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Strategic IT (7-18Mo)

# Business Alignment of Technology Strategy

*Doing Business in a Cloud*

## IT Portfolio Management

- *Definition, Construction, Operation and Change*
- *Cost Transparency*

*Focus on Operations*

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The Business Driver for Cloud Computing

Practical to Clients is Current IT Portfolio Management

Focus on Operations

Cost Transparency is a pricing function, **TRIV(x)**<sup>TM</sup> is a Technology Pricing Function

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**Deep, Deep Operational Re-Integration**

**High Value Activity**

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**IT Portfolio Management**

➤ **Massive cost structure reduction: 35-50%, 10-24 mon. Horizon**

**The Target**

➤ **Cloud == SOA + \*aaS + HPCDG: Crossing the Chasm, 7-24 mon. Horizon**

**The Arrow**

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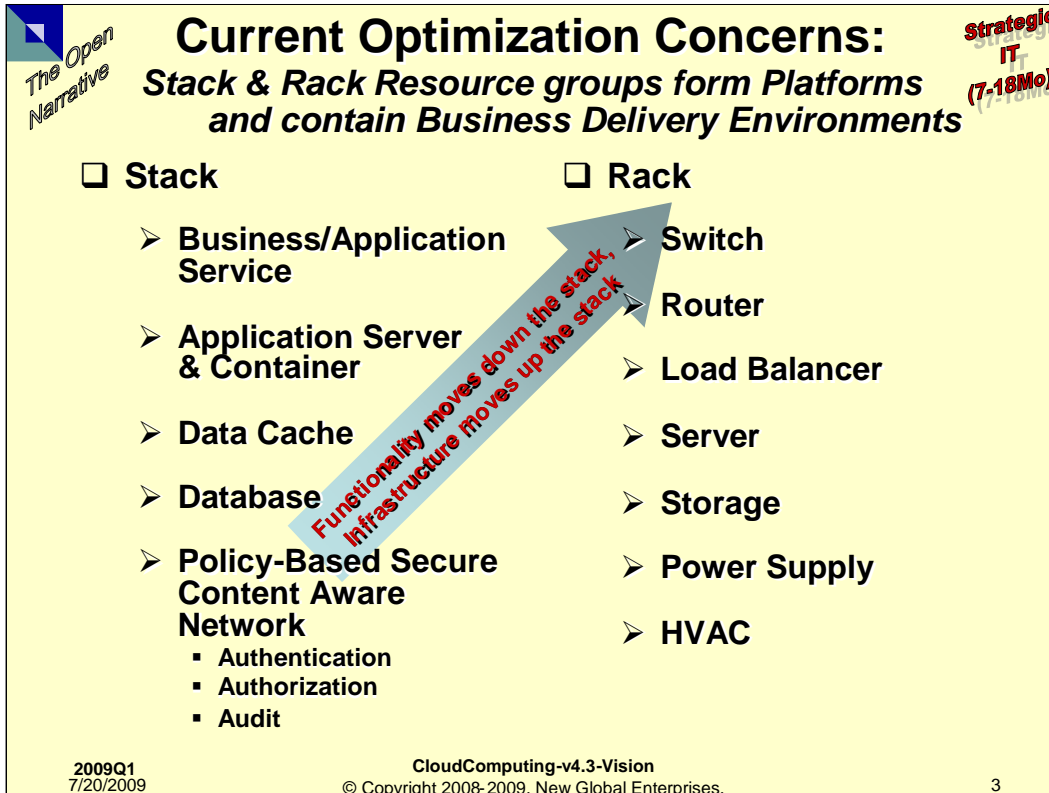
To Two Years and BEYOND!!

2010's Decade: Low Cost Structure == Competitive Advantage

#### IT Portfolio Cost Measure

1. Commodity Technology Cost Index: The CoTeCI
2. Rack Components
  - a. Processor
  - b. Disk
  - c. RAM
  - d. Bandwidth
3. Stack Components

Showing Business the cost of a system for their functionality, Real BI: Before Investment



### IT Components to Model

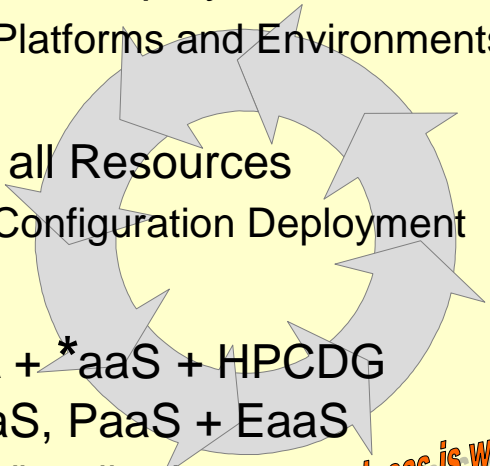
- Racks are all commodity
- As one moves deeper in the stack, functionality becomes commoditized
- Top of Stack is in continuous commoditization: 3-5 year period

### Functionality

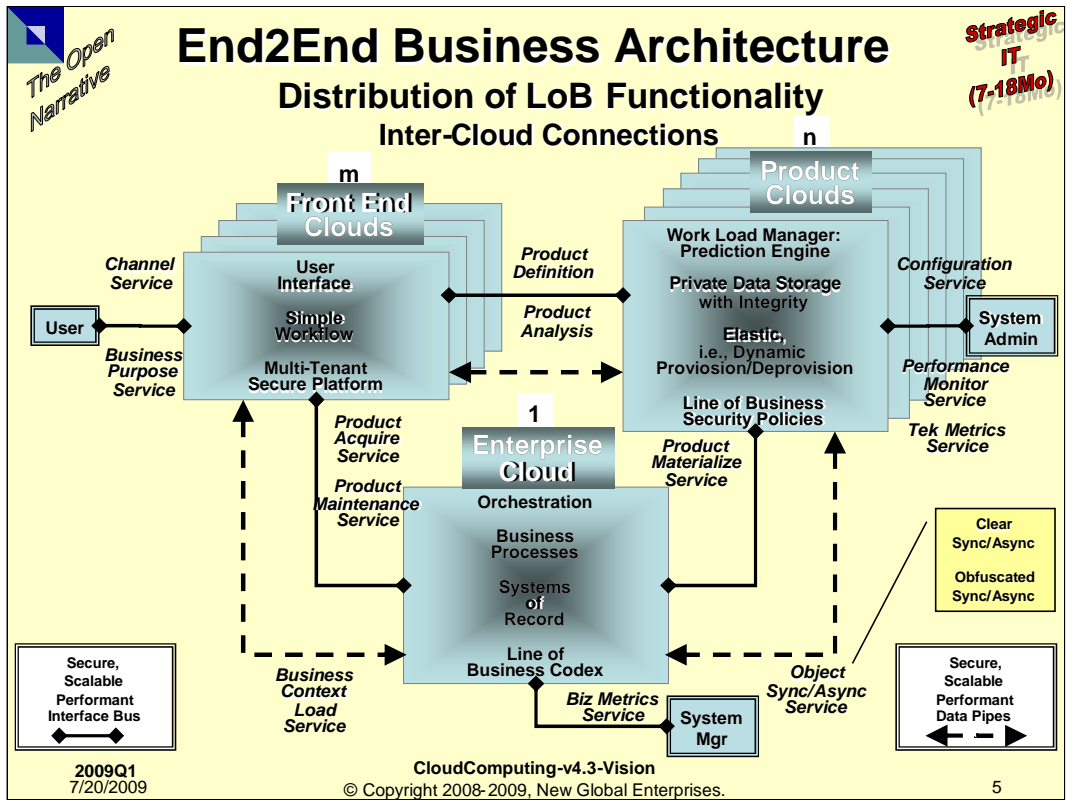
- Moving Up with Virtualization
- Moving Down into Infrastructure

# Operational Cycle of Clouds

- ❑ Configurations and Deployments
  - Abstraction of Platforms and Environments
  
- ❑ Virtualization of all Resources
  - Abstraction of Configuration Deployment
  
- ❑ Clouds == SOA + \*aaS + HPCDG
  - => IaaS, SaaS, PaaS + EaaS
  - Abstraction of Virtualization



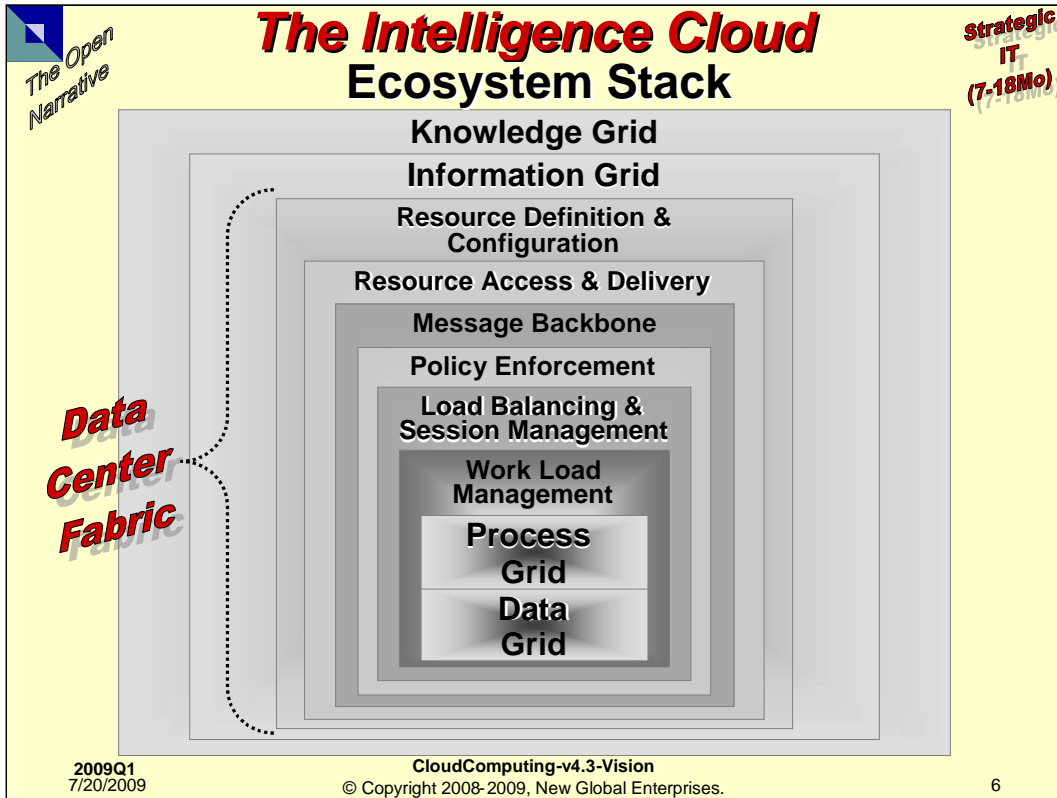
*Business is where the Environment is*



NB The Peer2Peer connections with the Data Pipes and Interface Bus

EBb Data Streaming and Services Request Messaging Protocols, respectively

Context of Record is CoRe



Categories to own

Resources are Services & Information

Messages are Service Requests, Events and Data

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# The Cloud Stack

Desperately Seeking Ecosystem and Fabric Suppliers:  
Configurations and Deployments

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- ❑ Adequate Security is the Prime Enabler for Clouds
- ❑ Strategic IT Portfolio Management

Single Sign On

IT Competencies

## The Intelligence Cloud Ecosystem Stack

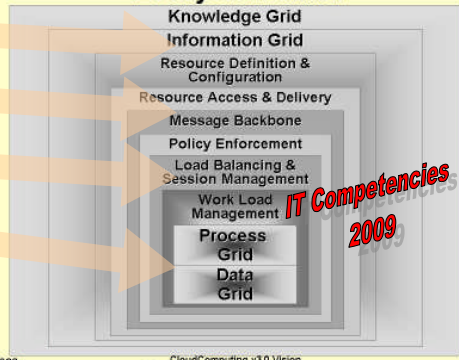
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Single Sign On 2009

Analytics and Web Hosting need Grid-Like Infrastructure especially Data

IT Competencies 2009

- 18++ months
- 7-18 months
- 4-6 months
- 0-3 months



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**Security is  
The Prime Enabler**

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**With  
Adequate Security,  
Cloud Computing  
is a  
viable business choice**



**Provisioning  
Trust and Privacy  
with  
Strong Policy Enforcement**

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Strategic to the Business

Adequate Security:

Trust

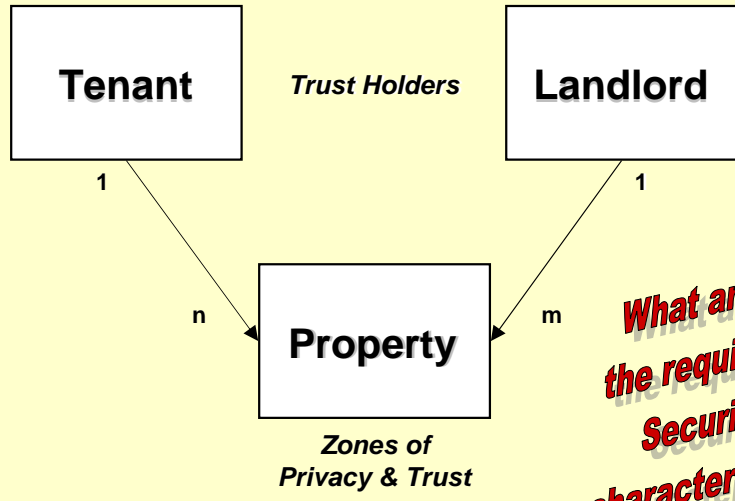
Privacy

Strong Policy Enforcement



# Classic Entity Relationship Cloud Design Pattern as a Service Delivery

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**What are  
the required  
Security  
characteristics?**

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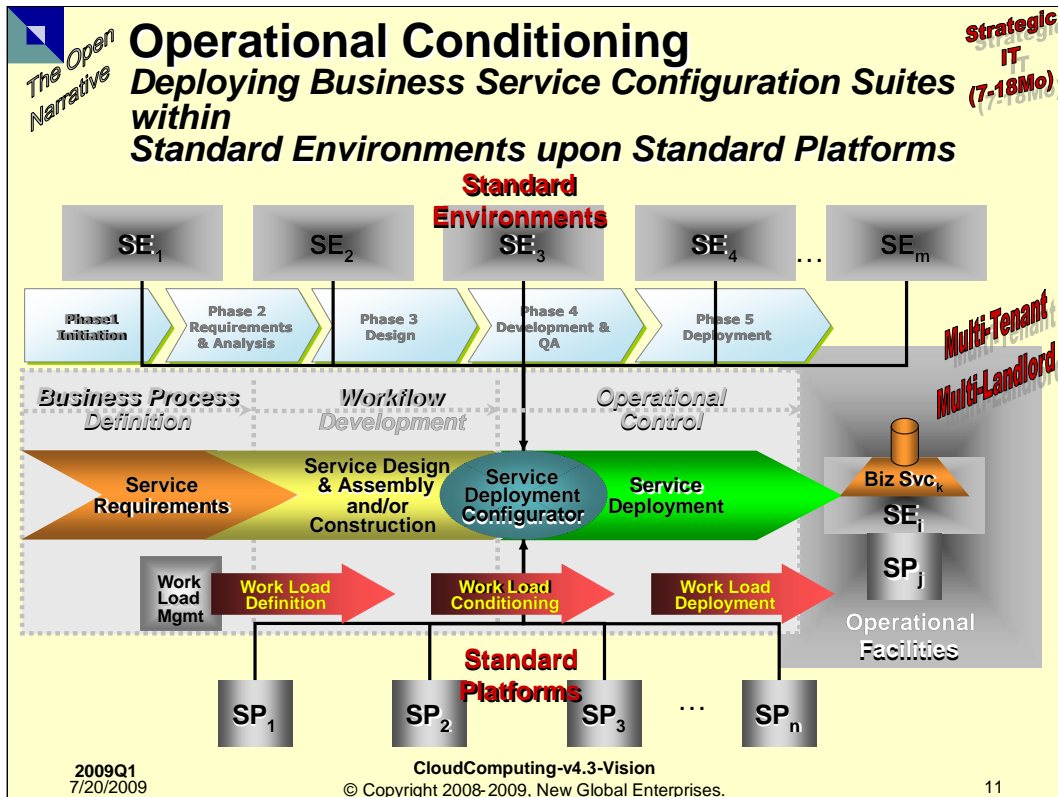
## Evaluate **Multi-Tenant, Multi-Landlord Platforms** for Fitness for Business Purpose Environments **IT Operational Sourcing**

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- ❑ Provides Zones of Privacy & Trust
  - Identity Management *How Secure is it?*
  - Access Policy Enforcement
  - Auditability
  - Integrity of communications and data storage
  - Non-repudiations of actions
- ❑ Virtual Data Stores
  - Data Persistence Transparency
    - ❖ Services are delivered data on an as-needed basis
    - ❖ All external references are in a single namespace
  - Data are Specifically and Generally Locatable
    - ❖ Accommodate sovereign regulations
    - ❖ Replication
    - ❖ Caching
    - ❖ Segregation
- ❑ Process Management *How Hard is it?*
  - Segregation
    - ❖ SOX, HIPAA, Industry Regulatory Oversight
  - Standard Interaction Protocols
    - ❖ Service Invocation
    - ❖ Event Dispatch
    - ❖ Data Distribution
- ❑ Development Capabilities *Another Prime Enabler*
  - Specification
  - Realization
  - Deployment
  - Instrumentation
    - ❖ Environment
    - ❖ Application Work Flow
    - ❖ Business Process
  - Testing/QA
- ❑ Operational Risk Management *How Safe is it?*
  - Misfeasance
  - Malfeasance
  - Piracy

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Force.com Platform, Amazon EC2, Google Tools



## Application Development Process Infrastructure

View this page as a presentation to see the story of **Standard Environments upon Standard Platforms**.

## Multi-Tenant, Multi-Landlord Platforms

The Standard Specification Nibs

1. BP Definition
2. Work Flow Development, and,
3. Operational Control

Codex is developed and maintained through the IT Project Delivery 5 Phases: Initiation, Requirements & Analysis, Design, Development & QA, Deployment

Specifically, services are defined via a Service Requirements Process, followed by a Service Design & Assembly and/or Construction Process, bridged by a Service Deployment Configuration Process that binds the Business Standard Environment for that Service with a Technology Standard Platform.

And in so doing, the Work Load is defined, conditioned and deployed.

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# Cloud Computing: Business Relevance

**Converting Resources into Results**

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□ Inside a Cloud, implement Functions within particular Environments provisioned within and across specific Grid enabled Platforms

*Tenants live in, Landlords build in Environments*

**Resource Grids** ➤ All with the **Cloud Provider** handling the operations of Platforms and providing **Appropriate Service Levels** within Environments

**Business Results** ➤ While the **Cloud Services Consumer** provides the Business Processes to support desired **Value Producing Capabilities**.

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Platform is stack&rack downward facing, Environments face up the stack&rack

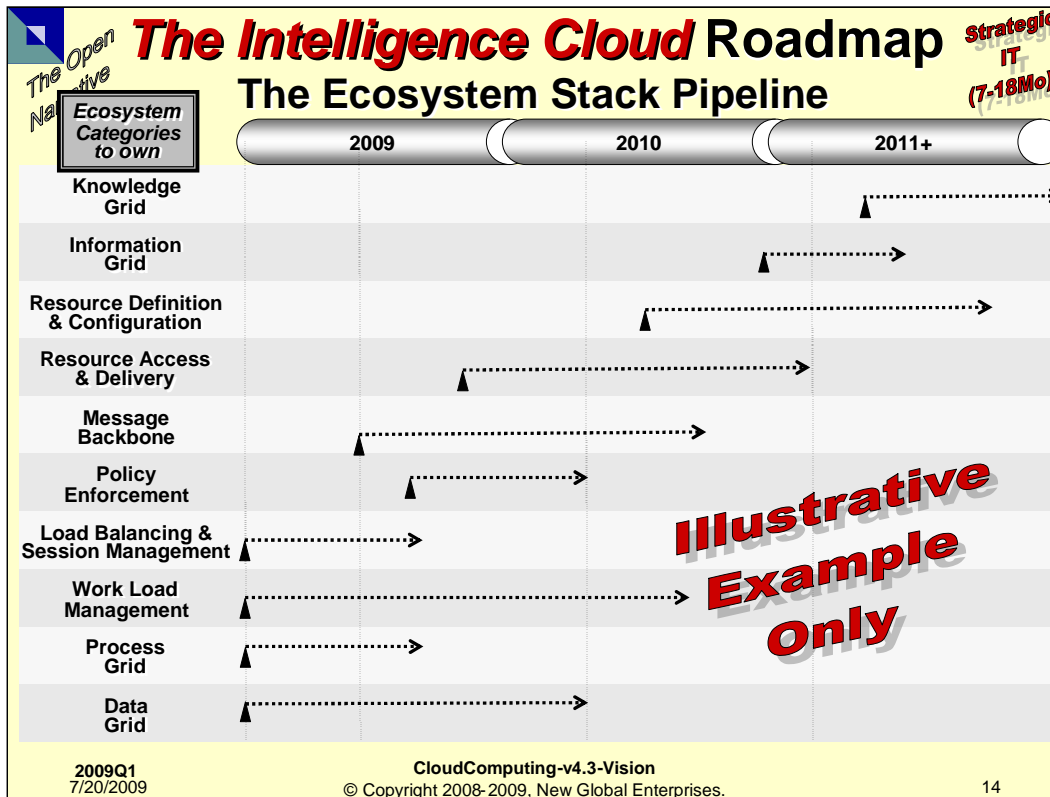
Consumer == Multi-Tenant, Multi-Landlord

Boundaries among enterprises are flexible

- Provider/Consumer may be inside or outside of an enterprise
- Leads to fluid business networks
- Standards and commodity IT enable these networks

## Clouds Hide Complexity The **Business** and **Technical** Foci

- ❑ Functions support Business Processes within Business Domains which operate within and across specific Environments
  - The focus of **Environments** is **fitness for business purposes** which drives the **requisite service level requirements**.
  - The focus of **Platforms** which provision the Environments is technology stacks and racks which have their **price performance** characteristics for **Capacity, Availability, Scalability, Efficiency and Security** levels.



Cloud is an investment attitude as much as the technology.

Ecosystem Categories to own:

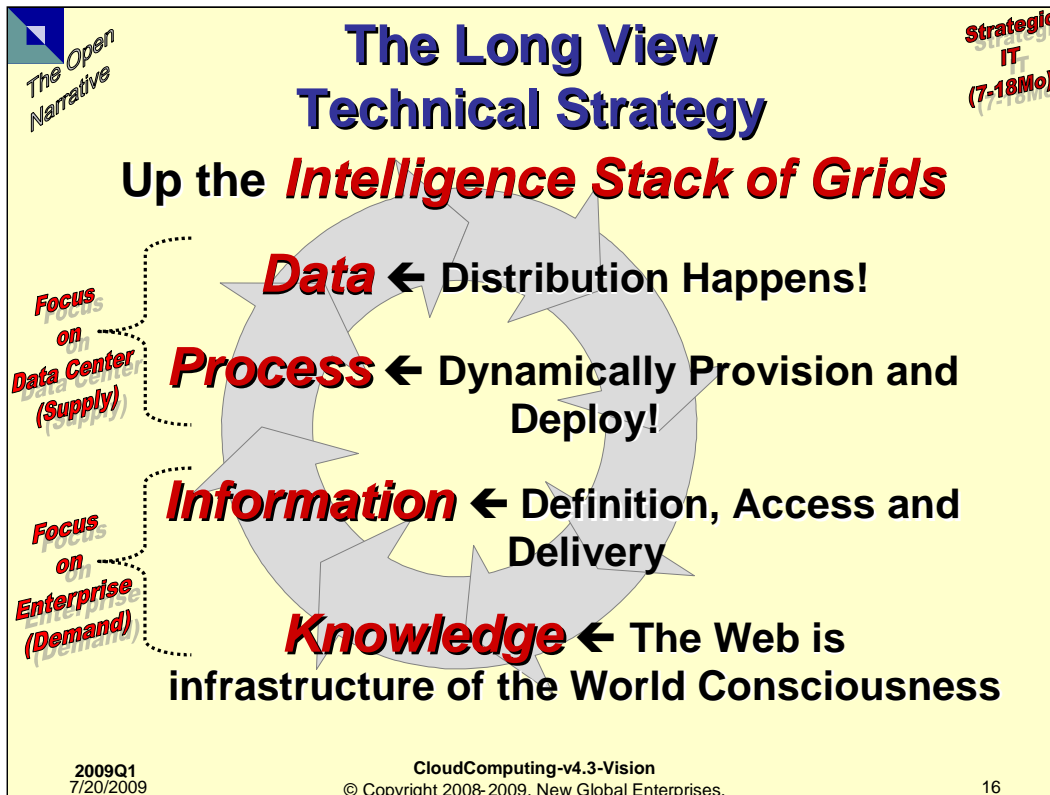
- Functions & Features
- Line lengths are windows of opportunity

Proposed tasks

1. Determine relevance to company revenue
  - Map current Product Function & Features
  - Overlay current Products Roadmap
  - Grade items into a Heat Map Display: Ecosystem Categories X Company Products & Services
    - Practical
    - Tactical
    - Strategic
2. Identify industry players: current and potential
  - Complementary => Partner or Buy
  - Overlap => Compete
3. Deliverables: Create four initial operational plans:
  - Practical (0-3 mo.)
  - Tactical (4-6 mo.)
  - Strategic (7-18 mo.)
  - Tracking plan for 19++ mo. items

# ***To Infinity and Beyond!***

**Buzz Lightyear, *A Toy Story***



Cloud Computing is the Next Iteration of SOA, Services Delivery and High Performance Computing as a Utility Infrastructure

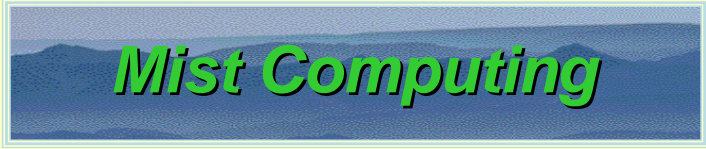
Push Function Down the Rack



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# After Grids & Clouds, then *Mist* The Next **Next** Step

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A

**Virtual Intelligence Cloud**  
surrounding distributed  
**Physical Computing Locales**  
with  
**Fully Operational Grid Infrastructure**  
that delivers  
**Spectacular Consumer Experiences**

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**Mist** == Clouds on the Ground, Optimized and Green--the Power Set of (Stacks and Racks)

Environments == Virtual Locales of Resources--vLocale: filters on Powerset(S|R), so now we can utter & record policies and then enable them

**Multilevel input state transition engines: Machines of the *Mist*(SM)**

Real Computing Locales: rLocale--: deployments of PS(S|R), so now we can utter policies and enforce them

Deploying Services and Provisioning Service Requests with adequate and flexible service levels

FOG: Fully Operational Grids

Fuzzy Logic: Thresholds