

Data Quality Challenges in Enabling eBusiness Transformation*

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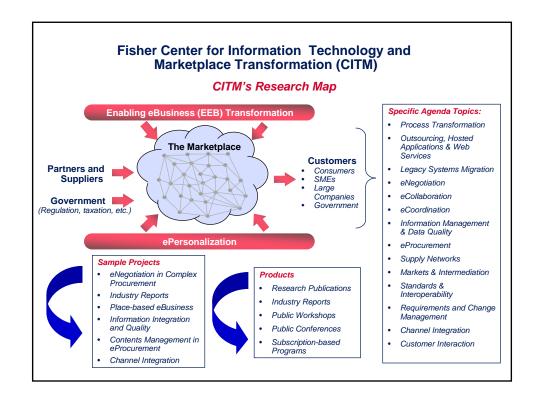
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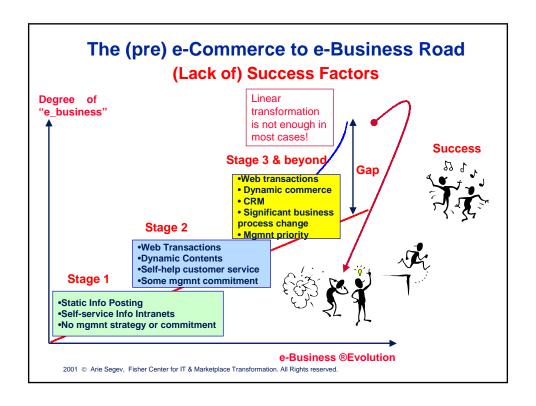
* Part of this work is done in collaboration with Prof. Richard Wang (see paper in proceeding)

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Presentation Outline

- > CITM's Research
- > eBusiness and Marketplace Transformation
- > Data Quality Issues
- > Examples of eBusiness projects
 - > Content Management in B2B eProcurement
 - > From Middleware to Anyware
- > Summary

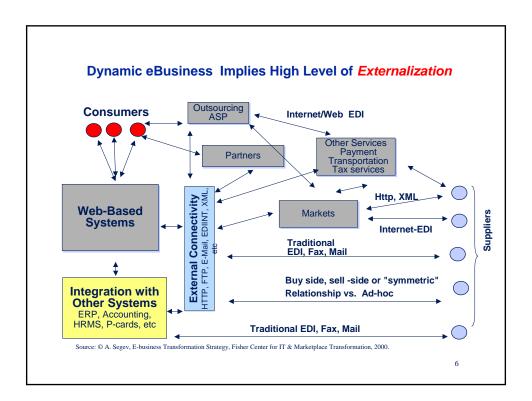




The Fundamental eBusiness Changes

Through Technological Capabilities, Global Connectivity and Reduced Transaction Cost we Observe:

- Redefinition of Core Competency and Products
- Change in Revenue Models
- > Change in Relationships: Coopetition, Buying, ...
- Change in Functional Processes and Organizational Structure
- Lower Granularity and New Models of Outsourcing
- Mew Models of Customer Interaction



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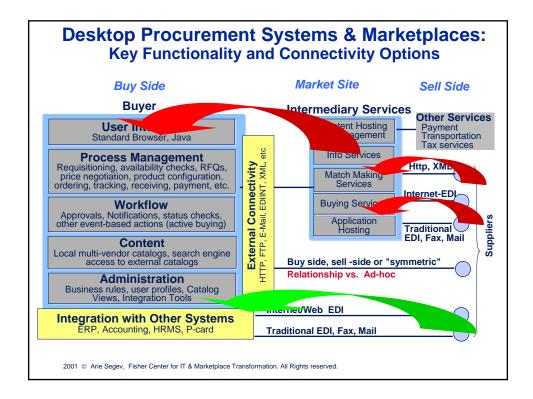
Data Quality Challenges

- More parties, larger data space, more dynamic, more heterogeneous
- More complex business relations among producers, users and intermediaries of data.
- > Interdependency of processes and data
- Ownership of processes and data
- Data segregation requirements (adverse effect on quality)
- Internal Company DQ practices might be an obstacle to market-oriented eBusiness processes
- Data logistics and e-contamination (see example on next slide)

DQ Strategy - how to determine optimal DQ level? Differs for producers, intermediaries and consumers of data

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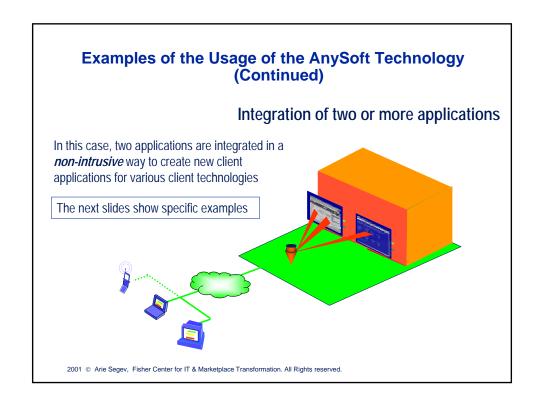
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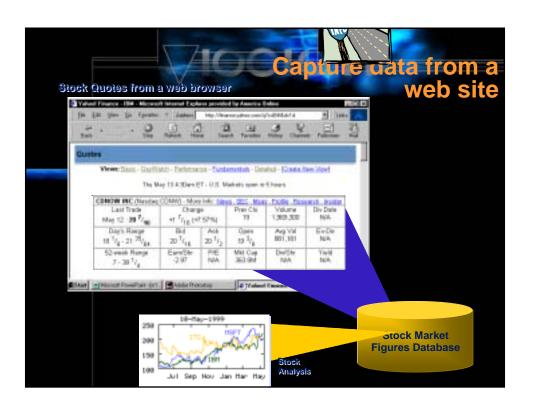
From Middleware to Anyware

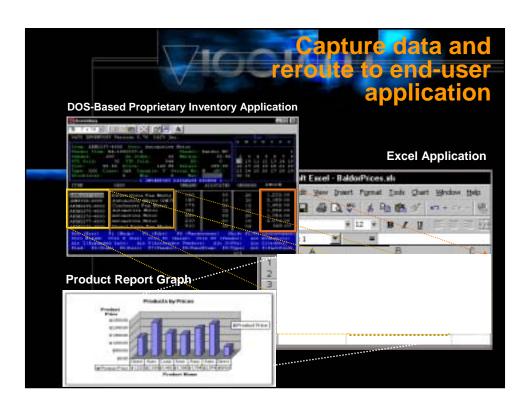
(A joint project between CITM and LLNL with the Support of AnySoft Inc.)

- The Anyware Concept
 - > Enabling interoperability
 - > Integration support
 - > Application augmentation
 - Can reside at the server, at the client, in the middle, or anywhere
 - > Universal (Any platform, any application, ...)
 - Non-intrusive (Does not touch the original application)
- Can the above be realized. Technologies & methodologies such as the ones used in this project advance the above concept towards reality.

Examples of the Usage of the AnySoft Technology Anysoft Digital Cortex Technology Remote Usage thru Data and UI Objects which replicate each of the components (and their operations) that comprise an application











Summary:

- > eBusiness is Changing:
 - > Relationships (with customers, suppliers and competitors)
 - > Core Competencies
 - > Boundaries of the Company
- > Main Problems to Solve:
 - > Process & Management Transformation
 - > Interoperability & Content Management
 - > Data Quality strategy, methodology, and technologies
- Anyware-type Technologies can Facilitate and Reduce the Cost eBusiness Transformation
- Further Details: http://haas.berkeley.edu/citm segev@haas.berkeley.edu

Thank You!

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