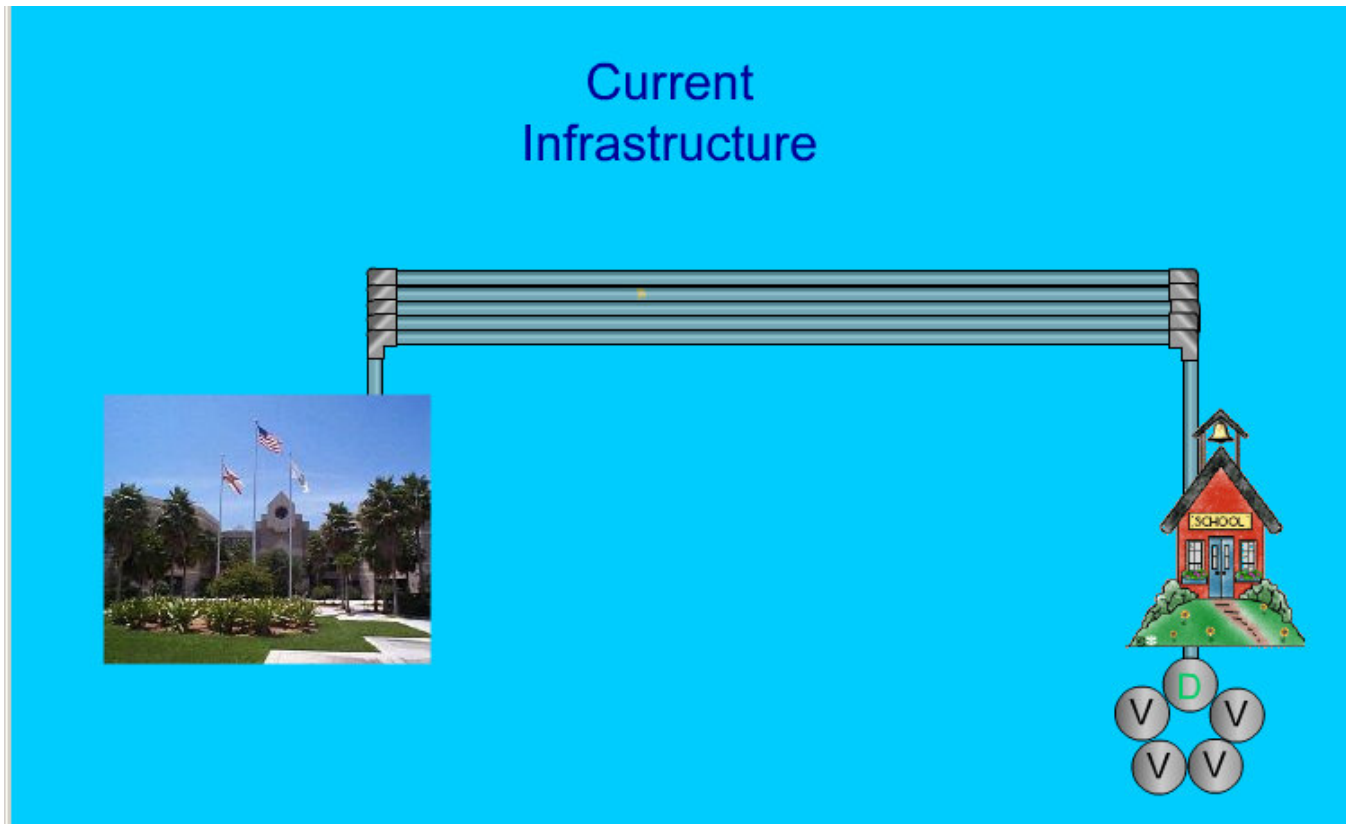
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- **PROJECT BENEFITS: ADMINISTRATION**
  - **Remote administration and maintenance of systems**
  - **Simplified and less costly Network topology**
  - **Standards-based and flexible infrastructure**
  - **Increased Bandwidth for future applications**



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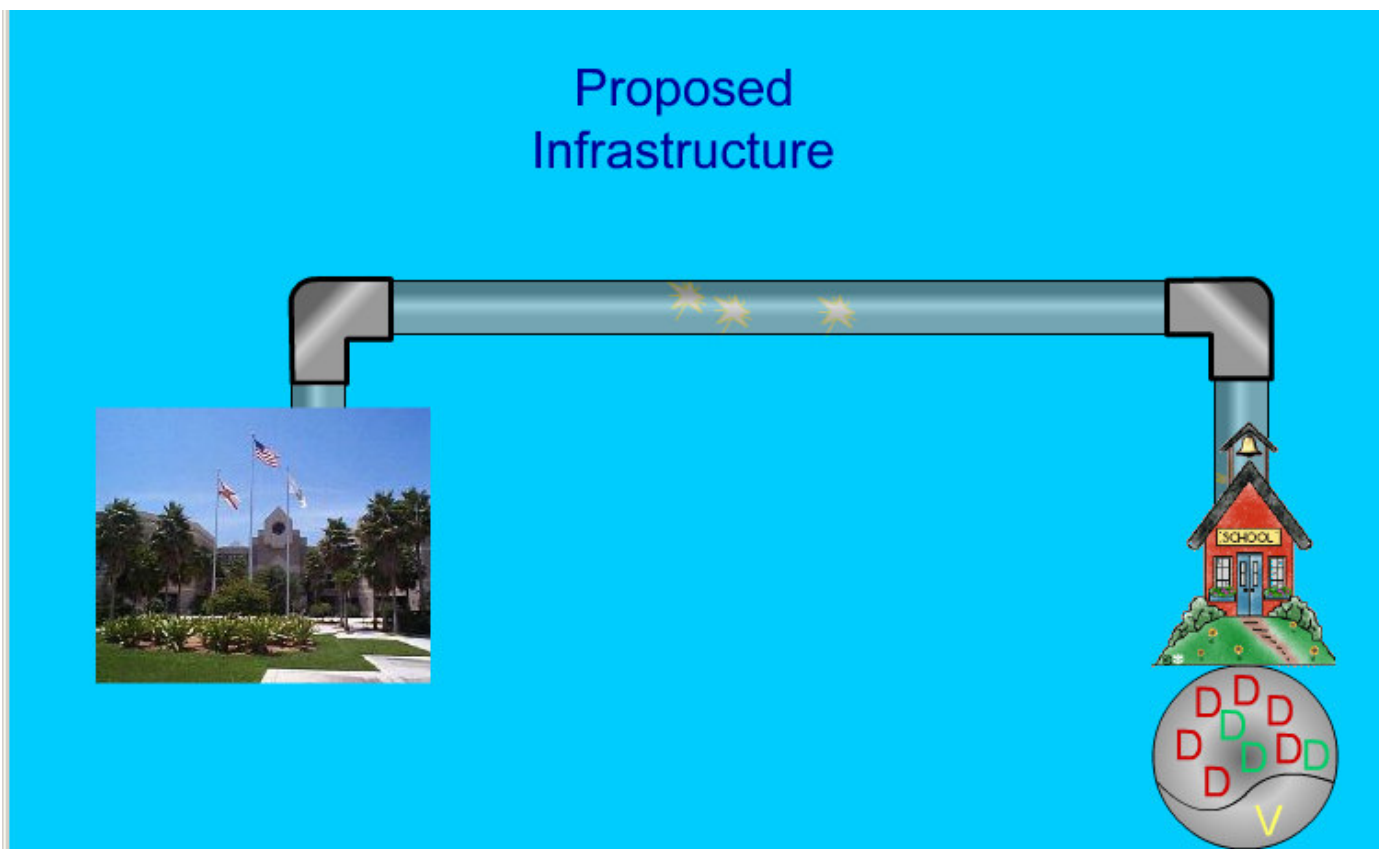
**The Current Infrastructure uses multiple communications lines dedicated to either voice or data. This configuration cannot share the total bandwidth based on voice or data service demands.**



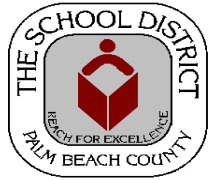


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**The Proposed system utilizes a single communications line capable of transporting both voice and data simultaneously. This added flexibility results in greater efficiency, speed, and cost savings.**







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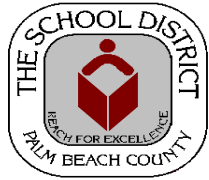
- **Project Cost:**

FHESC Costs	\$ 2.3 Million	
Elementary School Costs	\$ 5.5 Million	
High School and Middle School Costs	\$ 2.1 Million	
<b>Total Costs</b>		<b>\$9.9 Million</b>

- **Cost Savings over 5 Years:**

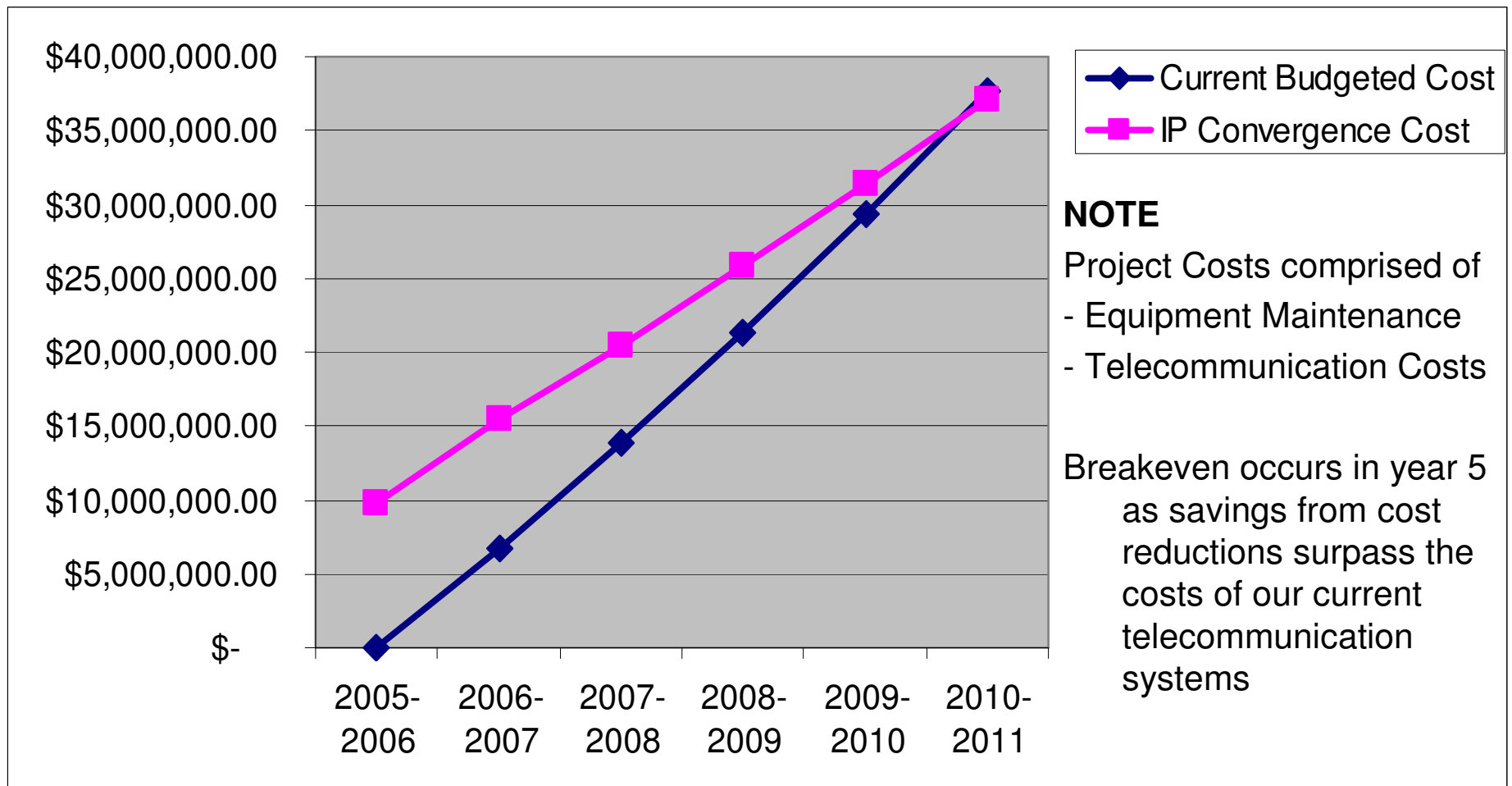
Hardware Maintenance Cost Savings	\$ 2.6 Million	
Bellsouth Service Cost Savings	\$ 7.7 Million	
<b>Total Cost Savings</b>		<b>\$10.3 Million</b>

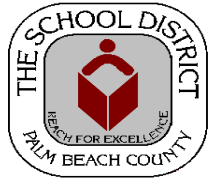
***The project pays for itself in 5 years!***



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## 5 Year Cost Comparison – Current Budgeted Costs vs. IP convergence





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- Review of Benefits to the District
  - Remote Survivability (Telephone system independence)
  - E911 Compliance
  - Auto Attendant, Voice Mailboxes, and Absentee Notification
  - Increased Bandwidth for all network applications
  - Flexible and Scalable Infrastructure to support ERP, Wireless, and other technologies
  - Improved administration and cost management
  - Supports Board Priorities and Goals
  - Pays for itself

# Financing

- The FY 2006 Five Year Plan indicated that a lease would be used to finance this project.
- One of the vendors, Avaya, has partnered with a leasing company, CIT Communications to provide 0% financing for their portion of the project, approximately \$6.5 million.
- The remaining equipment needed to complete the project, \$3.4 million will be financed as part of the next COP issue.