

WIPO/IP/DIPL/CAI/04/6c

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MINISTRY OF FOREIGN AFFAIRS  
ARAB REPUBLIC OF EGYPT



WORLD INTELLECTUAL  
PROPERTY ORGANIZATION

## **WIPO NATIONAL TRAINING WORKSHOP ON INTELLECTUAL PROPERTY FOR DIPLOMATS**

organized by  
the World Intellectual Property Organization (WIPO)

and  
the Institute for Diplomatic Studies

**Cairo, December 13 to 16, 2004**

THE OSS PARADIGM SHIFT

*Document prepared by Dr. Sherif El Kassas, Deputy Director, Center for Academic Computing, The American University, Cairo*

## Open Source Software

- The Open Source Definition
  - Free Redistribution
  - Source Code
  - Allow the creation and distribution of Derived Works
  - Integrity of The Author's Source Code
  - No Discrimination Against Persons or Groups
  - No Discrimination Against Fields of Endeavor
  - ...

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[http://opensource.org/docs/def\\_print.php](http://opensource.org/docs/def_print.php)

## What are typical examples?

- Operating systems: Linux, FreeBSD
- Specialized servers: Apache, Sendmail, Samba, OpenLDAP
- Tools: GCC, Perl, PHP, XML processors
- Office: OpenOffice, StarOffice,
- Middlewares: JONAS
- DBMS: MySQL, PostgreSQL
- Graphics: GIMP
- Security: Nessus, nmap, Snort, GPG, OpenSSL, OpenSSH

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## Who is using them?

- Business:
  - Amazon
  - Hotmail
  - SecurityFocus.com
  - Service providers (TE DATA)
- Universities
- Governments
- Individuals

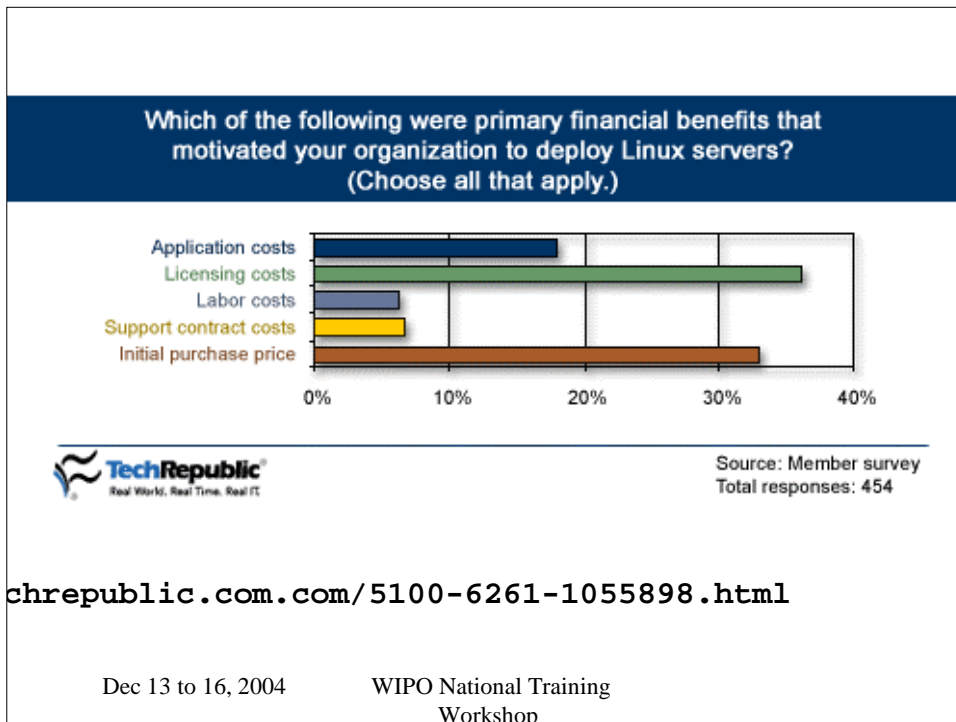
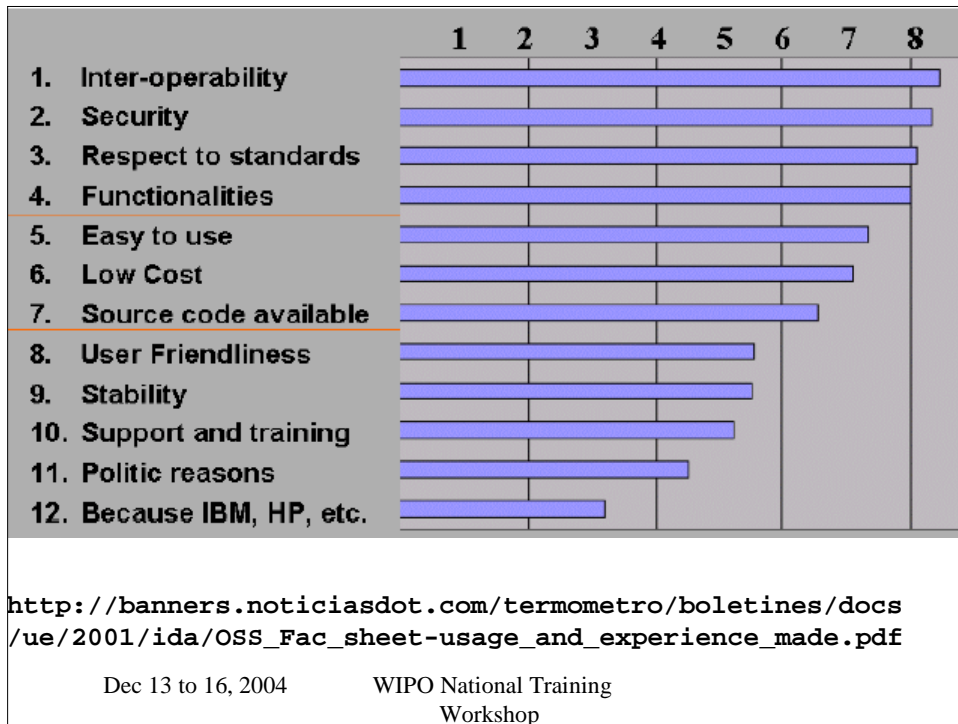
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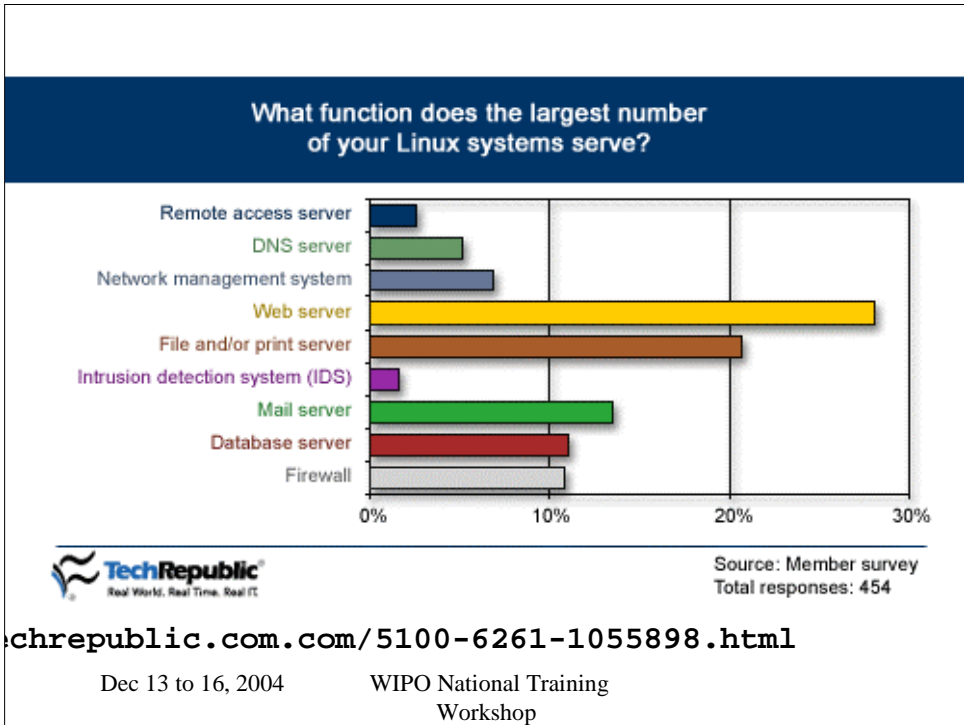
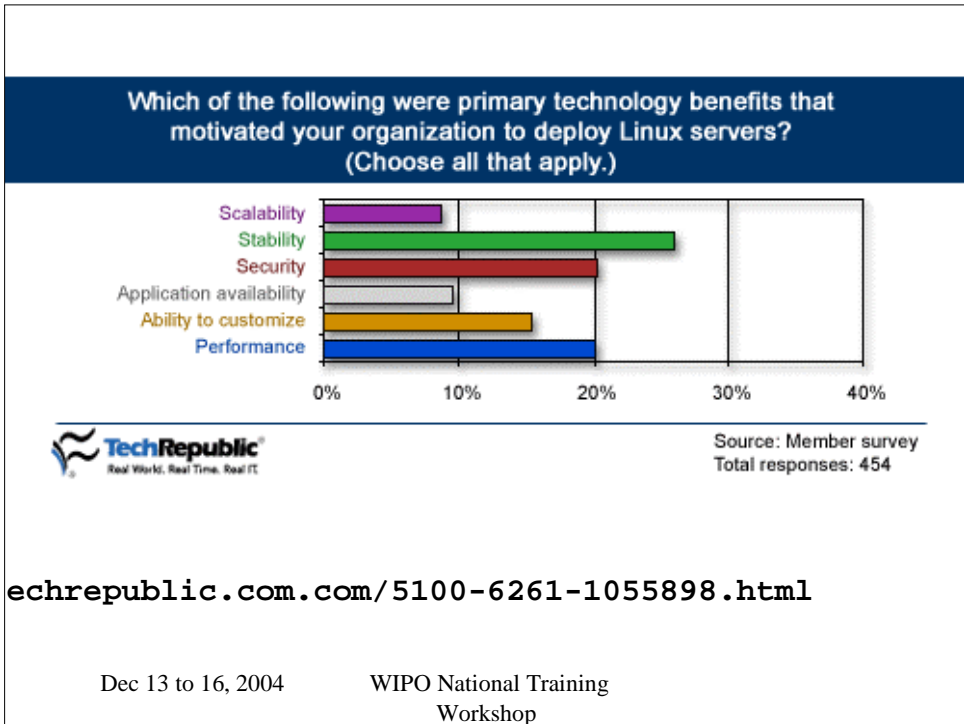
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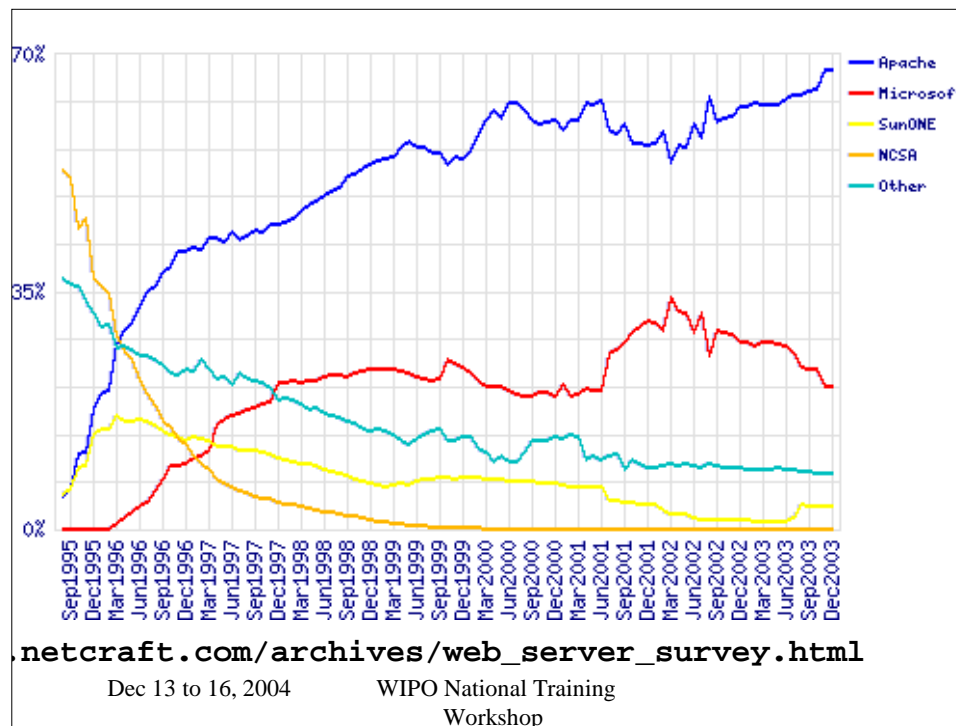
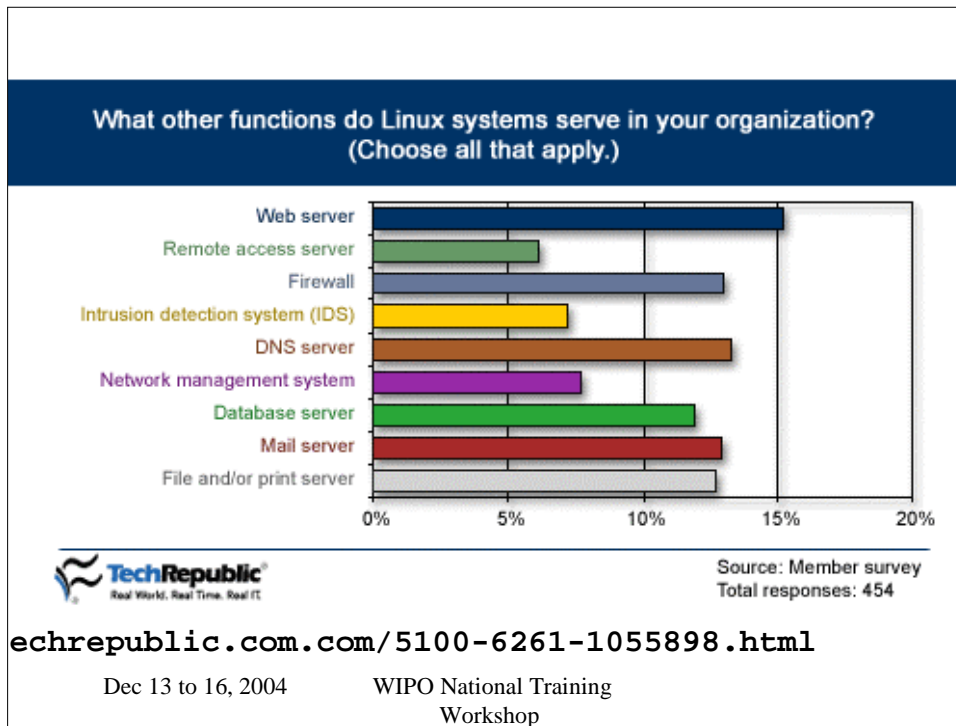
## Motivation and support

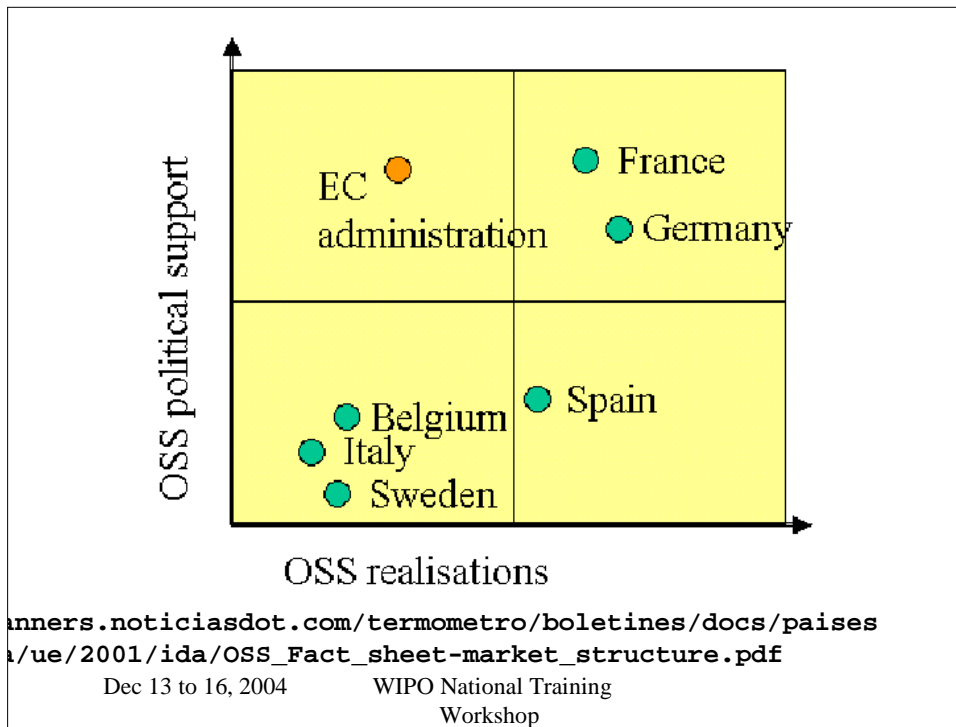
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## IT Vendors

## **HW/SW vendors supporting Linux**

- **IBM**
  - Linux on Intel servers, mid-range AS/400 (iSeries) and mainframes
  - should unify IBM heterogeneous platforms
- **HP**
  - Linux in addition to HP-UX and Windows
  - develop on Linux, deploy on Linux, Windows and HP-UX

[idei.asso.fr/Commun/Conferences/Internet/OSS2002](http://idei.asso.fr/Commun/Conferences/Internet/OSS2002)

[Papiers/Valduries.PDF](#)

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## **SW vendors**

- **Netscape**
  - Mozilla.org to manage development
  - NPL = compromise GPL/BSD
  - sale server software, services and content (with AOL)
- **Oracle**
  - commitment to Linux
  - high-value proprietary software

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## Service vendors

- Linux distributors
  - RedHat, Caldera, SuSe, Conectiva, TurboLinux, MandrakeSoft, etc
  - Sale customer support
  - UnitedLinux.com to unify the various distributions
- Application Service Providers
  - ASP1
  - OSS and proprietary software as service

[www.asso.fr/Commun/Conferences/Internet/OSS2002](http://www.asso.fr/Commun/Conferences/Internet/OSS2002)  
[Papiers/Valduriez.PDF](#)

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## Open source vs. closed source security!

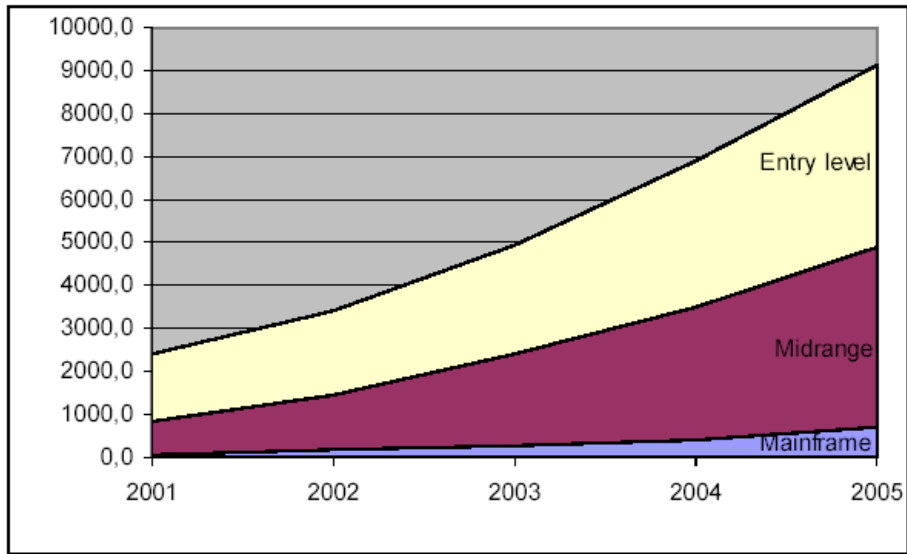
- “demand open source code for anything related to security”
- “Open Source Software certainly does have the potential to be more secure than its closed source counterpart. But make no mistake, simply being open source is no guarantee of security.”

[www.dwheeler.com/secure-programs/Secure-Programs-HOWTO.pdf](http://www.dwheeler.com/secure-programs/Secure-Programs-HOWTO.pdf)

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Illustration: Linux server market revenues, in Million \$



[annexos.com/termometro/boletines/docs/paises/ue/2001/ida/OSS\\_Fact\\_sheet-market\\_structure.pdf](http://www.annexos.com/termometro/boletines/docs/paises/ue/2001/ida/OSS_Fact_sheet-market_structure.pdf)  
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## OSS In Education

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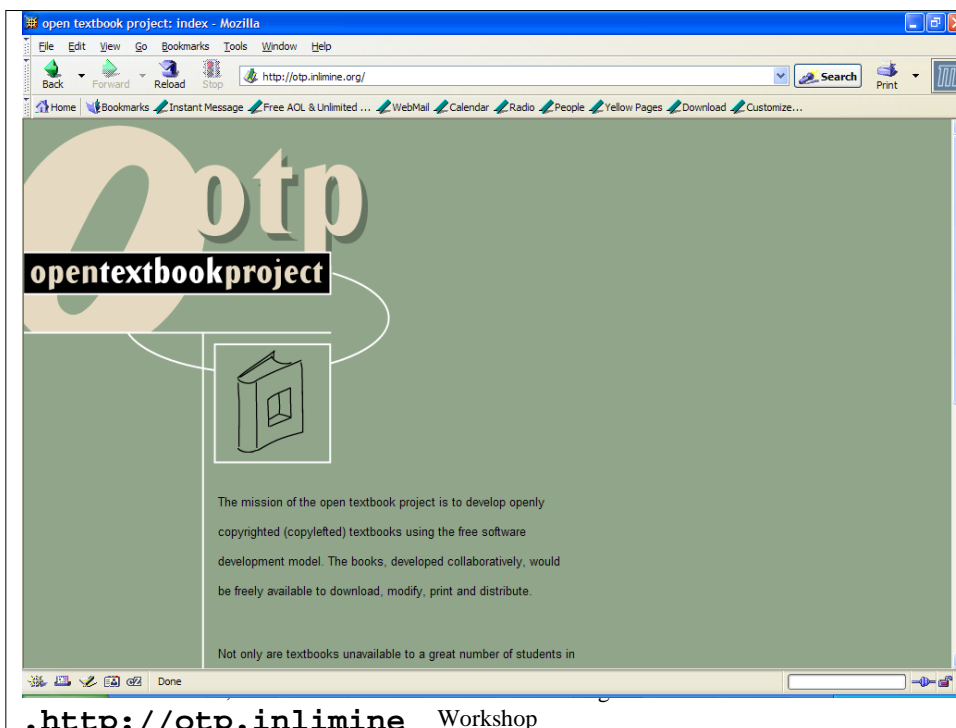
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## AT AUC

- The AUC mail system
- Computer science courses
  - Operating Systems
  - Security
  - Student Projects
  - Others...

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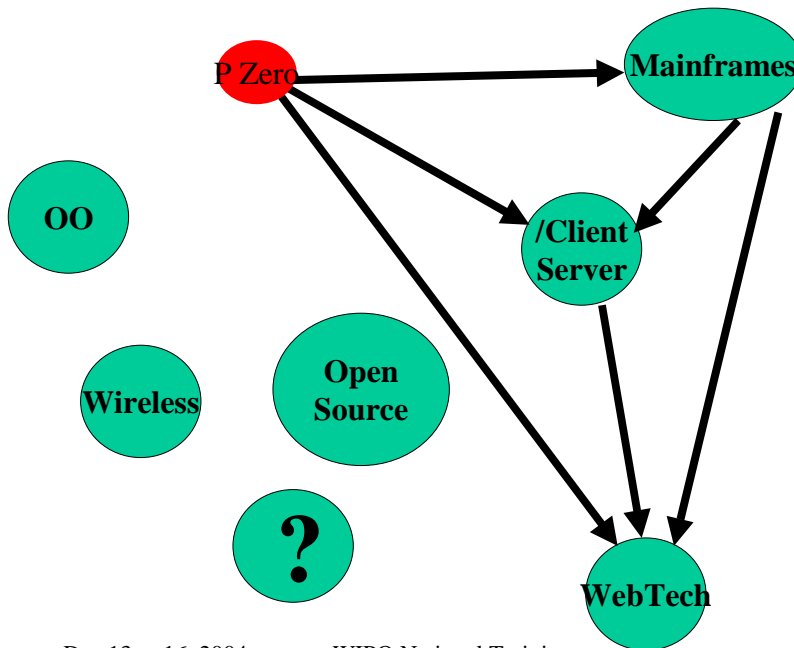
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## *Is it a Paradigm Shift?*

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**"As the rule goes, *when a paradigm shift occurs, everyone goes back to zero, which brings people back onto a level playing field or the same starting block.*"**

<http://www.transknowformance.com/page.cfm?name=aprilnewsletter>

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## Conclusions

- Is it a paradigm shift?
- It will not totally replace what we know
- But we can benefit from it greatly in:
  - CS and IT education
  - Research
  - IT security
- Others are building a new software (and copyright industry) based on new principals!

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## Questions?

### Links:

[sherif@aucegypt.edu](mailto:sherif@aucegypt.edu)

<http://www.cs.aucegypt.edu/~skassas/oss/>

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