



Open Source Backbone for Web 2.0 (Featuring GlassFish, MySQL & Open Solaris)

Mickey Fan
Sun Microsystems Inc.



Agenda

- 1.Introduction
- 2.Web 2.0 Ecosystem
- 3.Open Source Database on the Rise - MySQL
- 4.Core Engine for Application Development - GlassFish
- 5.Manage Innovation – OpenSolaris
- 6.Summary

Objective

Experience sharing

Who am I?



Technology Evangelist

Why you need to buy two mobile phones?

J2ME - Bluetooth enablement



Java is Everywhere

Behavior Programming using lejos



My first Java Exam Badge

Achieved Sun Certified Java Programmer in 1997



As of Today....

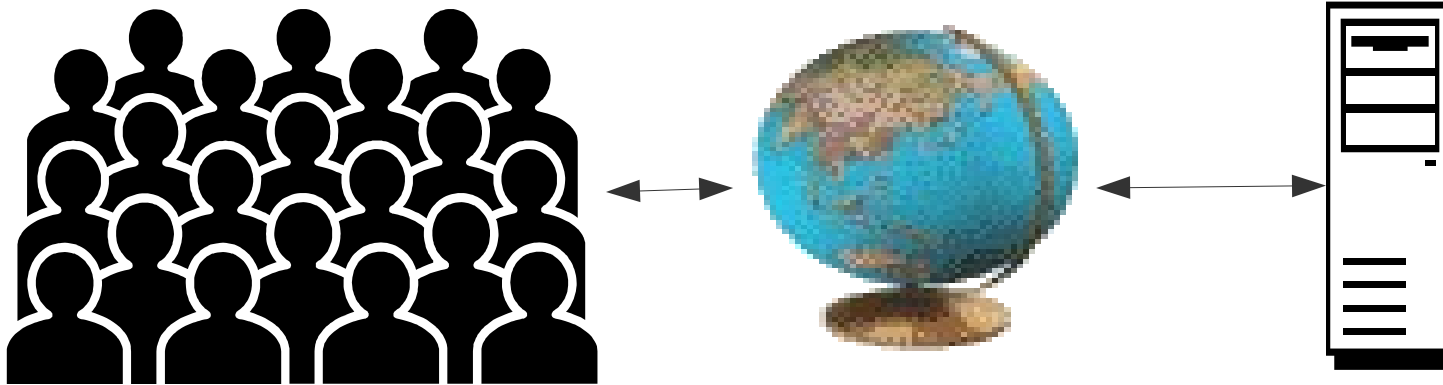


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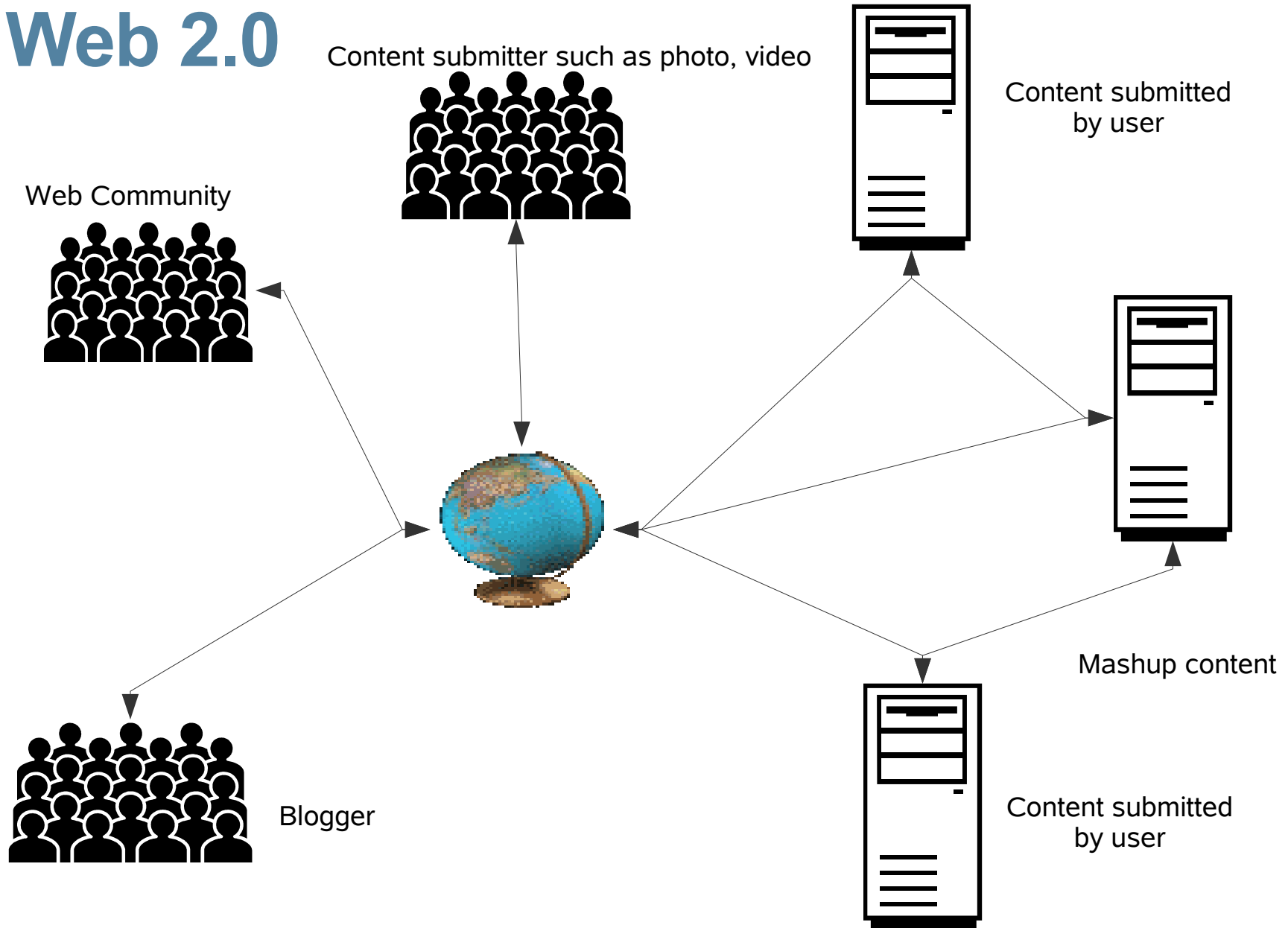
What's Web 2.0?

Web 1.0



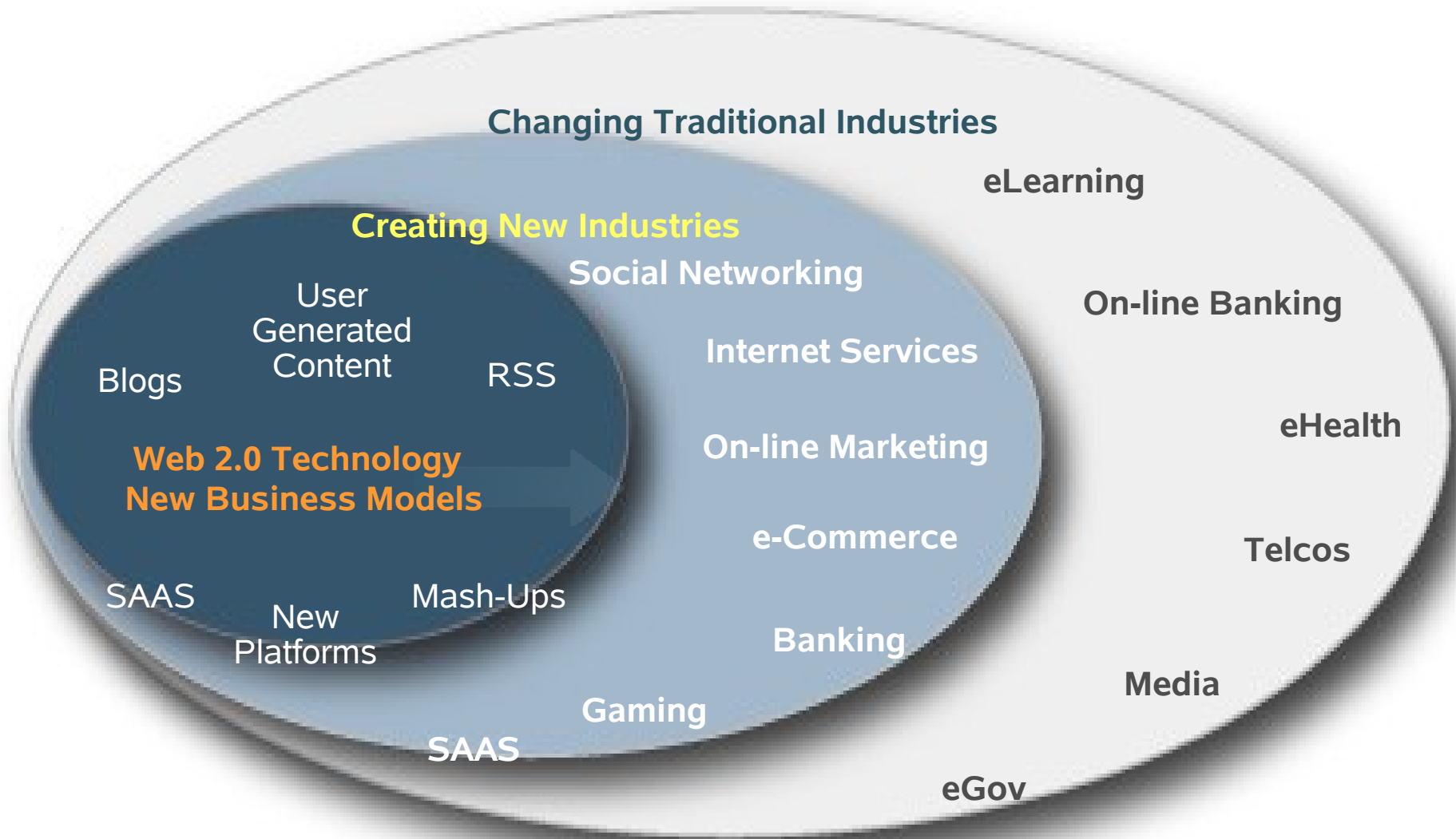
Predefined Web Application
Content Management Engine
Track Usage Pattern

Web 2.0



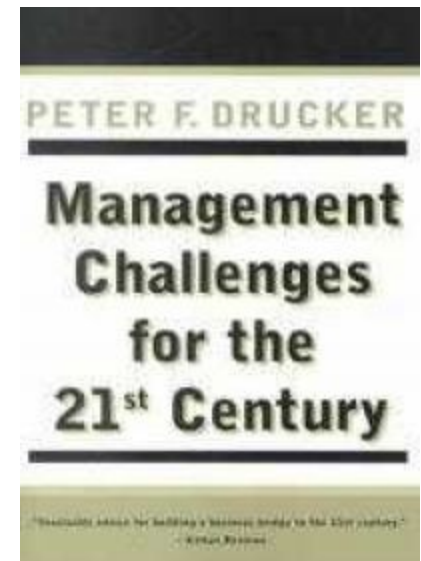
How we make use of this shared content?

Web 2.0 Technology – The Impact!



Management Challenges for the 21st Century

Peter Drucker
1909-2005



Knowledge-Worker Productivity

The most valuable asset of a 21st century institution, whether business or non-business, will be its **knowledge workers** and their **productivity**.

Global Knowledge Worker

- Knowledge workers' responsibility for their own contribution – knowledge worker's decision what he or she should be held **accountable** for in terms of quality and quantity, in respect to time and in respect to cost. Knowledge workers have to have **autonomy** and that entails responsibility
- Continuous **innovation** has to be built into the knowledge worker's job.
- Continuous **learning** and continuous **teaching** have to be built into the job.

Software Industry go Global

Developers



The New Business Reality



**Global Internet Economy
Dictates New Software Needs**

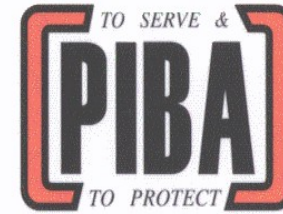
- Massive Scale: Consumers, services, data
- Blazing performance and throughput
- Faster and dynamic delivery
- Convergence of Content and Software
- Assurance of future flexibility and choice



Certified Financial
Analyst



Certified Financial Planner



Professional Certification
on Insurance

Moving towards Knowledge Economic



ITIL Certification



Certified Accountant



Project Management
Professional

The evolving software developer

1970s and 1980s

Development Cycles

Deployment Cycles

- Waterfall programming
- Development cycles last years
- Formal deployment plans
- Long deployment cycles
- Linear infrastructure scale
- Little integration with other software

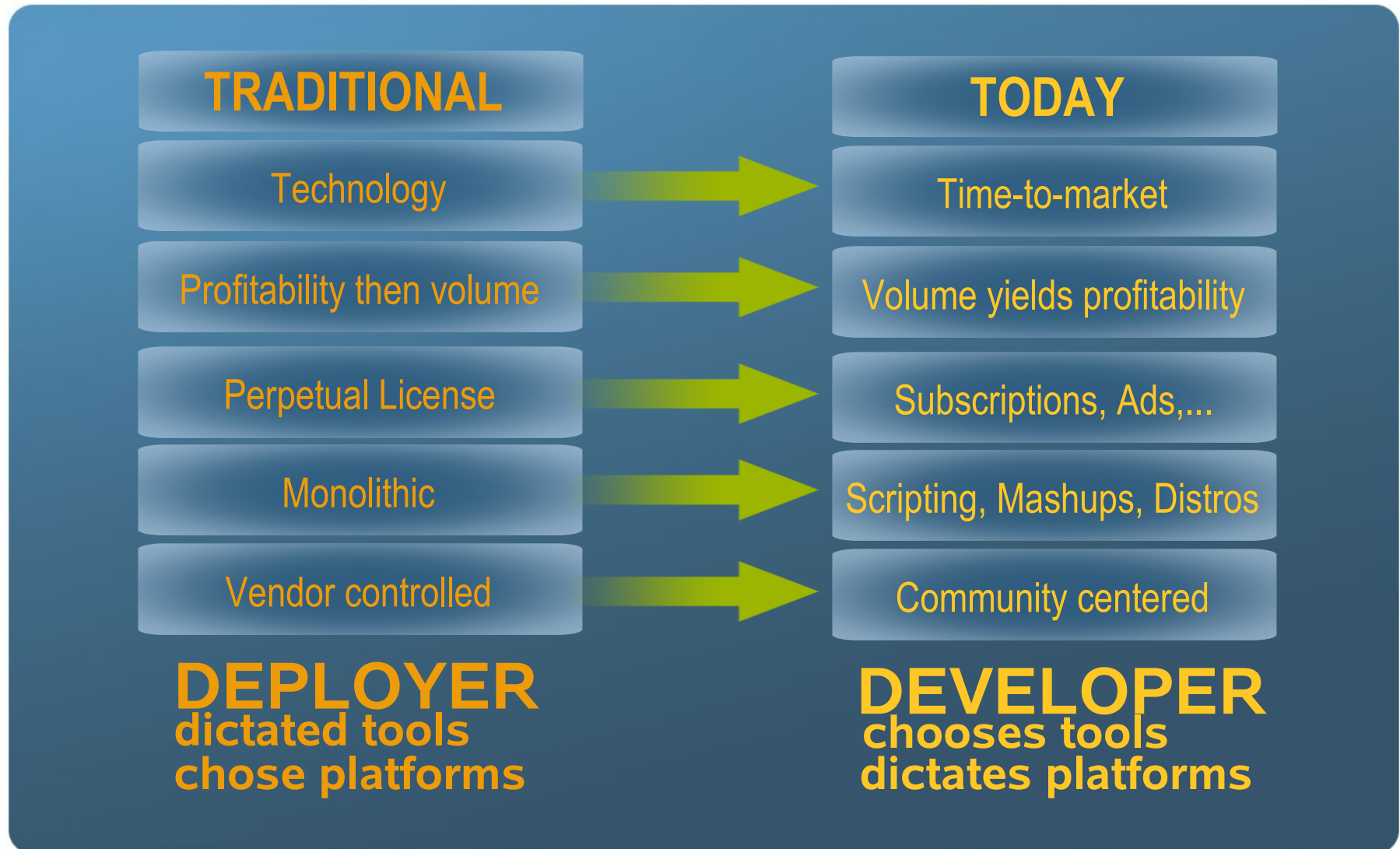
1990s

- Agile programming
- Dev cycles last months
- Formal deployment plans with shorter deployment cycles
- Linear infrastructure scale
- Lots of integration with proprietary software

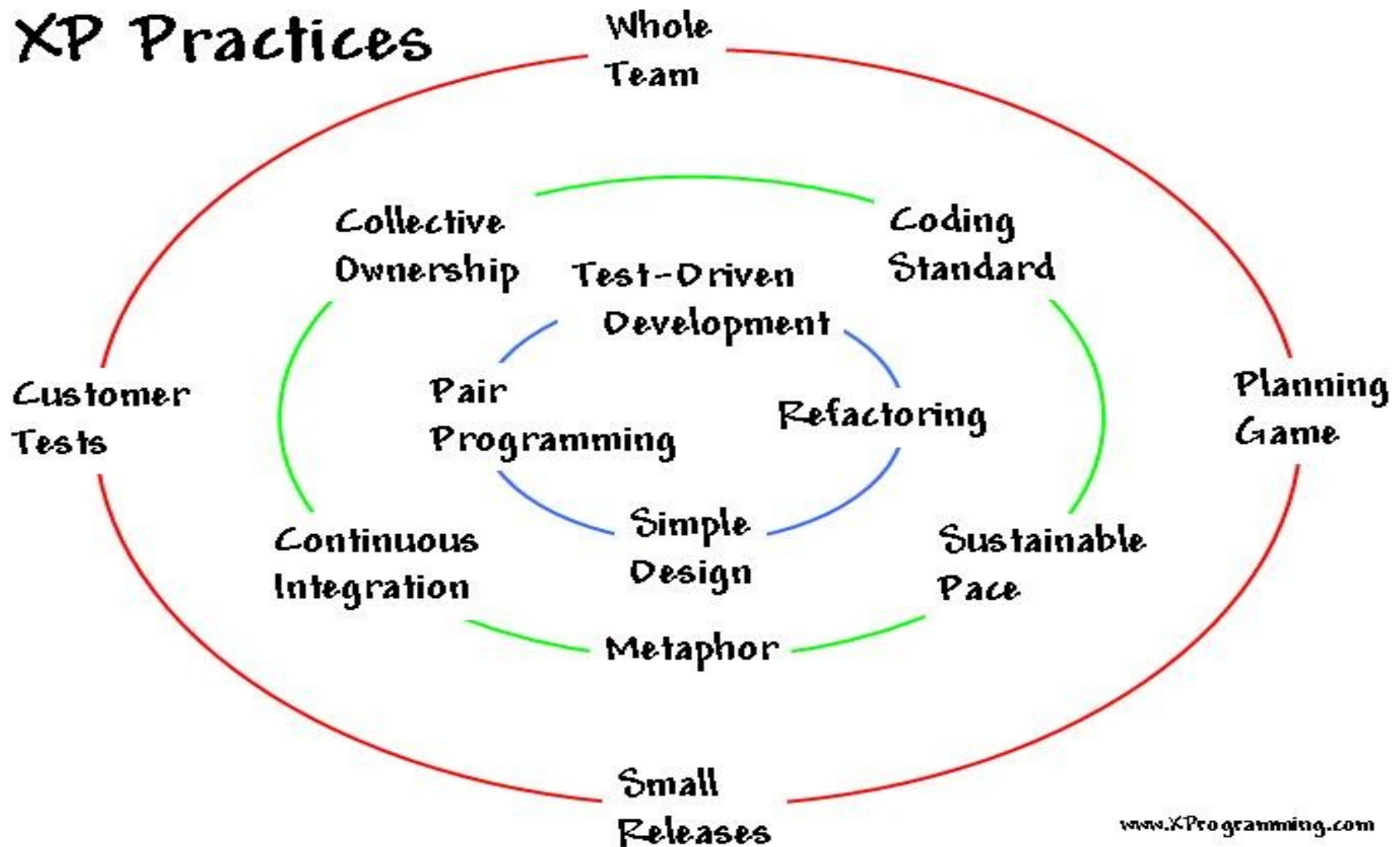
2000s

- Extreme programming
- Dev cycles hours/days
- Developer is often the deployer: immediate move from development to deployment
- Non-linear infrastructure scale
- Lots of innovation on top of open source platforms

Software development has changed



XP Practices



Global IT and Web 2.0 challenges

Cost

Scale

Integration

Time to Market

Software developers are evolving to meet these challenges

Web 2.0 and Open Source

- Open Source Encourage Innovation
- Best way to deploy web 2.0 – open source infrastructure
- Innovative Pricing is the key
- No barrier for Entrance
- Web 2.0 and Open Source keep changing

Open source economy is on the rise

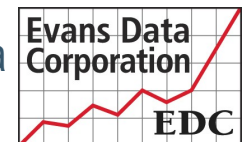


“By 2012, more than 90% of enterprises will use open source in direct or embedded forms”


Open source economy is in the rise

"According to Evans Data's 2007 Emerging Markets Development Survey, which covers Brazil, Russia and Eastern Europe, India, and China, 69 percent of respondents said they are using open-source software, up from 59 percent six months ago."

Evans Data



Open source economy is in the rise







































"Over the past few years, we've seen many interesting business model innovations. We believe 2008 will mark the year that several large vendors and their respective partner ecosystems take these business model shifts mainstream." IDC

IDC: Worldwide Software Business Strategies 2008 Top 10 Predictions, Doc #210334, January 2008



































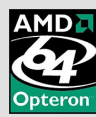

Sun's platform for the network economy

Comprehensive open portfolio delivering customer choice

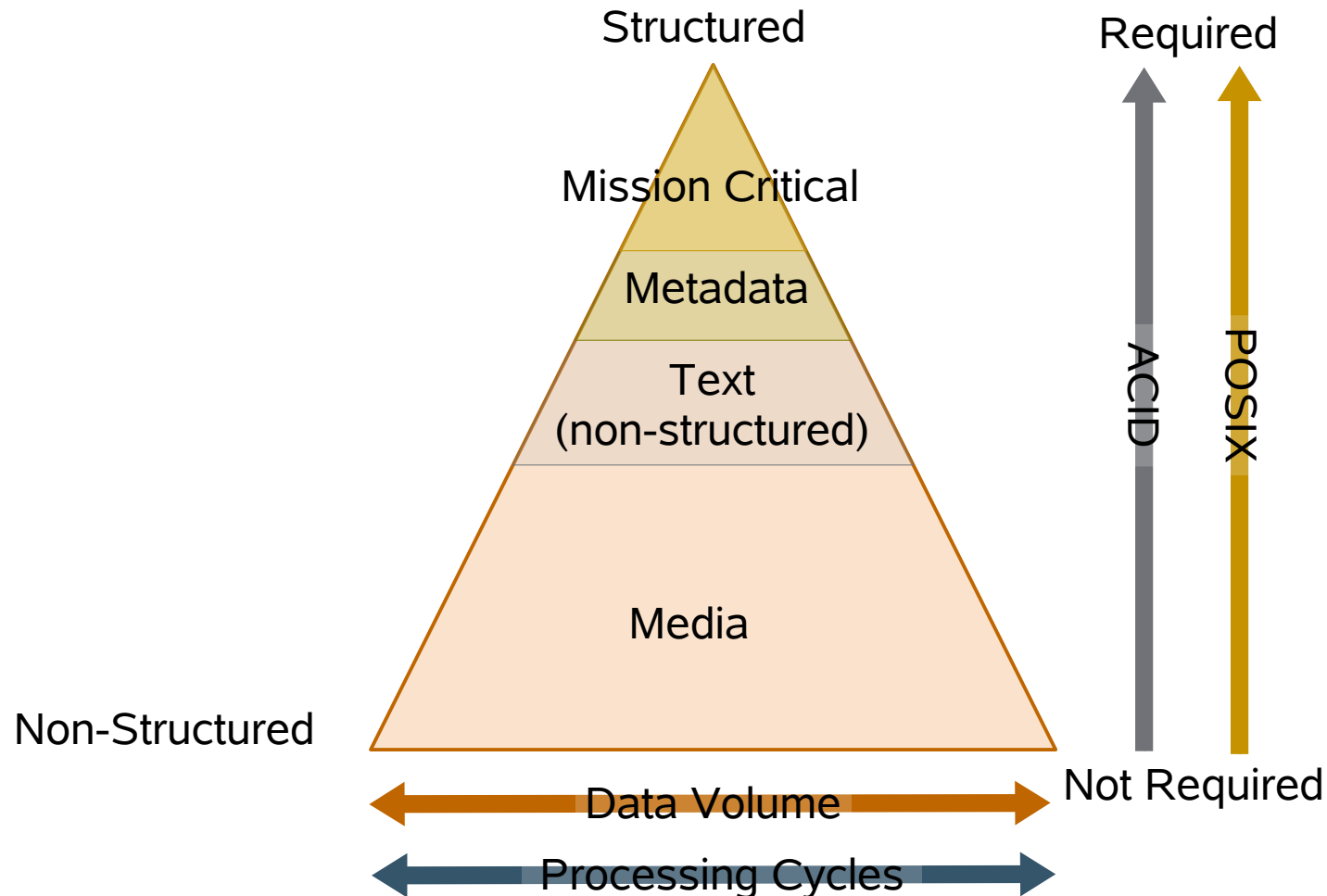
Developer Environment	 NetBeans   	 	
Database/Storage Platform	   	  	
Application Infrastructure	  OpenSSO, OpenESB, OpenDS	  	
Virtualization	xVM, Ops Center, Grid Engine		 
Operating System	 	   	
Systems	 	   	
Microprocessor	   		

Sun's platform for the network economy

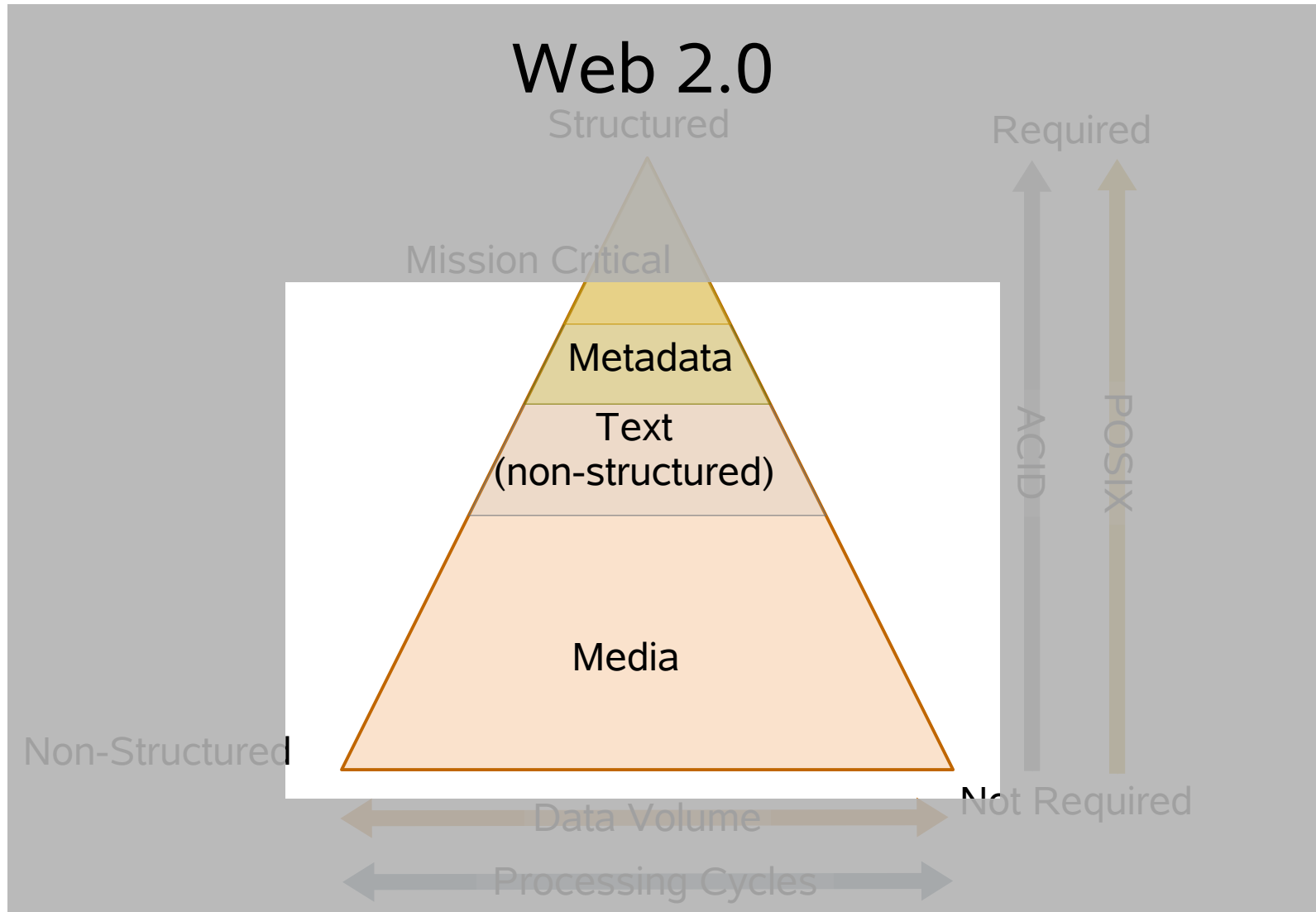
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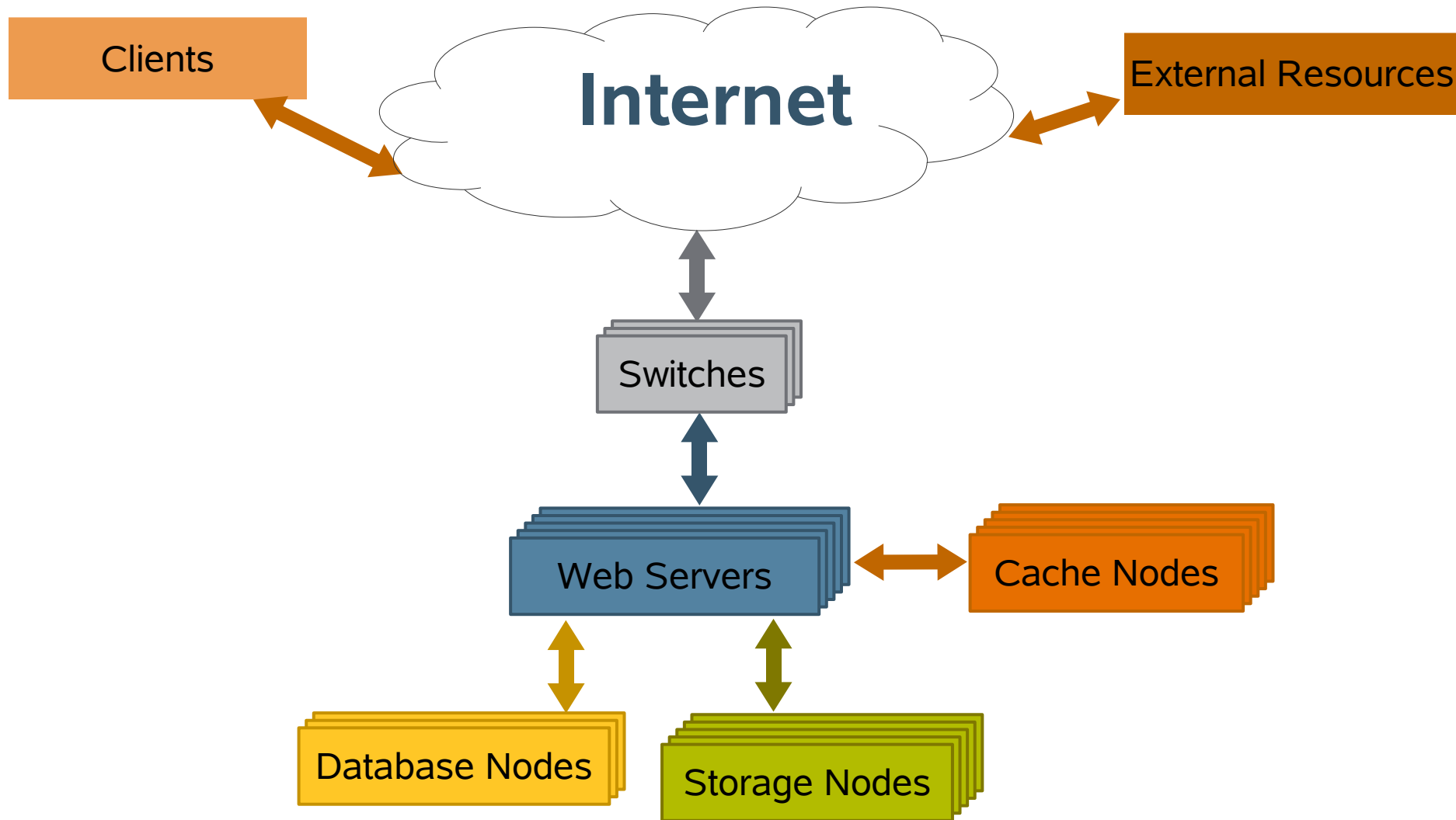
Web 2.0 Data Characteristics



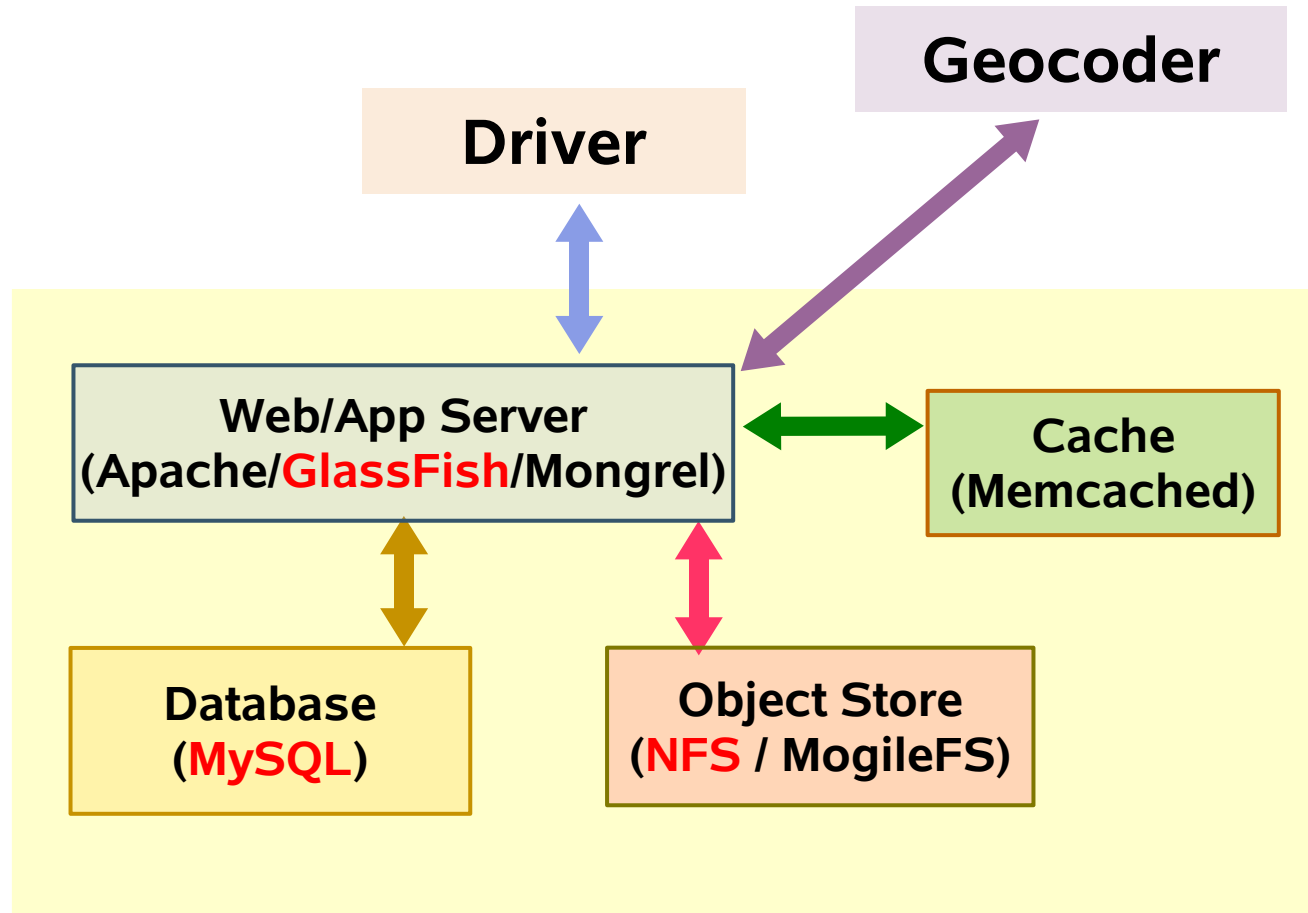
Web 2.0 Data Characteristics



Scalable Web Architecture



Sun Web 2.0 Architecture



Open source generates customer leads





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