

Implementing an Open Source Initiative



Gloucester City Public Schools
Bernie Collins – Technology Coordinator
Janet Kauffmann – Director of Technology
Paul Spaventa - Superintendent



The promise of open source is better quality, higher reliability, more flexibility, lower cost, and an end to predatory vendor lock-in.
(www.opensource.org)

- Social and economic value
- Balance budgets
- Level the playing field
- Program versus process
- Cost savings and value added
- High quality products and experiences
- Over 260,000 open source projects are listed on the source forge directory alone

- Online Learning Environment
 - Supplemental classroom resource
 - Credit recovery
 - Professional Development

Program or Process?



Text Document



Drawing



Spreadsheet



Database



Presentation



Formula

- Open Writer – word processing program – create a PDF feature
- Open Draw – reminiscent of PhotoDraw
- Open Math – math notation add-on

But what about Publisher?



- Around since 2001
- User friendly but robust
- Large database of training tutorials



- Expand opportunity
- Our implementation strategy
- The bottom line
 - 700 laptops over 3 years
 - \$90 per licensing fee for that other program
 - \$63,000 cost reduction for 1:1 laptop program

\$63,000.00

Lab Management

- iTalc (Intelligent learning and teaching with computers)
 - Manage activity
 - Control student monitors
 - Communicate with students
- The bottom line versus other programs
 - 12 Labs
 - \$700 per lab licensing fee for that other program
 - \$8400.00 cost savings for implementation



\$71,400.00

Graphics


- GIMP – GNU Image Manipulation Program
 - Photo editing and digital retouching
 - Paint tools, web tools
 - In use at our K-3 computer lab
- The bottom line versus other programs
 - 90 boxes -
 - \$150 per box licensing fee for that other program
 - \$13,500 cost savings for implementation
 - \$ 171,900 added value



\$171,900.00

\$84,900.00

Financial Literacy

- GNU Cash  **GNU CASH** *Free Accounting Software*
 - Personal finance – loans, savings, stocks, bonds
 - Personal banking – check book management
 - Small business accounting package
- The bottom line versus other programs
 - 80 boxes -
 - \$25 per box licensing fee for that other program
 - \$2,000 cost savings for implementation

\$86,900.00



Math

- Math Trax
 - Graphing and plotting software
 - Part of the NASA Learning Technology OS project
- The bottom line versus other programs
 - 700 laptops over 3 years
 - \$1599 licensing fee for 1st 50 + 10 per box over 50 that other program
 - \$8099 cost reduction for 1:1 laptop program
 - \$4000 cost reduction for desktops

\$98,999.00

Sound

- Audacity

- Sound recording and editing
- Able to do multi-layers
- Export to MP3



- The bottom line versus other programs

- 30 boxes in lab
- \$100 licensing fee for per box for that other program
- \$3000 cost reduction for 1 lab
- Value added - \$190,000

\$361,900.00

\$101,999.00

Diagramming

- Dia : Diagramming

- Creating drawings
- Creating scale plans
- Network diagrams



- The bottom line versus other programs

- 30 boxes in lab
- \$150 licensing fee for per box for that other program
- \$4500 cost reduction for 1 lab

Human Resource

- Time Trex

- Time Clock software
- Employee scheduling
- Job assignment tracking



- The bottom line versus other programs

- 1 host machine, 4 terminals
- \$3,000 one time software price
- \$3,000 cost reduction to implement

\$361,900.00

\$109,499.00

Things we really like

- FireFTP – ftp utility that works with Firefox
- 7-Zip – file compression utility
- MyDefrag – can be scheduled to run silent
- Celestia – who doesn't like a planetarium?
- MuseScore – compose like a pro
- VirtualDub – video editing
- Blender – 3D rendering program
- TuxPaint – drawing for little hands
- Inkscape – drawing program

The Bottom Line

- Budget savings of \$109,499.00
- Value added for the district \$471,399.00
- Provide more students with process experiences – helping to bridge the new digital divide
- Extend the experience to staff
- Extend the experience into the community

Links to Programs



- [Open Office](#)
- [Scribus](#)
- [iTalc](#)
- [GIMP](#)
- [GNU Cash](#)
- [Math Trax](#)
- [Audacity](#)
- [Dia: Diagramming](#)
- [Time Trex](#)
- [Moodle](#)
- [FireFTP](#)
- [7-Zip](#)
- [MyDefrag](#)
- [Celestia](#)
- [MuseScore](#)
- [VirtualDub](#)
- [Blender](#)
- [TuxPaint](#)
- [Inkscape](#)
- [Sourceforge](#)