### Buy it, Build it, Download it, or Browse it?

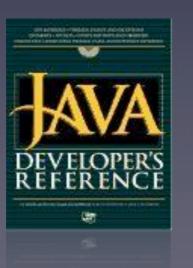
Achieving Effectiveness with Enterprise Applications

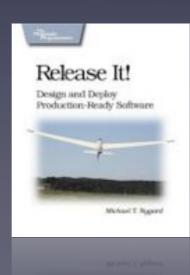
Michael T. Nygard

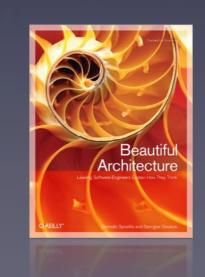
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### About The Speaker

Application Developer/Architect – 20 years
Web Developer – 14 years
IT Operations – 6 years
IT Services Executive - 4 years











# Buy? Build?

# Buy? Build? Download?

# Buy? Build? Download? Browse?

## Goal: Reduce Total Cost of Ownership

# Gal: Red Le To al Cit of Jwner lip

### Cost of Ownership

#### Seen Costs



#### Unseen Costs



# Goal: Increase Support and Accountability

# Goal: Increase Support and Accountability

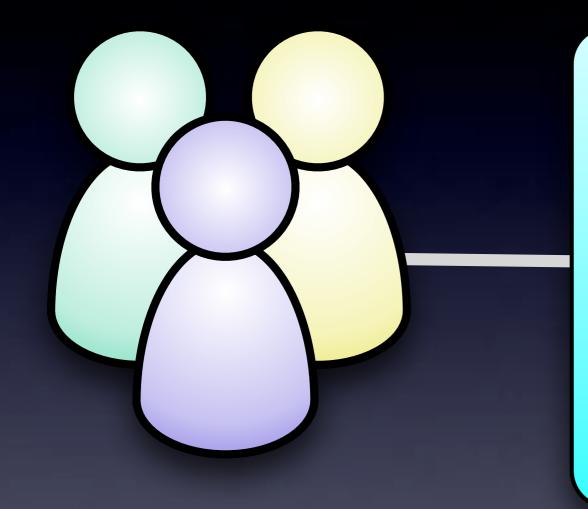


## One Throat to Choke?



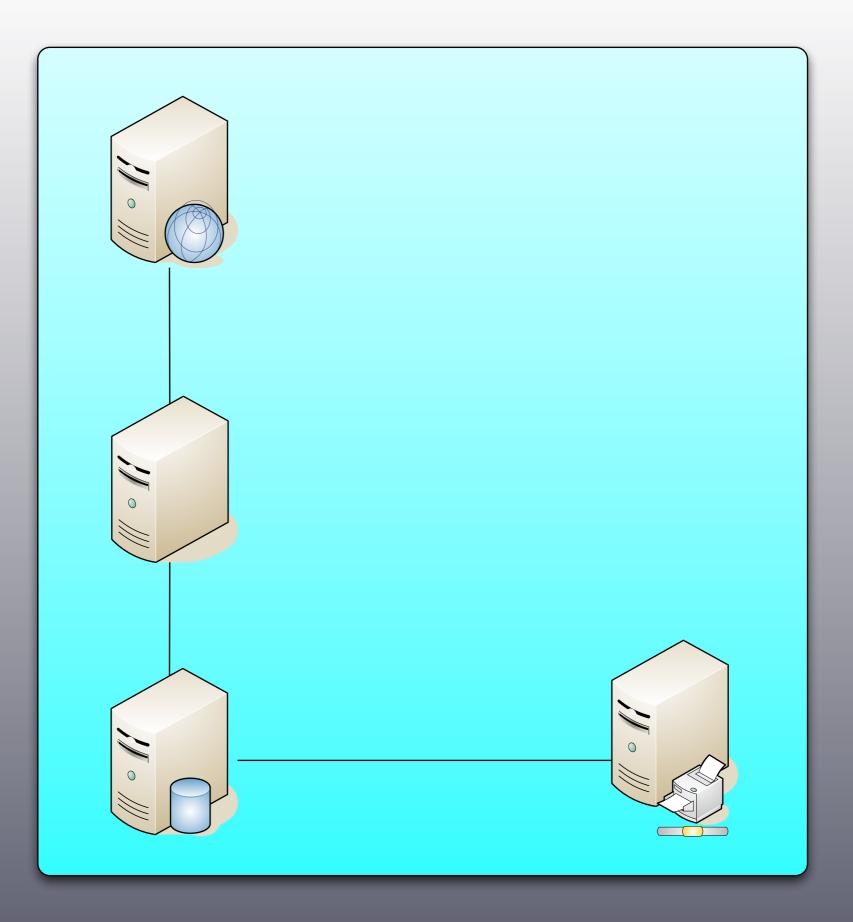
### The Reality is More Complex

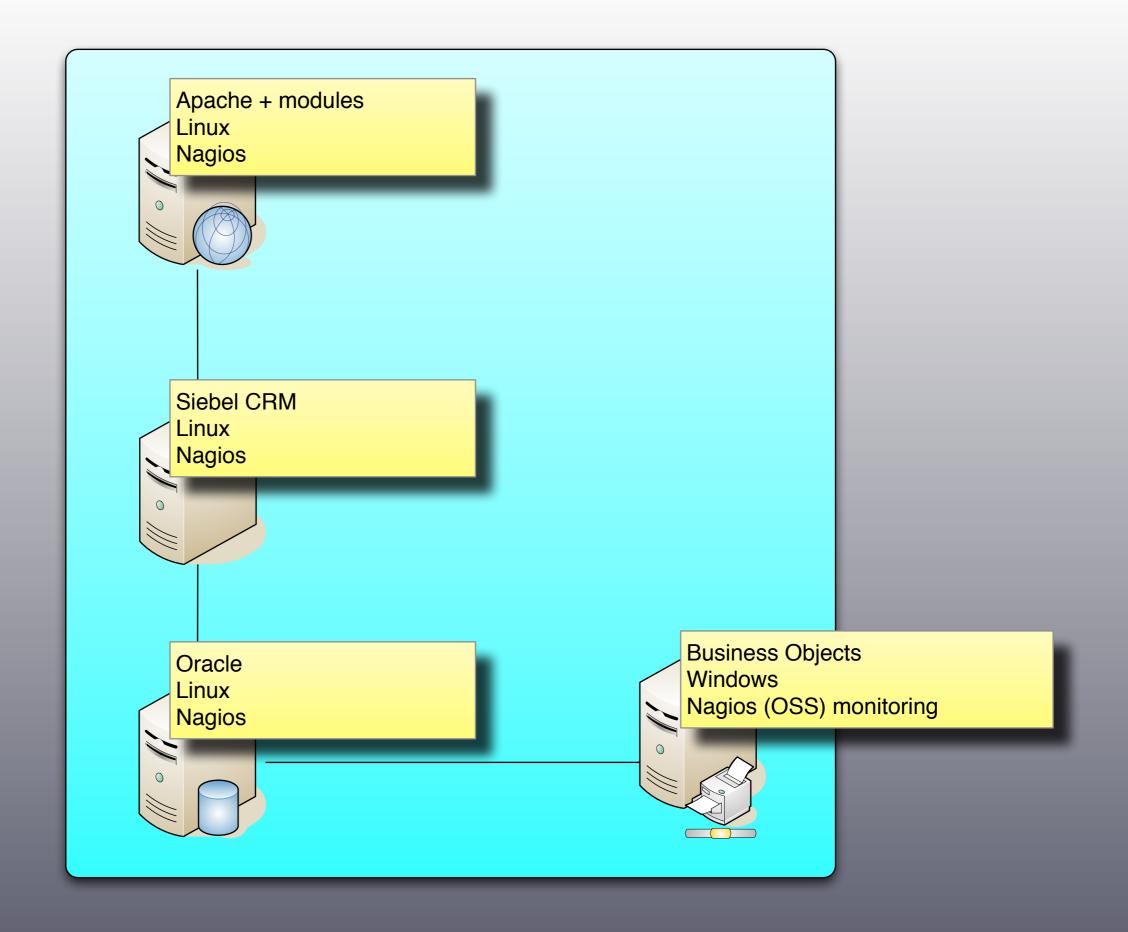


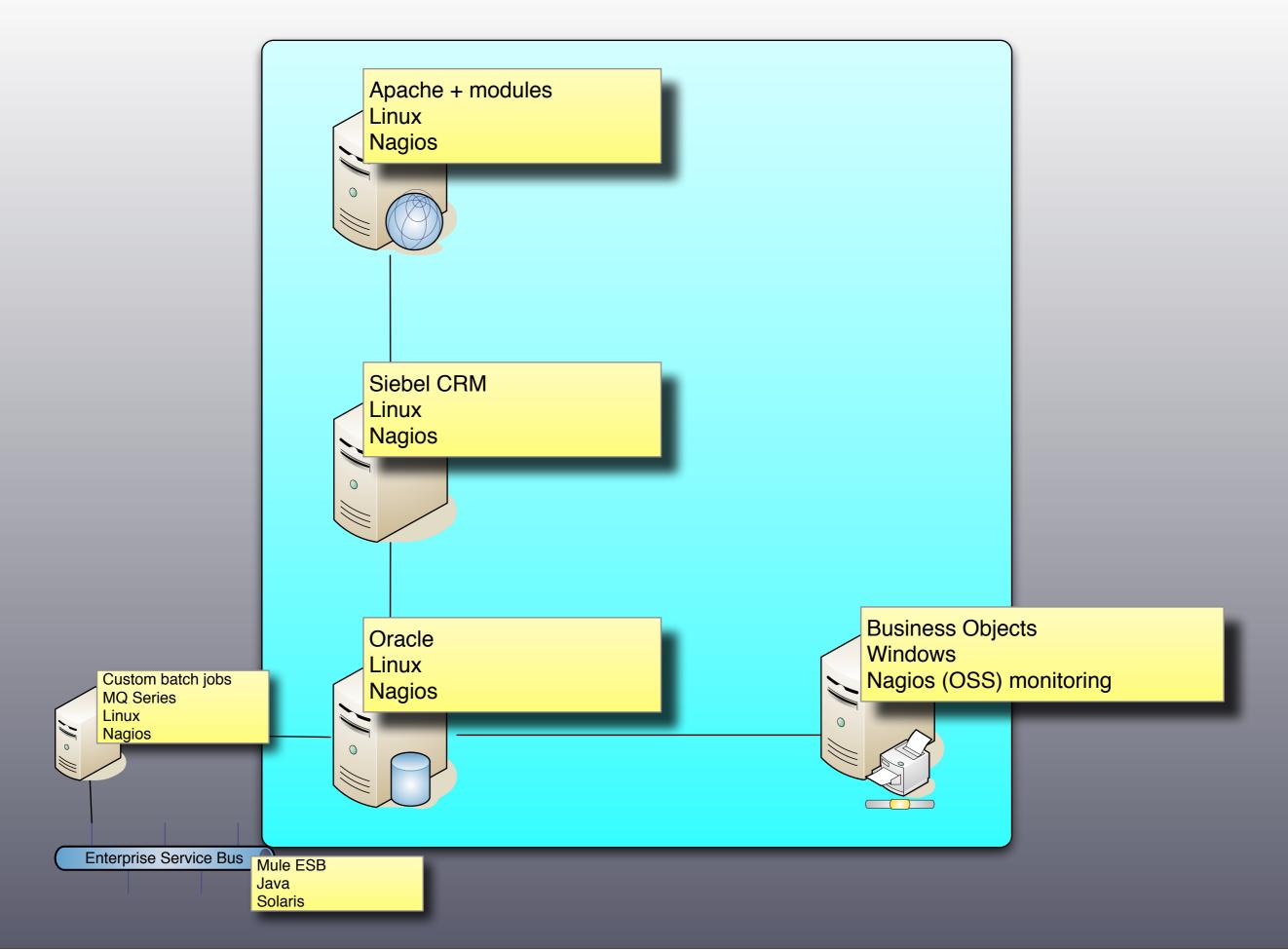


Customer Relationship Management

«purchased»







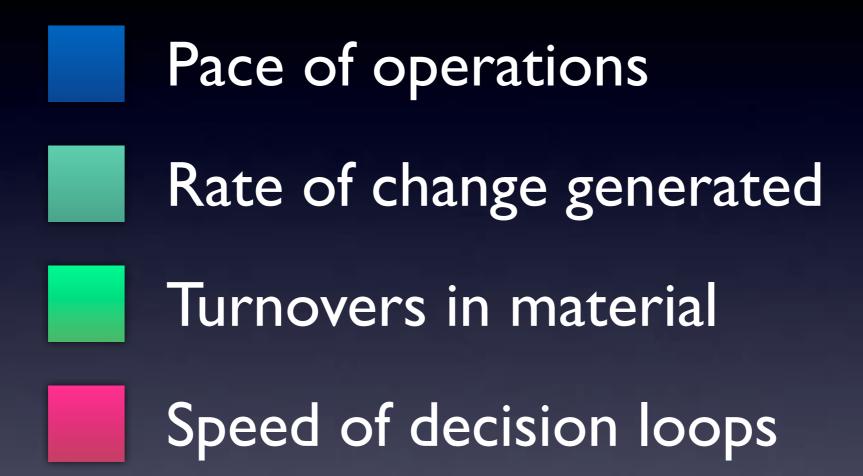
### Goals: Increase Tempo and Adaptability, Decrease Transaction Cost

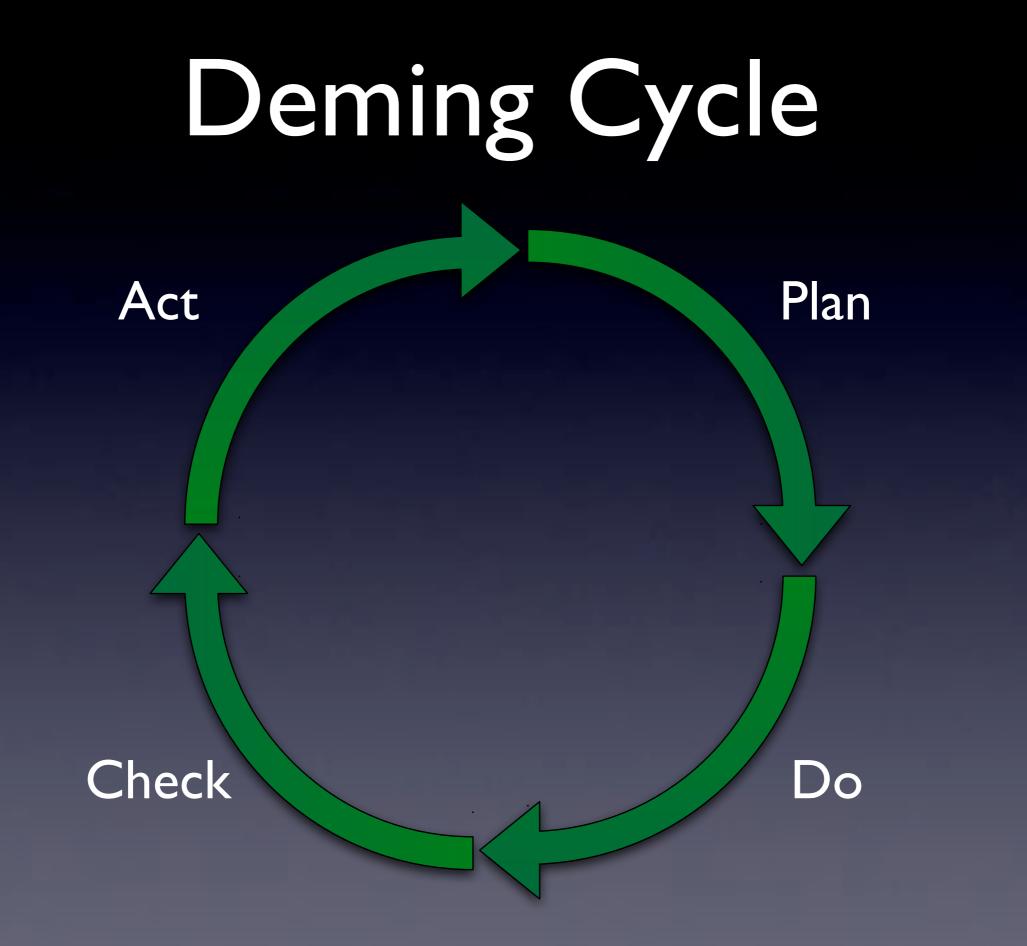
### Goals: Increase Tempo and Adaptability, Decrease Transaction Cost



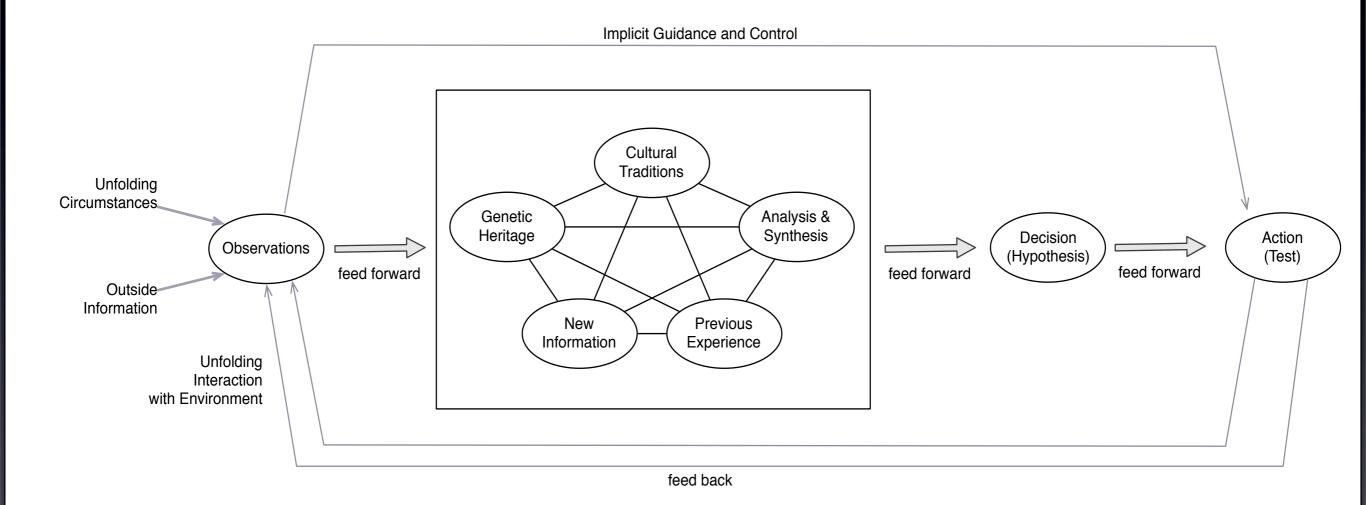


# Tempo





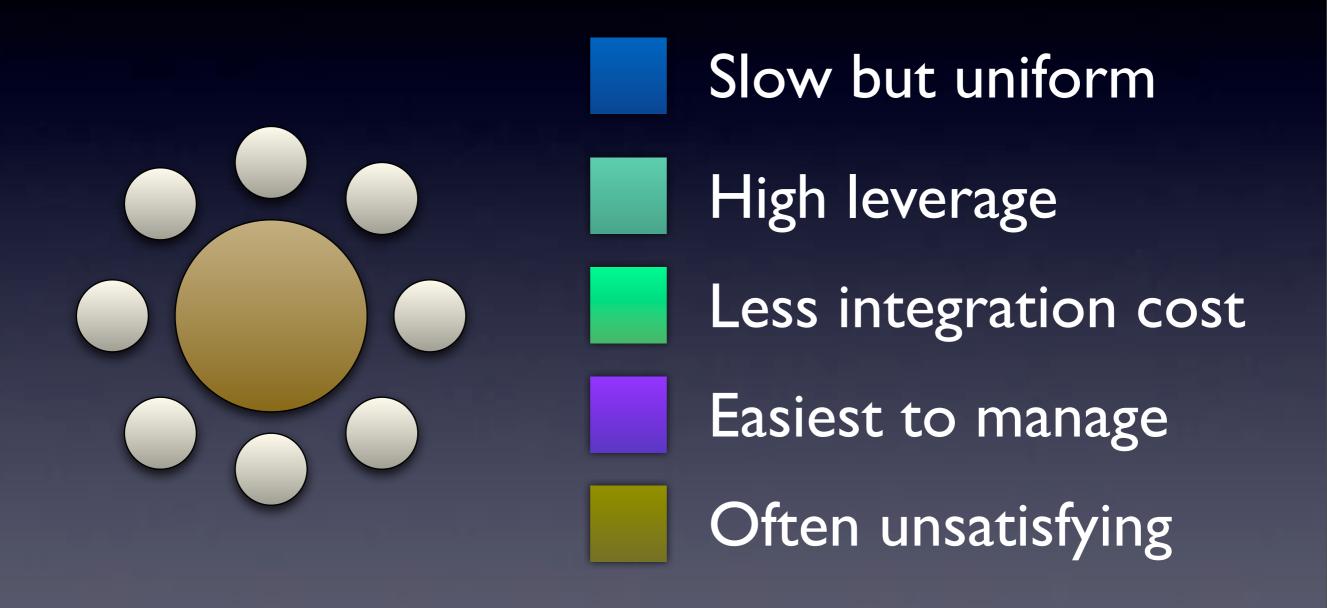
# O-O-D-A Loop



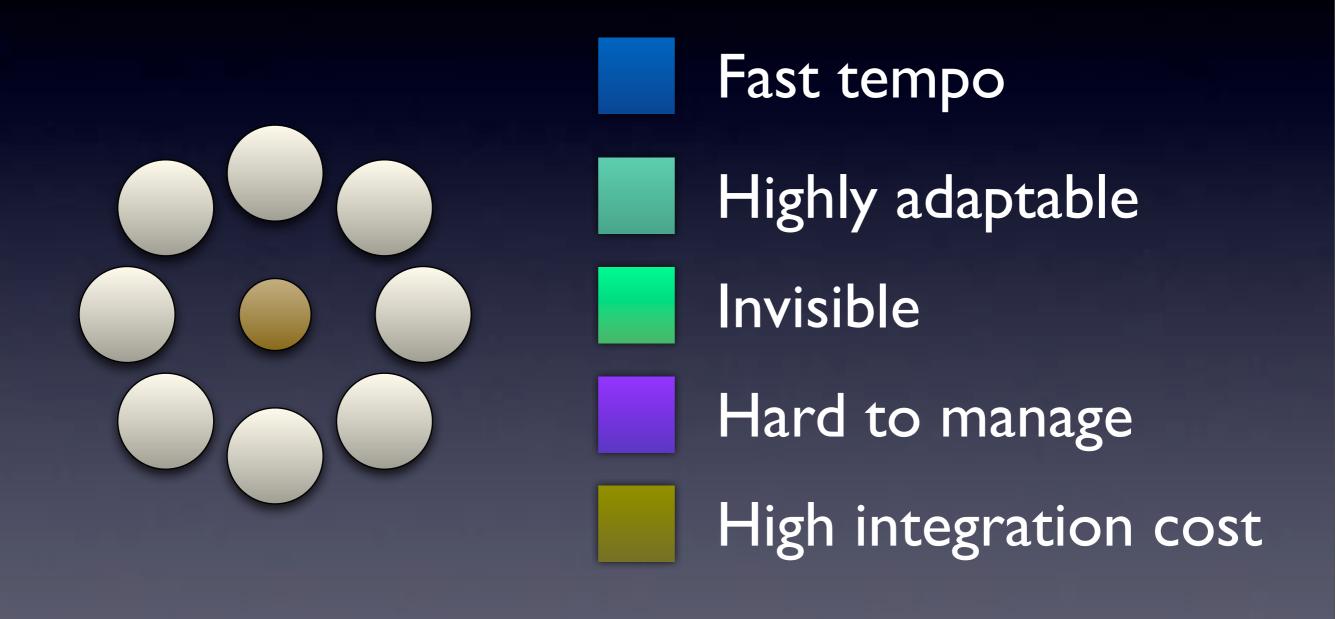


# Adaptability

### Centralized Adoption



### Decentralized Adoption



### Chaordic

System that blends characteristics of chaos and order

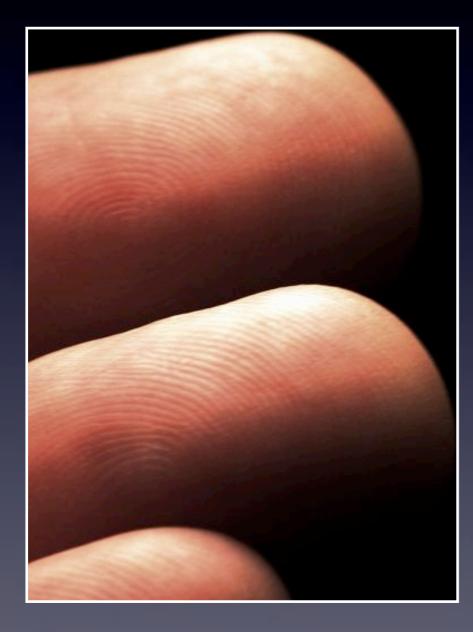
Neither hierarchic nor anarchic Present in Boyd's "maneuver"

### Commander's Intent

Desired end state
Two levels down
Not a specification
Centralize strategy
Decentralize execution



## Fingerspitzengefühl



#### Grasp of detail

Ever-changing situation

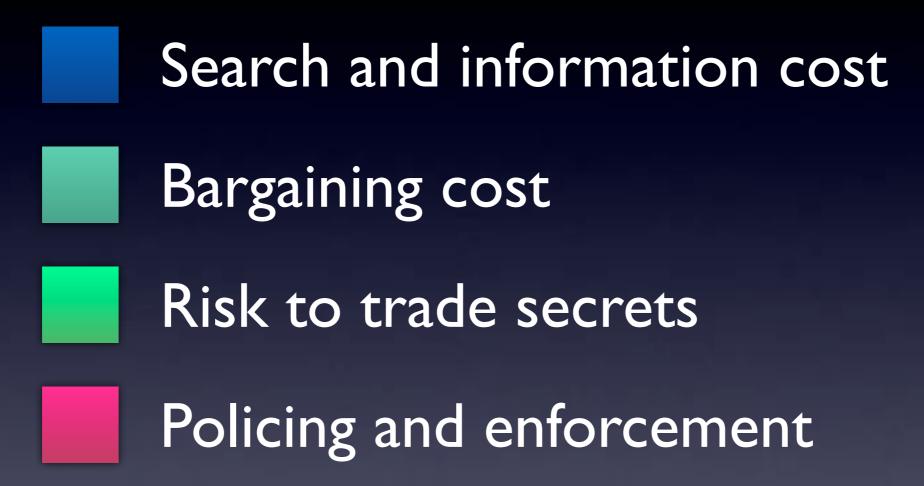


#### Transaction Costs

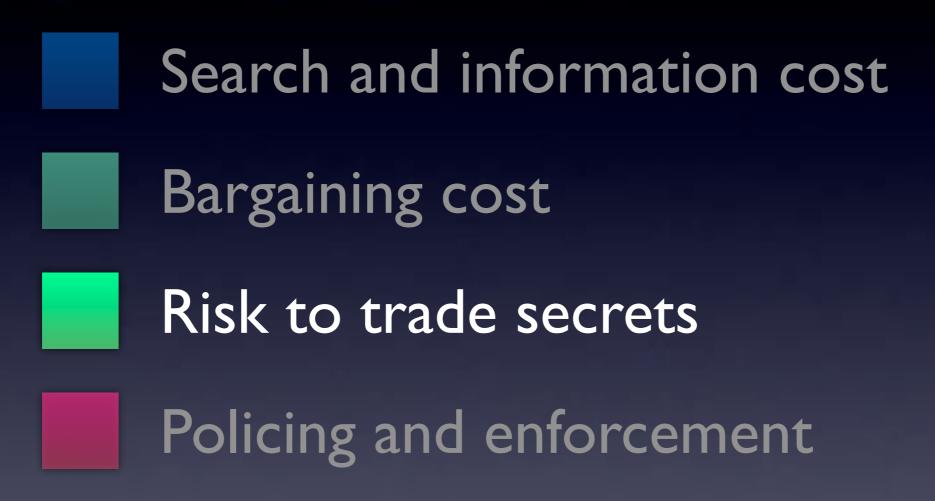


### The Nature of the Firm

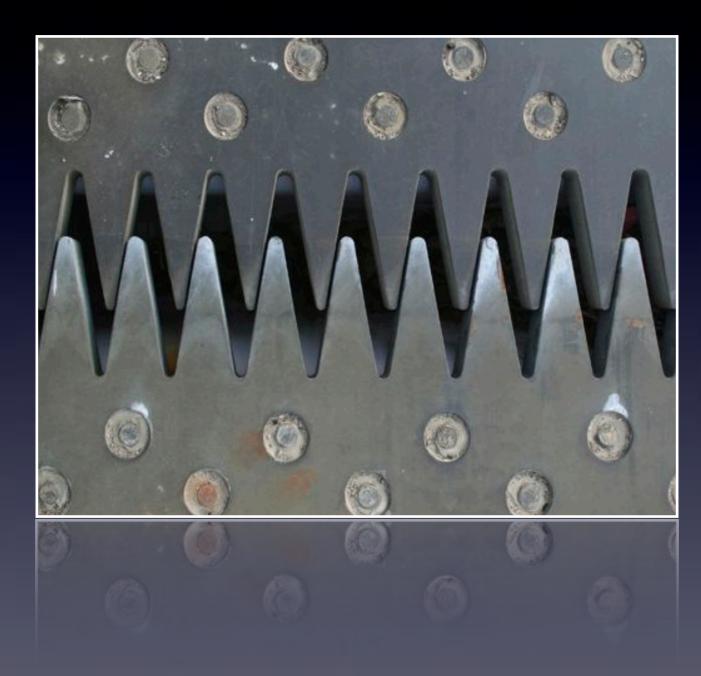
#### Boundaries of Firm



#### Boundaries of Firm



### Automation is Value-Neutral



#### Automating to Reduce Cost

Rigid Quickly Outdated "Supplemented" with manual work



## Automating to Empower



#### Zero to production in 15 minutes

## Automating to Empower

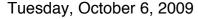


Build Buy Download Browse



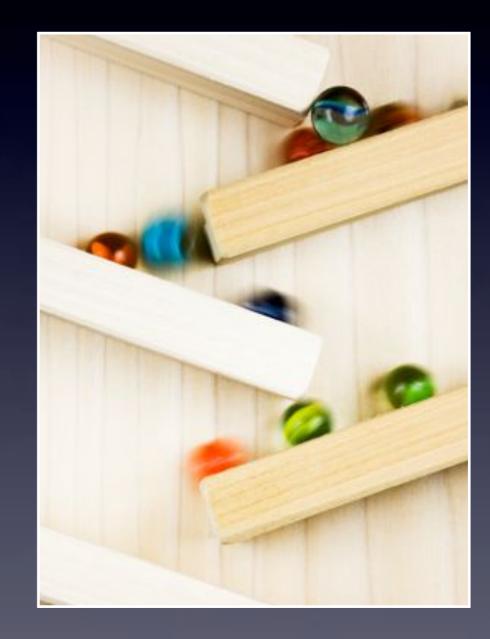
#### **COTS** Considerations

## Procurement, Implementation, and Integration Costs

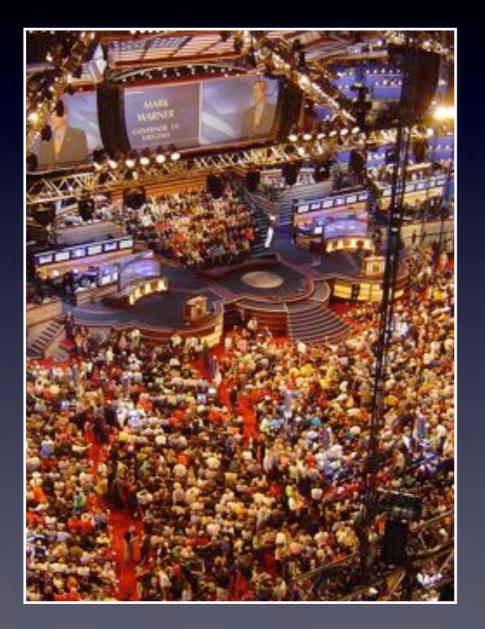


## Premature Customization

Implicit processes
 Expensive to customize
 Chosen under the least knowledge!



### Constituencies



Adherents to the chosen technology Allegiance to vendor Inhibits future optionality Tech selection is an org change

## "Build"

#### Bespoke Considerations

## Enterprise Software Sucks

## Misplaced Focus



## Voice





### "Download"

#### FOSS Considerations

## Free Software? Open Source Software?

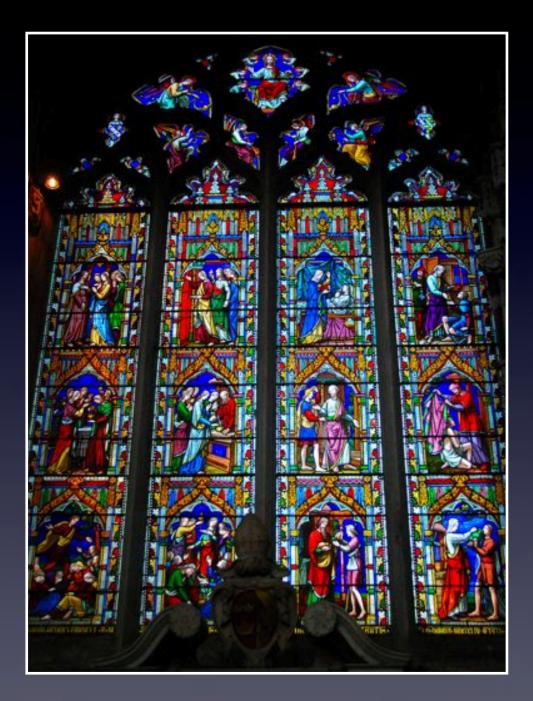
## Viral Licensing!

## Free Software? Open Source Software?

## Not really.

# Developer enthusiasm Product maturity Community strength







## Gaining Advantage

Mix both models
Leverage but separate
Contribute



## SaaS Considerations



#### Data Islands

## Perceived Risks

#### Confidentiality Compliance Control



## Real Risks



Control plane Patent shutdown Lack of risk management info

## Self-Defeating Behaviors

# Sourcing can drive selection, perhaps adversely



## Thinking Styles













## Altitude-Induced Arrogance



## Services Death Spiral

Consumer unable to change

Squeeze cost out of service providers

Provider unable to execute Provider's skilled people filtered out

## **Project-Based Funding**

Schedule pressure
Architecture decay
Increasing friction and inertia

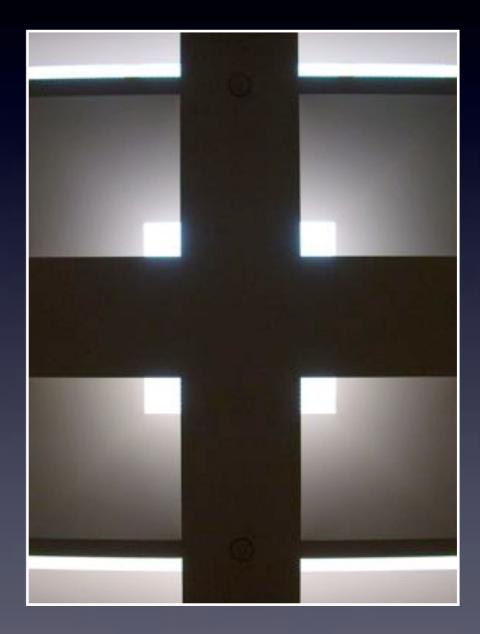


## Budgeting & Accounting

## Refactoring Your Organization

## Invert the Community

Center on users Connect users Distribute power to edges of org IT builds platform; doesn't control use



## Close the Loop

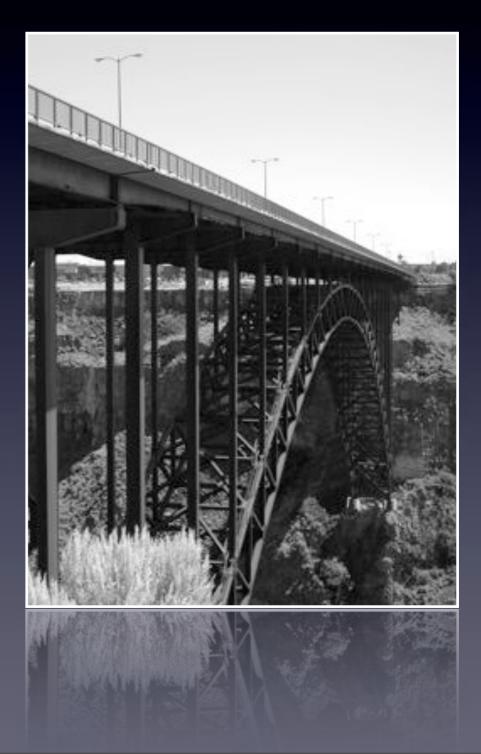
Blog, forum, bug tracker on every application footer

Source of bad inputs should experience their own pains

"Give them the button"

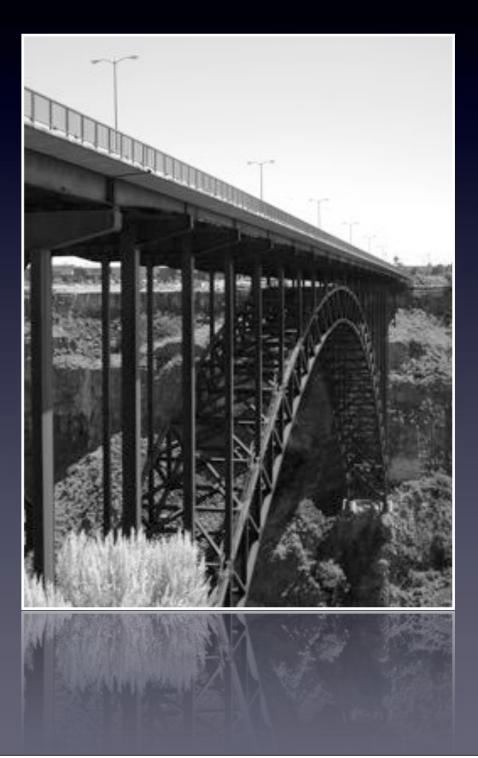
## Bridge Dev and Ops

Ops is a stakeholder Dev needs the Ops perspective Collaboration over checkpointing Replace review with automated testing

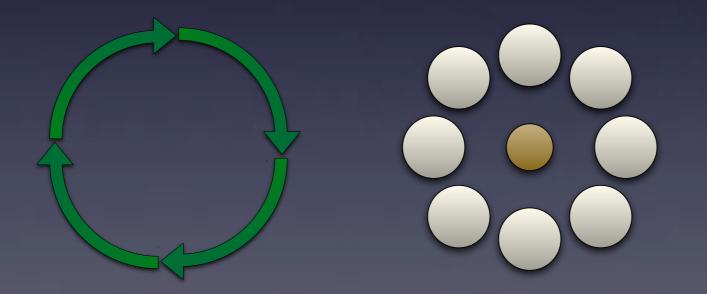


## Bridge Dev and Users

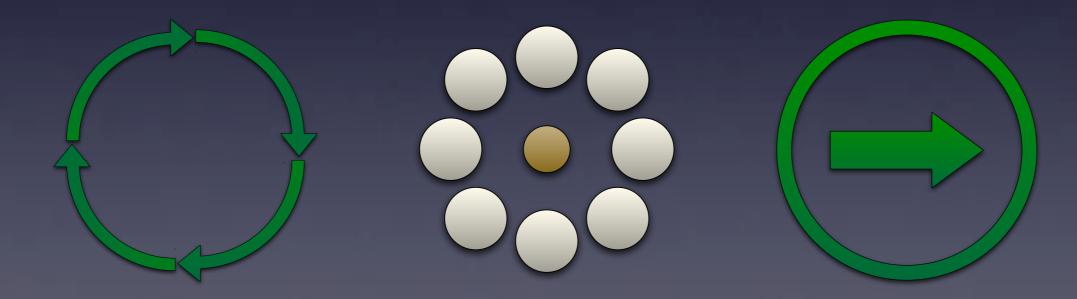
App communities Users passionate about apps Forums, bug tracker, developer blogs Real use of feedback



## Tempo. Adaptability. Transaction Costs.



## Tempo. Adaptability. Transaction Costs.



#### Michael T. Nygard michael.nygard@n6consulting.com

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