

# Open Source The quiet revolution

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## Open Source The quiet revolution ...

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*First they ignore you,  
Then they laugh at you,  
Then they fight you,  
Then you win.*

*Mahatma Gandhi*



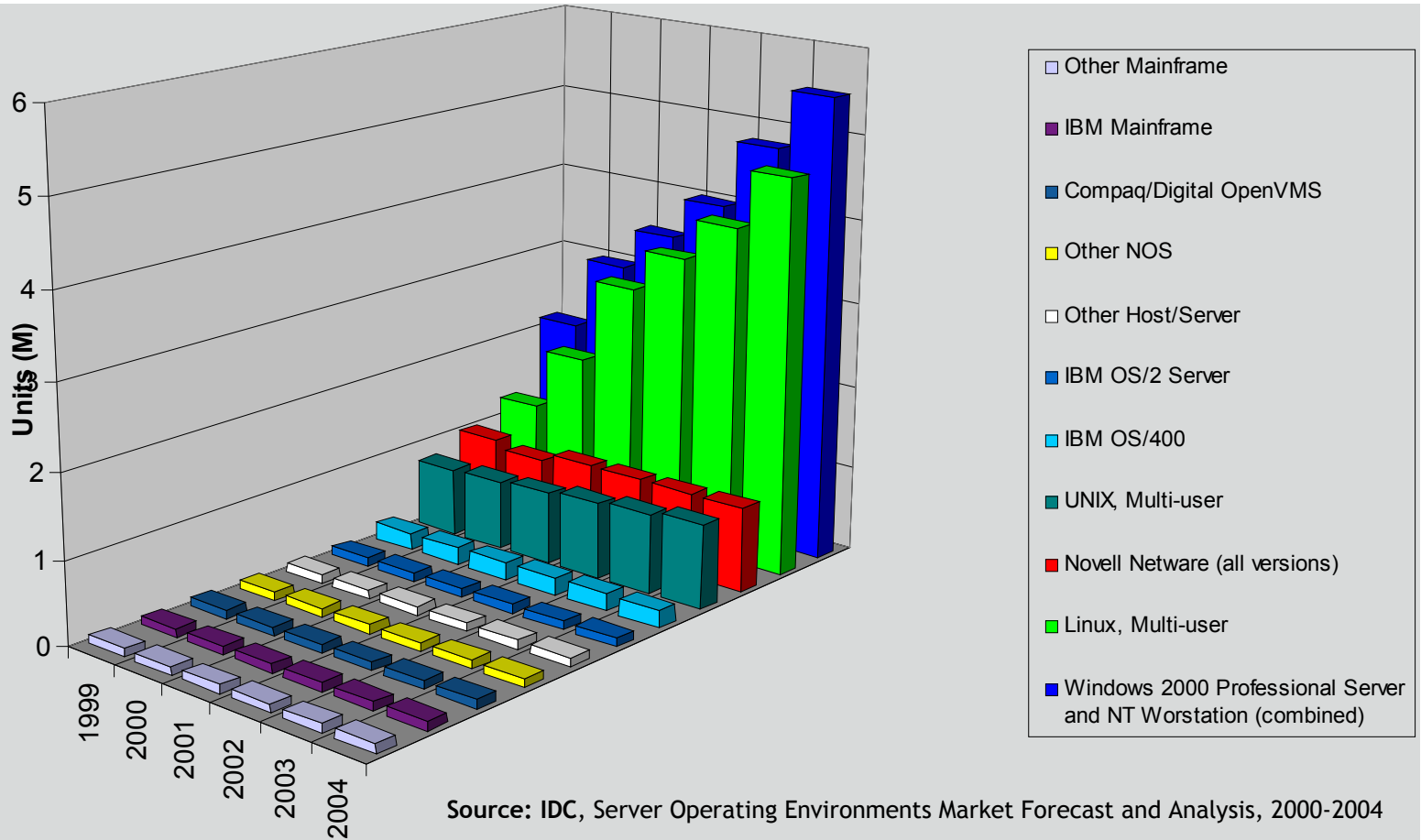
## Agenda

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- Linux
- Open Source
- Adoption boosters & barriers
- Perspective & Conclusion



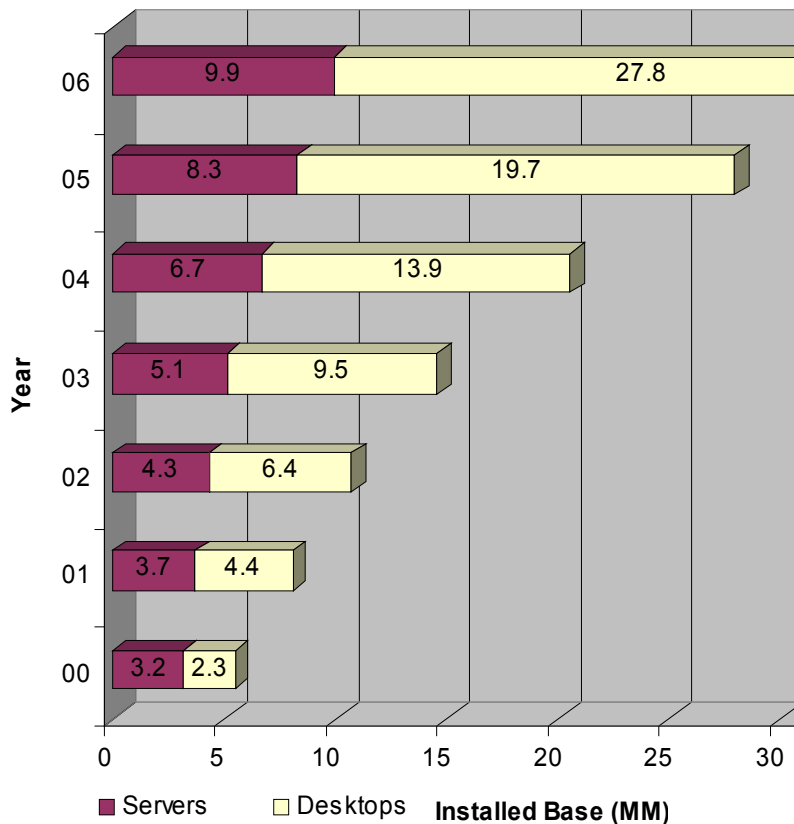
# Fast Linux Market Adoption - Facts IDC - Server operating environments





# Fast Linux Market Adoption - Facts

## IDC - Server & desktop installed base



### Server

- Installed base CAGR 21%
- 35% installed base share by 2006
- Move from edge servers to mission critical roles
- Investments from IBM, Dell, HP, Sun driving growth
- All major software players execute on a Linux strategy: Oracle, SAP, ...

### Desktop

- Installed base CAGR 44%
- 10% new unit share by '06
- 7% installed base by 2006

Source: IDC July 2002, Installed base units include revenue and free units, but exclude "multiple deployments", such as internal copying, mirrored web download sites, etc.

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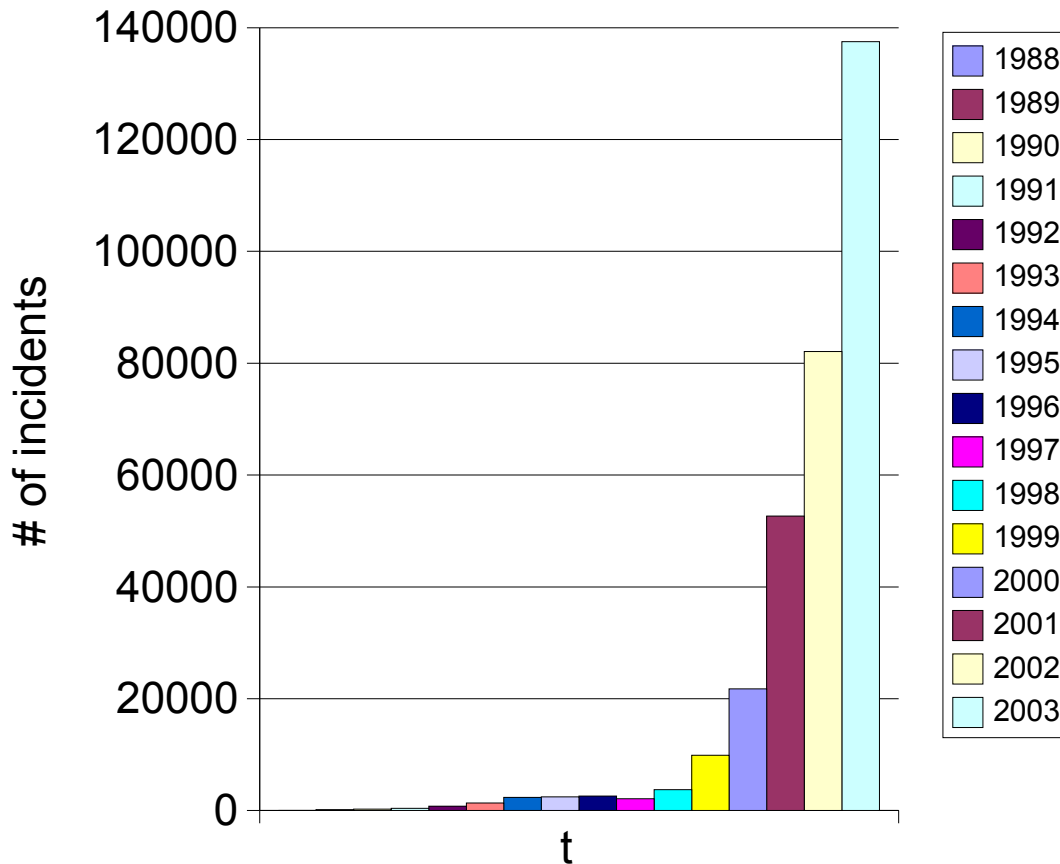
July 1, 2004

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## Fast Linux Market Adoption - Key Drivers Security => Source: [www.cert.org](http://www.cert.org)

### Incidents/year



- Things get real bad, example Slammer Worm
  - Infected 90% of vulnerable systems within 10 minutes
  - The number of infections double every 8.5 secs
  - Generating 55 Mio. scans/sec for vulnerable machines

Source: <http://news.zdnet.co.uk>

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## Fast Linux Market Adoption - Key Drivers TCO => Deutsche Bank



- ♦ A Deutsche Bank internal study showed that Intel-Linux provides a **ten-fold price/performance increase** when compared with Sun Solaris.
- ♦ Deutsche Bank migrated an application that performs risk calculation for financial derivatives to Linux. This took three days and was deployed to forty servers. The application now runs **twenty times faster** than before.
- ♦ Deutsche Bank also migrated four other systems to Linux and is planning more: these will not only replace Solaris, but several other flavors of Unix as well.

Source: Hermann-Josef Lamberti, CIO, Deutsche Bank  
<http://news.zdnet.de/story/0,,t101-s2126197,00.html>

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## Fast Linux Market Adoption - Key Drivers Freedom => Public sector & research

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CERN

Bundestag

City of Munich

Higher Education

Australian Bureau of Meteorology



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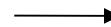
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## Open Source Software Overview

The term 'software' refers to two different but related things:

**Source code** - a set of human readable and understandable instructions that comprise the 'recipe' from which an executable program can be made



```
File Edit Search Mark Run Help
Run (F1) Pause Open (O) Save (S) Indent (I2) Print (P) Cut (X) Copy (C) Paste (V) Find (F) Find Next (F3) Replace (H)

//Declaring an inner class package (this is the one that uses the GUI class/package)
package javax.swing.JOptionPane;

//Naming the class "Namer"
public class Namer
{
    //main class program begins here
    public static void main (String args [])
    {
        //declaring variables that will store the input
        String firstName;
        String lastName;

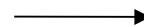
        //uses GUI interface to take in first name
        firstName = JOptionPane.showInputDialog ("Enter first name");

        //uses GUI interface to take in second name
        lastName = JOptionPane.showInputDialog ("Enter last name");

        //Displays the concatenated name in an output box
        JOptionPane.showMessageDialog (null, firstName + " " + lastName, "Full Name", JOptionPane.PLAIN_MESSAGE);

        //ends the system
        System.exit (0);
    }
}
```

**Object code** - the actual executable program which is compiled of machine readable source code. It is fed into a computer's microprocessor to perform various operations



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## Open Source Software Overview

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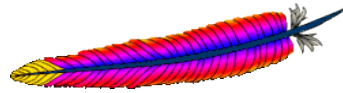
Open Source Software (OSS) is any software whose code is available for users to look at and modify freely

All Open Source projects have an owner

All Open Source projects are governed by some type of license agreement: GPL, etc

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## Open Source Software Examples of projects



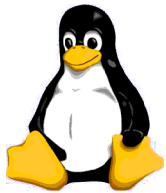
[httpd.apache.org](http://httpd.apache.org)



[www.mozilla.org](http://www.mozilla.org)



[www.mono-project.com](http://www.mono-project.com)



[www.linux.org](http://www.linux.org)



[www.openoffice.org](http://www.openoffice.org)



[www.mysql.com](http://www.mysql.com)



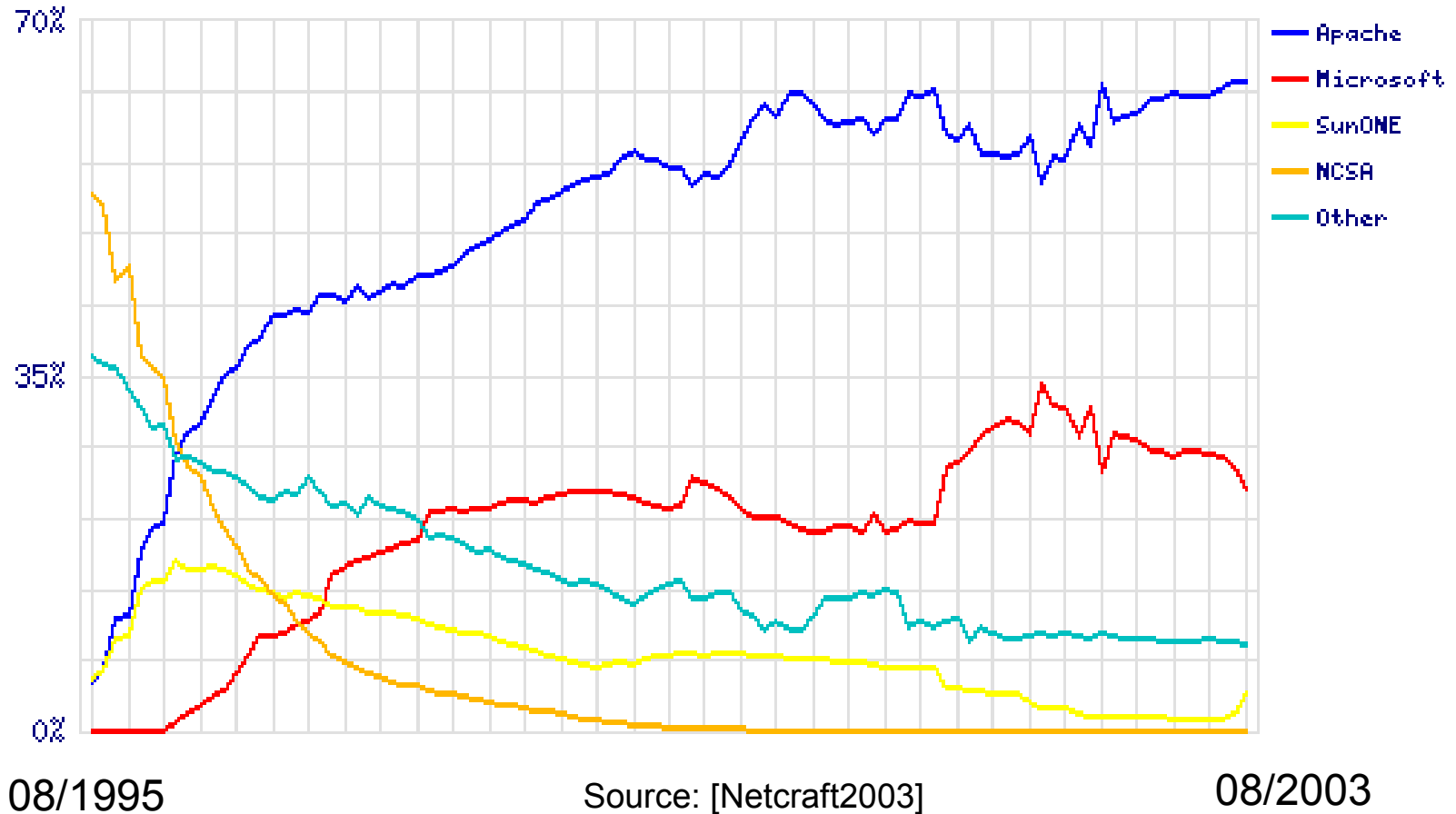
[www.postgreSQL.org](http://www.postgreSQL.org)



<http://foundation.gnome.org>

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## Open Source Software 43 Mio Webservers => 64% = Apache





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# Open Source Software Advantages & disadvantages

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## Advantages of OSS:


- Access to Source code
- Rapid development
- Security
- Low Cost
- Openness and trust
- Standards compliance
- Great community spirit
- Peer review = higher quality

## Disadvantages of OSS:

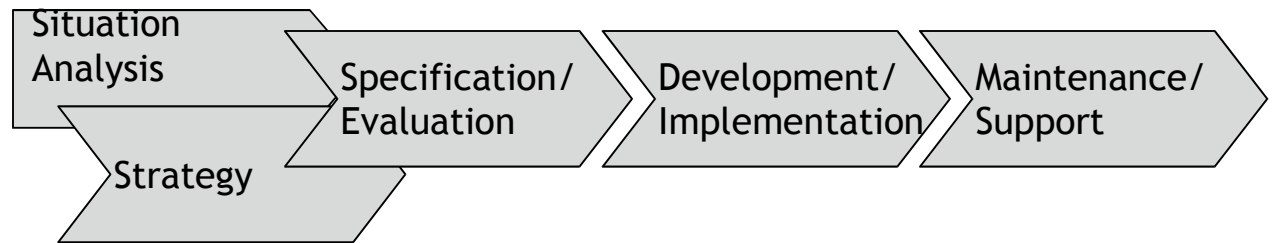
- Intellectual property issues, patents on algorithms,...
- Potential lack of support and consulting
- Challenging to manage so much change so fast
- Too much choice?
- Difficult to gather information about a product

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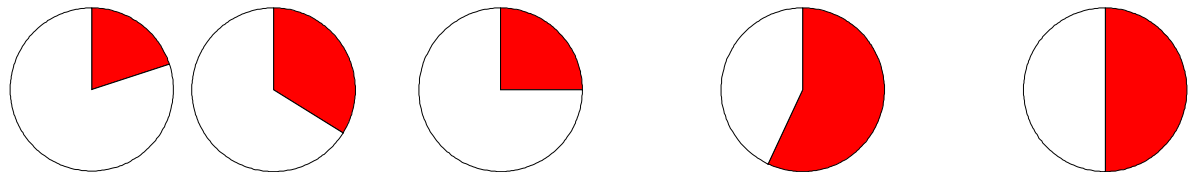
# Open Source Software Challenges and how to overcome them

 Percentage of respondents seeing major challenge

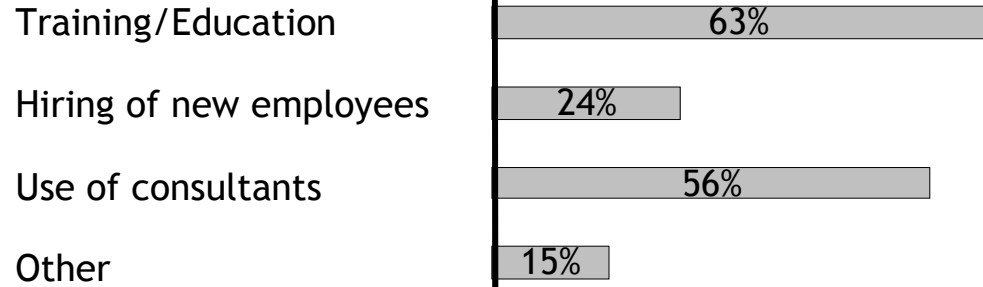
Phase:



Magnitude of challenge:



Mean to overcome challenge:





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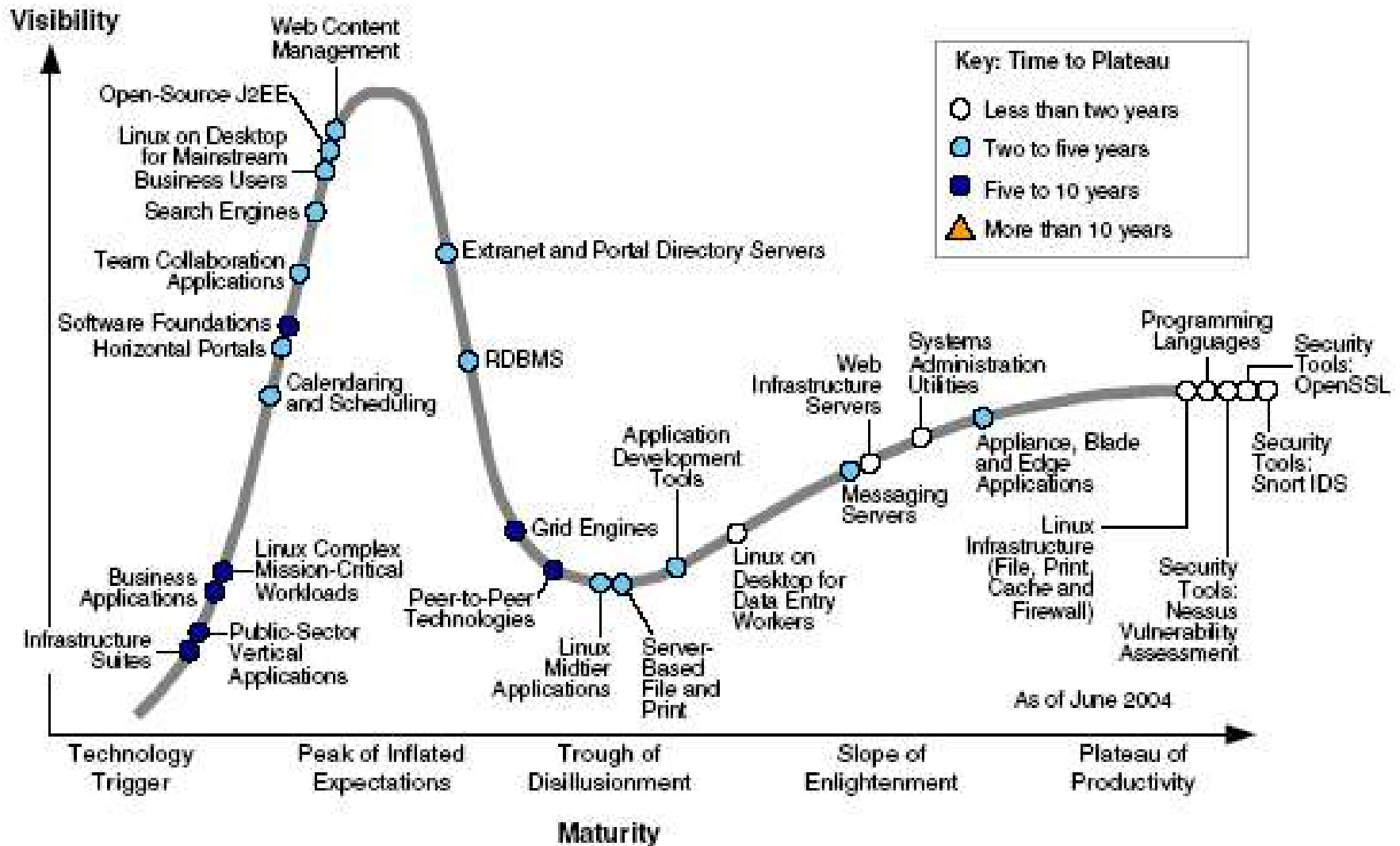
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## Perspective from Gartner Hype cycle for open source (June 2004)



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## Conclusion Open source, the quiet revolution ...

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“Major enterprises are running mission-critical functions on open-source IT. Big vendors have lined up to support it or port their applications to it. CIO’s who have implemented it report significant reductions in total cost of ownership.

Our conclusion? **CIO’s who don’t come to terms with this revolution in 2003 will be paying too much for IT in 2004”**  
– *CIO Magazine*



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# Questions ?

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