Curs 6- Management Logistic

•Planificarea Lantului de Aprovizionare I: Strategii de logistica, Implementari Strategii,

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7 nov 2019

Tipuri de strategii

- Misiunea organizatiei obiectivele generale ale organizației directia de bussiness)
- Strategie de corporatie-modul în care o societate diversificata isi va îndeplini misiunea; (ex <u>http://www.kpn.com/v2/static/annualreport/kpn/english/strategy-2011-</u> <u>2015.html</u>). Aceasta afecteaza organizatia ca intreg.
- Strategie de bussiness modul in care fiecare afacere contribuie la strategia corporativa;(pret, marketing, eficienta de productie-> scop: castigarea avantajelor competitionale pe piata)
- * Strategie functionala directia strategica pentru fiecare functie din cadrul orgabizatiei, inlusiv functia logistica (cum contribuie lantul de aprovizionare la atingerea obiectivelor de bussiness)
 - × Exemplu: strategia de bussiness- 1. reducerea costurilor unui produs- logistica: reducerea costurilor pe transport (ex. RyanAir) 2. livrare rapida produs, logistica: reducerea timpului per lant aprovizionare (ex. UPS)

Exemple:

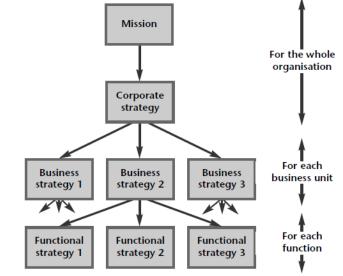
Misiune Mercia Software: Mercia's mission is to provide customers with optimum value business solutions in demand and supply chain planning

http://www.mercia-group.co.uk/software/cis.htm

Roadway express

We will contribute to customer success and satisfaction by providing reliable, responsive, and efficient service. Our principal product will be less-than-load transportation on 2-day and longer lanes within North America, and on

international lanes to and from North America.



Exemple misiuni

Education

- "The advancement of all good literature, arts, and sciences; the advancement and education of youth in all manner of good literature, arts, and sciences; and all other necessary provisions that may conduce to the education of the ... youth of this country " from Harvard University
- "The mission of The Mica and Ahmet Ertegun Graduate Scholarship Programme in the Humanities shall be to fund and otherwise encourage graduate study in the humanities by Ertegun Graduate Scholars, a group of highly qualified students from throughout the world who: (i) have a plan to enlarge their knowledge; (ii) have the desire to extend their vision; and (iii) seek the opportunity to exchange their ideas." From Ertegunn Graduate Scholarship Program in the Humanities, Oxford University.
- "...Georgetown College is committed to the Jesuit traditions of an integrated education and of productive research in the liberal arts, including fine arts, humanities, languages, sciences, and social sciences. The College seeks to expand the imagination, foster the life of the spirit, cultivate lifelong learning, encourage service to God and humanity, and promote respect for diversity in an age of global community." From Georgetown University.
- "Penn State is a multicampus public research university that educates students from Pennsylvania, the nation and the world, and improves the well being and health of individuals and communities through integrated programs of teaching, research, and service... As Pennsylvania's land-grant university, we provide unparalleled access and public service to support the citizens of the Commonwealth. We engage in collaborative activities with industrial, educational, and agricultural partners here and abroad to generate, disseminate, integrate, and apply knowledge that is valuable to society." From Pennsylvania State University.
- "University of Phoenix provides access to higher education opportunities that enable students to develop knowledge and skills necessary to achieve their professional goals, improve the productivity of their organizations and provide leadership and service to their communities." From the University of Phoenix.
- "Columbia University is one of the world's most important centers of research and at the same time a distinctive and distinguished learning environment for undergraduates and graduate students in many scholarly and professional fields. The University recognizes the importance of its location in New York City and seeks to link its research and teaching to the vast resources of a great metropolis. It seeks to attract a diverse and international faculty and student body, to support research and teaching on global issues, and to create academic relationships with many countries and regions. It expects all areas of the university to advance knowledge and learning at the highest level and to convey the products of its efforts to the world." From Columbia University.

Corporations

- "Apple designs Macs, the best personal computers in the world, along with OS X, iLife, iWork and professional software. Apple leads the digital music revolution with its iPods and iTunes online store. Apple has reinvented the mobile phone with its revolutionary iPhone and App Store, and is defining the future of mobile media and computing devices with iPad" from Apple
- "Our vision is to be earth's most customer centric company; to build a place where people can come to find and discover anything they might want to buy online." from Amazon
- "To bring inspiration and innovation to every athlete in the world." from Nike
- "Our mission at McMath Woods P.A. is to provide each of our clients with the most effective ethical representation possible, and to preserve and promote the civil justice system" from a law firm, McMath Woods P.A.
- "Our Roadmap starts with our mission, which is enduring. It declares our purpose as a company and serves as the standard against which we weigh our actions and decisions.

To refresh the world...

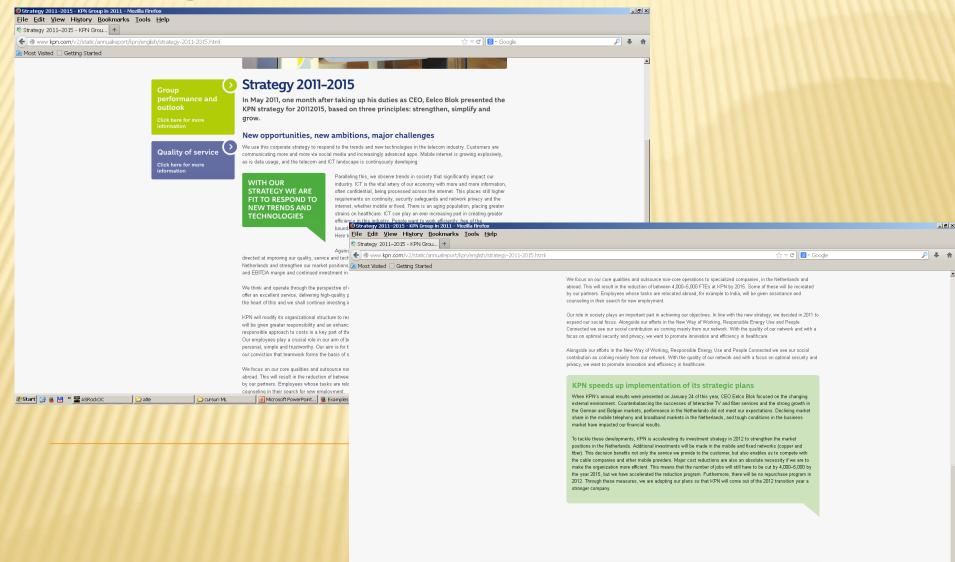
To inspire moments of optimism and happiness... To create value and make a difference." From the <u>Coca-Cola corporation</u>

"Our mission: to inspire and nurture the human spirit one person, one cup and one neighborhood at a time," From Starbucks

Personal

- "I plan to contribute to the graduate program by focusing my research on Oscar Wilde's literature and working closely with a professional in that field."
- "I plan to contribute to the volunteer organization by spending four hours each Saturday donating my time and by proposing new ideas to the organization's leaders."
- "I pledge to offer the highest quality of leadership, the greatest level of expertise, and tireless dedication to the cause if I am chosen for this position."
- "My goal is to lose 20 pounds over the next three months. I will take every effort necessary to ensure that I meet and, if possible, exceed my goal by making lifestyle changes like eating a healthy diet and exercising daily."
- "I will coach this team with integrity and honor. I will expect of my players no more and no less than I would expect from myself. I will dedicate myself to giving us the best possible chance of being winners whether we're on the field or off."
- "I will contribute positively to this community by cleaning up trash at the park, and by teaching others the importance of environmental care."
- Mission statements then can be for the largest of organizations and for the smallest. Groups such as non-profits and education providers can form mission statements to make their purposes clear. Individuals can write mission statements for college admissions essays or for job applications.
- Link/Cite

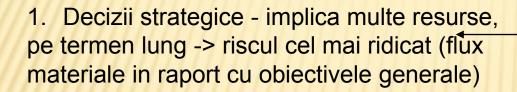
Strategia de corporatie



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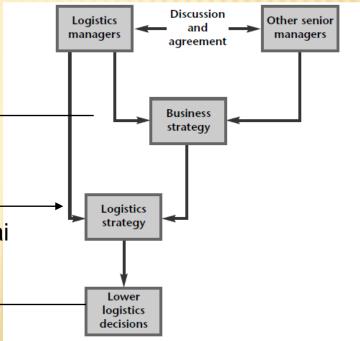
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Nivele decizionale



 Decizii tactice – implementarea strategiilor pe termen mediu, resurse mai putine si risc mai Mic -> strategii de livrare (arii de livrare)

3. Decizii operationale – cele mai detaliate, in privinta activitatilor -> termen scurt, risc mic



I. Strategia Logistica

- Toate deciziile strategice, legate de cultura companiei, si planificarea operatiilor, referitoare la lantul de aprovizionare

Acestea sunt orientate spre urmatoarele directii:

Costuri (profit mare la pret mic pentru clienti) – ex. Ryanair

Costuri totale= transport+depozitare+depozitare stocuri+ambalare+costuri flux informational+ alte costuri suplimentare

- Servicii clienti (timp livrare, stocuri, comunicare cu clientii-> avantai termen lung) 2.
- Sincronizarea timpului (timp de livrare mic) una din solutii ar fi concentrarea spre un punct de distributie
- Calitate
- Flexibilitate produs (custom describiton) -> Strategii de amanare a realizarii produsului finit (produs de baza care poate fi imbunatatit cu cerintele clientului - ex. Hewlett-Packard, Philips - echipamentele electronice - stocurile contin echipamentul de baza care conform cererii este adaptat paramétrilor functionali ceruti de client, Benetton – culori adaptate gustutilor clientului)
- Flexibilitate volum livrari raspuns rapid la volum variabil de cereri
- Tehnologie folosita (comenzi, urmarire comenzi, sortare electronica, identificare electronica, umarire miscare stocuri: reducere timpi andocare (ridicare pe suporti si incarcare marfa) – transport direct, automatizat la punctul de distributie managementul de materiale (inward flow) si distributie fizica efectiva (outward flow) etc.)
- Locatii convenabile (puncte de livrare cat mai apropiate de client) pentru livrari directe
- Aliante strategice (third tier logistics) initial dictate de Globalizare (o singura piata worldwide market) -> companii specializate pentru logistica (ex. Romtelecom – Gebruder Weiss) -> management cooperare/conflict interese
- Timp returnare investitie (return on assets- ROA) = profit obtinut/ investitia initiala
 - Investitii curente minime- stocuri mici, reducerea cheltuielilor pentru imprumuturi in unele situatii
 - Investitii/Costuri fixe = proprietati, echipamente, depozite de materiale si echipamente
 - Vanzari cota mare de piata prin producerea unor produse atractive si rapid de livrat
 - Margine de profit ca procent din profit [castig net/venit *100= (venit-costuri)/venit *100] Exemplu

Referinte bibliografice

- http://about.datamonitor.com/media/archives/4087
- European Contract Logistic- huge business- Germany is the biggest European market for logistics services (28%), × France (20%) and the UK (17%). Because each of the economies has developed differently, and because of the different logistics requirements, the use of third parties varies quite widely. In the UK almost 40% of logistics is contracted. These are continuing to grow at about 8% a year. The two main issues facing contract logistics are consolidation of logistics into fewer, large companies, and geographical expansion of these companies
- Firma telefonie din Olanda http://www.kpn.com/v2/static/annualreport/kpn/english/pdf/kpn-ar11-eng.pdf
- http://www.dbschenker.com/ho-en/about dbschenker new/db schenker logistics/

J. Mitchell currently has sales of £10 million a year, with a stock level of 25% of sales. Annual holding cost for the stock is 20% of value. Operating costs (excluding the cost of stocks) are £7.5 million a year and other assets are valued at £20 million. What is the current return on assets? How does this change it stock levels are reduced to 20% of sales? Solution

Taking costs over a year, the current position is:					
Cost of stock	=	amount of stock $ imes$ holding cost			
	=	10 million \times 0.25 \times 0.2	= £0.5 million a year		
Total costs	=	operating cost + cost of stock			
	=	7.5 million + 0.5 million	= £8 million a year		
Profit	=	sales – total costs			
	=	10 million – 8 million	= £2 million a year		
Total assets	=	other assets + stock			
	=	20 million + (10 million \times 0.25)	= £22.5 million		
Return on assets	=	profit / total assets			
	=	2 million / 22.5 million	= 0.089 or 8.9%		
The new position with stock reduced to 20% of sales has:					
Cost of stocks	=	10 million \times 0.2 \rightarrow 0.2	= £0.4 million year		
Total costs	=	7.5 million + 0.4 million	= £7.9 million a year		
Profit	=	10 million – 7.9 million	= £2.1 million a year		
Total assets	=	£20 million + (£10 million \times 0.20)	= £22 million		
Return on assets	=	2.1 million / 22 million	= 0.095 or 9.5%		

Reducing stocks gives lower operating costs, higher profit and a significant increase in ROA.

Optiuni strategice

- x cost leadership oferirea unor produse comparabile cu ale altor companii, la pret mai mic (ex EasyJet) -> LEAN LOGISTICS (cost mic)
- **product differentiation** crearea unor produse pe care clientul nu le poate achizitiona din alta parte (ex creare de marci proprii sau servicii de lux proprii - Execujet) – AGILE LOGISTICS (satisfactia client)

Lean

- x realizare operațiuni utilizând mai puțin din fiecare resursă oamenii, spatiu, stoc, echipamente, timp, etc.
- Se organizează flux eficient de materiale pentru eliminarea deşeurilor, realizarea in cel mai scurt timp a operatiunilor logistice cu stocurile minime şi la un cost total minim. (Toyota)

Principii

- valoare proiectarea unui produs care are valoare din perspectiva clientului
- valoarea fluxului operational (value stream) proiectarea optimizata a proceselor pentru realizarea produsului
- valoare flux materiale (value flow) managementul fluxului de materiale in lantul de aporvizionare
- Incarcare (*pull*) se vor realiza produse doar cand exista o cerere de piata/ de la client
- perfectionare continua (*aim of perfection*) continua perfectionare pentru realizarea operatiilor in mod perfect (looking for continuous improvements to get closer to the aim of perfect operations.)

Eliminare pierderi

- legate de calitate prea slaba pentru a satisface cerintele clientilor
- capacitate de productie neadecvata nivel de productie care nu e necesar in conditiile unei cerinte curente scazute de piata.
- proces operational slab operatii care nu sunt necesare, prea complicate sau consumatoare de timp (cand nu exista tehnologie adecvata, amplasare neadecvata a depozitelor etc.)
- asteptari prea multe (*Waiting*) for operations to start or finish, for materials to arrive, for equipment to be repaired, and so on.
- manevre operationale (*Movement*) with products making unnecessary, long, or inconvenient movements during operations.
- stocuri nivel stocuri mare, care presupun costuri crescute

Concluzie: Sistemul functioneaza in conditiile unei productii de masa a unor produse de valoare mare (ex. Masini) NU functioneaza in conditii de incertitudine sau unde exista variabile prea multe!

Agile

- * Serviciu Clienti de inalta calitate adaptat cererii, pentru a raspunde rapid la cererile dinamice ale clientilor (circumstante diferite, particulare)
- orientare pentru a satisface cerintele clientilor
- permite clientilor accesul usor si rapid al oragizatiei
- a gasi exact ceea ce au ei nevoie
- proiecatrea logisticii in conformitate cu aceste cerinte
- flexibilitate si raspuns rapid la modificarile cerintelor clientilor
- obtinerea reputatiei in ce priveste calitatea si valoarea serviciilor
- se asigura deca clientul este satisfacut dupa vanzarea si utilizarea produsului
- studiu permanent al pietii pentru a intra in contact cu noi clienti, potentiali clienti, studiu concurentei etc.

Observatii: orientat pe client (fara care nu exista venit, profit sau afacere)

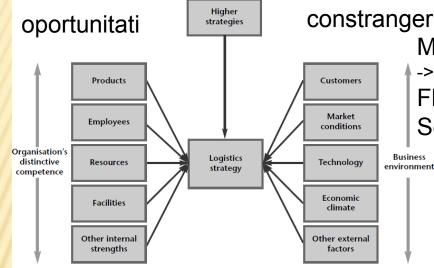
Comparatie Lean-Agile

Factor	Lean logistics	Agile logistics
Objective	Efficient operations	Flexibility to meet demands
Method	Remove all waste	Customer satisfaction
Constraint	Customer service	Cost
Rate of change	Long-term stability	Fast reaction to changing circumstances
Measures of performance	Productivity, utilisation	Lead time, service level
Work	Uniform, standardised	Variable, more local control
Control	Formal planning cycles	Less structured by empowered staff

Alte strategii

- × De timp
- × 1. simplification realizarea simpla a operatiilor
- × 2. *integration* imbunatatirea fluxului de informatii si a materialelor
- × 3. standardisation
- * 4. concurrent operations moving away from serial operations and towards parallel working
- **5**. *variance control* verificarea calitatii si evitarea pierderilor
- × 6. automation imbunatatirea eficientei si eficacitatii procesului de productie
- × 7. *resource planning* pentru evitarea blocajelor si asigurarea unui flux continuu, lin (fara variatii), al materialelor
- De protectie a mediului Presiunea factorilor de mediu se refera la pierderi prin deseuri si ambalaje (25%), zgomot si poluare (23%), transport greu HGV - Heavy Goods Vehicle (15%), carburantul folosit (12%) si congestia rutelor de transport (11%).
- De crestere a productivitatii (la o incarcare de ex de 40% a capacitatii (an office or warehouse might rent out space, while a vehicle fleet might carry materials for other organisations.)
- × De valoare adaugata (pe langa livrare masina de spalat, (doing more work such as installing the
- machines, testing them, giving instructions on their use, removing old machines, offering service contracts, and so on)
- * De diversificare (gama larga de produse/servicii) si specializare (gama ingusta la cea mai buna calitate)
- De crestere extinderea ariei geografice acoperite, diversificarea în activități logistice, transportul a diferite tipuri de materiale, creșterea cotei de piață.

Cum se analizeaza o strategie



- customers their demands, loyalty, × relationships
- employees skills, expertise, loyalty ×
 - finances capital, datorii flux numerar
- organisation structure, relationships, x flexibility
- products quality, reputation, innovations ×
- facilities capacitate, varsta, grad × incredere
- technology currently used, plans, special types
- processes structures, technology used, × flexibility
- marketing experience, reputation ×
- suppliers service, flexibility, partnerships ×
- other assets knowledge, innovation, × patents.

constrangeri

Misiunea logistica: - in functie de obiective si conte ->directie si prioritati Flexibilitate sau cost? Servicii specializate sau diversificate?

Mediul de afaceri (bussiness environment)

- customers their expectations, attitudes, × demographics
- market conditions size, location, stability ×
 - technology current availability, likely developments, rate of innovation

x

- economic climate -produs intern brut, × rata de crestere, inflatia
- legal restraints restrictiile comerciale, × răspunderile și legile ocupării forței de muncă
- competitors number, ease of entry to × the market, strengths
- actionari(shareholders) their target × return on investments, objectives, profit needed
- interest groups their objectives, × strengths, amount of support
- social conditions customers' lifestyles, X changing demands, significant trends
- political conditions stability, amount of x governmental control, external relations.

Pasi de implementare

- * 1. Do a logistics audit (SWOT: strength/weakness/Opportunities/Threats). The external audit gives an analysis of the business environment in which logistics work. It shows the factors that lead to success in this environment, and the importance of each one.
- 2. The internal audit analyses higher strategies from a logistics viewpoint, giving the context

and overall aims for logistics, its strategic focus and perhaps includes a logistics mission.

 3. Design the general features of supply chains that can best deliver the desired services. This

includes the design of the network, location of facilities, capacity, technology used, and so on.

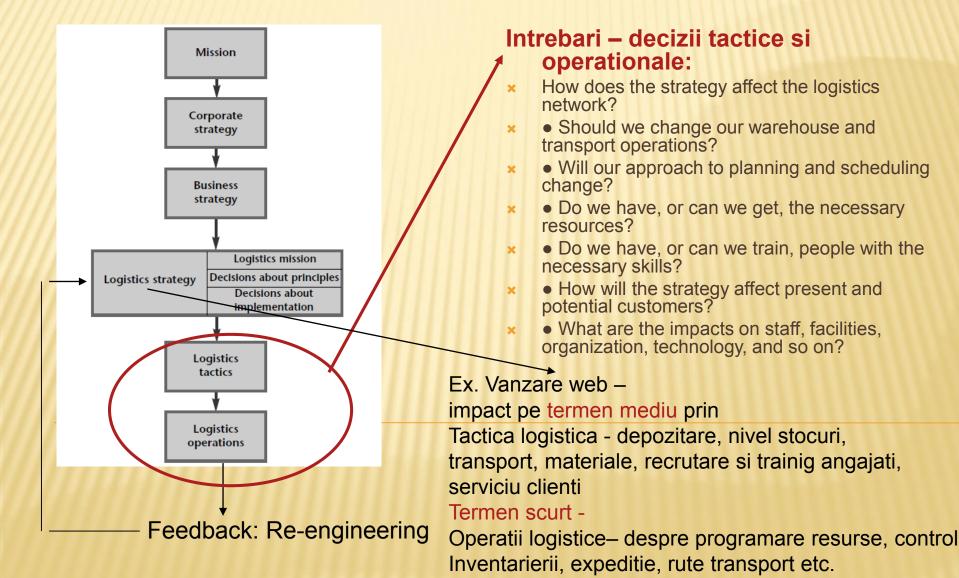
- A. Set specific goals to show what each logistics activity must achieve. The internal audit shows how well the current logistics achieve these goals, and identifies areas that need improving.
- 5. Design the best organizational structure, controls and systems to support the logistics network.
- 8. Benchmark logistics, looking at the performance of leading organizations, defining measures to compare actual performance with planned, optimal and competitors' performances.
- × 7. Implement the strategy, setting the conditions for lower levels of logistics decisions.
- * 8. Monitor actual performance, continually look for improvements, keep the strategies up to date, and give feedback.
 - R.E. Murray, Strategic distribution planning, Proceeding of the Eighteen Annual Conference of the National Council of Logistic Management (1980)

Plan logistic

Dictat de objective, cerere de piata, analiza logisticii actuale (puncte slabe), realizare de benchmark-uri, ajustare si supervizare implementare, feedback

- rezumat care se refera la strategia de logistica si cum interactioneaza aceasta cu alte sectoare ale organizatiei
- rolul logisticii in organizatie ce performante sunt necesare si cum sunt ele masurate
- descrierea logisticii pentru atingerea obiectivelor ce masuri pentru schimbare sunt necesarte si cum vor fi ele implementate
- descrierea functiilor logistice (aprovizionare, transport, inventariere, manipularea materialelor si depozitare etc.) care vor contribui la noul plan logistic, la schimbarile propuse si modul in care sunt integrate operatiile corelate cu acezste functii logistice
- propunerea resurselor de implementare a strategiei
- propunerea de costuri si nivele de performanta
- descrierea modului in care noua strategie afecteaza restul modelului de afaceri, in termeni de performanta (ex. Cost, timp, profit) si nivel de satisfacere a cererii clientilor (ex. Feedback asteptat)

II. Implementarea strategiei



Dificultati

- people who design the strategies are not responsible for their implementation
- strategies are badly designed, perhaps with the wrong aims or focus
- it is impossible, or very difficult, to implement them properly
- they do not take enough account of actual operations, perhaps because there were not broad enough discussions
- they are over-ambitious, or somehow not realistic
- they ignore key factors, or emphasize the wrong features
- people only pay lip-service to supporting the strategies
- enthusiasm for the strategies declines over time.

Factori care favorizeaza implementarea strategiei

- an organizational structure that is flexible and allows innovation
- formal procedures for translating the strategy into reasonable decisions at lower levels
- effective systems to distribute information and support management decisions
- open communications which encourage the free exchange of ideas
- acceptance that strategies are not fixed, but continue to evolve over time
- control systems to monitor progress
- convincing everyone that the strategy is beneficial, so they conscientiously play their part in implementation
- developing an organizational culture that supports the strategy.

Structura lantului de aprovizionare

- × Supply chain length
- Supply chain breadth numar de rute paralele ce pot fi urmate ptr achizitie/pana la destinatie
- Strategii de Localizare (locatii) retea si planificare rute
- × Proprietati si inchirieri (ownership and outsourcing)
- × Eficienta operatiunilor
- × Capacitate
- × Managementul (Rata) schimbarilor
- × Re-engineering

Exemplu: distributie pantofi

