MARKETINGINFORMATION FACULTY OF INFORMATICS, LASARIS LAB. DALIA KRIKSCIUNIENE. PHD COURSE CODE: PV250 SYSTEMS: PARTS AUTUMN, 2013

TOPICS

MKIS concepts

Marketing planning, process modelling and decision making by using MKIS. Tools &software, lab work: *Marketing plan Pro planning template*

MKIS design (structure and processes)

INTERRELATIONSHIP OF MIS, MKIS AND IT CONCEPTS

Marketing IS concepts 1 Integration of functional modules	Management IS creation concepts (O'Brien, 1990) Management operations processing	IT concepts (O'Brien, 1990), Zikmund et al 2003) Transactional processing			
2 Project and campaign	Creating	Analytic applications,			
3 Value chain system	strategic advantage ERP (enterprise resource	EAI (enterprise			
4 Competitive system		application integration), CRM			
5 End-user "ad hoc"	planning)				
support	CRM				
6 Support for marketing	Decision making	data warehouses, data			
management processes	support (DSS) Expert systems (ES)	mining, OLAP (online analytical processing)			
7 Marketing intelligence system	Executive information systems (EIS) Business intelligence	analytical processing)			
8 Multidimensional MkIS	systems (BI)				

MARKETING IS CONCEPTS

- 1 Integration of functional modules
- 2 Project and campaign
- 3 Value chain system
- 4 Competitive system
- 5 End-user "ad hoc" support
- 6 Support for marketing management processes
- 7 Marketing intelligence system
- 8 Multidimensional MklS

1 INTEGRATION OF FUNCTIONAL MODULES

This concept is the most prevailling.

- MklS modules are composed by creating collection of functional modules, each of them designed for specialized marketing-related function.
- The concept correspond to the theoretical works which present marketing function of the enterprise as list of activities and personal responsibilities
- The input information for each module is different and related to functions (e.g. sales, customer service, advertisement)
- Output- standardized reports and analytical possibilities

EXAMPLE: SAP INTEGRATED SYSTEM:

System modules are composed of various functional blocks.

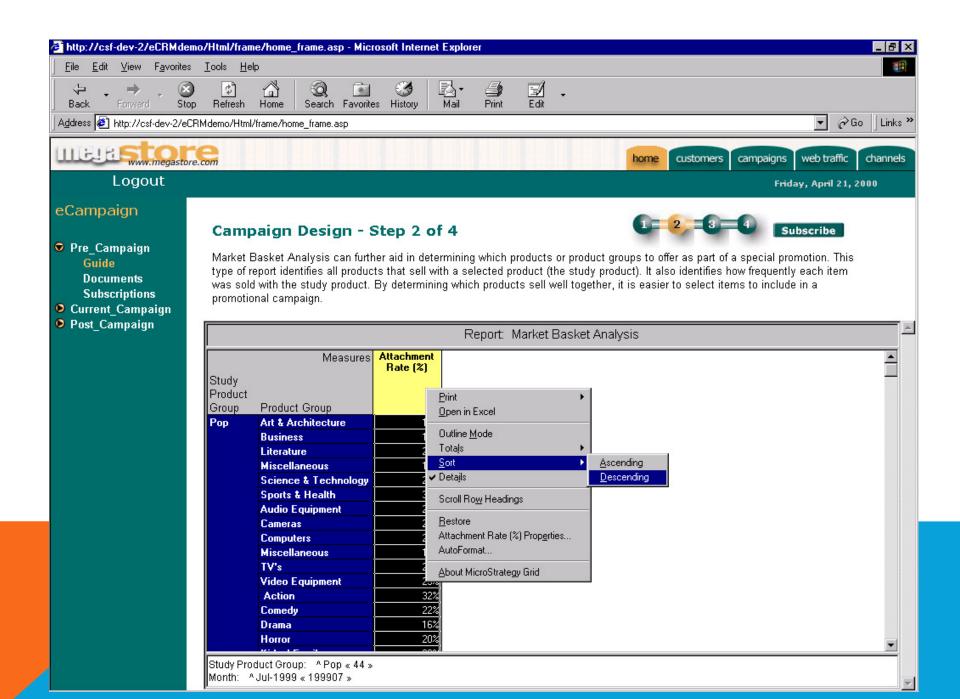
nySAP Customer Relationship Management - Enterpri

Marketing Plann	Marketing Planning		Customer Segmentation		Campaign Management		Trade Promotion Management		Lead Management		Perso
Sales Planning & Forecasting		Territory Account Contact Manager					Opportunit Manageme	() France Management XI			nt & Co
Service Plann Forecastin	1000	& Customer Serv Support				and the second s		ice Operations anagement	Prof	Profession	
Customer Analy	tics Pro	oduct /	Analytics	Marke	tin	g Analytics	Sales Ana	lytics	Service Analyt	ics II	nteracti An

2 PROJECT AND CAMPAIGN

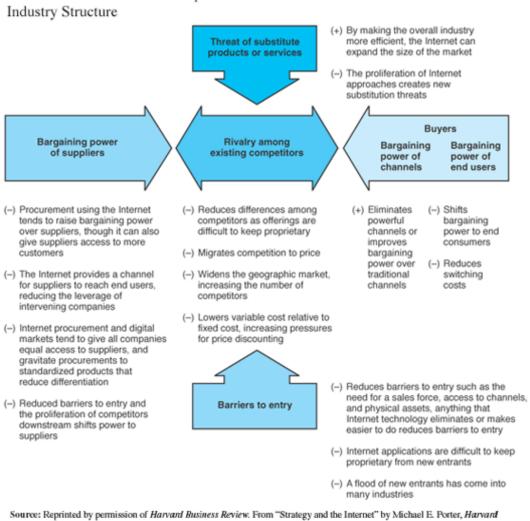
This concept corresponds to the idea that marketing lacks structure and rules.

- Each marketing activity is organized in an unique and original way; unexpected and innovative solutions created competitive advantage.
- It includes creating marketing campaigns, surveys of loyalty and satisfaction are organized by applying project management priciples
- Such type of systems have mainly general functionality (not necessarily related to marketing).
- Examples- Microstrategy 3-step campaign module (pre-campaign, during and post-campaign activities); marketing 4P mix search
- This concept involves matching information and goal



PORTER'S FIVE COMPETITIVE FORCES MODEL

Exhibit 2.9 Porter's Competitive Forces Model: How the Internet Influences



Business Review, March 2001. Copyright ©2001 by the Harvard Business School Publishing Corporation; all rights reserved.

3 VALUE CHAIN SYSTEM

These are MkIS aiming effective supply of marketing department by information from various sources emanatinng in the enterprise value chain: warehouses, point of sales terminals, mobile communications, call centres, etc

• Information from various sources is stored in data warehouses for further analysis

THE VALUE CHAIN FRAMEWORK (M.PORTER)

Firm Infrastructure

¥ Web-based, distributed financial and ERP systems

¥On-line investor relations (e.g., information dissemination, broadcast conference calls)

Human Resource Management

¥ Self-service personnel and benefits administration

¥ Web-based training

Vinternet-based sharing and dissemination of company information electronic time and expense reporting

Technology Development

▼ Collaborative product design across locations and among multiple value-system participants.

¥Knowledge directories accessible from all parts of the organization

¥ Real-time access by R&D to on-line sales and service information

Procurement

¥ Internet-enabled demand planning; real-time available-to-promise/capable-to-promise and fulfillment

YOther linkage of purchase, inventory, and forecasting systems with suppliers

¥ Automated requisition to pay

▼ Direct and indirect procurement via marketplaces, exchanges, auctions, and buyer-seller matching.

Inbound Logistics

- ¥ Real-time integrated scheduling, shipping, warehouse management, demand management and planning, and advanced planning and scheduling across the company and its suppliers
- ∀ Dissemination throughout the company of real-time inbound and in-progress inventory data

Operations

- Vintegrated information exchange, scheduling, and decision making in in-house plants, contract asseblers, and components suppliers
- Real-time available-topromise and capable-
- Vto-promise information available in the sales force and channels

Outbound Logistics

- Y Real-time transaction of orders whether initiated by an end consumber, a sales person, or a channel partner
- ¥ Automated customerspecific agreements and contract terms
- V Customer and channel access to product development and delivery status
- YCollaborative integration with customer forecasting systems
- V Integrated channel management including information exchange, warranty claims, and contract management (versioning, process control)

Marketing and Sales

- ¥On-line sales channels including Web sites and marketplaces
- V Real-time and outside access to customer information, production logs, dynamic pricing, inventory availability, on-line submission of quotes, and order entry
- VOn-line product configurators
- ¥Customer-tailored marketing via customer profile
- ¥ Push advertising
- ¥Tailored on-line access
- Y Real-time customer feedback through Web server opt in/opt-out marketing and promotion response tracking

After Sales Service

- VOn-line support of customer service representatives through e-mail response managment, billing integration, cobrowse, chat, call me now, voice-over-IP, and other uses of video streaming
- V Customer self service via web sites and itelligent service request processing including updates to billing and shipping profiles
- Fleat-time field service access to customer account review, schematic review, parts availability and ordering, work-order update, and service parts management.

4 COMPETITIVE SYSTEM

MkIS system has functionality which creates barrier for competitors to entry.

- Functions are specialized for business
- Airline reservation (Smart Amadeus, SABRE), pharmacy (Microstrategy Inc., SAP), parcel sending services (UPS; TNT; DHL)

5 END-USER "AD HOC" SUPPORT

Information supply for the "ad hoc" needs of the user (high level, mid level managers)

- Include expert, executive information, rule based procedures.
- Mainly are related to dashboards

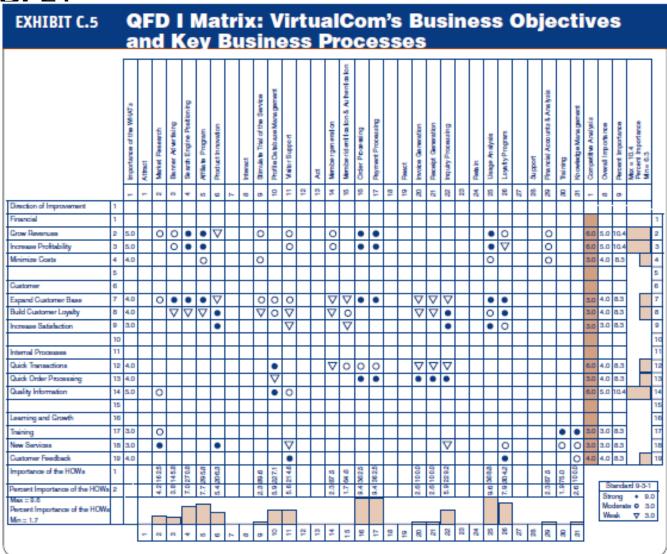
6 SUPPORT FOR MARKETING MANAGEMENT PROCESSES

MkIS modules for planning, control, audit, accounting methods

- Information sources and methodology is selected by the marketing specialist
- E.g. marketing planning software

APPLICATION OF QUALITY FUNCTION DEPLOYMENT METHODOLOGY FOR MARKETING

(EXAMPLE)



7 MARKETING INTELLIGENCE SYSTEM

Marketing knowledge and intelligence management

- Includes methods and functions for capturing information (surveys, social network, transcation)
- Data mining methods, computational intelligence for detecting hidden relationships

8 MULTIDIMENSIONAL MKIS

Multidimensional MkIS is defined as a system,

created for providing information for marketing management processes (decision support, planning, control, organizing marketing activities),

where the input information, describing the marketing-related phenomena, is transformed into multidimensional space,

and analysed along the following dimensions:

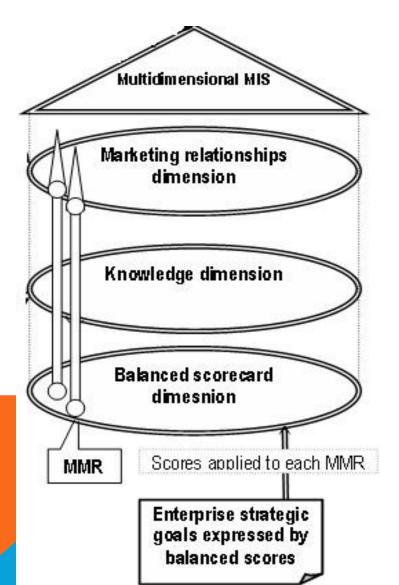
- marketing relationships,
- knowledge and
- balanced scorecard

THE LEVELS OF ANALYSIS IN MKIS

The analyzed MkIS can be applied for one or two levels of analysis and only for partial presentation of situation and dynamics.

- The most advanced systems from the multidimensional point of view are the CRM systems, created for enterprise relationships. They present possibility to map customer relationships, connected with related information created in various functional modules of the integrated system or ERP (MS Axapta, Microstrategy, SAP).
- The software for control by interrelated indicators (e.g.balanced scorecard, KPI, Six Sigma, etc.) is implemented in several certified integrated systems .
- The control modules exist separately and cannot express the marketing processes, situation and development in enterprise, however they present possibility for their 20 conceptual integration into multidimensional MkIS.

STRUCTURE AND FUNCTIONING OF MULTIDIMENSIONAL MKIS



the marketing relationships dimension the chart of main marketing relationships gives logical view of enterprise marketing structure.

he knowledge dimension of MkIS is formed by attaching sources of information related by context to the marketing relationships.

he balanced scorecard dimension implements the goals level, created for feedback and control of the MkIS.

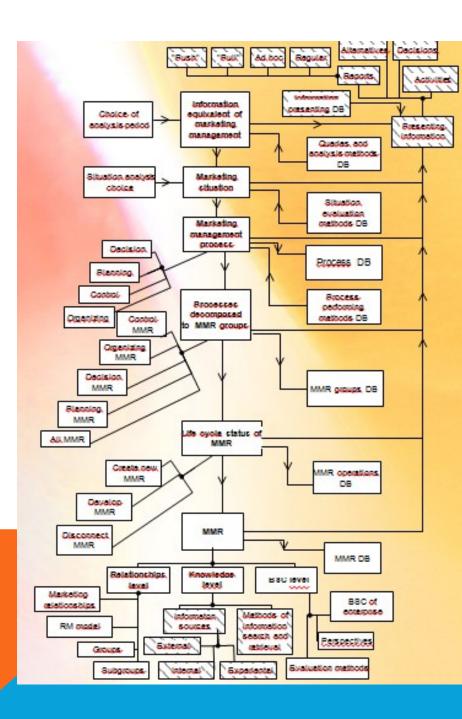
w conceptual element of MkIS structure is the multidimensional marketing relationship (MMR). It is formed and parameterized at the three dimensions of MkIS (Kriksciuniene, D. 2004). 21

STRUCTURE AND FUNCTIONING OF MULTIDIMENSIONAL MKIS

The understanding of vertical MkIS structure, consisting of the set of multidimensional marketing relationships, which can be formed and adapted for each enterprise.

This structure is used instead of traditional horizontal MkIS structure, combined of operational modules of various functionality.

The functioning of MkIS is based on the decomposing principle, where all the marketing processes and activities are represented as groups of related MMR



The multidimensional MkIS structure

The existing MkIS can be mapped as parts of the presented system view

MKIS EXAMPLES

IBM tools for marketing (Video)

http://ibmtvdemo.edgesuite.net/software/analytics/cognos/videos/launc h oct2012

MKIS EXAMPLES

http://www-03.ibm.com/software/products/en/category/SWX00?Ink=msoST-emma-usen

http://www-01.ibm.com/software/marketing-solutions/launch-fr13/index.html

Enterprise Marketing Management Solutions

All Solutions Personalization Solution

Real-time Marketing Solution Pricing and Merchandising Solution

eMail Marketing Solution Lifecycle Price Management Solution

All Solutions Advertising Solution

Real-time Marketing Solution Retargeting Solution

eMail Marketing Solution Targeted Recommendations Solution

Interactive Marketing Solution Social Media Marketing Solution

Event based Marketing Solution Mobile Marketing Solution

Marketing Operations Solution Search Marketing Solution

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A "Day in the Life" with IBM Solutions for Marketers, Merchandisers and eCommerce Pros

1. Omni-Channel Commerce & Product Recommendations

Prepare a new microsite using Websphere Commerce and include automated cross-sell via IBM Product Recommendations in a Websphere e-spot (just a few clicks thanks to pre-built integration)



2. Pricing, Promotion & Product Mix Optimization

Use IBM DemandTec, e.g. to determine optimal promotions to extend to top target customers



6. Marketing Performance Optimization

Use marketing attribution analytics, e.g. to understand which efforts to continue vs. discontinue

5. Cross-Channel Marketing Optimization

Retarget clients who experienced struggle with promo codes e.g. by importing a list from IBM Tealeaf and prompting call-center agents to offer help when clients call in

4. Customer Experience Management

Use IBM Tealeaf, e.g. to identify when customers experience struggle with promo codes so that you can resolve the issues quickly. Tealeaf deployment is easy on any site but now is even more automatic on Websphere Commerce sites and mobile applications built with IBM Worklight



3. Digital Marketing Optimization

Use IBM Marketing Center, e.g. to extend personal promo codes to target audience via triggered, intra-day email

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MKIS IN REAL ENTERPRISES

The empirical survey results (Study materials)

MKIS STRUCTURES IN THEORETICAL WORKS

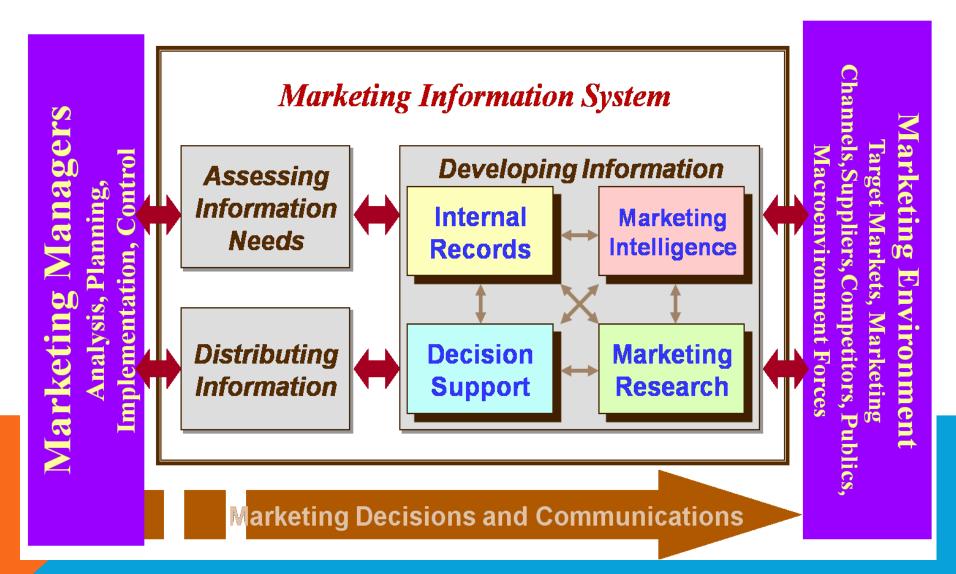
Ph.Kotler

McCarthy

Brandaid

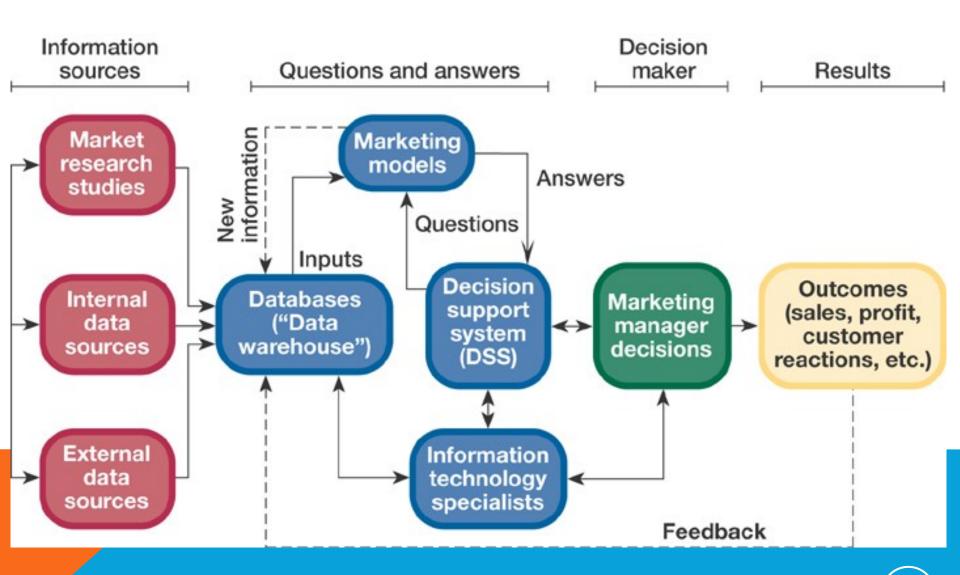
Etc. modified structurograms

THE MKIS MODEL (SUBSYSTEMS)

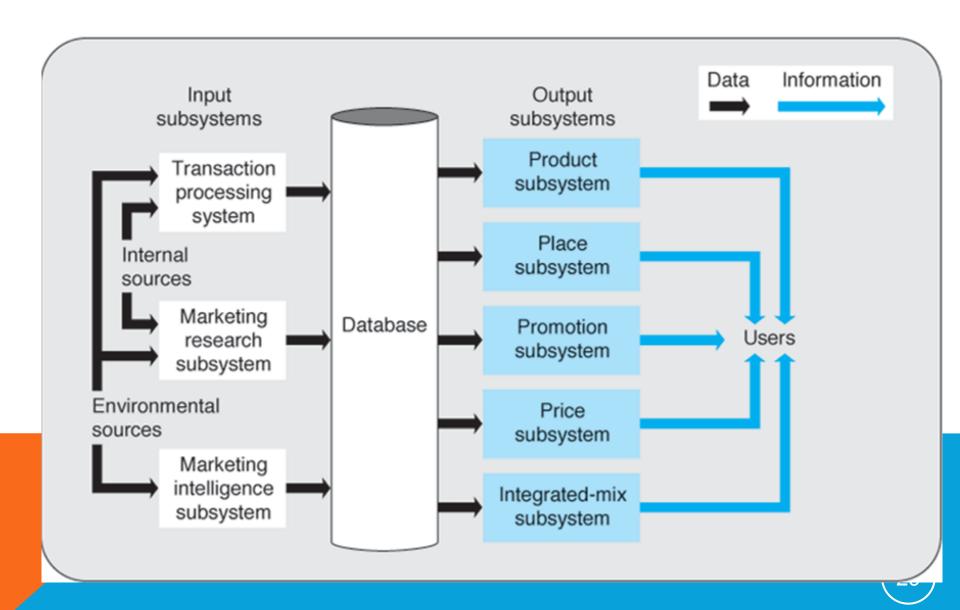


Model: Kotler P. (2003)

THE MKIS MODEL (MCCARTHY)

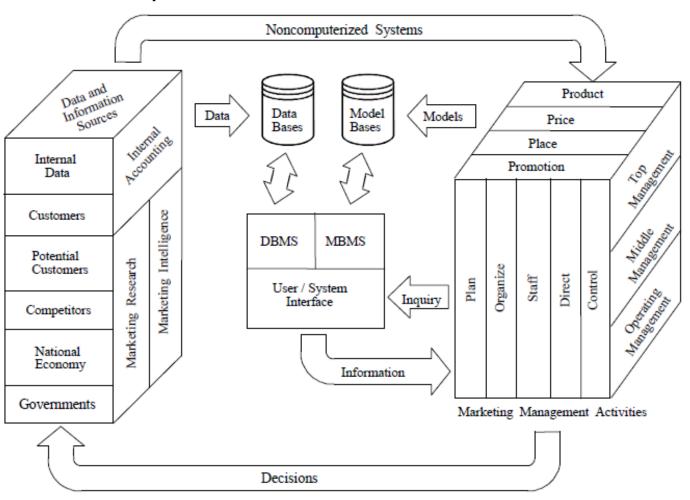


The MkIS Brandaid model (4P)



The MkIS in empirical research:

Marketing Information Systems in the Top U.S. Companies: A Longitudinal Analysis



ASSIGNMENT 3

By using template for marketing planning (Marketing Plan Pro 6), make design for the MkIS of the enterprise

The sample enterprise- your own idea or your enterprise developed by CESIM simulation