## **Applications** Moving to the Cloud





ORACLE SAP PeopleSoft. SIEBEL. Microsoft



1960's Mainframe 1980's Client/server, n-tier

Today Cloud Computing Applications



## **Platforms Moving to the Cloud**





# **Cloud Computing is a Better Model**



Multi-tenantNo Capital ExpensePay-as-you-goModest Operating ExpenseElasticScales With Your Business

<sup>44</sup> Multi-tenant application platforms represent the state of the art foundation for cloud-based business applications.

Yefim Natis, VP, Distinguished Analyst





# **Understanding Cloud Platforms**

that you manage



apps



### Force.com is Cloud Computing for the Enterprise

We do Infrastructure Services	We do Application Services	We do Operations Services	YOU get to focus on innovation
Network Storage Operating System Database	Security Sharing Integration Customization	Authentication Availability Monitoring Patch Mgmt	Build your data model Build your business logic Build your user interface
App Server	Web Services	Upgrades	
Web Server	API	Backup	
Data Center	Multi-Language	NOC	



## Force.com: Lower Cost, Faster, Higher Quality **Compared to Java and .NET**





WHITE PAPER



# **Application Characteristics**

### Good Fit Characteristics

### Relational Database

- Lots of structured data
- Need referential integrity
- Search, reporting, auditing

#### Business Processes

- Data-driven workflows
- Human approval processes
- Integration with other business systems

#### User Management

- Administration
- Granular access control
- Hierarchy

#### - User Interface

- Intuitive for business users
- Multi-language/currency
- Browser, mobile, rich client

### Bad Fit Characteristics

#### Mostly non-relational data

- Video/audio/binaries
- "write-only" RFID logs

#### Raw computing

- Physics simulations
- Brute-force code-breaking

#### Few/no end users

- Data mining
- Video encoding



# **Evaluating Applications and Use Cases**

- Technical Fit
  - Will it work?
- Complexity
  - How much will it cost to implement?
- Risk / Reward
  - Will there be big rewards?









## **Develop a repeatable model**





# **Enterprise Architecture Standards**

- Architecture Standards
  - Application Security Architecture
  - Deployment Location
  - Integration Architecture
  - Data Management
  - Reporting / BI
  - Application Services
  - Development Processes



## **Vision: Move Focus from Infrastructure to Information**





### This has an architectural impact on:

- Business Processes
- Business Intelligence
- Security
- IT Skills
- Governance Models
- IT and Business Roles
- Enterprise Infrastructure
- Client Devices

