

Notplaner på Ericsson

Lars Taxén

Exempel, analys och koppling till praktikperspektivet

Lars Taxén, lars.taxen@telia.com

Processmodellering - 2004 (Astrakan)

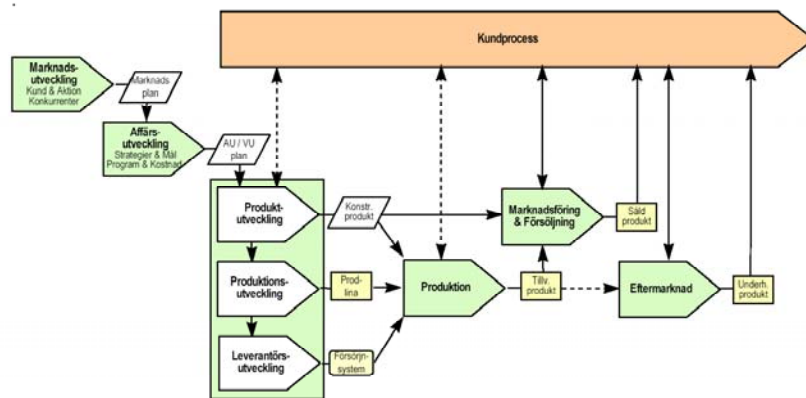
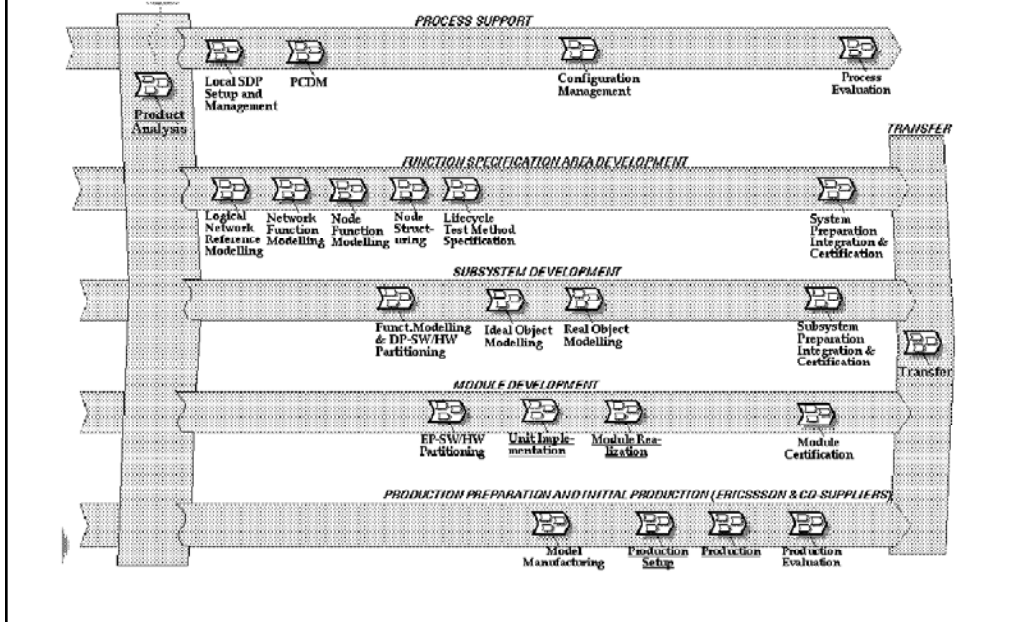


Fig: En förenklad övergripande processkarta

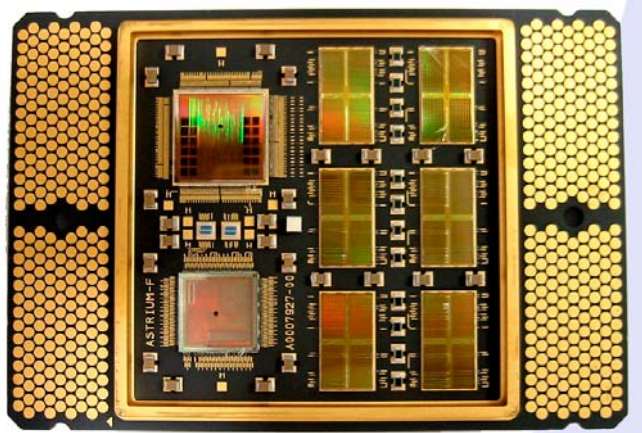
Nisson (2004) Metodhäfte processmodellering, sid 24

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Development process Ericsson - 1993

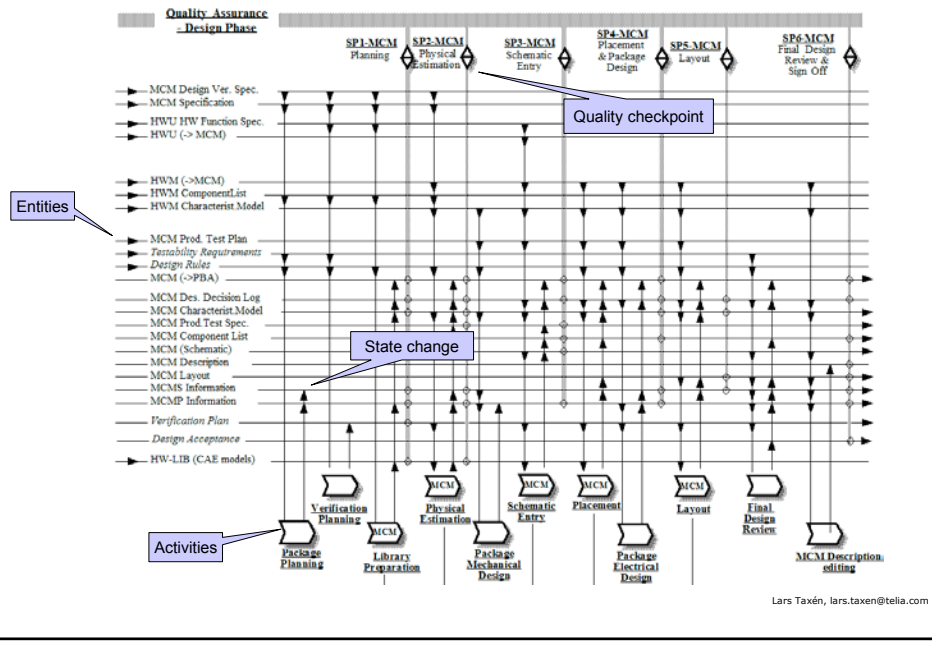


Designing a Multi-Chip Module

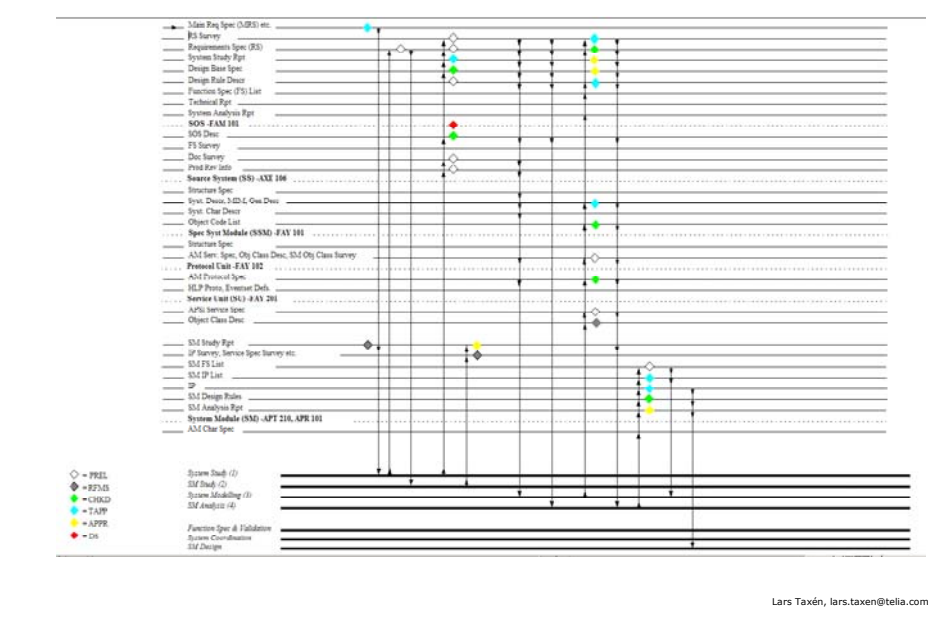


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Process component for MCM-design 1994



Sub-process Systems Study for AXE - 1996



Sub-process Block Design for AXE - 1998



ERICSSON Document by product	Input Doc.	Design of a Unit	Design of a Subunit	Realisation	Basic Test Planning	Basic Test Execution	Internal Delivery	Archive and Release	Output Doc.
Project Documents - SM Level									
Function Framework	▶ TAPP	▲	▲						
Trouble Report	▶	▲	▲						
CNT - Function Block									
Block Description	▶ PREL	▲	▲						
Function Specification	▶ APPR	▲	▲						
Function Description	▶ TAPP	▲	▲						
Signal Description	▶ CO	▲	▲						
Document Survey	▶ PREL	▲	▲						
Product Revision Information	▶ PREL	▲	▲						
CAA H0 / CAA n/H0 RP SW Unit									
Basic Test Instruction						▼ APPR	▼ APPR		DS4 DSI ▶
Basic Test Plan					▼ APPR				APPR ▶
Basic Test Object List					▼ APPR				APPR ▶
Basic Test Report							▼ PREL		APPR APPR ▶
Basic Test Error Report							▼ PREL		APPR APPR ▶
Amendment Directive					▼ TAPP				APPR APPR ▶
Product Revision Information					▼ APPR				APPR APPR ▶
Document Survey		▼ PREL	▼ PREL		▼ APPR				APPR APPR ▶
Test Document Survey					▼ APPR				APPR ▶
Container File Content				▼ APPR					APPR ▶
Unit Description		▼ APPR							APPR ▶
Signal Description		▼ PREL	▼ APPR						APPR ▶
Manufacturing Specification					▼ PREL				APPR APPR ▶
Processing Specification					▼ PREL				APPR APPR ▶
Signal Survey							▼ APPR		APPR ▶
Software Record					▼ PREL		▼ APPR		APPR ▶
Errata/record	▶ APPR						▼ APPR	▼ APPR	APPR ▶
Inspection record		▼ APPR					▼ APPR	▼ APPR	APPR ▶
Milekile									APPR ▶
Release request					▼ APPR				APPR ▶

Lars Taxén, lars.taxen@telia.com



Process Components

Medax AM Design, Core Processes
Navigator CAA 139 1268 R1A, generated by UI-Builder CAA 139 1265 R1A

Process Suite Information Flow Diagram

- System Study
- System Modelling
- System Coordination
- Function Specification
- System Module Design
- Subsystem Design
- Block Design
- CP SW Unit Design and Basic Test
- RP SW Unit Design and Basic Test

4 Process Components Included

Process Component Name	Process Component Definition Document Number	Rev	Comments
System Study	109 41-FCK 114 51 Uen	B	
System Modelling	109 41-FCK 114 53 Uen	B	
System Coordination	109 41-FCK 114 61 Uen	B	
Function Specification and Validation	109 41-FCK 114 62 Uen	B	
System Module Design	109 41-FCK 114 63 Uen	B	
Subsystem Design	109 41-FCK 114 17 Uen	B	
Block Design	109 41-FCK 114 21 Uen	B	
CP SW Unit Design and Basic Test	109 41-FCK 114 67 Uen	B	
RP SW Unit Design and Basic Test	109 41-FCK 114 27 Uen	C	

5 Definition of Document

SUPPORT PROCESSES: EXTERNAL LINKS: Help Adm Info

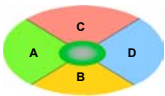
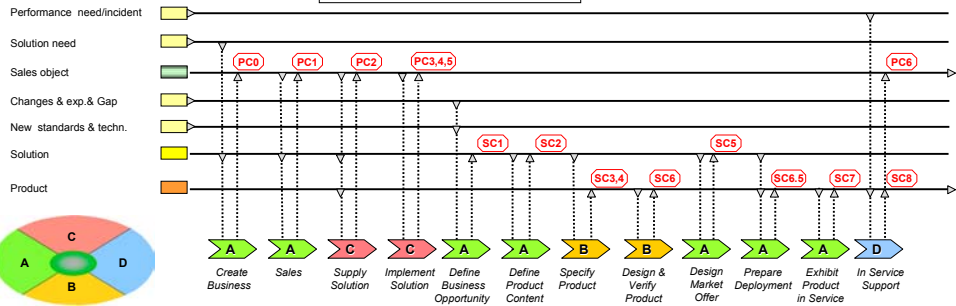
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Ericsson Business Process 2002



SC1: Market offer intent
 SC2: Product release intent
 SC3: Product model approval
 SC4: Design Implementation Decision
 SC5: Market offer
 SC6: Product quality approved
 SC6.5: Product ready for deployment
 SC7: Market release decision
 SC8: Full deployment acknowledged

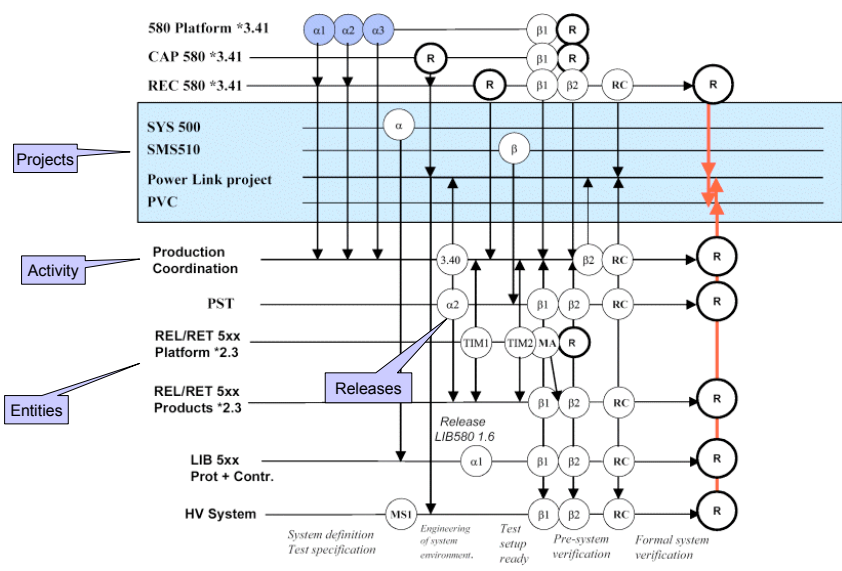
PC0: Offer requested
 PC1: Order / Contract
 PC2: Product arrived
 PC3: Ready for Acceptance
 PC4: Customer Acceptance
 PC5: Product in service
 PC6: Solution fulfillment



Activity domains
 A: Market & Sales
 B: Research & Development
 C: Supply
 D: In Service Support

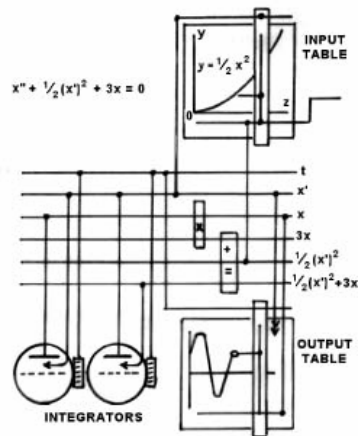
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Dependency diagram ABB



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Differential analyser



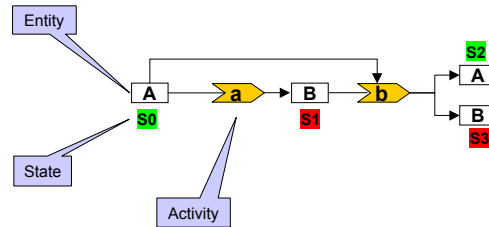
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Observations

- **Entity** (something which is manipulated)
- **State** (the condition of something at a particular time)
- **Activity** (action on entites)
- **Dependencies btw entities and activities**
- **Focus and context**

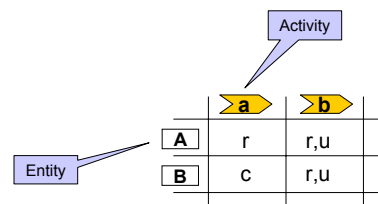
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Activity based process model



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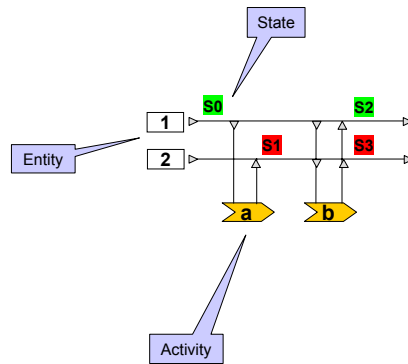
CRUD (Create, Read, Update, Delete)



(no states)

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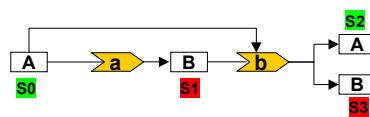
Information Flow Diagram (score plan)



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Semiotic expressiveness

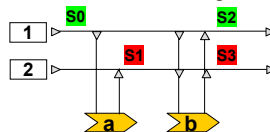
Activity based process model



CRUD

	a	b	
1	u	u,C	(no states)
2	c	u,C	

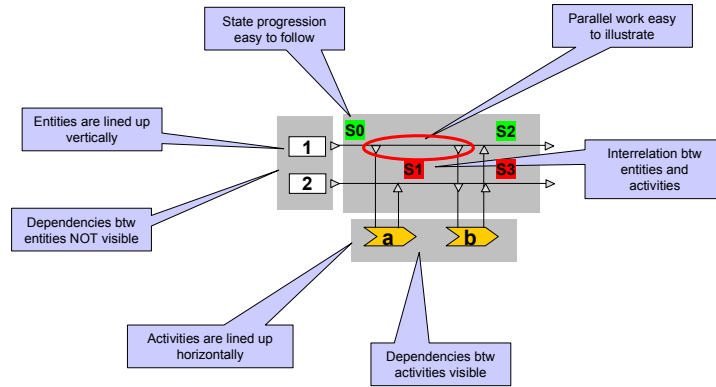
Information Flow Diagram



Which representation is easiest to agree upon?

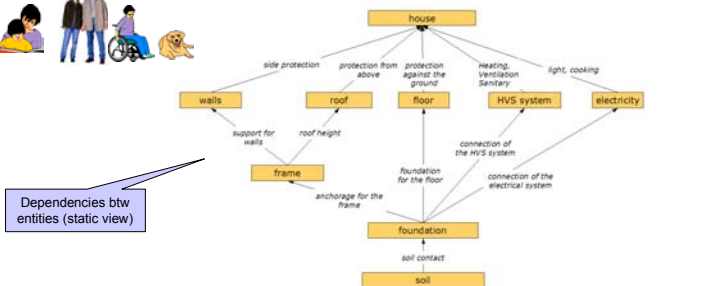
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Key points

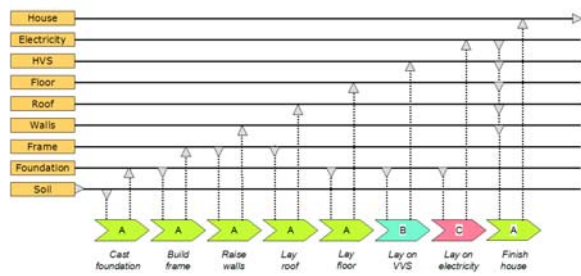


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Dependencies btw entities and activities



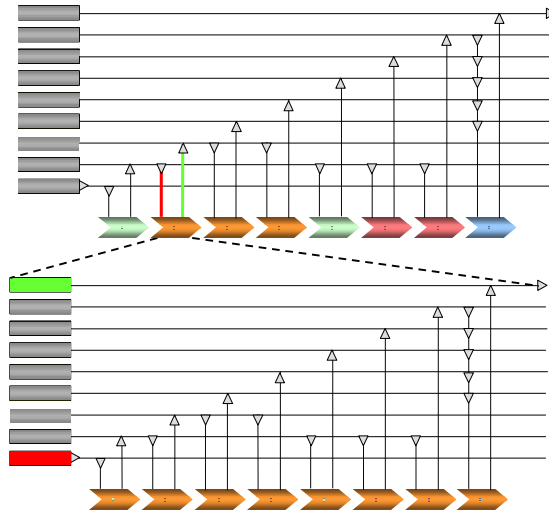
Dependencies btw entities (static view)



Dependencies btw activities (temporal view)

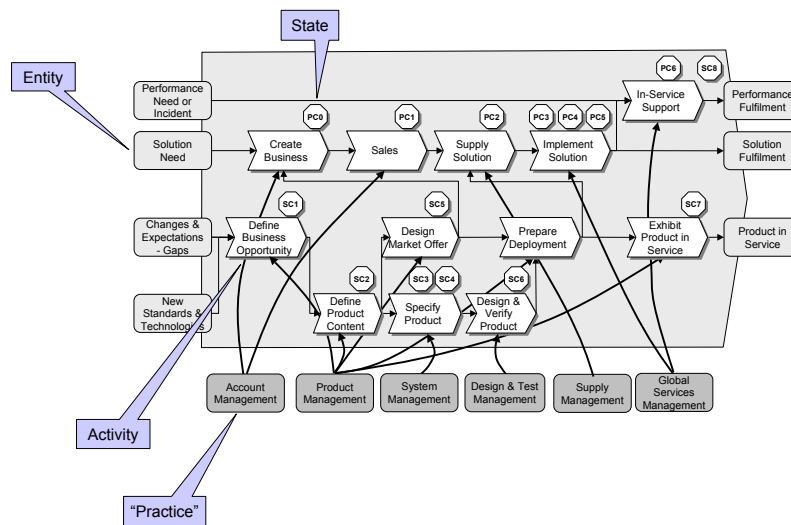
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Recursion



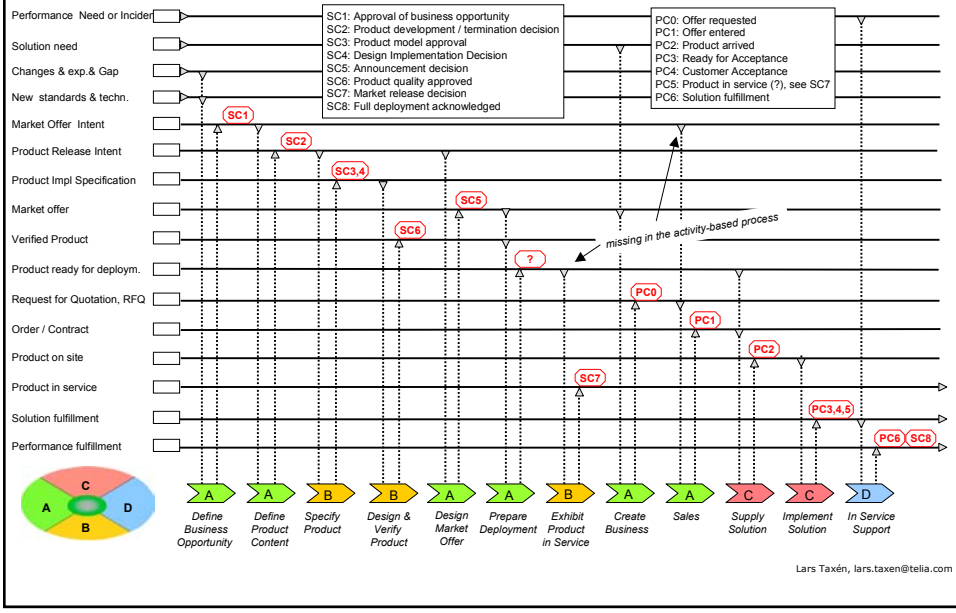
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Business process analysis - activity based

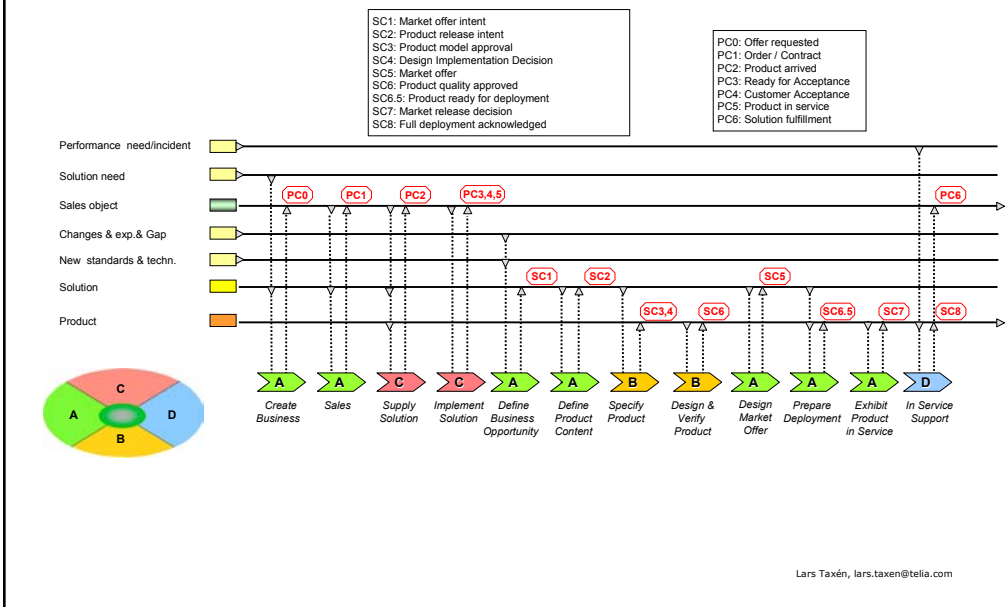


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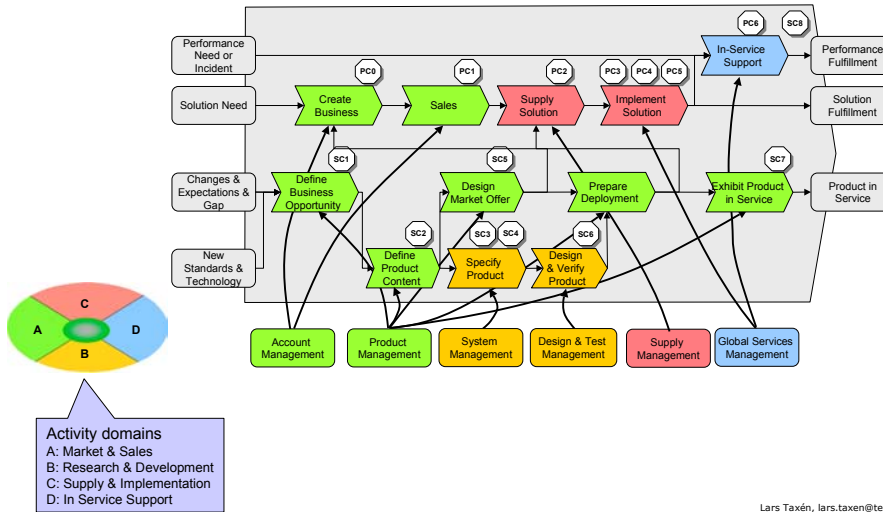
Business process analysis - score based, version 1



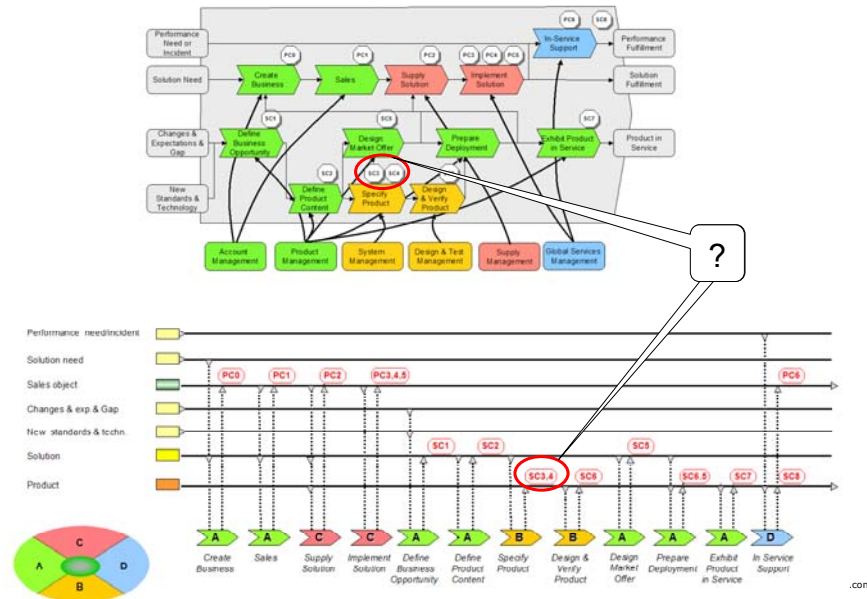
Business process analysis - score based, version 2



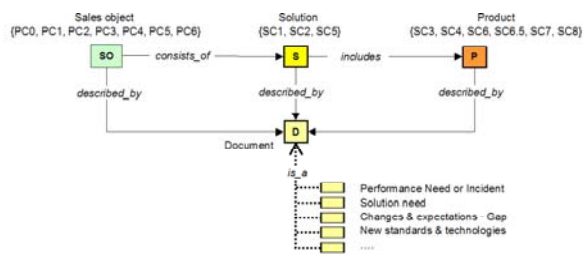
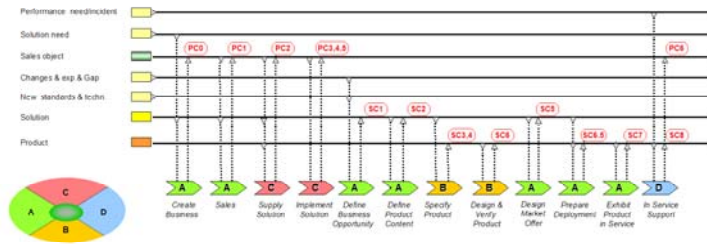
Business process analysis - activity based



Which model has the greatest analytical power?

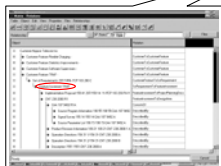
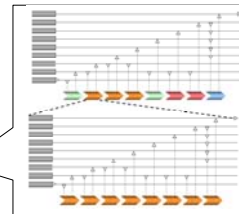
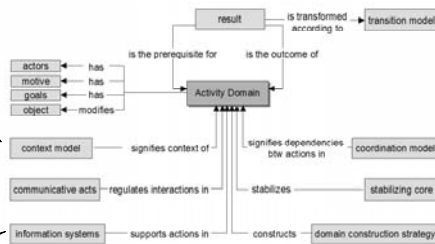
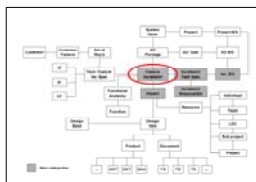


Dependencies btw temporal and static view



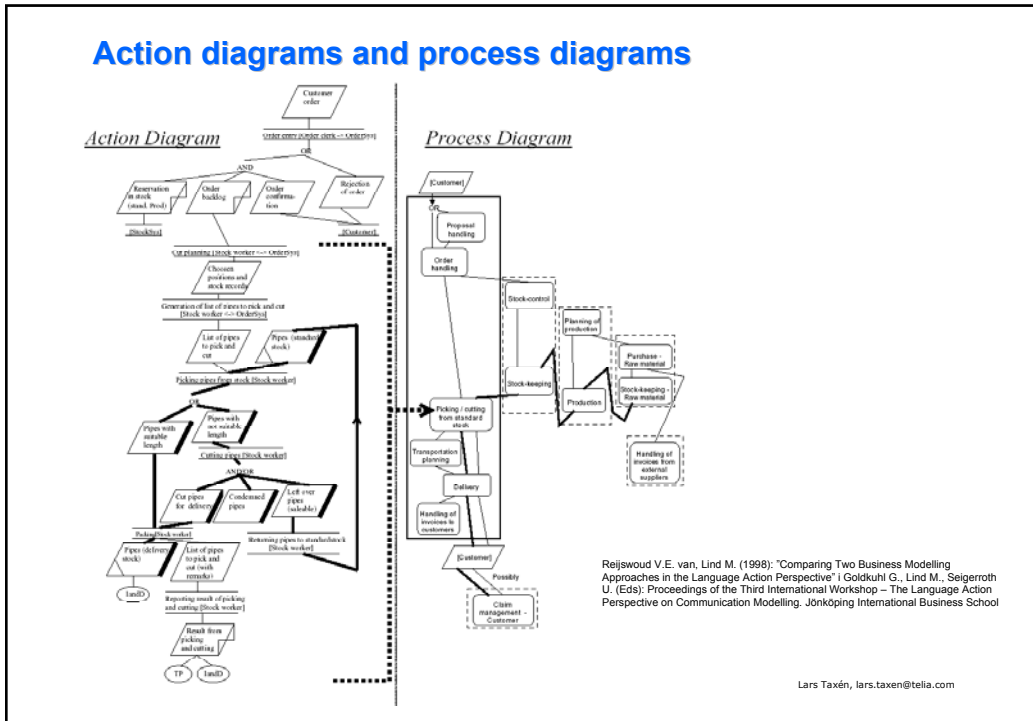
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Elements in the activity domain (practice)

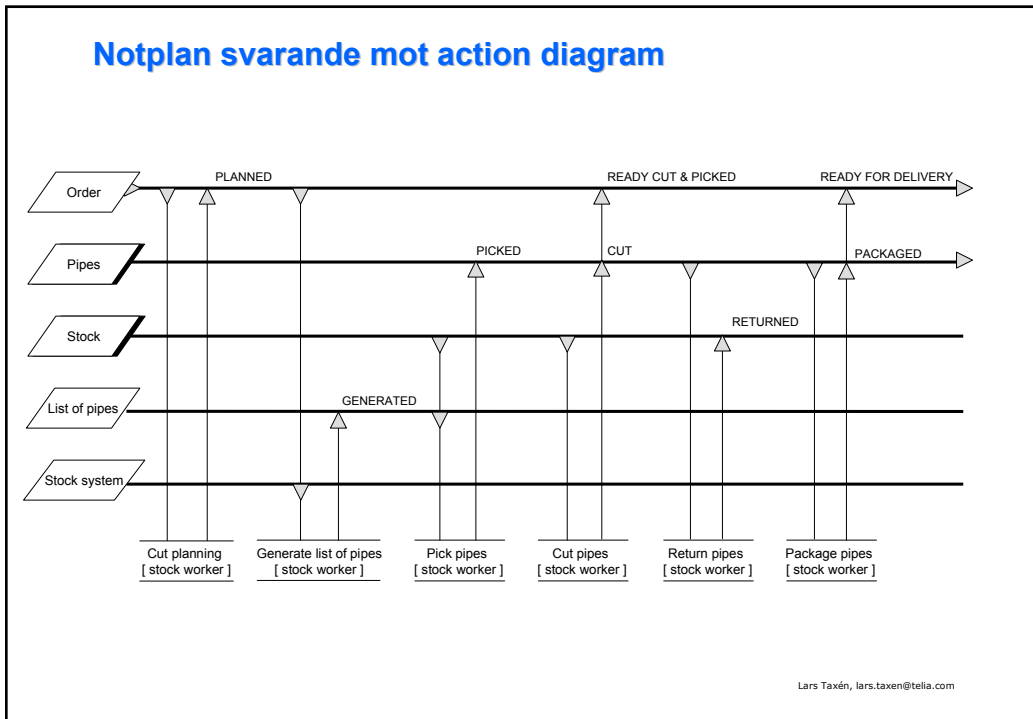


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Action diagrams and process diagrams

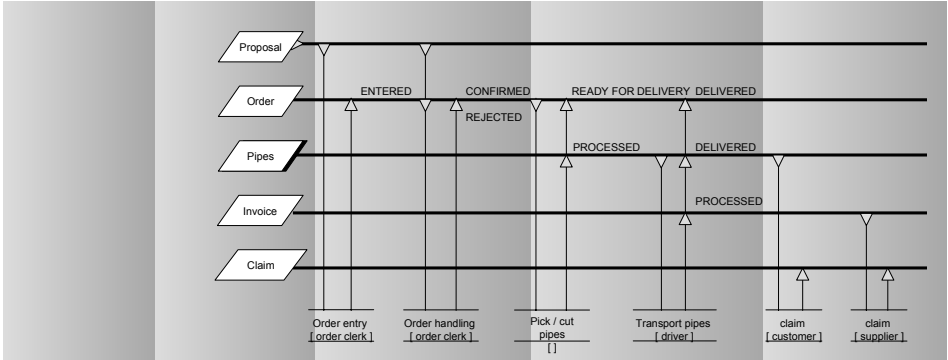


Notplan svarande mot action diagram



Notplan svarande mot procesdiagram

- 1. Business prerequisites
- 2. Exposure & contact search
3. Contact establ. & proposal
- 4. Contractual
- 5. Fulfilment
- 6. Completion



Lars Taxén, lars.taxen@teila.com