Idaho National

Laboratory

Pattern-based Strategy

Strategically Aligning Information Management for Mission Success

3/17/2011

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About Me



- Idaho National Laboratory
 - Nuclear Programs
 - National & Homeland Security
 - Energy & Environment
- Information Management

Manager of IM Strategic Planning

Enterprise Architect







Mission

 Ensure the nation's energy security with safe, competitive, and sustainable energy systems and unique national and homeland security capabilities.

Vision

 By 2015, INL will be the pre-eminent nuclear energy laboratory with synergistic, world-class, multi-program capabilities and partnerships.



Operational effectiveness and STRATEGY are both essential to SUPERIOR

PERFORMANCE...but they work in very different ways.

A company can outperform rivals only if it can establish a DIFFERENCE it can PRESERVE.

-Michael Porter, HBR, 1996



amazon.com.



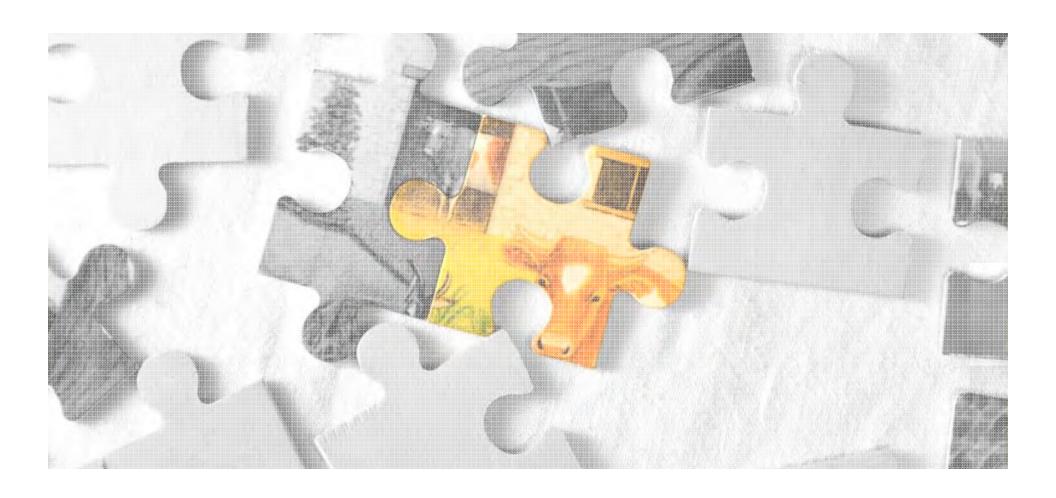




Pattern-based Strategy



Patterns + Context = Strategy



Patterns

Groups and structures in the data that are, in some way or another, Similar.

Business Context



Key Partners	Key Activities		Value Proposi	tions 💮	Customer Relatio	onships	Customer Segments	
	Key Resources				Channels			
		~						
Cost Structure				Revenue Stree	nms			P.





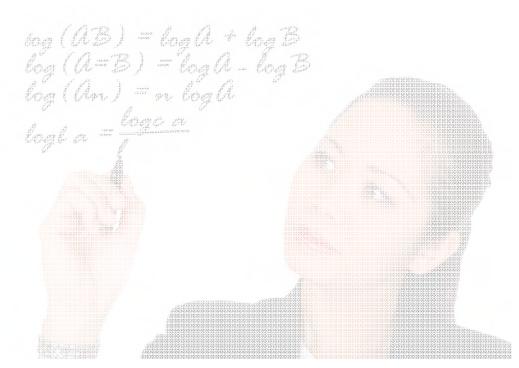


What is Strategic?



- Things are strategic because they support the company's sources of competitive advantage.
 - Things that are valued and attractive to customers
 - Things that are unique in the marketplace
 - Things that are not easily copied
 - Things that are not easily substituted by other things

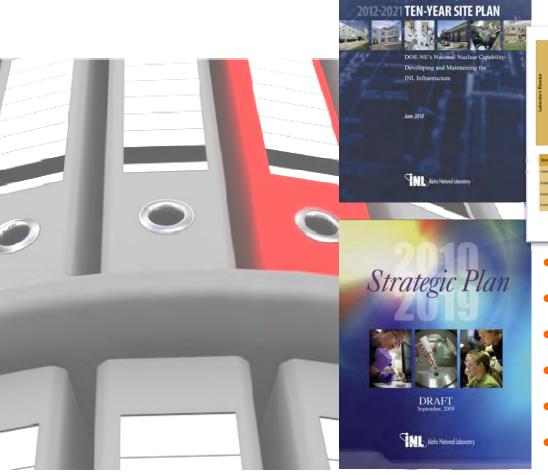
- Mark P. McDonald, Gartner

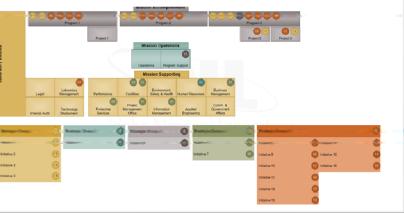


"Know thy Customer"



- What is the strategy of the organization?
- Who is executing the strategy and what are their needs?



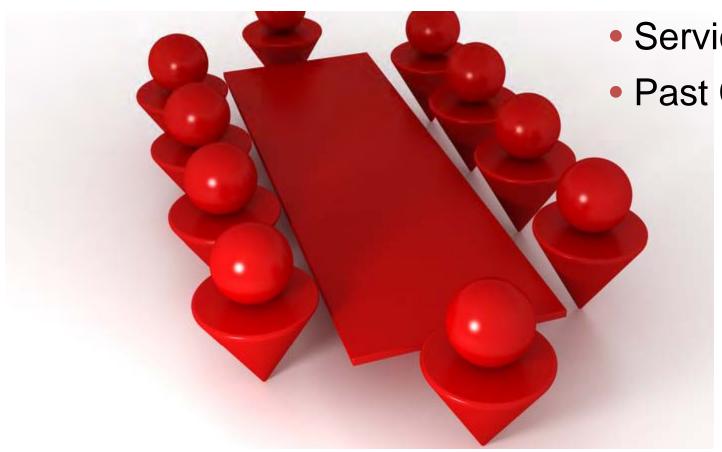


- Company Strategy
- News Stories (iNotes)
- Projects
- Department Strategies
- Organizational Structure
- Business Architecture

Customer Engagement



- Interviews
- Focus Groups
- Service Issues
- Past Complaints





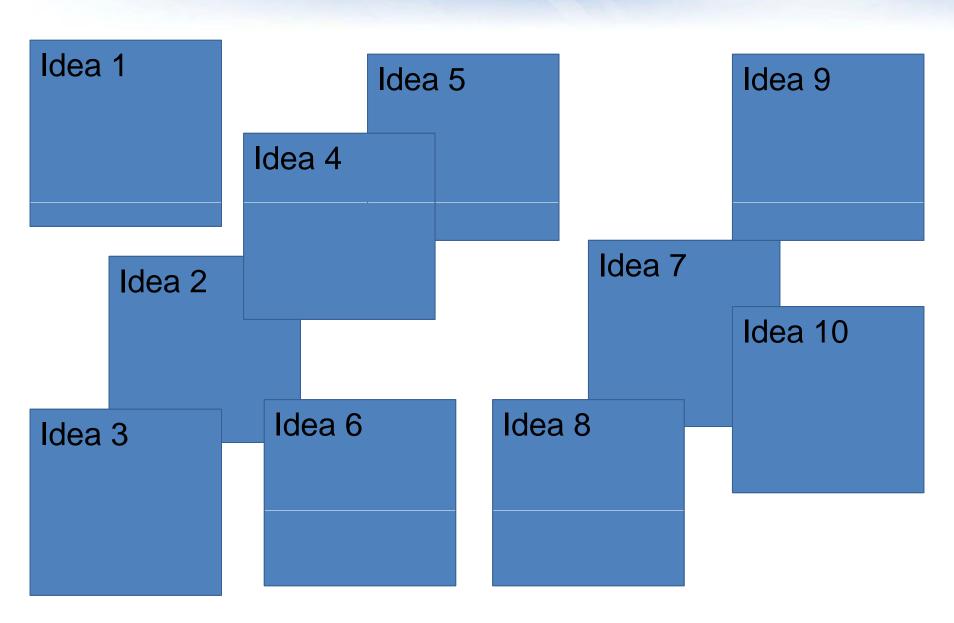
Pattern Identification

Affinity Diagram / Sticky Note Method

- Sort Ideas into natural themes by asking:
 - What ideas are similar?
 - Is this idea connected to any of the others?
- Organization
 - Headers
 - Color

Sticky Note Method





Sticky Note Method



Category 1

Category 2

Category 3

Idea 1

Idea 2

Idea 9

Idea 5

Idea 10

Idea 4

Idea 7

Idea 6

Idea 3

Idea 8

Strategy Identification



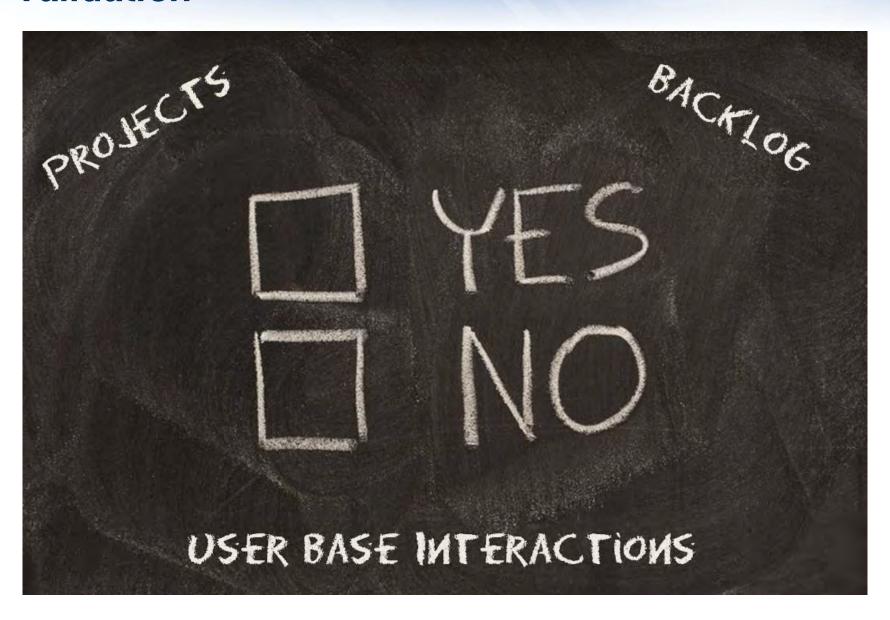


- End State Goals
- Prioritization



Strategic Validation





Distributed Ownership



- Strategic Initiative Review Meeting
 - Distributed Ownership
 - Presentation
 - Internalization



Planning Strategic Execution





Strategic Plan



IM Strates 2011 - 2013



- · Creating processes and constructs that will deliver a cor planned, executed, and managed effectively to provide r
- · Delivering high quality, reliable infrastructure that match
- · Providing means for ensuring that organizational human
- · Developing background integration between systems to

Goal 2: Enabling the Laboratory

Enable growth in the Laboratory by:

- · Delivering the right information, to the right people, in
- · Enabling secure and ever-present connectivity between to the Laboratory
- · Supporting the Laboratory in establishing a reputation o
- · Ensuring a robust and capable environment for Laborato

Goal 3:Transforming the Laborate Transforming the Laboratory to a highly ag

- · Combining technologies, processes and management to tion value to Laboratory mission success.
- · Ensure business processes that are intuitive and easy-to-
- Provide innovative solutions to mission organization characteristics.
- · Realign organizational resources supporting information Laboratory activities.

Goal 4: Protecting the Laboratory

Ensure protection of Laboratory assets by:

- · Establishing an outcomes-based risk-management appro
- Laboratory is best suited for the evolving security lands Enhancing the Laboratory usage of classified infrastruct
- Identifying and organizing data across the Laboratory, b for Laboratory decision making

· Creating an established lifecycle for systems that ensure mission through retirement of legacy systems and reappl

Transforming the Labora

High Performance Workplace

High Performance Workplace is the develop framework that engages with organizations Laboratory in transformational activities to Laboratory performance.

A High Performance Workplace is an enviror combines technologies, processes and manag foster high individual, workgroup, and corpor mance. It includes multiple factors that enha ability to deliver business value. It focuses o highly skilled workers so that they can be mo and innovative. It supports employees in enh in the areas of:

- · Learning
- · Discovering
- · Innovating
- Leading

Roadmap

IM Strategic Initiative

2011 Deliverables

calendaring, instant messaging)

Management systems - mission

HPW Services (E-mail,

2012 Deliverables

1 HPW Services (Internal /

Future service roadmaps

external collaboration)

0 100% of Lotus Notes divested

(Supply Chain, F&SS, ES&H)

Lab-wide IM consolidation plan

Integration of strategic business systems (PMO, Finance, HR)

- High Performance Workplace (HPW)
- Business Enablement Framework
- 1 Information Management Consolidation
- Future service roadmaps (HR, PMO Finance)
- Lab-wide IM assessment 1 Integration of Information Services
- Cross-functional Advisory
- 6 Enhanced mobile capabilities O Operational Excellence
- Solidifying Electronic Infrastructure 6 Human Capital Management
- O System Integration
- Group for software investmen

- (a) IM service optimization (commodity divestment)
- Voicemail integration with messaging environment
- ldentification of strategic business systems (asset portfolio)
 - Multi-source information foundation and information value
 - INL Business Intelligence Enhanced video conferencing

Practice to identify strategic

- HPW FY-12 requirements Innovation Community of
- Reputation & Professionalism
- Collaboration & Communication Modeling & Simulation Infrastructure

Information & Knowledge Management

Evolving Cyber Security

- New high-speed super-cluster Idaho Computing Consortium
- B Enhancing Classified Infrastructure (1) Information Acquisition & Stewardship (1) INL data dictionary
- (B) Divestment of Legacy Systems
- Secure mobile device
- Classified workstatio
- (identifying \$5 million for commodit & divostment)

- INI information benchmark
- INL mobile device applications (e.g. TA, expense report,
- Desktop video conferencing
- HPW FY-13 requirements
- HPC data center expansion
- (2) Identity and access management Urtualized classified
- (I) INL knowledge capture
- (2) INL business information



Next: IM



Project Execution

Requirements

Solution Design

Metrics

Enterprise Architecture

Information

Business Process

Technology

Strategic Initiatives

Deliverables

Success

Metrics

