

Building Blocks of an E-Learning Infrastructure

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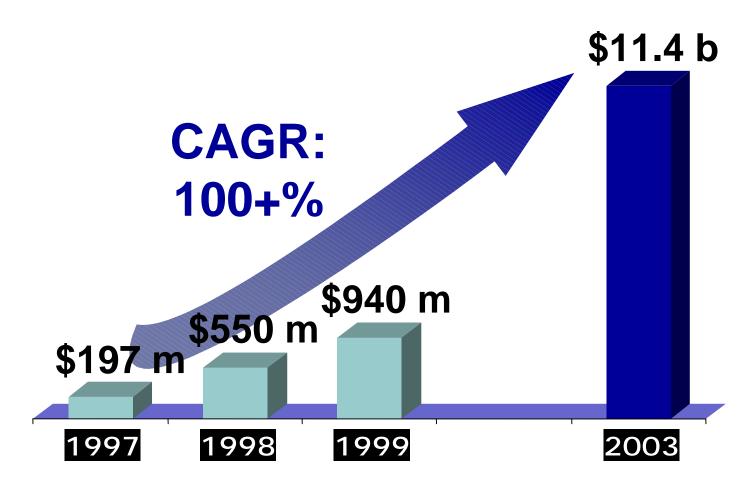


Agenda

- Why is E-Learning Hot?
- Requirements for an E-Learning Infrastructure
- E-Learning vs. Knowledge Management
- How do you get started?



Rapid Uptake Predicted for E-Learning



Source: IDC



Why is E-Learning Hot?

"The next big killer application of the internet will be education ... it will make email look like a rounding error."

John Chambers CEO



" It is estimated that 50% of employee's skills become outdated in 3 to 5 years."





"We have become a knowledgebased economy, fueled by lifelong education and training..."

Alan Greenspan

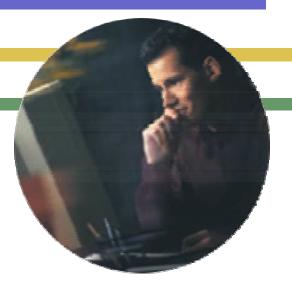
" Thanks to the internet, adult education may become our single largest industry."

Peter Drucker



Corporate Applications for E-Learning

Workforce Transformation



Sales Channel Optimization

- Enable Mergers and Acquisitions
- Enter new markets
- Improve Skills



- Increase Sales
- Improve Time to Proficiency
- Reduce Turnover

Customer Education

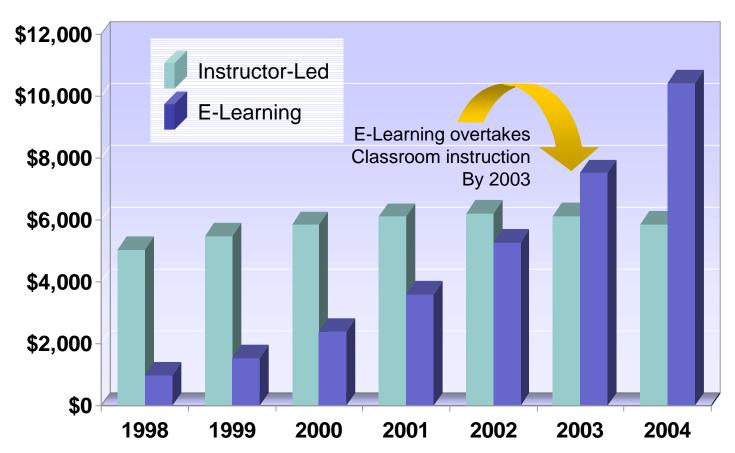


- New Revenue Sources
- Increase Customer Satisfaction



Dramatic Shift from the Classroom

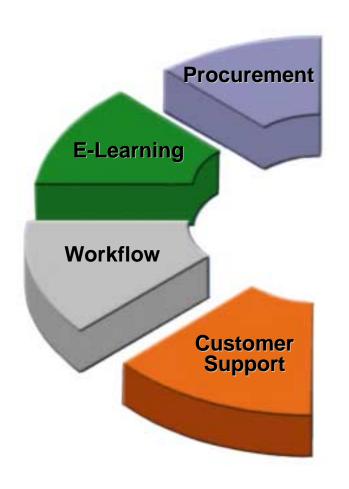
Annual Revenue by Methodology in \$000s

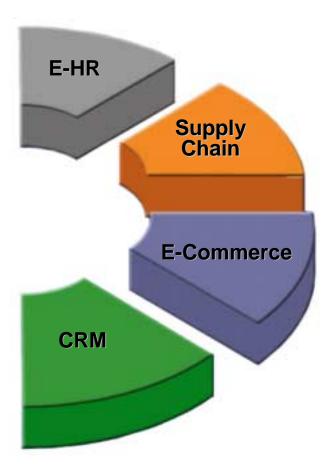




E-Business Initiatives

Better, faster, cheaper

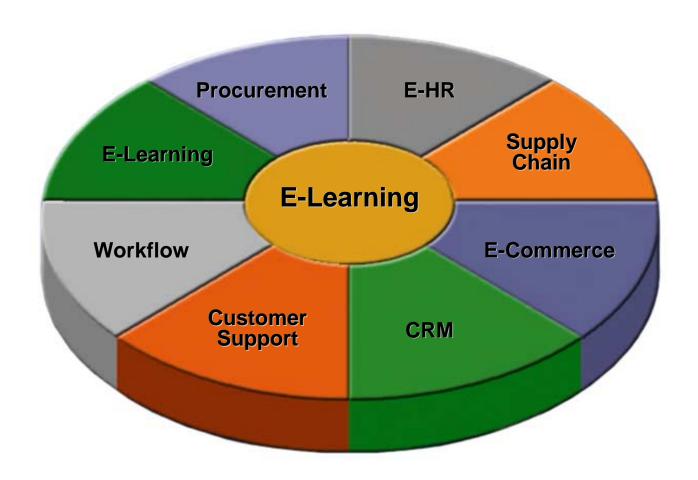






E-Business Initiatives

Better, faster, cheaper





E-Learning is A Business Imperative

What it is:

- A strategic tool to drive change and results
- A way to improve existing learning and training
- A tool for competitive advantage
- An internet business service

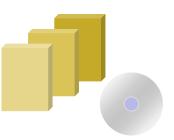
What it is <u>not</u>:

- Only a way to reduce the cost of training
- A way to replace classroom instruction
- A support function
- A simple web site with online courses



The Challenges of E-Learning Today





Development Tools
Building Courses



Training Tutors



Instructional Design Integrating Experts



Buying and learning Web Development Tools

Technology



Integrating Chat and Virtual Classroom Technology

Fragmented Market
Lack of Integrated
Solutions



Developing a **Custom Portal**

Integration with ERP Systems

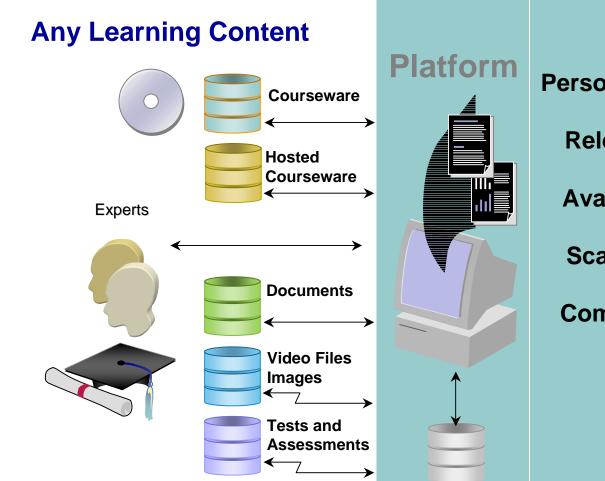




Installing
Customizing
Managing
Learning
Management Systems



E-Learning is a Portal Solution

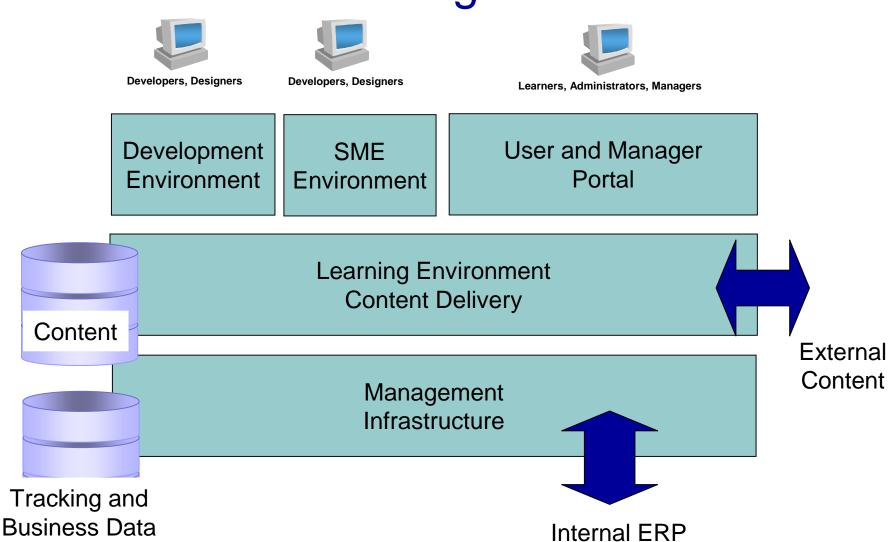


Personalized
Relevant
Available
Scalable
Complete



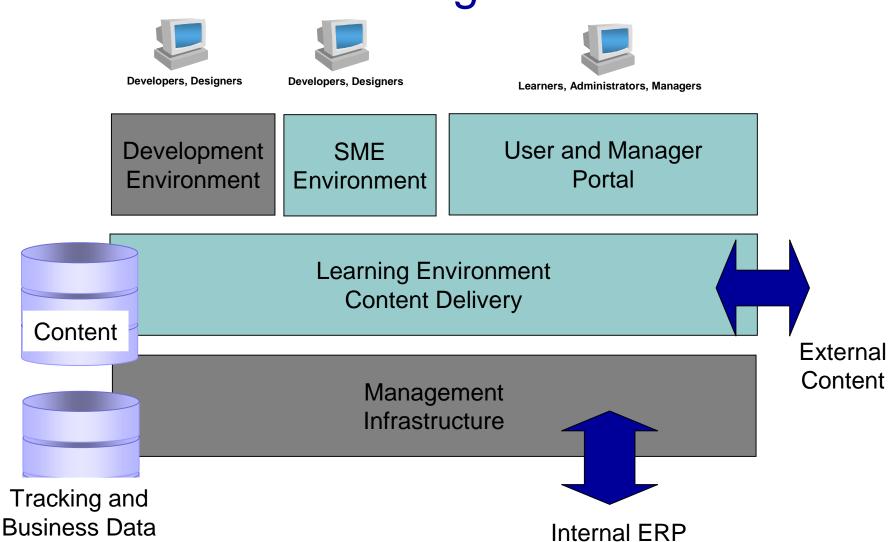


Fundamental Building Blocks



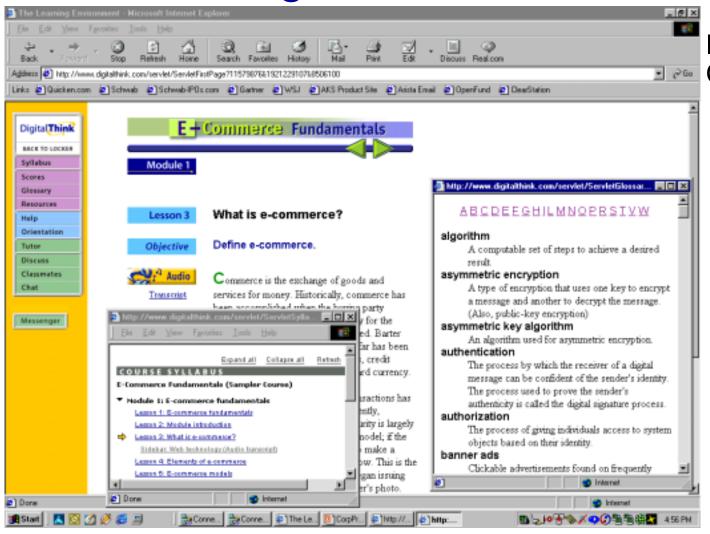


Fundamental Building Blocks





The Learning Environment

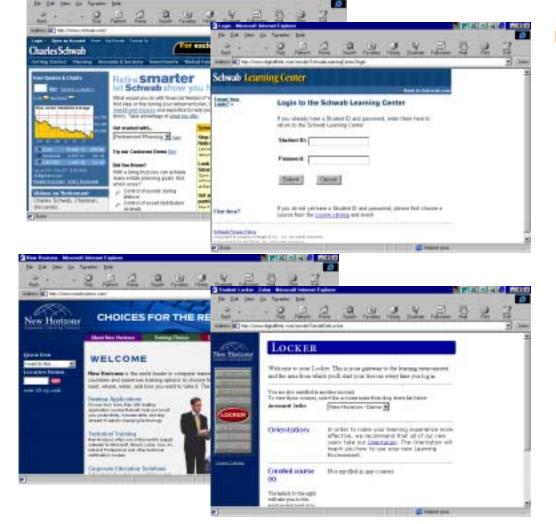


Integrated Components

- Syllabus
- Glossary
- Help
- Classmates
- Tutors / Experts
- FAQs
- Discussion
- Simulations
- References
- Assessments
- Audio
- Video
- Bookmarking



Branded Portal and Courses



- Your Learning Portal
 - Logos, Colors
 - Course Catalog
 - Registration
 - Content
 - Marketing
 - Feedback
 - Tutors



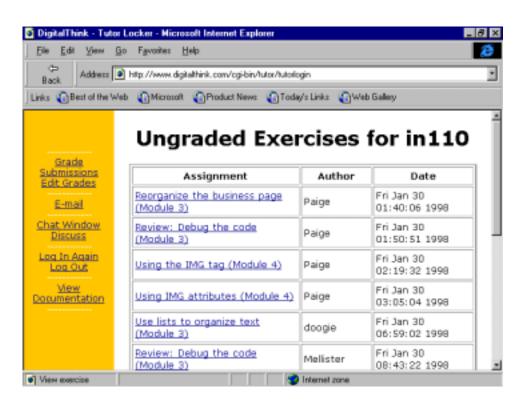
Tracking and Reporting

- Bookmarking by Page
- Track Progress
 - Learners Themselves
 - Managers
 - Executives
- Enterprise Reporting
- AICC Specification
 - Open 3rd Party Content
 - Level 1, 2, 3





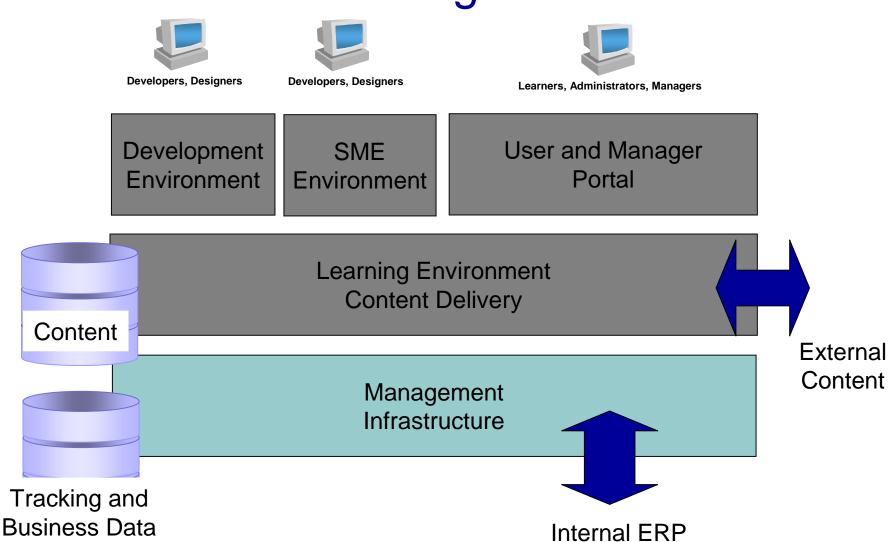
Subject Matter Expert Integration



- Completion requires
 People to Intervene
- SME's want to author content!
- SME's Integrated into Instructional Design
 - Review all exercises
 - Initiate communication
- SME Portal
- SME Reporting
- SME Feedback to content developers

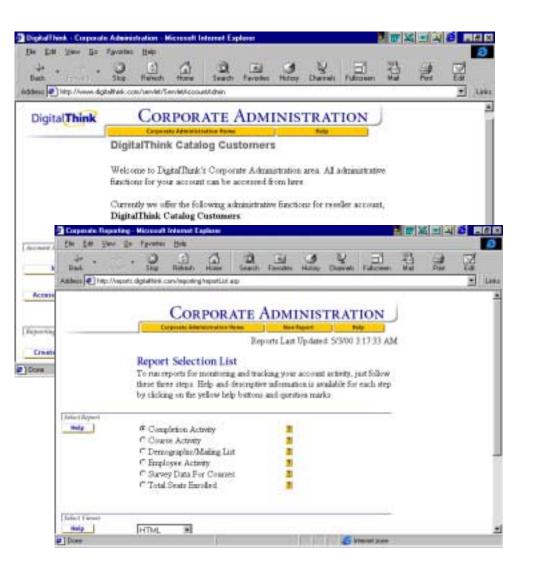


Fundamental Building Blocks





Management Infrastructure



- Registration
- Enrollment
- Scheduling
- Dynamic Catalog
- Integration with HR and Financial Systems
- Skills Management

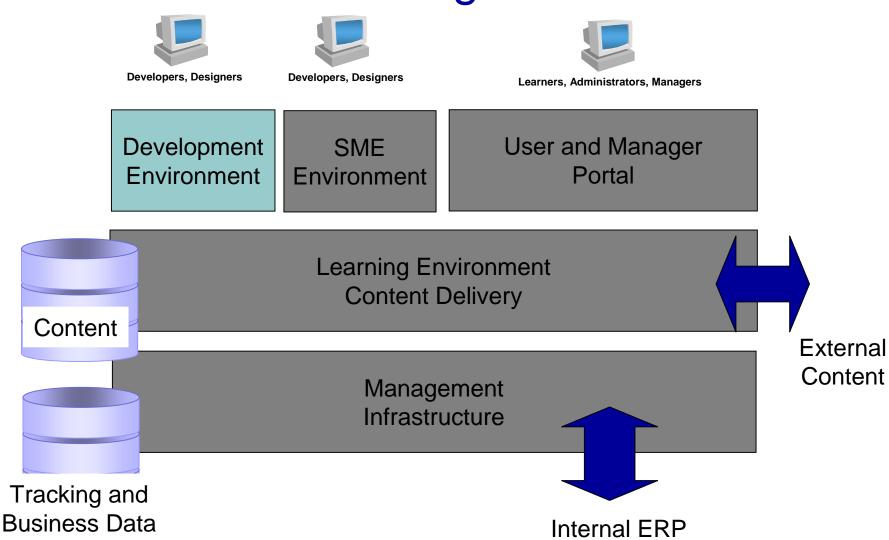


Technology Infrastructure

- Scalability
 - Thousands of Users, very long login times
 - Complex objects graphics, video, text
- Availability
 - Learning is "optional" people will drop out
 - Frequent off-hours usage
 - Customers and Partners expect availability
- Feature Rich
 - Synchronous and Asynchronous Learning
 - Virtual Classroom Technology is here



Fundamental Building Blocks





Content Development Environment

- Less than 1% of the e-learning content needed is available today
- Dropout rates can be very high, so you must be aware of ...
 - Instructional Design Issues
 - Technology and performance issues
 - The right content type for the right audience



Content vs. Audience

Skills Transfer	Information Distribution	Community Learning
Programming in Java, Value- Based Selling, Introduction to E- Business, Internet commerce, etc.	New product announcement, new company announcement, new company procedures, etc.	The CEO online with the state of the company, the Java guru talking about Enterprise Java Beans performance
Asynchronous	Asynchronous	Synchronous
Web-based course or kiosk	Web-based learning object	Virtual Classroom
Hours in length	< 2 hours	< 1 hour

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DigitalThink Instructional Design

Community

Design Principals

Standard Organization

Objectives-Based, Modules, Lessons, Sidebars, Exercises, Quizzes, Case Studies

Common Elements

Syllabus, Projects, FlipBook, MouseOver, Simulations, Glossary, Applets, Learning Checks

Standard Look and Feel

Graphic Objects, Images, Quotes, Audio, Code Samples Naming Standards, Reusable

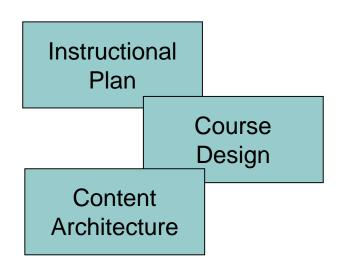
Tellme, Showme, Letme
Objectives, Interactivity, Performance,
Projects

Discussion, Classmates, Messenger Tool, eMail, Tutors



Content Development Methodology

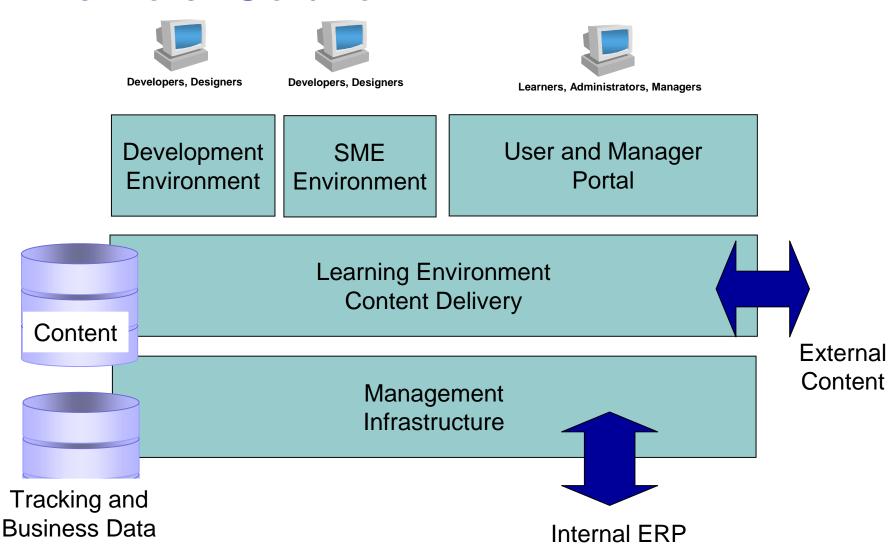
- Define
- Design
- Develop
- Produce
- Publish
- Deploy
- Portal-Enable
- Maintain



Content Management, Tools, Workflow, and Consistency



The Total Solution





E-Learning and Knowledge Management

E-Learning

Online Courses
Assessment
Learning Plans
Certification
Skills and Competencies

Knowledge Management

Knowledge Databases
Asset Mapping
Categorization
Search
Expert Access

Next Generation e-Learning

No distinction between learning and doing, words like 'training' and 'course' go away
Scalable Learning and working environment
Real time access to Knowledge, People, Resources
...anywhere, any time, any subject, any language
...just in time, just enough, just right



Getting Started

- Find strategic business focus
 - Workforce Transformation
 - Sales Channel Optimization
 - Customer Education
- Build or buy decision
 - Focus on learning and content first
 - Infrastructure and environment second
- Find a partner



About DigitalThink

We provide a total end-to-end solution for corporate E-Learning.



- Driven through enterprise-class outsourced e-learning technologies
- Providing award-winning, business focused learning content
- Complemented by world-class business analysis and course development services.



DigitalThink: Industry Leadership

"DigitalThink has become the standard against which other players compare themselves..."

WR Hambrecht, July 12 2000

"We believe DigitalThink is uniquely positioned to become the defacto e-learning platform..."

Robertson Stephens, July 7 2000

"DigitalThink is setting the standards for the exploding B2B e-learning market"

Chase Hambrech and Quist, May 2000

" DigitalThink is the category-defining company in this space."

Chase Hambrech and Quist, May 2000