**IFISI World Forum** 

# The Costs of NOT doing Business with Open Source Technologies in Developing Countries



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### Introduction: Choosing a computer operating system for an entire country

#### demands making macro and micro

### decisions in one package.

- Hardware
- Software
- Systems
- Support
- Telephonics
- Wireless
- Satellite

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- Home
- Market
- Office
- Treasury
- The Poor
- Unreachables
- Postal Service

- Tech. Compatibility
- Intern'l Partners
- Treaties
- National Laws
- Intellectual Property
- Defense
- E-Contract(s)
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### The Real Costs to E-Governments Associated with Closed Source Applications:

- 1. Hierarchical
- 2. Slow to respond to change
- 3. Not secure

- 4. All requests be returned to the CS owner
- 5. Final decision on which projects to support
- 6. Monopoly on investment

## **Open Source Contributions:**

- On the macro level:
  - 'Free' to share source code to develop other projects
  - 'Free' to change
  - Quick and responsive
  - Secure
- On the micro level:
  - Enables local peoples to create their own ecommunities, own commerce
  - Money from e-commerce stays in the community instead of flowing out of the country

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#### Savings: Garden Grove, California

"By implementing Open Source solutions in place of solutions based on Microsoft software or commercial networking appliances, City staff has saved tax payers at least \$402,901.74 in initial costs as well as \$75,118.99 annually..."

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Open Source Project In	nitial Savings Ar	nnual Savings	
File/Print Sharing Servers	\$28,920.00	\$4,714.80	
PDC Server	\$1,902.40	\$462.27	
Zope Server	\$59,000.00	\$8,666.67	
Web Server	\$3,510.93	\$692.00	
D3 DB Servers	\$3,804.80	\$924.53	
SQL Database Server	\$121,067.95	\$17,497.54	
' Imaging Server	\$35,000.00	\$7,333.33	
Mail Server	\$65,695.76	\$9,590.58	
Anti-Spam	\$22,350.00	\$4,653.93	
0 Backup Server	\$13,000.00	\$13,000.00	
1 Remote Software	\$7,000.00	\$1,200.00	
2 Firewall Server	\$5,000.00	\$3,333.33	
3 Remote Routers	\$36,650.00	\$3,050.00	
TOTALS	\$402,901.74	\$75,118.99	
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http://www.ci.garden-grove.ca.us/departments/city\_manager/linuxwpaper\_html/view

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#### Value Proposition: OpenSource

- Choice
  - Minimize Lock-in
    - It will still exist
  - Maximize Hardware platforms
  - Applications
  - Suppliers
- Upgrade Treadmill
  - Minimize
- Hardware
  - Life Extension
- Server Consolidation

- Open and De facto standards
- RAS<sup>3</sup>
  - Reliability
  - Availability
  - Serviceability
  - Security
  - Scalability
- Lower cost

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- Upfront and Ongoing
- TCO/ROI

Slide Courtesy of Art Cannon, IBM



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## Security: E-Government

Closed vs Open



#### **Regional Adoption:**

Brazil





(R)

- The Brazilian government created the Implementation Chamber for the Free Software (Câmara de Implementação do Software Livre) to oversee
- this project.

  Russia

• India



- China (PRC)
  - WTO Membership
  - Asianux





HANSOFT



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Asianux

• Venezuela



http://www.venezuelanalysis.com/news.php?newsno=1439

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# Recommendation to Developing Countries, E-Governments

Technology is not the issue:

Government/Client need is the real issue.

If the technology does not meet the requirements, it is worthless.



### Etc.

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