

- What we will cover
  - What is FOSS (Free and Open Source Software)
  - Who uses FOSS
  - FOSS Projects and 21<sup>st</sup> Century Skills
  - NETP 2010 Draft
  - How does FOSS help with 21st Century Skills
    - Budget
    - Specific Software and NETS-S standards





Freedom

VS.

No Cost

- IBM Lotus Symphony
- iTunes
- Safari
- Adobe Flash Viewer
- Acrobat Reader
- Media Player
- Virtual PC



- Firefox
- Thunderbird
- MySQL
- PostegreSQL
- Ingres Database
- Open Office
- VLC Media Player

- Audacity
- TrueCrypt
- Freemind
- GIMP
- Inkscape
- Blender
- Thousands more...

- cisco.com
- 21stcenturyskills.org
- google.com
- apple.com
- amazon.com
- state.ny.us
- whitehouse.gov

- Linux Apache/2.2
- FreeBSD Apache/2.2
- Linux gws
- Linux Apache/2.2
- Linux Server
- Linux Apache/2.2
- Linux White House

 4.3 Leverage open educational resources to promote innovative and creative opportunities for all learners and accelerate the development and adoption of new open technology-based learning tools and courses.

Transforming American Education:



DDAE

National Educational Technology Plan 2010
Executive Summary

March 5, 2010

Office of Educational Technology U.S. Department of Education

1. Creativity and Innovation

Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.

### <u>Artwork</u>

Put your creativity to best use by improving the look and feel of Ubuntu. Help design graphics and backgrounds, or themes of the next release.

### **Development**

Contribute by writing new software, packaging additional software, or fixing bugs in existing software.

### 2. Communication and Collaboration

Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.

### Project Based Teams

Learn about the dozens of project teams working on a variety of projects which contribute to Ubuntu, how they work and what they do.

### **Community Blogs**

Planet Ubuntu is your window into the world, work and lives of Ubuntu developers and contributors.



Students apply digital tools to gather, evaluate, and use information.

### Support

Access forums, live chat sessions or mailing lists, and benefit from the technical knowledge of others in the Ubuntu community.

### **Documentation**

If you are stumped by a problem, chances are someone has encountered it too. First, review official help documents for everything from how to add new applications to configuring a network.

4. Critical Thinking, Problem Solving, and Decision Making

Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.

### **Bug Squad**

Help make Ubuntu even better by working with bug reports to ensure they're complete, understandable and if possible, reproducible Anyone can help!

### **Support**

Share your technical know-how with other users by joining email and discussion lists, or IRC (chat) channels and respond to users requests for help in forums.



Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.

Ubuntu is an African concept of 'humanity towards others'. It is 'the belief in a universal bond of sharing that connects all humanity'. The same ideas are central to the way the Ubuntu community collaborates. Members of the Ubuntu community need to work together effectively, and this code of conduct lays down the "ground rules" for our cooperation.

6. Technology Operations and Concepts

Students demonstrate a sound understanding of technology concepts, systems, and operations.

### **Documentation**

Help produce official documentation, share the solution to a problem, or check, proof and test other documents for accuracy.

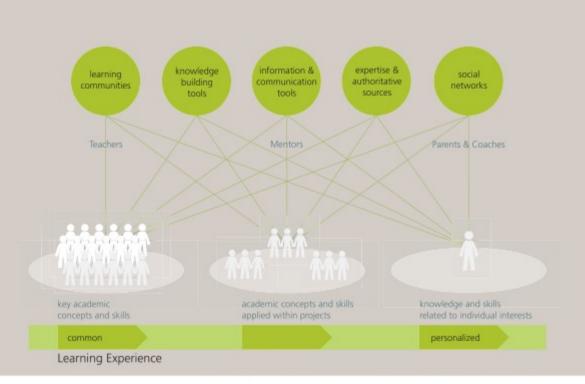
### Support

Share your technical know-how with other users by joining email and discussion lists, or IRC (chat) channels and respond to users requests for help in forums.

#### Learning no longer has to be one size fits all

All students should have common core discipline-specific learning experiences in preparation for college and careers. In addition, networked technologies offer vast opportunities for group and individual learning experiences that are driven by students' interests.

ATTONAL EDUCATIONAL TECHNOLOGY PLAN



- Individual
- Groups
- Projects
- Teachers
- Mentors
- Parents
- Networks



This image is licensed under a Creative Commons Attribution-Noncommercial-Share Alike 3.0 United States License.

"Technology provides access to a much wider and more flexible set of learning resources than is available in classrooms and connections to a wider and more flexible set of "educators," including teachers, parents, experts, and mentors outside the classroom." <sup>2</sup>

- Intel® 500 Mhz
- 14.1" display
- 64 MB memory
- 4.8 GB HD
- 24x CD
- 65K modem

\$1899

www.dell.com (2000)

- Intel® 2.2 Ghz
- 15.6 inch display
- 2GB memory
- 160 GB HD
- 8x DVD+/- RW DL
- Wireless + Ethernet

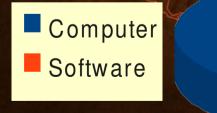
\$399

www.dell.com (2009)

Computer\$1899

Software \$265

Total: \$2164

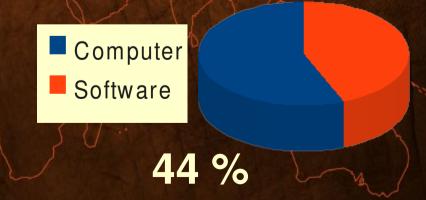


12.2 %



Software \$310

Total: \$709



"4.2 Recommendation: Ensure that every student and educator has at least one Internet access device and software and resources for research, communication, multimedia content creation, and collaboration for use in and out of school." <sup>2</sup>

"This will require improved security systems, more intelligent filtering systems that allow blocking and enabling access at a more granular level, and personnel capable of providing around-the-clock support for student- and educator-owned devices used for learning in addition to complete support for devices owned by the school." <sup>2</sup>

2.c - develop cultural understanding and global awareness by engaging with learners of other cultures



"The Danish parliament and the Danish minister for Science this morning agreed that the Danish state administrations should use open standards, including the Open Document Format (ODF), starting on 1 April 2011" 1

"The open standard ODF is recognised by many European member states. Next to Denmark it is also a national standard for public administrations in Belgium, Germany, France, Lithuania, Sweden and the Netherlands. ODF is recommended by Norway and it is one of the document standards at NATO." 1



- 3.b locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media
- 3.c evaluate and select information sources and digital tools based on the appropriateness to specific tasks
- 4.d use multiple processes and diverse perspectives to explore alternative solutions

- 6.a understand and use technology systems
- 6.b select and use applications effectively and productively
- 6.c troubleshoot systems and applications
- 6.d transfer current knowledge to learning of new technologies



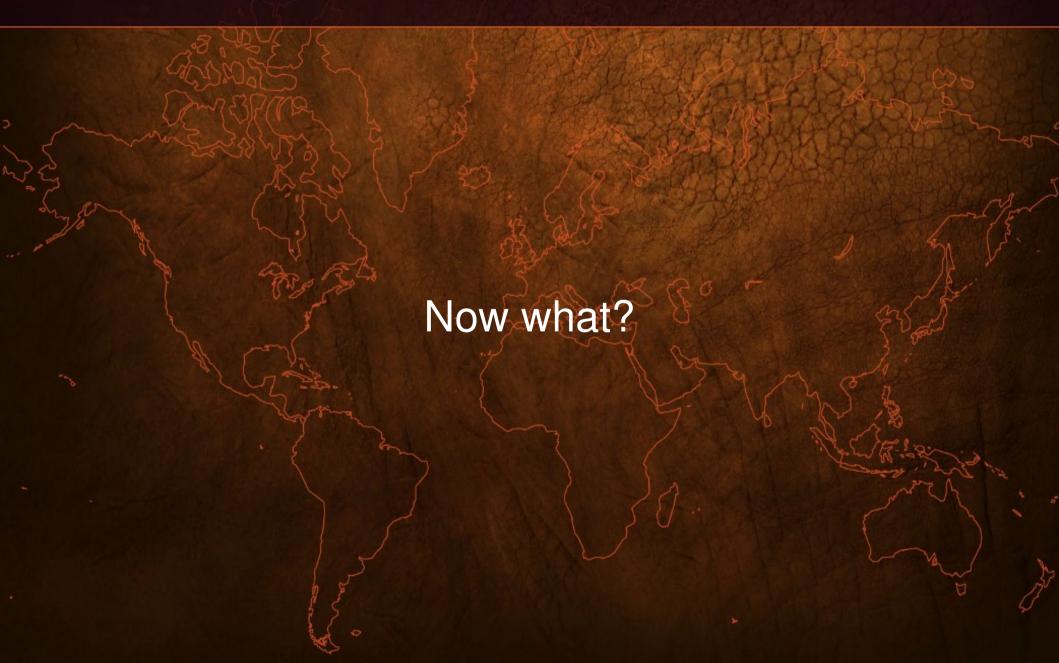
- 5.a advocate and practice safe, legal, and responsible use of information and technology
- 5.c demonstrate personal responsibility for lifelong learning
- 5.d exhibit leadership for digital citizenship



- 2.a interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media
- 2.b communicate information and ideas effectively to multiple audiences using a variety of media and formats
- 2.d contribute to project teams to produce original works or solve problems
- 4.b plan and manage activities to develop a solution or complete a project



- 2.c develop cultural understanding and global awareness by engaging with learners of other cultures
- 4.d use multiple processes and diverse perspectives to explore alternative solutions.
- 5.d exhibit leadership for digital citizenship



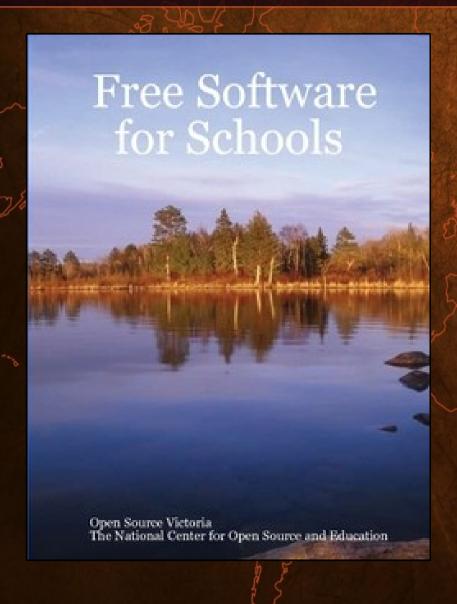




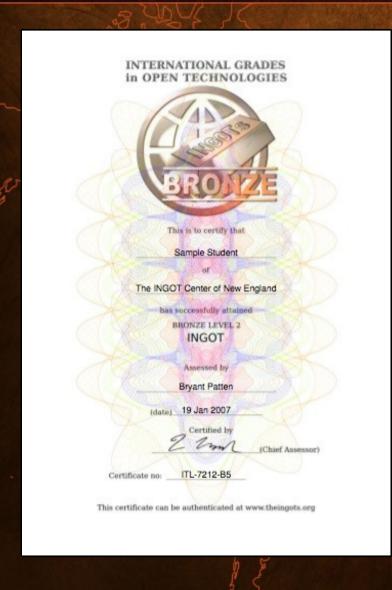
April 9, 2010 Lake Morey Resort







The Free Software for Schools publication is the result of a combined effort between Open Source Victoria in Australia and The Center. It is a catalog of educationally focussed software. It is available as a free download or at-cost paper version from lulu.com



INGOTs are International Grades in Open Technologies. They provide a motivating progression route from complete beginner to professional level expertise in commonly used productivity tools found in the modern workplace such as word processing, presenting and searching for information.



LEARN & CELEBRATE

Sat May 1st 2010

Holiday Inn, Waterloo, NY

2pm - 4pm Introduction and Exploration

\* No New Installs after 12pm

\* HTTP://NY.UBUNTU-US.ORG \* HTTP://WWW.UBUNTU.COM \*





