

Xuropa Inc.

<http://www.xuropa.com/save>

EDA and Cloud Computing

ELECTRONIC DESIGN
PROCESSES (EDP) 2010
SYMPOSIUM WORKSHOP

James Colgan
CEO
San Francisco
james@xuropa.com
(415) 867-9506



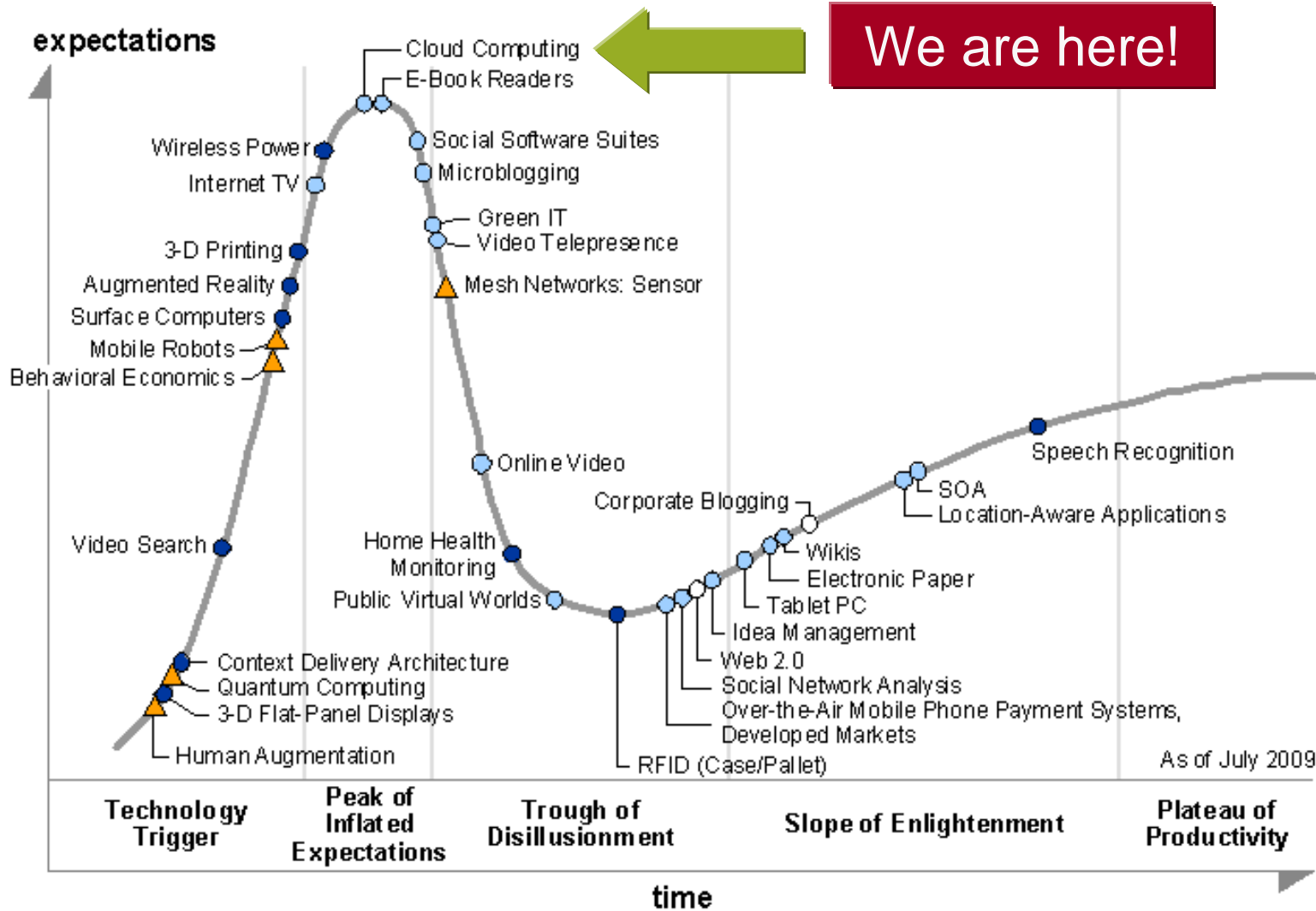
The New York Times



- 4 terabyte archive with 11M docs to convert to PDF
- Harnessed 100 virtual servers at a cloud provider
- Converted the catalog in 24 hours of compute time
- Total cost for computing? \$240

Doing More with Less

The Cloud Hype-Cycle

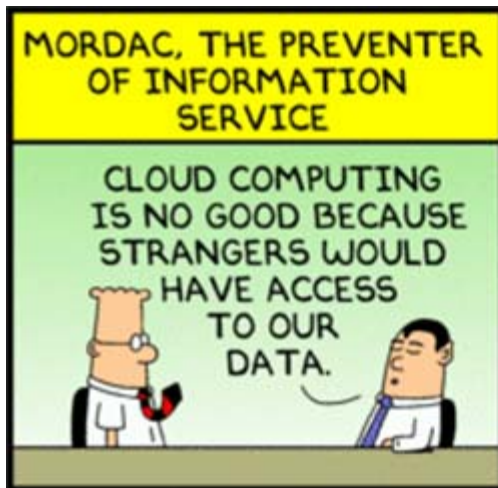


Years to mainstream adoption:

- less than 2 years
- 2 to 5 years
- 5 to 10 years
- ▲ more than 10 years
- ⊗ obsolete before plateau

Source: Gartner (August 2009)

FUD Factor



Practical Problems to Solve

EDA Vendor



Globalization



Cost of Sales



Pre/Post-Sales
Support Costs

IDM



Data Center Growth



Hardware Costs



Software IT Costs



The Cloud Computing Stack

Software-as-a-Service
(SaaS)

Software User
Interface

salesforce.com

Quicken
ONLINE

Gmail
by Google

Platform-as-a-Service
(PaaS)

Platform Specific
IDE & Services


Azure

force.com
platform as a service

Google
App Engine

Infrastructure-as-a-Service
(IaaS)

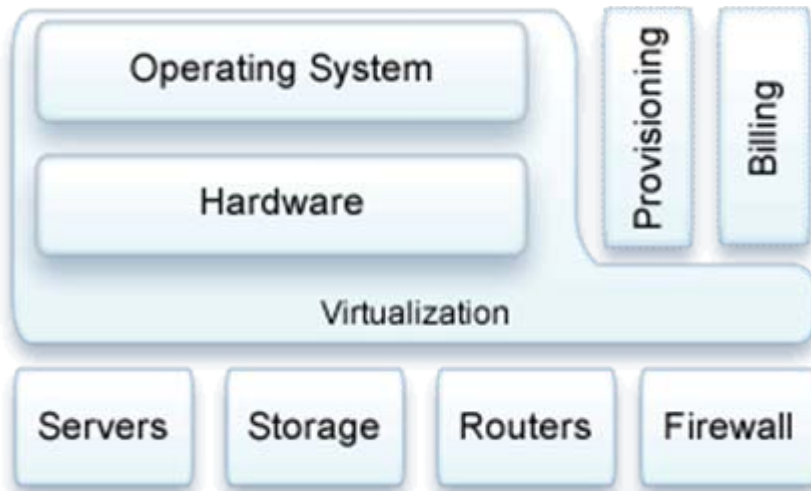
Virtualized Remote
Compute Resources


amazon
web services™


E-GRID

Everything above IaaS is a “re-write”

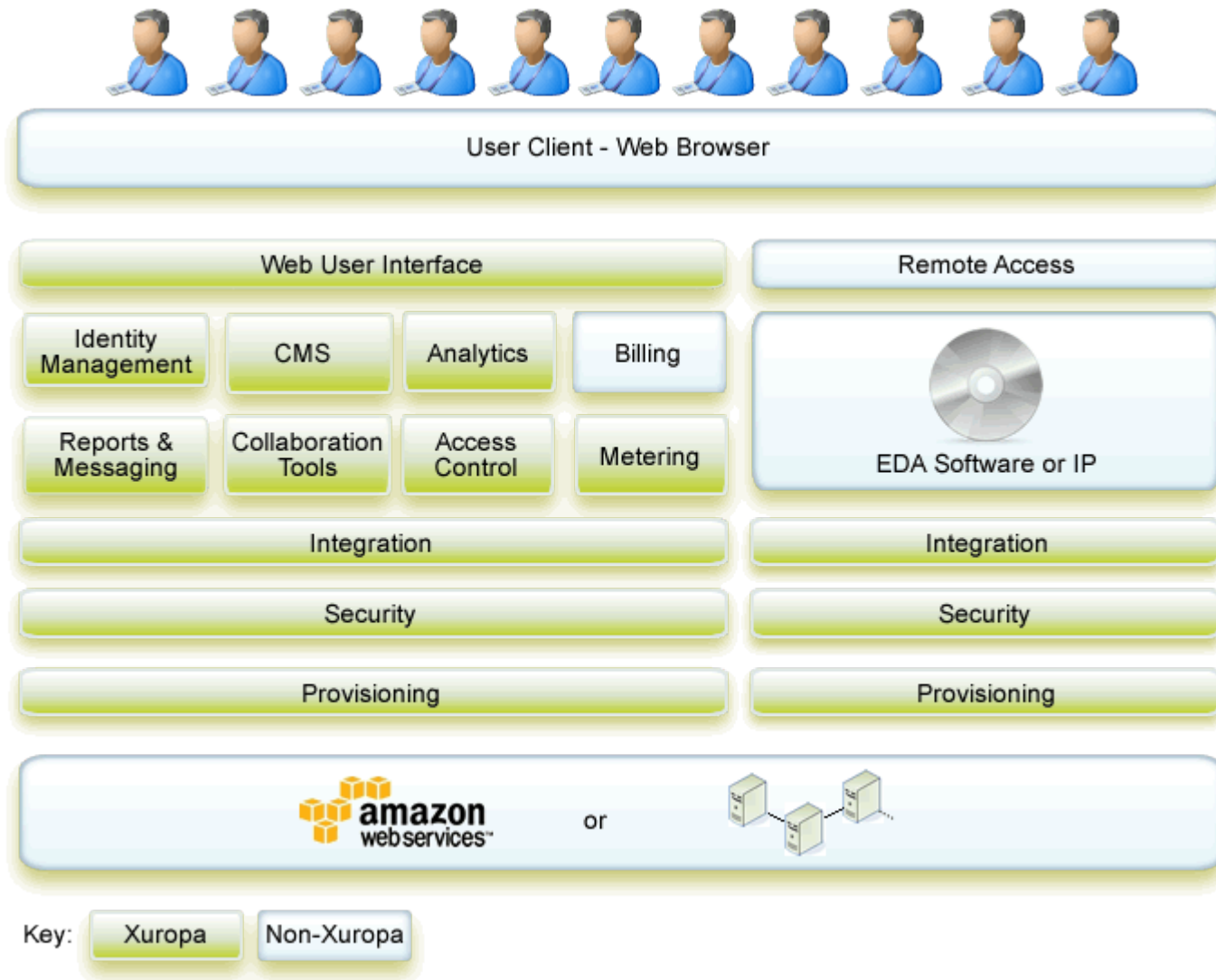
Infrastructure-as-a-Service



- Scale users?
- Provisioning Automation?
- License Management?
- Access control?
- Access security?
- Client-side installs?
- Server-side installs?
- Collaboration tools?
- User management tools?
- Cloud portability?
- Instance management?
- IT overhead?

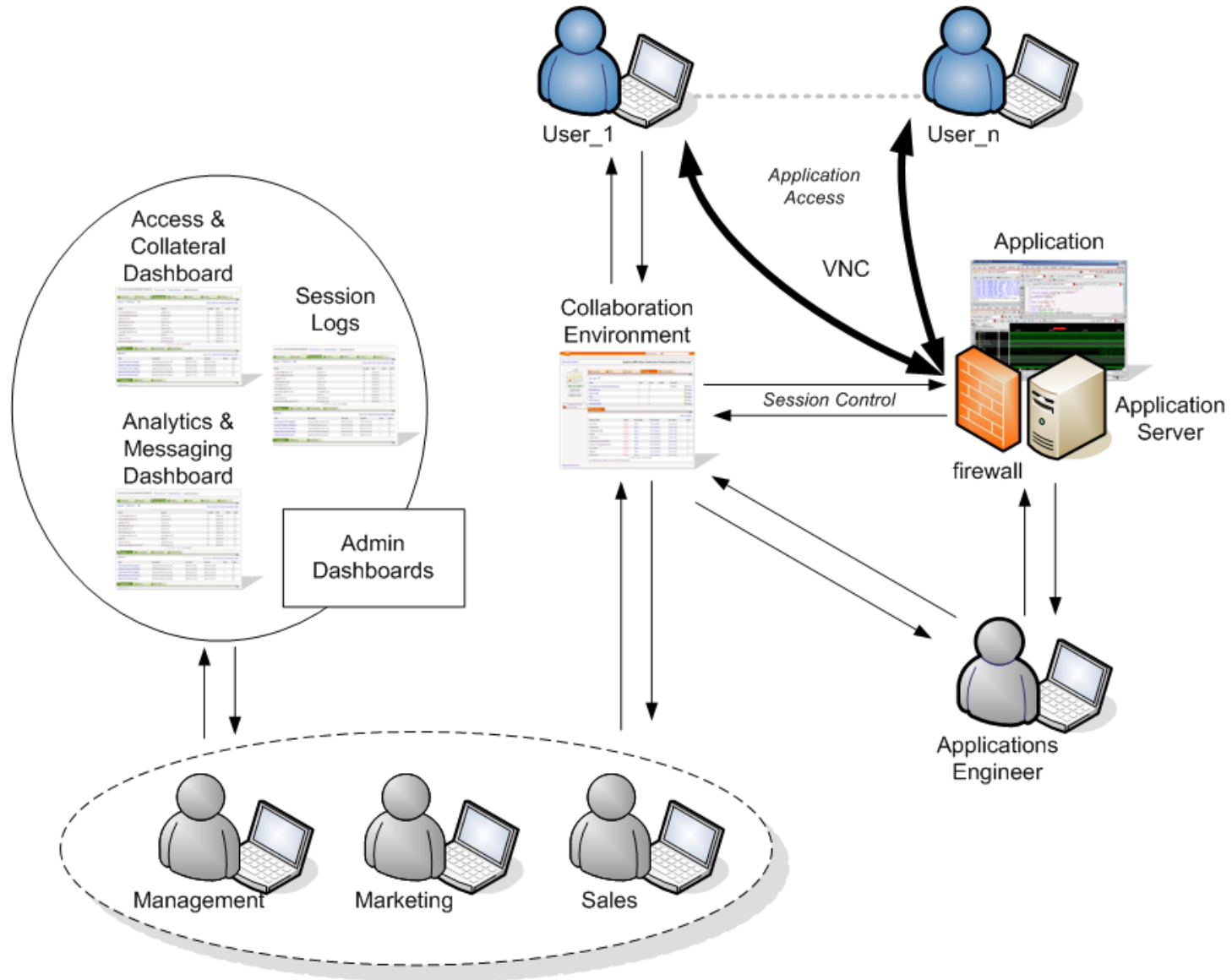
Need to convert IaaS into
a Platform to Scale

Xuropa Platform



- Per Session Secure Access & Encryption
- FlexLM License Management
- Zero IT overhead
- Automated Provisioning & Scalability
- Cloud portability
- No client-side installs
- Collaboration tools
- Management tools

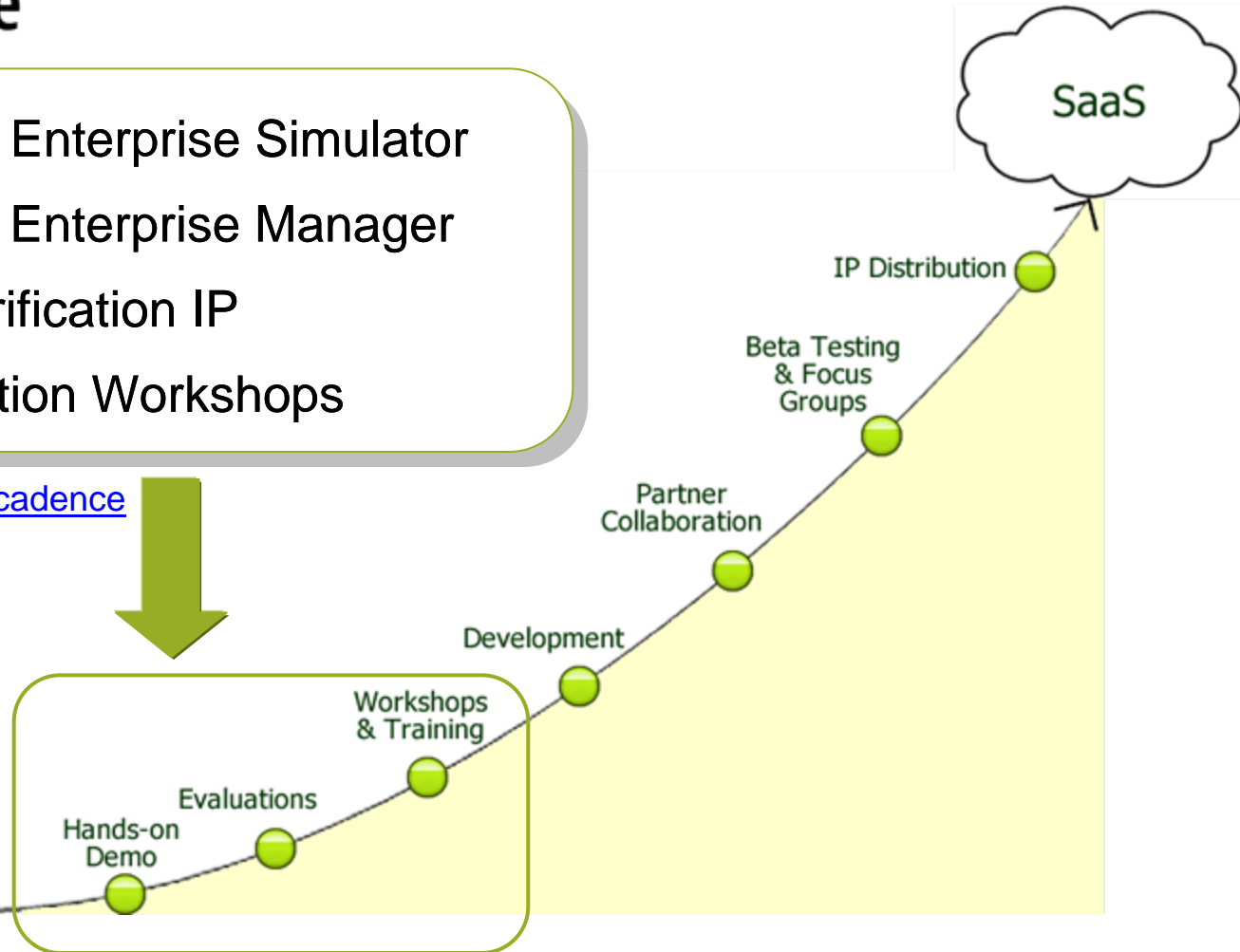
Access & Management Overview



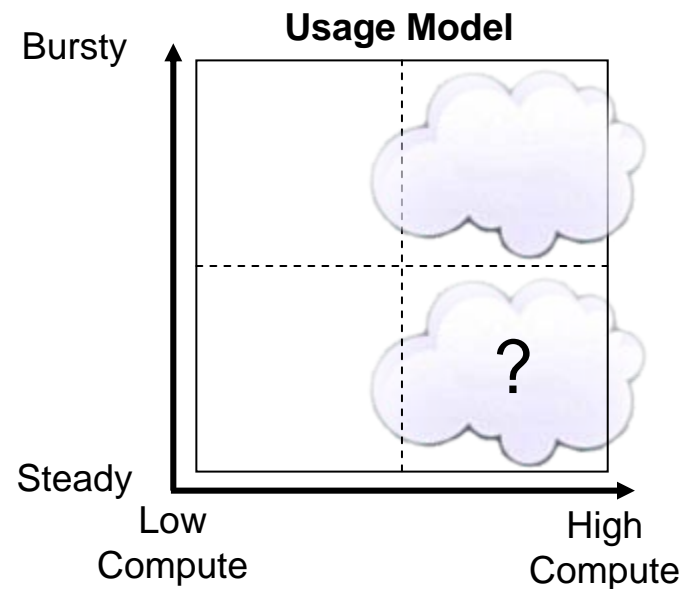
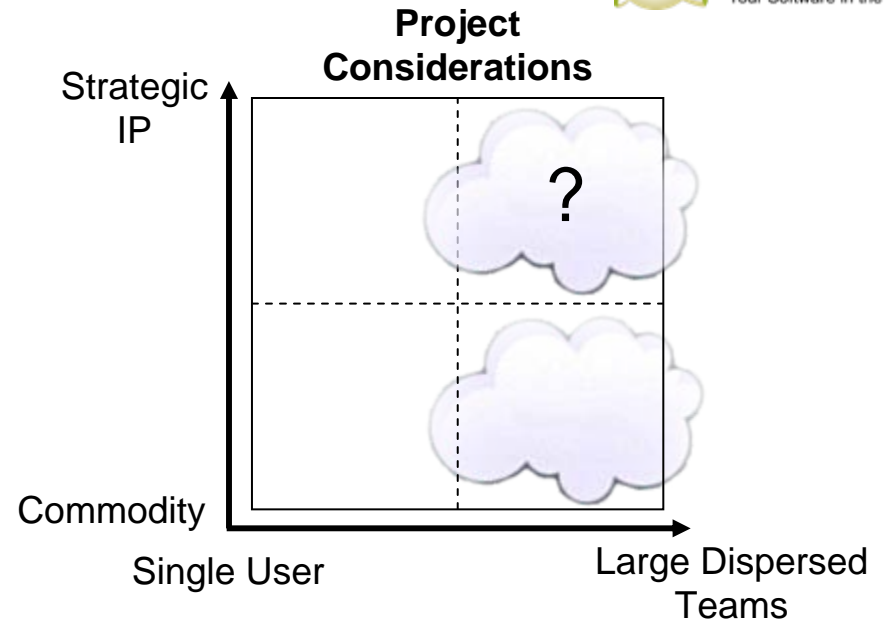
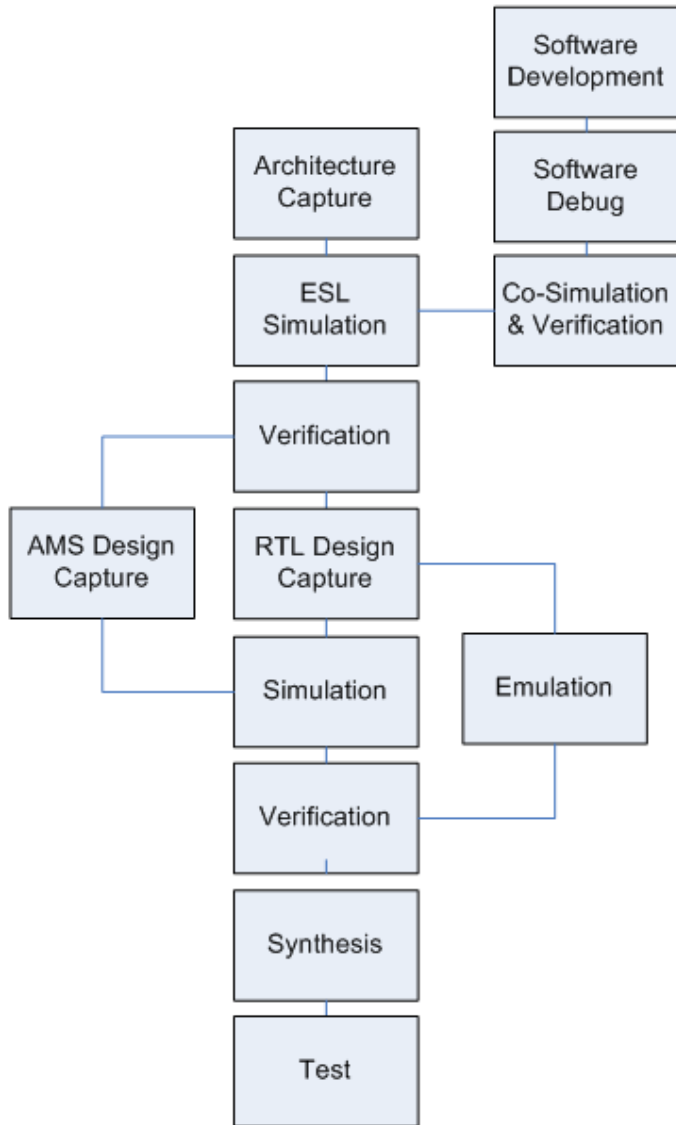
cādence™

- Incisive Enterprise Simulator
- Incisive Enterprise Manager
- >40 Verification IP
- Verification Workshops

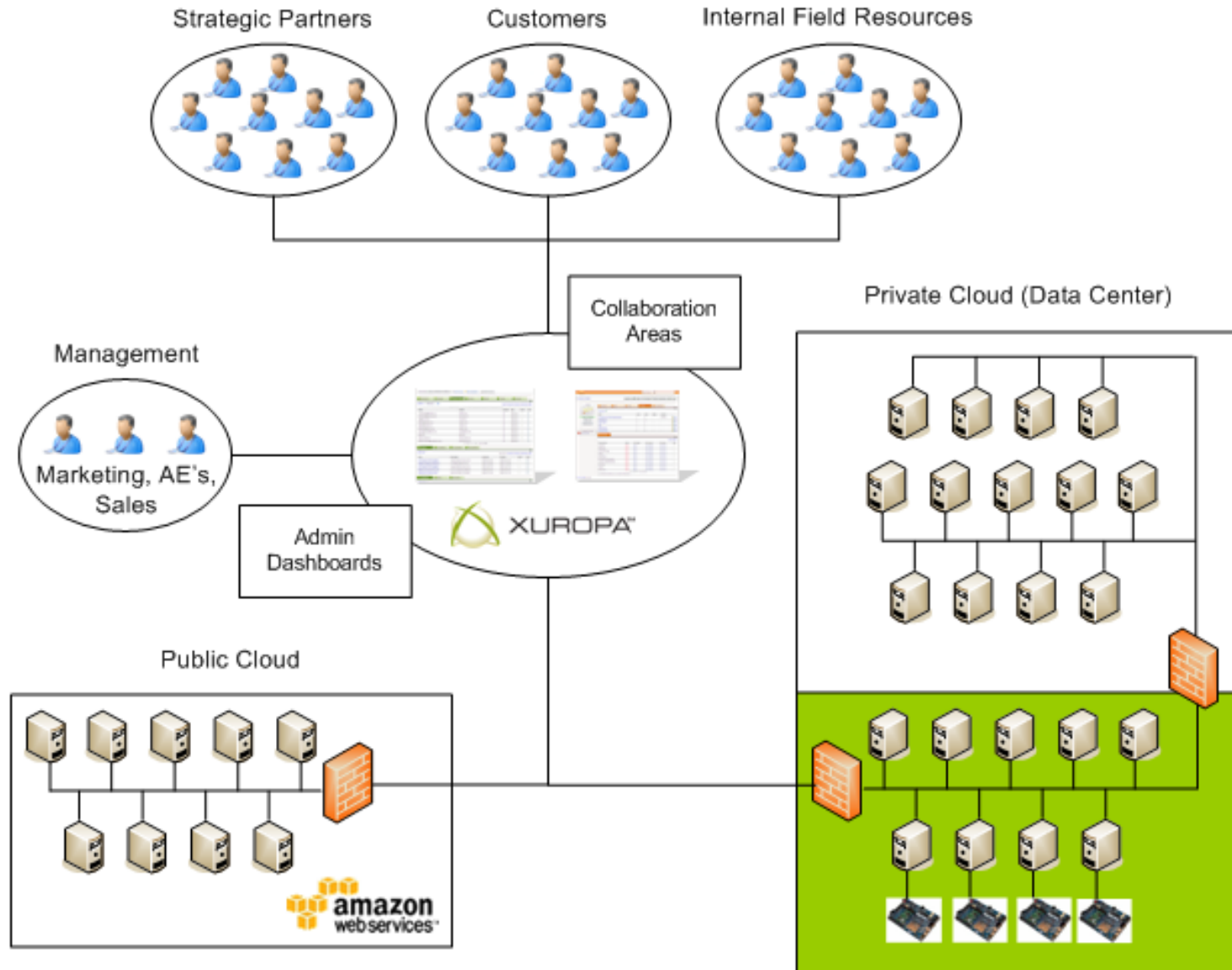
www.xuropa.com/cadence



Cloud Migration



Measured Adoption of Hybrid Model



- Addresses big Electronic Design problems
 - Value and Costs
- Cloud competition good
 - Scale, TCO, and security
- Electronic Design specific requirements
 - License management & performance
- Xuropa provides the platform
 - Scale with zero IT overhead

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Secure & Scalable Platform (Detail)



- **Secure access**
 - Unique username/password per user per session
 - Session password locked to user IP address
 - Encrypted, robust, & decoupled upload and download
- **License management**
 - FlexLM (or similar) supported
 - License isolated from application server
- **Zero IT overhead**
 - AE installs software as if local
 - Sales and marketing professionals manage
- **Provisioning automated**
 - Server, OS, and tools and IP On-Demand
 - Cleaning of instance in-between sessions
- **Scales**
 - Single targeted user or entire market of users

Easy to Use and Manage (Detail)

- Cloud portability
 - AWS or internal data center
- Server instances and resources
 - Managed & automated
- Images and provisioning
 - Managed & automated
- No client-side installs
 - Session virtualization JVM
- Collaboration tools
 - Repository, forum, IM Chat, and more
- Management tools
 - Access control, analytics, and content

Conclusions (Detail)

- Cloud addresses big Electronic Design problems
 - Reduction in sales costs
 - Reduction in TCO
 - Delivery of greater value to IDMs
- Cloud competition good
 - Driving down TCO through economies of scale
 - Competing on infrastructure functionality
 - Security is cost of entry
- Electronic design has specific requirements
 - License management
 - Server and VM demands are high
- Xuropa provides the platform
 - Step-by-step transition in line with business objectives
 - Scale with zero IT overhead