Low level models: organization



© Maurizio Morisio, Marco Torchiano, 2012





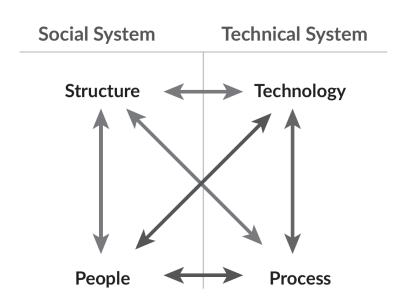




Low level models

Structure

- People
- Process
 - Process
 - Data
- Technology



Organizations

- Organization
 - Group of people gathered for a common purpose
 - Command and control structure that manages operational processes
- Organizational unit (OU)
 - Part of organization:
 - Division, office, department, group, business function, area, ..

Organizations and IS

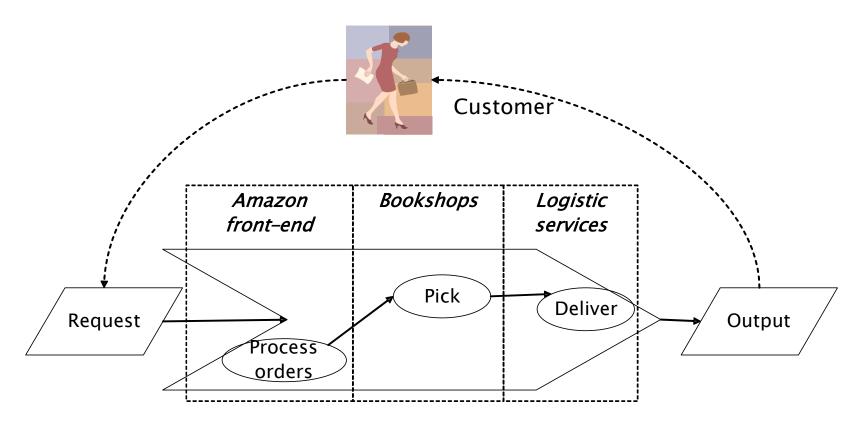
- Processes involving many organizations
 - Inter organizational
- Processes involving one organization
 - ◆ Intra

Inter organizational – model

- 1 List organizations involved
 - ◆ Ex: E-commerce
 - E-commerce vendor + product manufacturer+ credit card system + logistic provider

2 CRASO model

ISSUE: integration of IS of various organizations



Customer	Request	Activities performed (summa	(summar) ganizations involved	(Dutput (summary)
Private customer	Book order	Processorder, Order-picking, Book-delivery	Front-end, Bookshop, Logistic services	Delivery of books

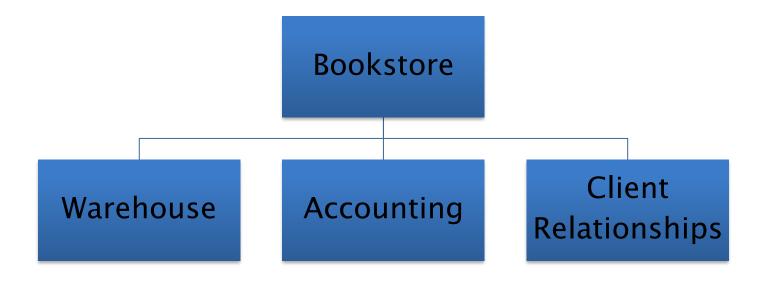
Intra organizational models

- Organizational chart
 - Macro level
 - Micro level
- Linear Responsibility Chart (LRC)
- Swimlane (in activity diagrams UML, in BPMN)

ISSUE understand interactions and needs of different OUs

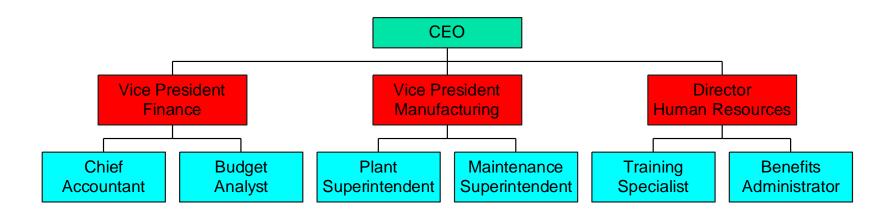
Organizational chart - ou

- Node = OU
- Line = composed of (cfr UML class diagram, aggregation)



Organizational chart - roles

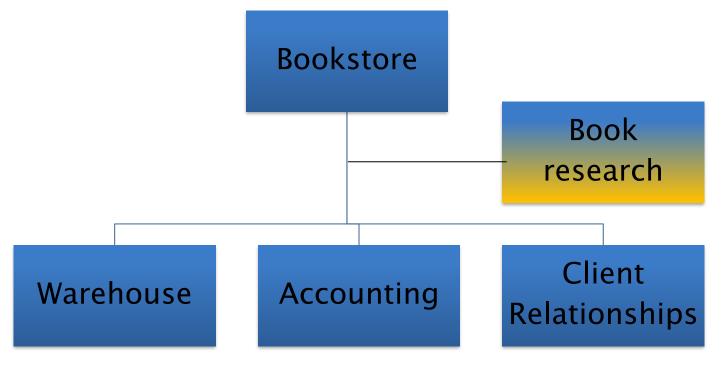
- node = role
- Line =
 - Top down: commands, controls
 - Bottom up: reports achievements



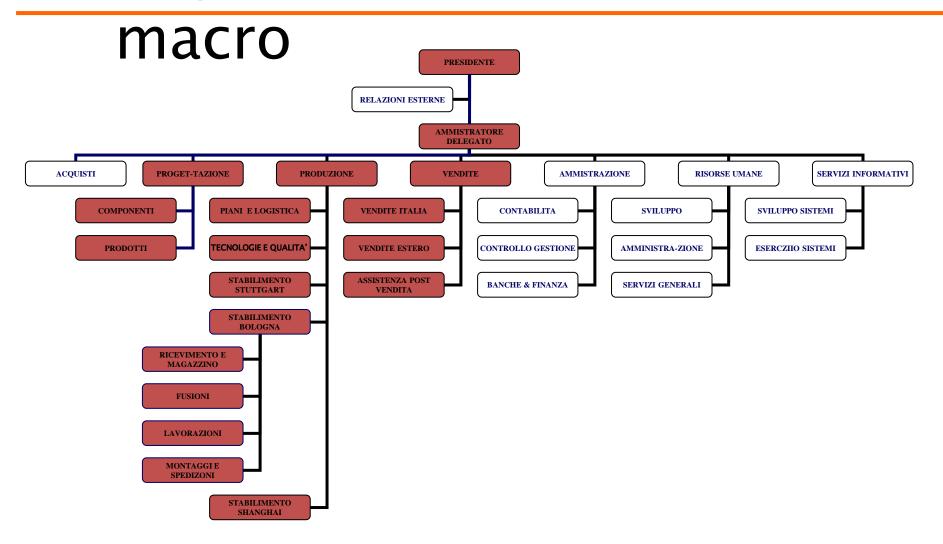
Org chart - line vs staff

Staff OU: works to support the upper OU ex book research is a staff function

ex book research is a staff function working for bookstore



Organizational chart -



Organisational chart – micro

RICEVIMENTO E MAGAZZINOcaporeparto (1)

- Coordinamento con Direzione Stabilimento
 - Ottimizzazione layout magazzino

RICEVIMENTO (1)

• Controllo e registrazione ingressi ed uscite

• Assistenza scarico camion

COLLAUDO MATERIALI (2)

- Collaudo materiali
- Documentazione collaudo
- Gestione scarti

CARRELLISTI (4)

- Carico a magazzino
 - Prelievo
- Trasporto ai reparti

- GESTIONE MAGAZZINO (2)
- Registrazione carichi, scarichi e prelievi
- Inventari di controllo

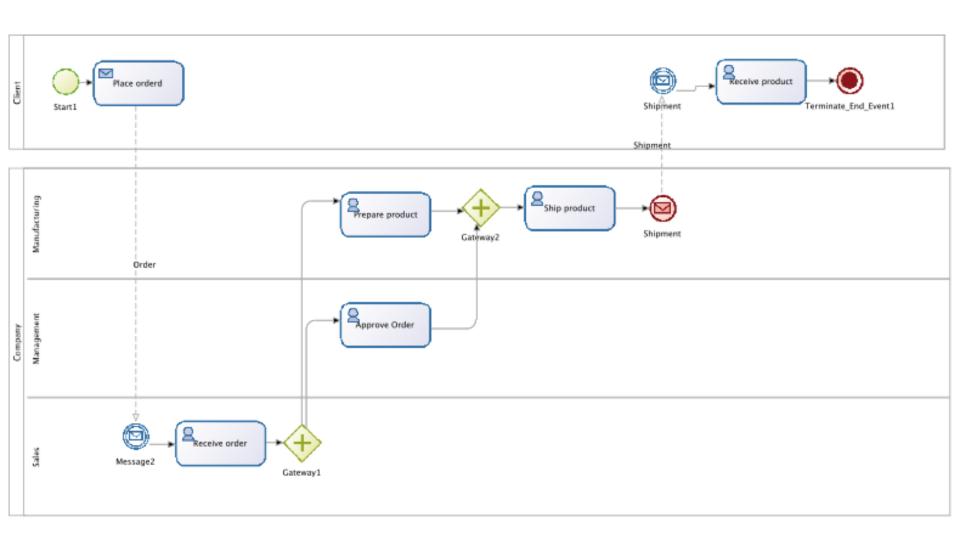
Org chart – warnings

- Shows vertical relations (command and control)
- does not show horizontal relations (collaborations, information sharing)
- Does not show all kind of social relations between individuals and groups

Linear Responsibility Chart (LRC)

	Organizational units						External Actors		
Processes (samples)	Purchase	Design	Production	Sales	Admin.	Human Resources	Information Systems	Supplier	Customer
Management Report Production	С	С	С	С	P	С	С		
Customer Order Processing			P	P					С
Procurement	P		P					Р	

BPMN: Pool - lane



Structure

 More on the topic in chapter 'Organizations', organizational variables