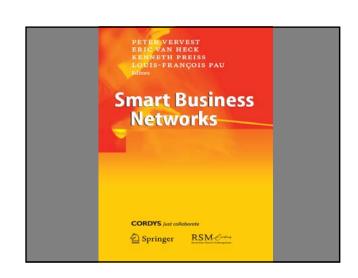
What Are Smart Business Networks? Examples and Research Questions Prof. Dr Ir Eric van Heck RSM Erasmus University Email: evanheck@rsm.nl

SBNi - Science Meets Business, Putten, June 28, 2005







Menu

- Vision
- Business Cases:
 - Kenny's Bookshop in Ireland
 - The bigword – Translation Services
 - Dutch Flower Auctions Auctioning at High Speed
- What Smart Business Networks Should Be Able to Do?
- Research Examples and Research Questions

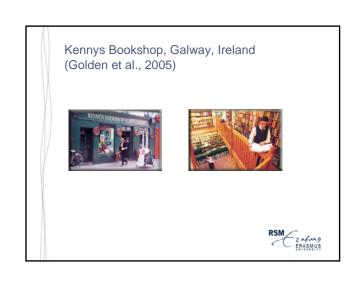


Vision

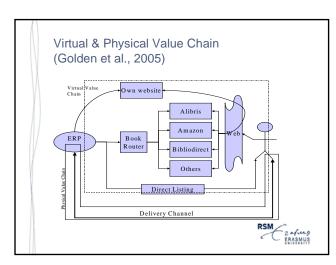
- Smart Business Networks as New Competitive Business Model
- Smart Business Networks will cooperate and compete to fulfil customer needs
- What is different?
 - Competitive advantage created by the network not the individual organization
 - Acceleration of network's ability to combine and act
 - Intelligence embedded in the smart business network captured in the business operating system
 - Real business opportunity with a thorough understanding of the science



Three examples: • Kenny's Bookshop: Using a Book Router • TheBigWord: Translations at fast speed • Dutch Flower Auctions: Auctioning at high speed



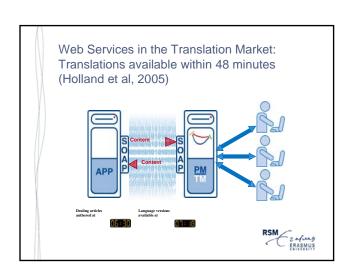




What is different? Network Kenny's bookshop linked to online bookshops and customers worldwide Acceleration Fast uploading process with inventory pricing for different services Intelligence embedded ERP system – bookrouter.com connection Business – Science Datamining – dynamic pricing



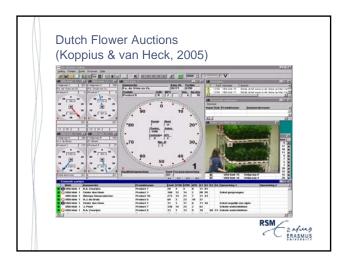




What is different?

- Network
 - TheBigWord links 4,500 "mother tongue" linguists to clients worldwide
- Acceleration
 - Fast translation process from hours to minutes
- · Intelligence embedded
 - Standardized linkages and processes
- Business Science
 - Business architecture and web services





What is different?

- Network
 - Link 6,000 growers to 2,000 buyers with 6,000 flower varieties
- Acceleration
 - Fast auction process every 3 seconds a transaction; 60,000 clock transactions a morning
- Intelligence embedded
 - Information aggregation in the market, standardized Dutch auction model
- Business Science
 - Information architecture and impact online auctions RSM
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What Smart Business Networks Should Be Able to Do?

- For companies Smart Business Networks will add value to their current and new customers:
 - Shorter time to market
 - Customized / modularized products and services
 - Innovative products and services
 - Customer intimacy AND product leadership AND Operational Excellence
- · But companies have to think about
 - their core competences in the business network
 - activities that can be out-sourced or in-sourced
 - and how to remain in the driver seat



PhD Research Project Diederik van Liere

- · Research focuses on:
 - Network Position
 - How is a firm connected in the overall structure of the network and how can a firm improve its position?
 - Network Composition
 - What are the characteristics of the member firms of the network to make the network competitive?
 - Network Strategy
 - How does information about the network (network horizon) impact the decisions for a favorable network position and network composition?
- Support by Delta Lloyd



PhD Research Project Ting Li

- · Research focuses on:
 - Railway Network Structure
 - What are network structural properties of the Dutch railway network and what are consequences?
 - Yield Management
 - How is dynamic pricing influencing travel behavior?
 - Smart Card Technology
 - How information from customer smart cards can be used to improve customer satisfaction and yield management?
- Support by NS and Incontrol



Research Questions

- Outcome
 - How do smart business networks outperform traditional networked business? Why?
- Execution
 - How are smart business networks design and execute their critical processes? Why?
- Governance
 - How is the governance of smart business networks set up? Why?
- Design
 - What rules are embedded in the business operating system and how are they embedded? What can be standardized and how? Why?



