



A Path-based Approach: Open Source as a Strategic Advantage

- 1.My starting point. The Business Problem
 - Legacy Thinking in Strategic Planning
- 1. How this has messed up IT in the boardroom
- 2. How open source can provide a solution
- 3.An example





Strategic Planning: Traditional Approach



Ends

Ways

Means

SET CORPORATE OBJECTIVES





ASSEMBLE RESOURCES



Traditional Approach

- Ends
 - Want an ROI of 20%
 - Want 10-15% earnings growth
 - Want to be a \$2bn company by 2012
- Ways
 - Install new proprietary system company-wide
 - Install monolithic ERP system





Traditional Approach

- Means
 - Engage systems integrator for two-year WMS implementation
 - Buy the next great package for customer management
 - Re-engineer the business





Problems with this approach:

- ENDS
 - Too short term (~5 years)
 - implies buying rather than building
 - CEO tenure (median: 5.5 years ptc's), analysts
 - Overly Quantified
 - Need to measure *but*
 - tends to push out other goals
 - Episodic: "This too shall pass" big problem





The tail on the dog problem

- Strategic planning system is the dog
- ... the tail was supposed to wag

BUT - more and more, value is created in the tail: in IT and operations





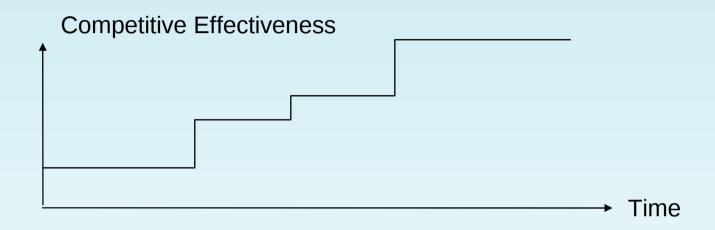
Two models of performance improvement

- Strategic-leap versus incremental-approach
- These are archetypes
- Neither exists alone in the wild
- Mark ends of a spectrum



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The Strategic Leap Approach to Performance Improvement

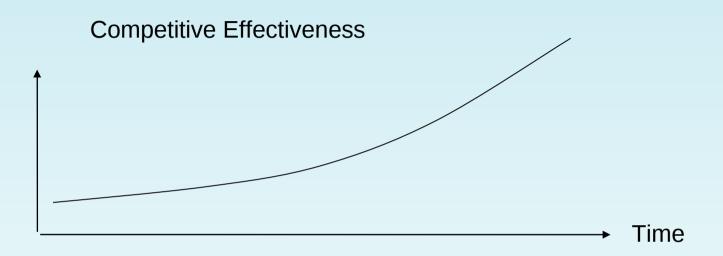


Examples

- Install monolithic IT system
- Introduce blockbuster product
- Attack a new market (or niche)
- Integrate vertically
- Exploit a new technology (product or process)
- Merger/acquisition/strategic alliance
- "Strategic"



The "incremental improvement" approach



Examples

- Experimentation with on-line information for customers
- New system features
- Feature enhancement
- Inventory reduction
- Reduce set-up/throughput times
- Faster system development
- "Boring"





Strategic Leap Approach to IT:

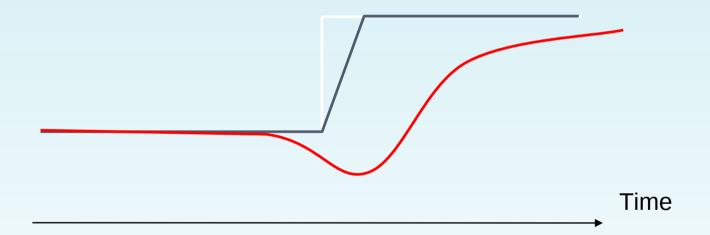
- Requires only periodic expertise
 - Consultants with episodic (not partnership) engagements
- Each step can have a major financial impact
 - financial experts required: subject to financial constraints
 - timing is critical
- Creates high personal visibility
 - Win big, lose big





Murphy's Law of Strategic Leaps

Competitive Effectiveness





An Old Quote: Japanese successes

"Japanese successes in the auto, semiconductor and consumer electronics markets are primarily due to a determined focus on short-term, incremental gains"

> Kenichi Ohmai Wall Street Journal January 18, 1982







The world continues in that direction

Which approach will you *favor* in a world where...

- Technologies, markets and objectives change rapidly
- Forecasts are unreliable (in part because the business changes fundamentally, or more severe network effects)
- New competitors are entering the arena
 - Not the usual suspects
- You learn and change business goals <u>as you go</u> <u>along</u>





Our context: CEOs and IT

- Compelling business advantages seen from tireless continuous improvement in manufacturing
 - Creator of Advantage; Specific principles drive the improvement
 - It's not convergent. There is no endpoint.
- ... but where do CEOs see IT?
 - Old Caretaker/installer model
 - Evaluation: 4 stages of enlightenment
 - 1. Risk avoidance
 - 2. Cost minimization
 - 3. Revenue Generation
 - 4. Option value





The Liquid Concrete Phenomenon: Designing for Improvement

- Big, complex, monolithic System installed
 - The old auto industry model
- Hard to improve
 - Or, improvement rate limited by external suppliers absent a true partnership
- Improvable Systems are: (think Open Source)
 - **Modular**: Can experiment locally without global consequences
 - Accessible: Able to make change (no obscure skills, languages, protocols)
 - **Inclusive**: (People using it are also involved in the design of it).
 - Lose the concept of 'users' vs. 'IT people'





Open source can unlock the potential

- Designed for improvement
- Can improve rapidly (not just at the rate of the software vendor)
- Modularity is built in as part of the development processes. Real modularity. So it's modular.
- Can live with many technologies
 - Co-exists, plays nicely with others
- Vast network of knowledge
- Opportunity for relentless innovation
- A way out of the strategic leap trap





Example: Shinsei Bank[†]

- Rapid Business Development through and Open Source
 - Our problem: the plane is flying: change the engine, and improve it while in the air
 - Not just 'Extreme Programming', or 'Customer Satisfaction'
 - These are Business Experiments not IT/customer experiments
 - Building competitive advantage is not at the internal customer level
 - Not everyone wants to be involved in IT development





Shinsei Bank

- Rescued from the archaic ashes of LTCB
- Built new banking system (rather than packaged software)
- Mix of open source and off-the-shelf technologies
- Design for improvement not immediate functionality
- ¼ of the leadtime, 10% of the cost of basic packaged solution
- Reached #1 customer service in Japan in 2 years





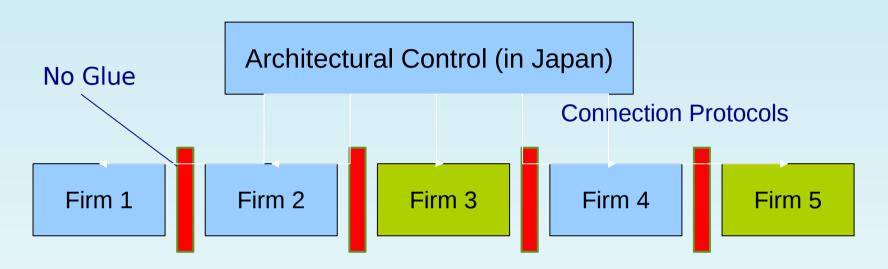
Shinsei Principles[†]

- Rapid, incremental improvement rather than big-bang
- Use technology to solve human problems
 - It's not the technology; it's not IT
 - Replicate old system as subset of new system
 - Double sided screens for tellers
 - Doesn't exist in standard packages
- Outsourcing strategy





Development Principles at Shinsei



- Maintains control at Shinsei: no individual firm can replicate
- Avoid hold-up by outsourcer
- Allows rapid expansion of features and services
- Incremental rather than big-bang approach
- Provides proprietary advantage
 - Need to use open code is not a risk: tennis racket issue.
 - Capability development; China?





Balance: A Spectrum of Strategic Choice

