# **ISPI 2003 Conference**

# Performance-Based Knowledge Management Systems

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by\*:

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\* Original version developed with Brian Blecke in 2002

leveraging know-how for performance!

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# Why KM and KMS?

What business rationale is there for considering and implementing KMS?

- Protect –guide process performance and compliance
- Improve -guide/streamline process performance using

KMS – to protect and improve the enterprise





# **Top 10 KMS Mistakes**

- Unclear business rationale
- 2. No consequences for contributing content to system
- 3. No consequences for using the system
- 4. System is too complex/difficult to use
- 5. Not designed to address felt performance need
- 6. Not designed for the job environment
- 7. No plan for content maintenance
- 8. Not resourced adequately
- 9. Driven by staff, not line
- 10. Not integrated with related tools/systems/processes

It's not about the tool, the storage, or the media—it's about protecting or improving the enterprise





# Session Description

## This session will present

- KMS is a business decision first
  - Target key performances/audiences
  - Target key knowledge
- Design the system and the content
  - Target "push" delivery
  - Build to accommodate "pull" delivery
  - Design fors . . .
- Manage the implementation
  - Test early and often
  - Install organization enablers and supporting processes

Target and deploy intellectual capital to both *protect and improve* the enterprise





# Session Objectives

At the conclusion of this session, you will be able to

- Describe a Knowledge Management System (KMS), KM concepts, and misconceptions
- Identify characteristics of high-leverage performance opportunities
- Identify performance-based knowledge and environmental characteristics and their impact on KMS design decisions
- Begin planning a KMS application for your organization by identifying high-leverage opportunities and initial design direction



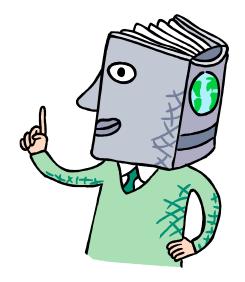


# What is Knowledge?

# Useful patterns of thinking/behaving that can be repeated and/or transmitted\*

#### For Example . . .

- Facts
- Rules
- Concepts/ideas
- Processes
- Relationships
- Skills
- Competencies



\* Not the American Heritage Standard definition





# What are the Two Types of Knowledge?

## There are two primary "types" of knowledge

- Explicit knowledge: documented knowledge
- Tacit knowledge: nonrecorded or nonexchanged knowledge

#### **Explicit**

- Policies
- Procedures
- Copyrights
- Patents
- Databases
- Etc.

#### **Tacit**

- Tricks of the trade
- Insights
- Lessons learned
- Etc.

Explicit knowledge is easier to capture for knowledge product development/deployment





While Knowledge Management has many definitions, most definitions include

- Knowledge as intellectual capital
- The creation, capture, storage, dissemination, and maintenance of knowledge

For our purposes here
KM is targeting and exploiting intellectual capital
to both protect and improve the enterprise





## What is a KMS?

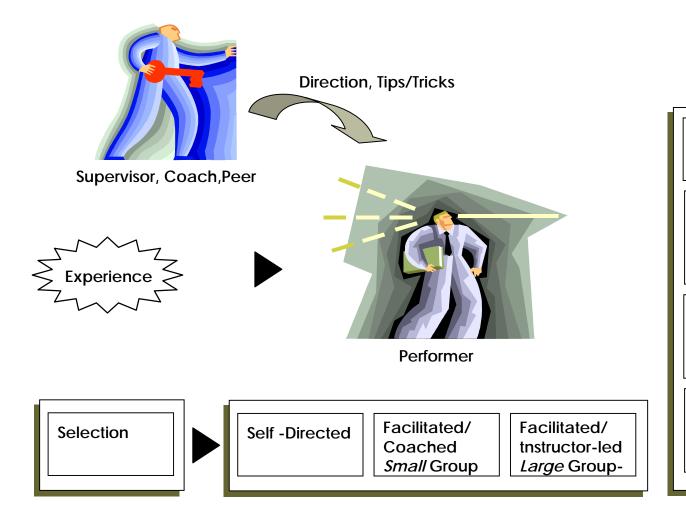
KMS is a system for the creation, capture, storage, maintenance, and dissemination of knowledge

- A knowledge-sharing culture
- Reinforcing consequences (positive and negative)
- KM policies, procedures, processes, and clear performer roles
- Staff and infrastructure
- A knowledge product repository and distribution mechanism
  - Usually an electronic warehouse and intranet-Internet accessibility





# The Performance System



**Training/Development** 

#### **Information Tools**

Prompts (e.g., "posted" job aids)

## Process/Procedure Information

- SOPs
- Work Orders

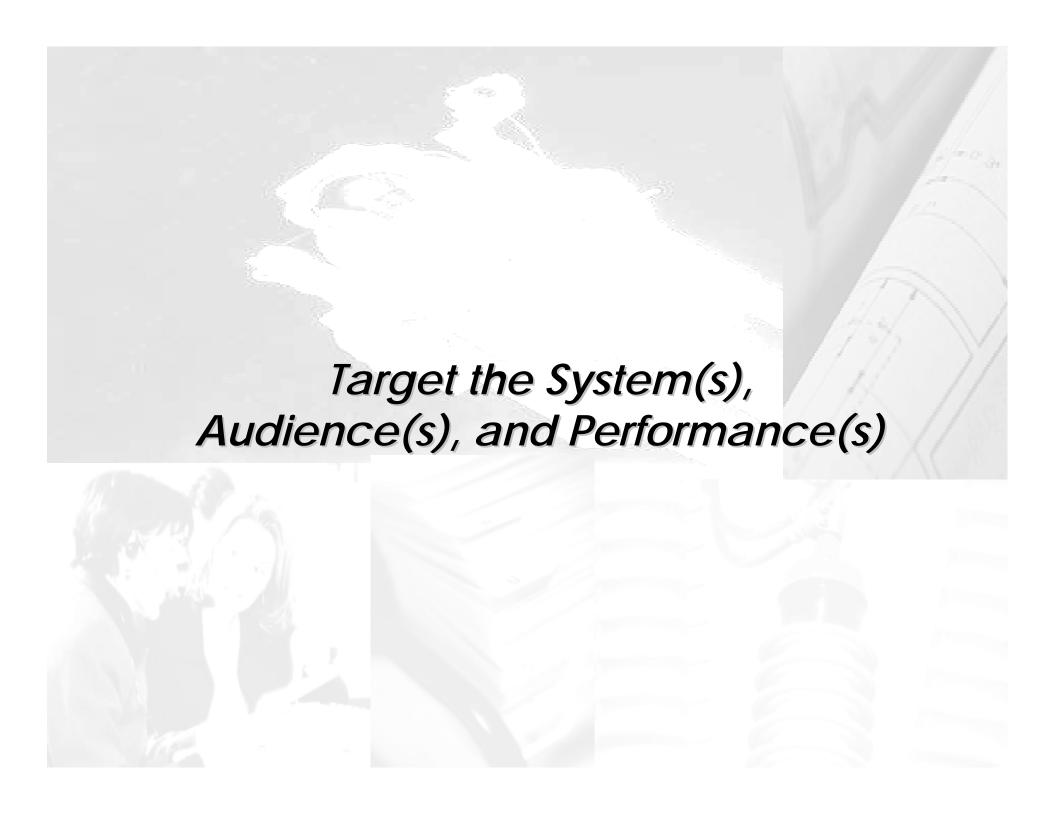
#### **Reference Guides**

- MSDS
- User Guides

#### Tools/Templates

- Estimating spreadsheet
- Standard proposal letter







## KMS Return on Effort/Investment

## What are the potential returns for a performance-based KMS?

#### Returns can come from

#### Reduced costs

- Less experienced performers are supported by tools
- Fewer "lessons learned" the hard (expensive) way
- Less time wasted looking for information
- Reduced content maintenance and distribution costs

#### Increased revenues

- Access to ideas, intellectual assets, and opportunities
- Increase business process throughput
- Fast adaptation to change

In short: better, faster, cheaper, and new





# Identifying High-value Target Performances/Audiences

Target audience/performance candidates will have the following necessary characteristics:

- Leverage on costs/revenue
- Risk exposure
- Customer satisfaction
- On strategic, critical path
- Variability in performance
- High level of skill/knowledge required for performance (versus high automation)



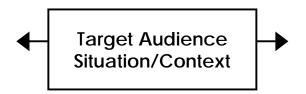




# For Example . . .

## **Call Center Agents**

High turnover



### **Underwriters**

Low turnover

Sales/revenue

Target Audience
Impact on Company

Exposure to risk

Customer satisfaction

Revenue (pricing decisions)

Regulatory exposure

Worksheet...







# Determining the Nature of Target **Audience Performance**

Different performances have different needs for knowledge and knowledge support systems

- Facts/rules/information versus ideas/wisdom
- Volatile versus stable content
- Reference versus application
- Solo versus team
- Real-time versus "stop-time" performance
- Connectivity
- Repeated process versus "one-offs"
- Ftc.







# For Example . . .

## **Call Center Agents**

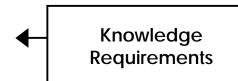
Transaction



### **Underwriters**

Transaction/ relationship

- Product
- Regulatory
- Process
- Technical
- Systems



- Systems
- Finance
- Industry-specific
- Liability law
- Etc.

- Managers
- Customer Service



- Claims
- Actuaries

Worksheet...







## Performance-based KMS

Performance-based KMS aligns the knowledge capture and distribution strategies to protect and improve *performance* 

- Critical/targeted
- "Need to know" content is "pushed"
- Available when/where needed in performance/work process
- "Consumable"

# This is where our ISD and HPT methodologies become part of the KMS effort

KMS – to protect and improve the enterprise





## **Push-Pull**

A marketing concept where "products" are *deliberately pushed* to certain target audiences, while other audiences are *enabled to pull* content from the product distribution system

## **Push** examples

- Nonrequested credit cards in the mail
- Free trial magazine subscriptions

## **Pull** examples

- Credit card applications at your bank
- Magazines available at stores





# System Design Philosophies

Point	Counterpoint
Design the system	Let the system evolve—you can't predict what users need
Create a "data/content" warehouse	Create a "yellow pages" for the enterprise
Centralize the system for access everywhere	Localize the system for maximum customization to user needs
Use "gatekeepers" for content	Let the "content market" decide
Coordinate related efforts (e.g., T&D, technical publications, etc.)	Let each organization/process seek its own market





# **KMS Components**

Like any other system, a KMS has multiple components that must work together to deliver an integrated functionality

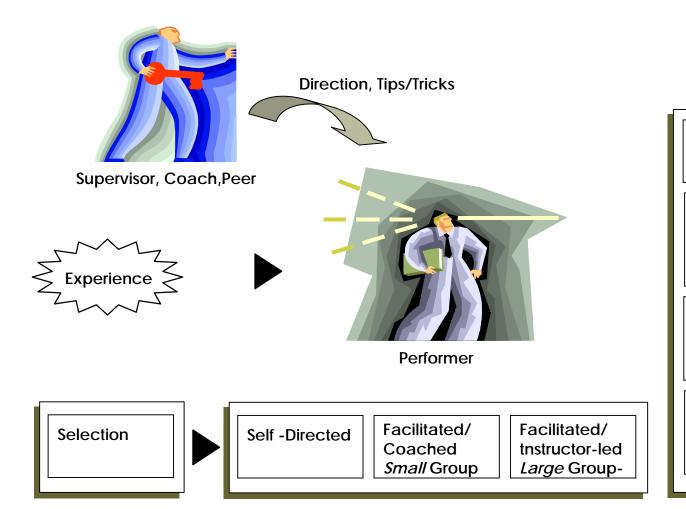
- Content
- Business processes
- Management (rewards/expectations)
- Data management and distribution technology

Greatest leverage for HPT and ISD practitioners is on the content inventory for explicit knowledge





# The Performance System



**Information Tools** 

Prompts (e.g., "posted" job aids)

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**Training/Development** 





# **Content Characteristics Implications for KMS**

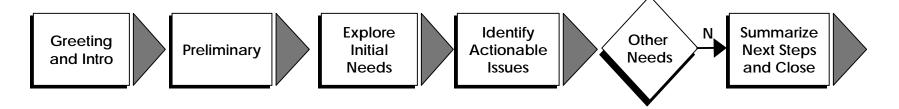
Characteristic	Implications for KMS
Reusability	"Chunk" appropriately
Shareability	Manage access
Volatility (shelf life)	Plan for maintenance and discontinuance
Transferable	Select appropriate deployment methods
Individual	"Push" when needed



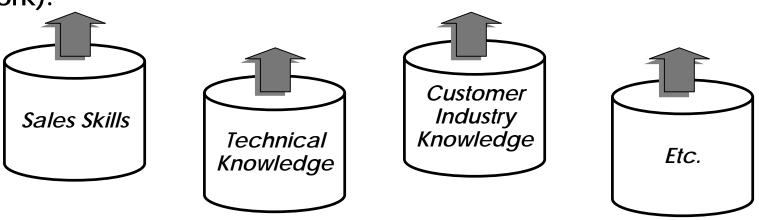


# Performance vs. Enablers

All information describing *performance*, including outputs, tasks, and measures can be categorized as "the work."



In addition, there are "enabling knowledge/skills/attributes/values" (what you need in your behavioral repertoire to do the work).

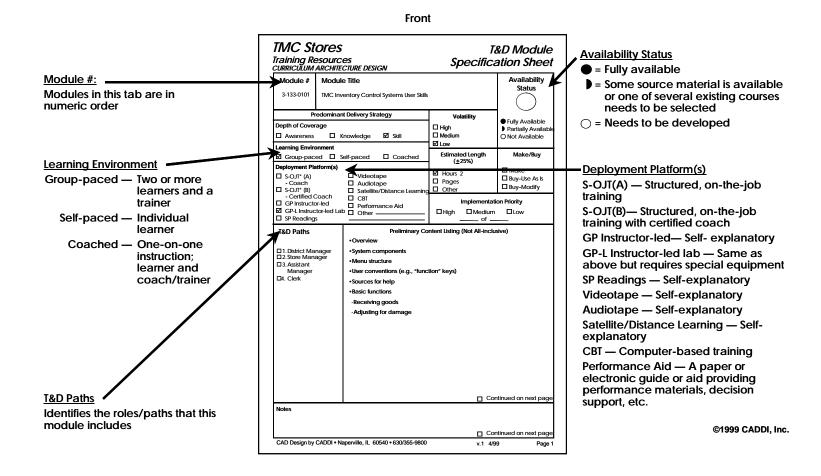






# **Content Specification Form**

## Defines an initial "chunk"—becomes object or "activity"







# For Example . . .

### **Call Center Agents**

## **Underwriters**

- Master performers
- **SMEs**
- "Bottom up" modules
- **Prioritization**
- Tariffs/regulatory
- **Products**
- **Process/procedures**
- **Group-paced classroom**
- Coached (SOJT)
- Intranet (self-paced)
- Legal/regulatory driven
- Methods and procedures



Content

**Documentation** 

**Deployment** 

Content Maintenance

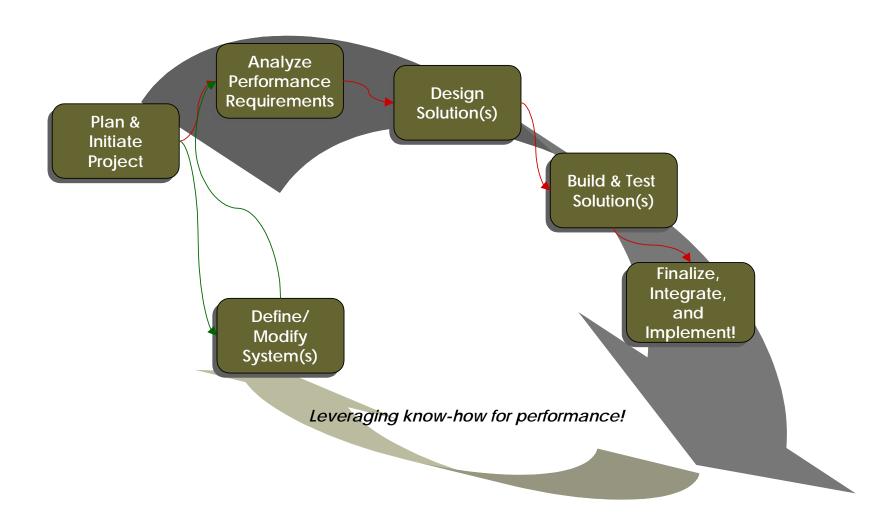
- Master performers
- **SMEs**
- "Bottom up" modules
- **Prioritization**
- Case library
  - Spreadsheet tools
- Process/procedure
- **Group-paced classroom** Content
  - Coached (SOJT)
  - Intranet (self-paced)
  - Legal/regulatory driven
    - Underwriter's committee







# System Design Process







# Organizational Issues

- Create alignment around business priorities, and communicate targeted/high-priority audiences, processes, and content
- Divide up the turf
  - T&D
  - Documentation
  - Corporate library
  - Functions
  - Etc.
- Establish overall governance and advisory structure to oversee the effort (i.e., set priorities, allocate resources, "referee" between functions)





# Organizational Issues (continued)

- Define roles/responsibilities (and provide training) for consistent content development and ongoing maintenance
  - Chief content architect/engineer
  - Content developers
  - Master performers ("voice of the customer")
- Create and institute necessary supporting business processes
  - Chartering and managing content development projects
  - Review/audits of existing content
  - Monitoring usage and effectiveness





# **Design and Development Issues**

- Establishing the content deployment platforms and standards
- Using six-phase analysis and design process to define content
- Incorporate existing content/convert existing content
- Managing multiple streams of development
- Test
  - Fit with performance
  - Functionality
  - Usability
  - Accuracy







# Summary

- KMS is a business decision first
  - Target key performances/audiences
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  - Build to accommodate "pull" delivery
  - Design fors . . .
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## For More Information . . .

#### Contact

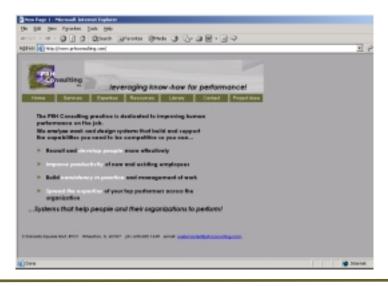
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#### See Also .

#### Articles available

- "Systems That Help People Get Work Done"
- "Concurrent Design of Products and **Information Support Systems**"

Other topics also available in the "Library" section of www.prhconsulting.com

