



Examination of the existing organizational structure of the IT Infrastructure and Operations Division of XYZ company, using Systemic Methodologies

Nikolaos Papageorgakis





Presentation Structure

- Introduction
- The XYZ company
- The IT Infrastructure & Operations Division (ITI&O)
- Existing State (ES) of ITI&O Division
- Design ES with DCSYM
- Proposed Enhancements (PE)
- Expected Benefits
- Design PE with DCSYM
- Design PE with VSMod
- Comparison between ES and PE





Introduction

- The purpose of this certification project is to examine the structure of the IT Infrastructure & Operations Division (ITI&O) of the XYZ company which is the system under consideration.
- Following describes the activities of the XYZ organization, its structure and the existing structure of the ITI&O Division.
- Graphics design were performed using DCSYM Case Tool.
- The problems that the existing structure presents are analyzed.
- Proposals for enhancement of the existing ITI&O Division structure as well as the communication channels are presented.
- The proposed organizational structure presented using DCSYM Case Tool and VSMod software's.





The company XYZ

- Provides services to financial institutions and businesses.
- It has a presence in over 30 countries worldwide employing more than 20,000 employees.
- To support its work, it has more than ten (10) data centers with corresponding IT support groups.
- Each business unit of the organization is managed independently with centralized guidance.





XYZs portfolio of services 1/2

- Solutions for Financial institutes :
 - Processing credit, debit and private label cards
 - Access Data services
 - Account support services
 - Back office services
 - Manage and support ATM and APC
- Solutions for Business:
 - Merchant acquiring / payment processing,
 - Electronic & Mobile commerce,
 - POS,
 - Business intelligence / analytics
 - Marketing and Loyalty programs





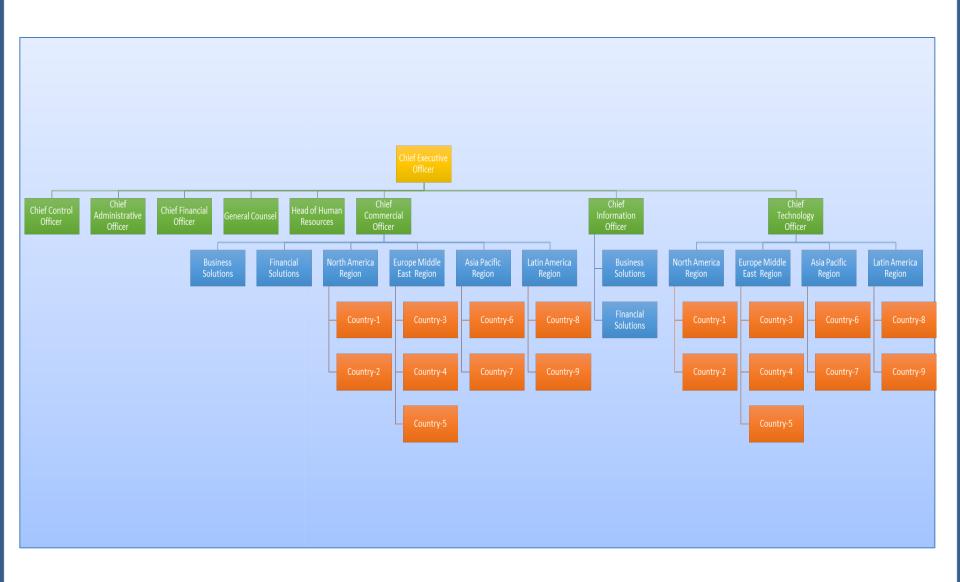
XYZs portfolio of services 2/2

- Network & Security Solutions:
 - EFT & SVC network solutions
 - Risk and Fraud management
- Contact Centre:
 - Inbound customer service
 - Outbound campaigns
 - Cross selling
 - Net promoter score
 - Customer satisfaction surveys
- Print and mail services
- Documents Digitization
- Card preparation and embossing





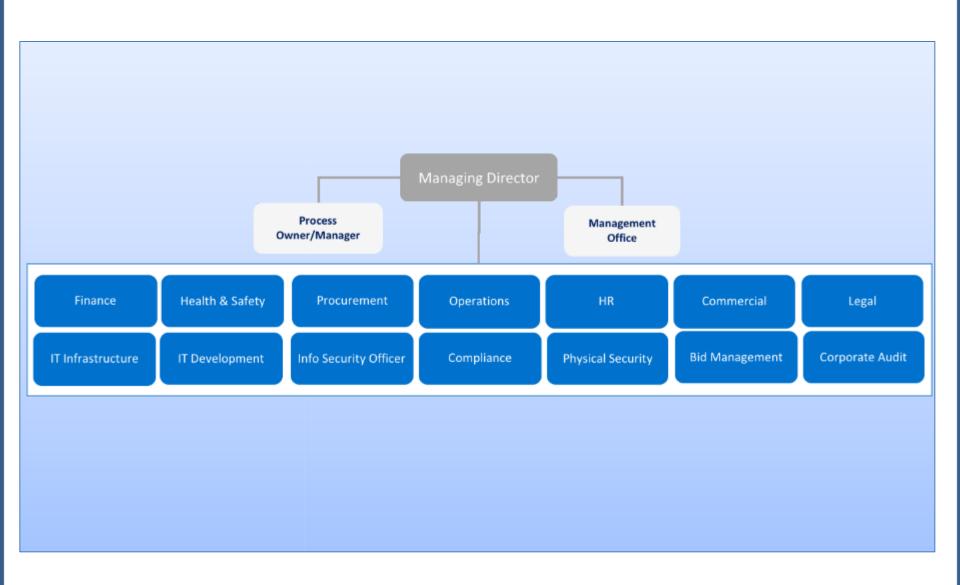
XYZs Organization Chart







Typical Organization Chart by country







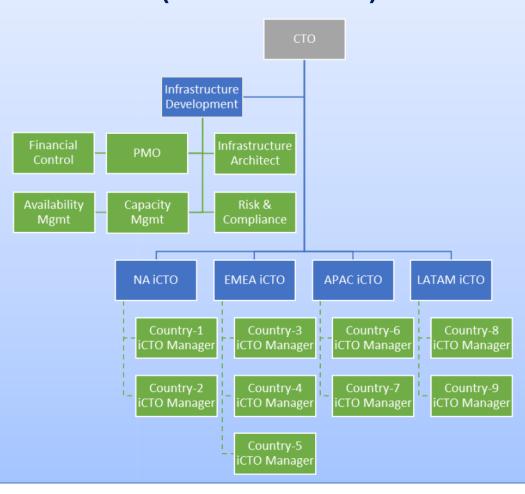
IT Infrastructure & Operations Division

- The main responsibilities of the IT Infrastructure & Operations Division are as follows:
 - Implementation and maintenance of data centers,
 - Installation of systems & applications,
 - Monitoring systems & applications,
 - Performing tasks,
 - User support,
 - Management of:
 - changes,
 - events,
 - incidents and problems,
 - Supporting business continuity,
 - Capacity planning for infrastructure.
- More than 2.000 FTEs.



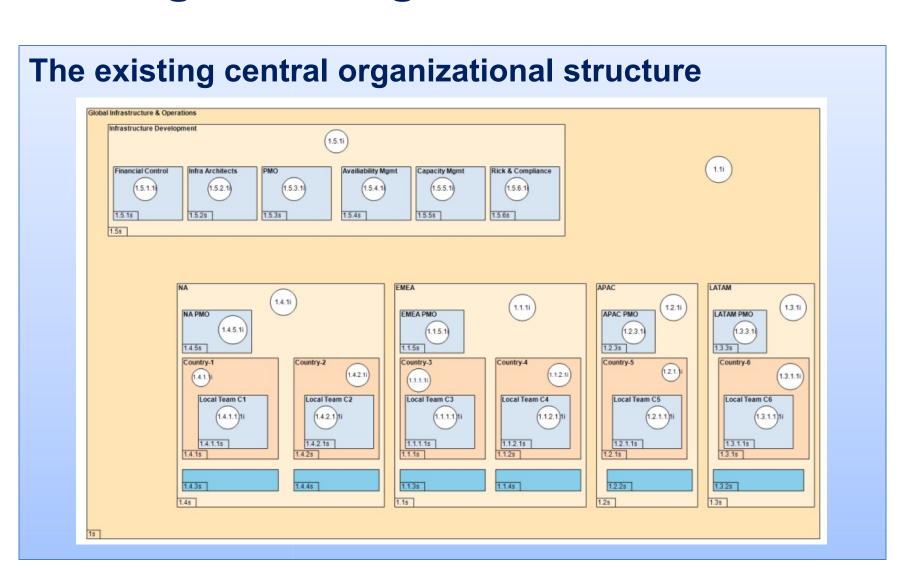
IT Infrastructure & Operations Division

Organization Chart (central ITI&O)



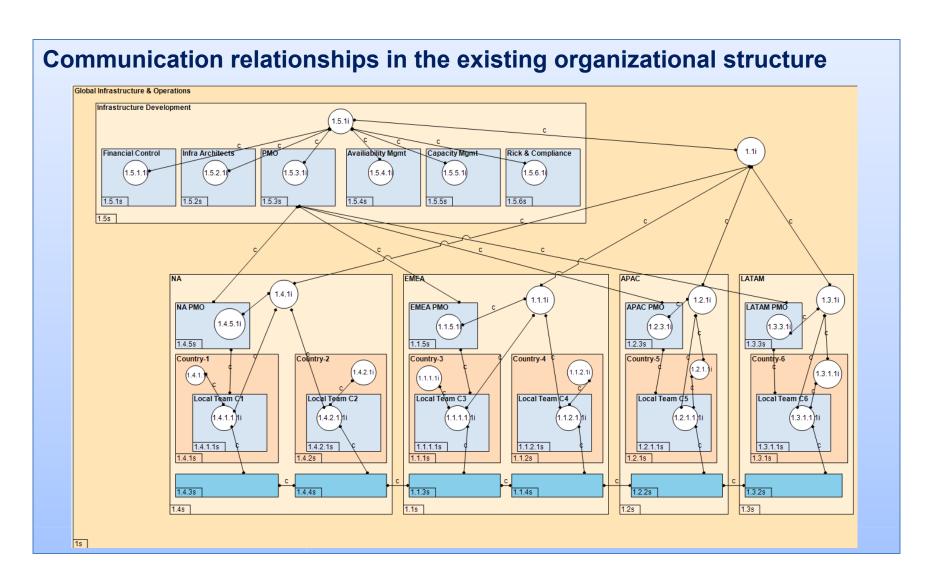






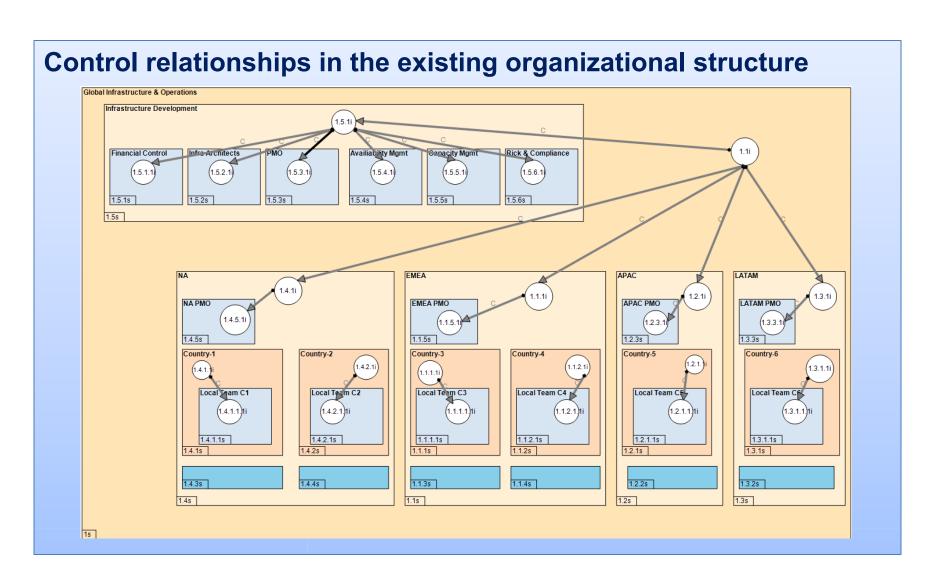








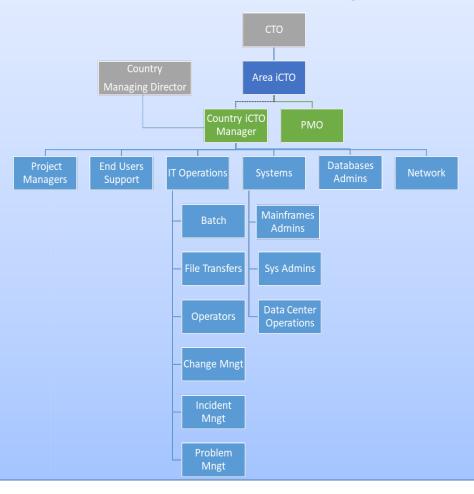






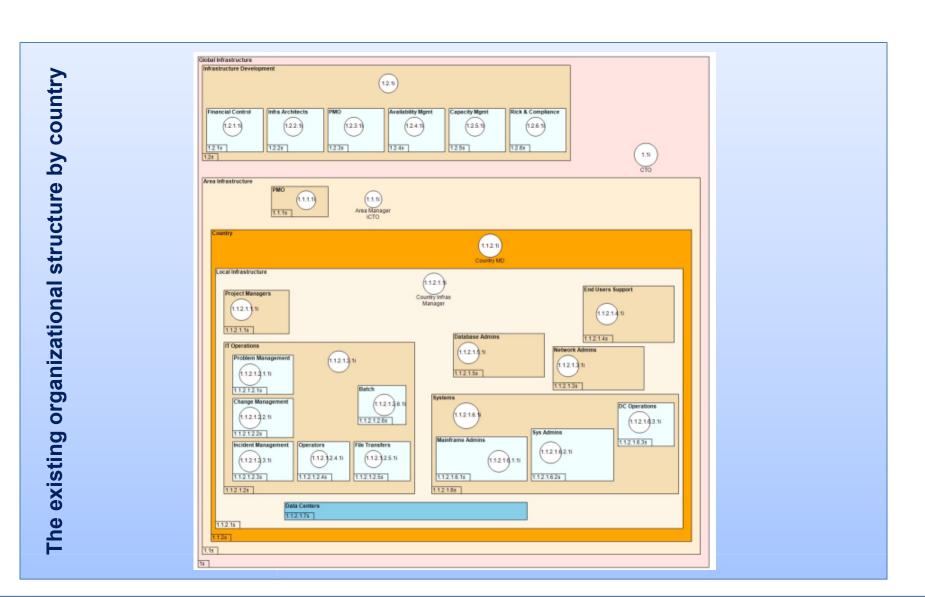
IT Infrastructure & Operations Division

Typical Organization Chart per country





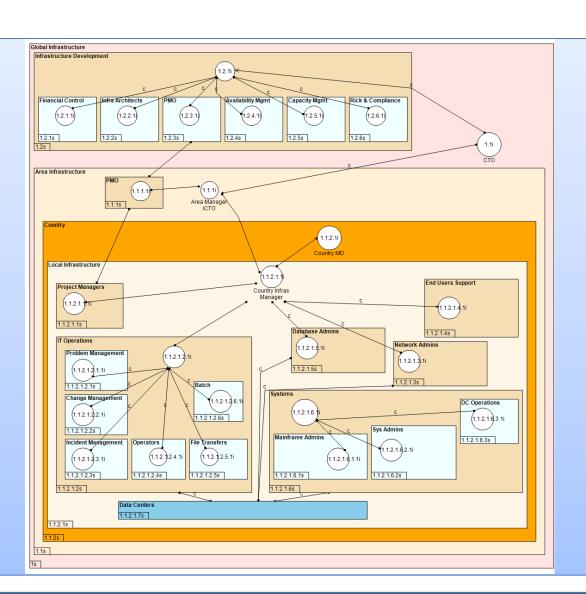








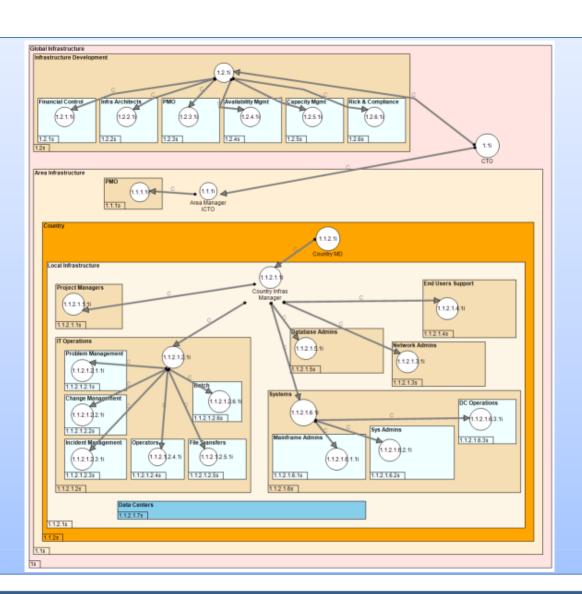
Communication relationships in the existing organizational structure by country





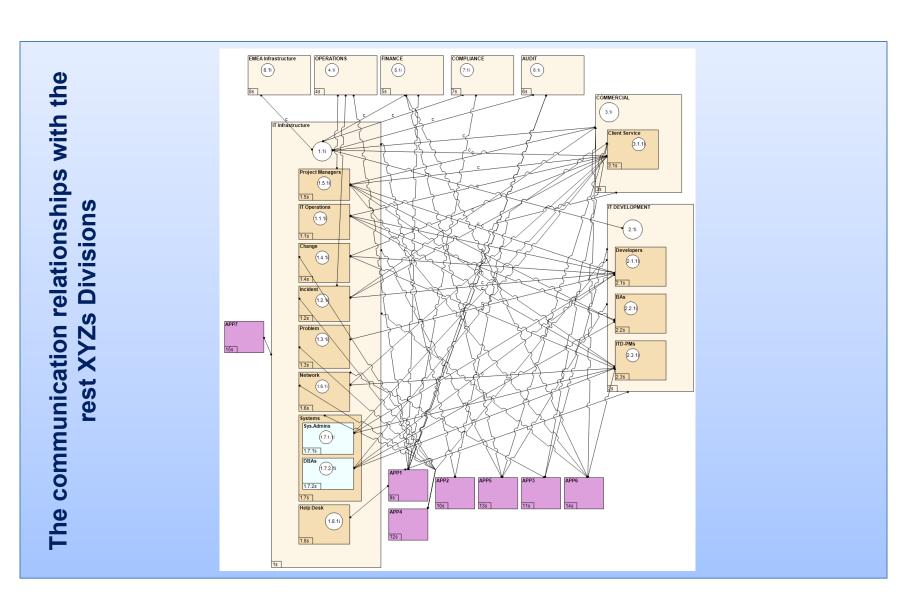


Control relationships in the existing organizational structure by country













Comments on the Current State

- With the existing organizational structure, the following difficulties are observed:
 - Adaptation and implementation of procedures required at Organization level,
 - It is not possible to exploit all available resources at Organization level,
 - The skills of the staff at the Organization level are not exploited resulting in increased costs through the use of external partners,
 - Communication between groups with the same task is minimal and as a result there is a lack of homogeneity in implementation,
 - Not all local considerations are taken into account when designing and implementing new solutions,
 - There is a slow response to new opportunities.





Proposed Improvements

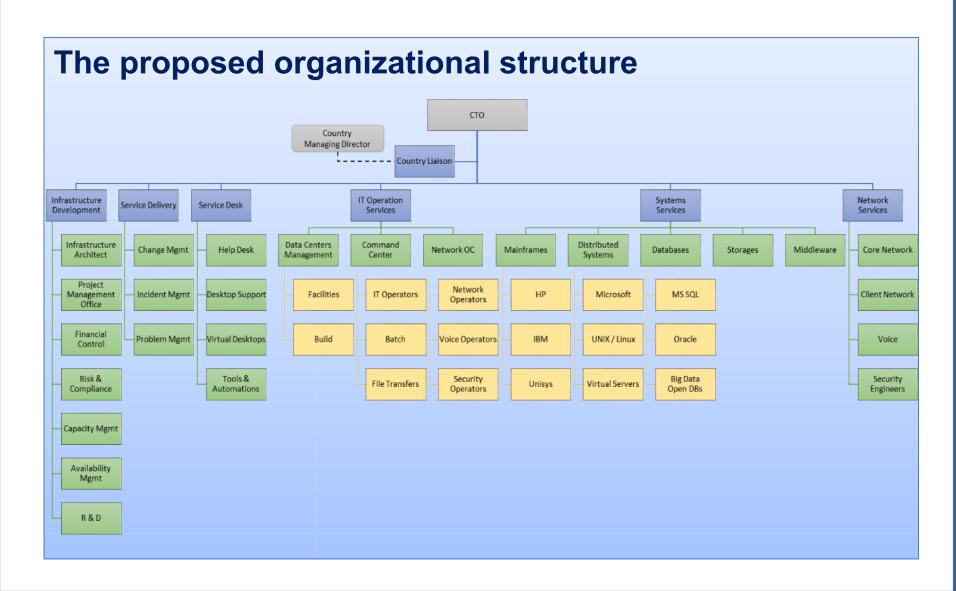
It is proposed to create a unified worldwide structure of the IT Infrastructure & Operations Division.

- The new structure will be:
 - horizontal in terms of countries.
 - vertically focused managing cross-disciplined technology with teams dedicated to product/platform delivery.
 - based on the Follow-the-Sun model.
- New role of Country Liaison
 - Direct report to CTO
 - Act as liaison between the business units, technology teams and ITI&O teams.
 - Translate high-level, complex business needs into functional and non-functional requirements.
- New Global Tool
 - Manage all requests/changes/projects/incidents etc.





Proposed Improvements 2/2







Expected Benefits

- Each product group has a dedicated senior leader with ownership, accountability and responsibility that is operationally focused on LOB.
- Vertically focused managing cross-disciplined technology teams dedicated to product/platform delivery.
- Eliminates resource contention between LOBs and provides clear transparency on workload bandwidth for projects and BAU.
- Drives capacity planning.
- Ensures alignment and deliverables for products and projects.
- Leads patching, engineering, and infrastructure compliance efforts.
- Provides dedicated architecture engineering support.





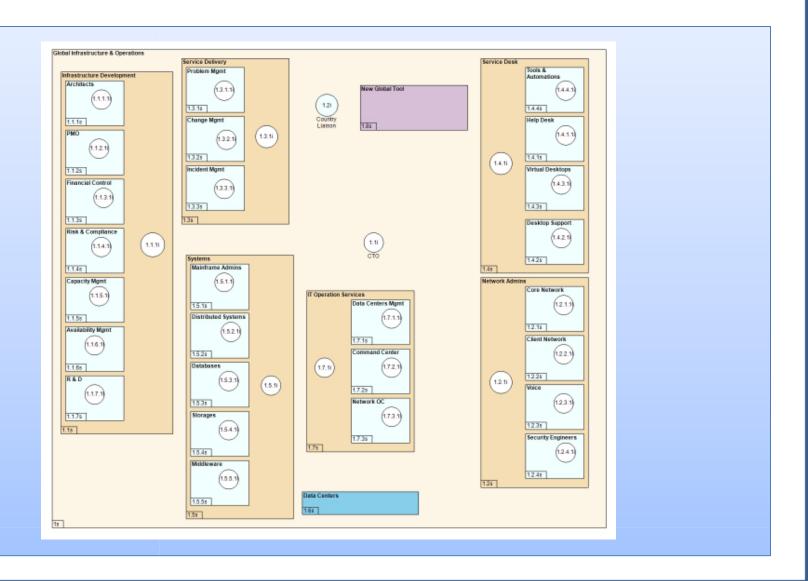
Expected Benefits 2/2

- Works hand and glove with development teams on new functionality and capabilities.
- Defines and executes product-specific operational strategy.
- Align to a single consistent support model that includes Application and Infrastructure resources.
- Minimizes prioritization challenges and provide the business with clarity on resources dedicated to supporting each Line of Business.
- Improve transparency of support work and costs to the Business and Product organizations.
- Increase Infrastructure resource knowledge of our Applications and Platforms.
- Increase Application Support resource knowledge of our technologies.



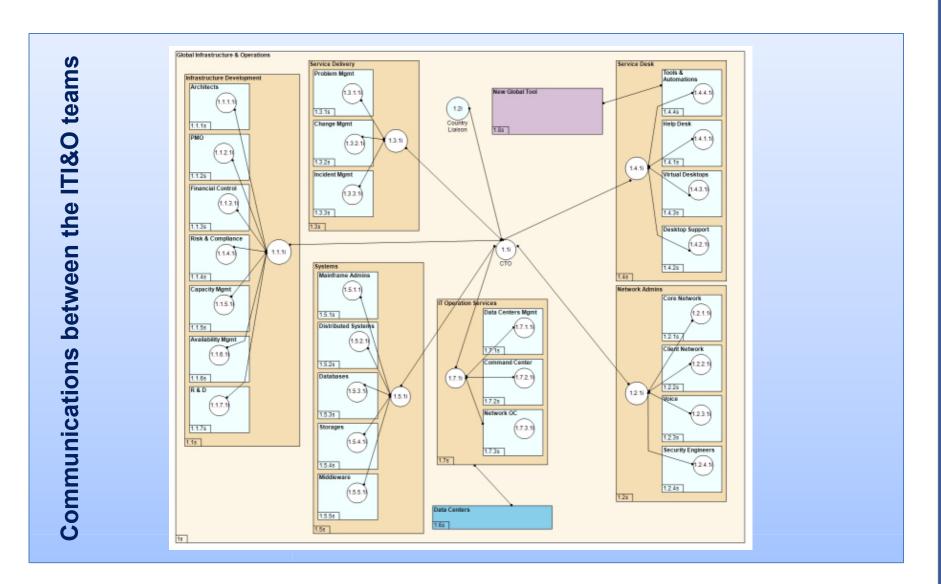
The proposed organizational structure





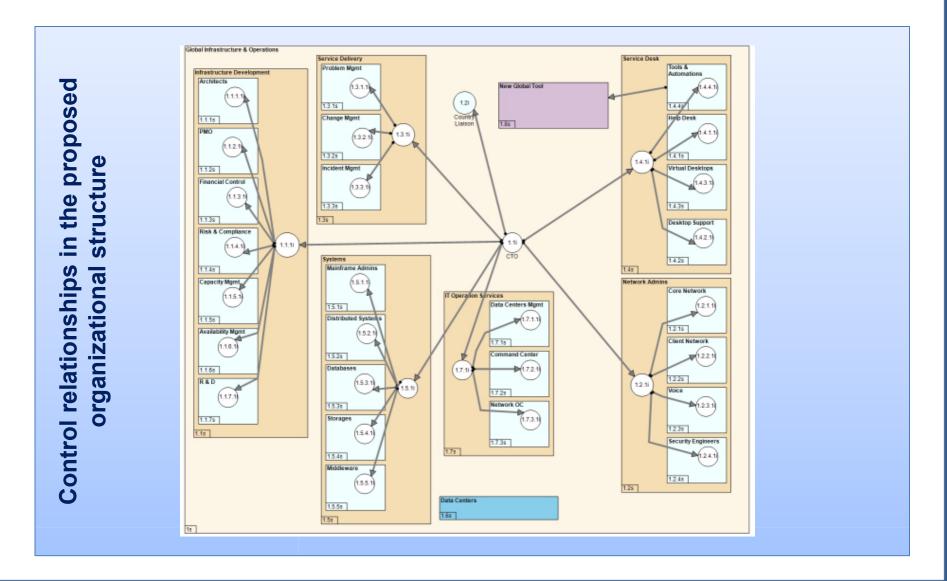






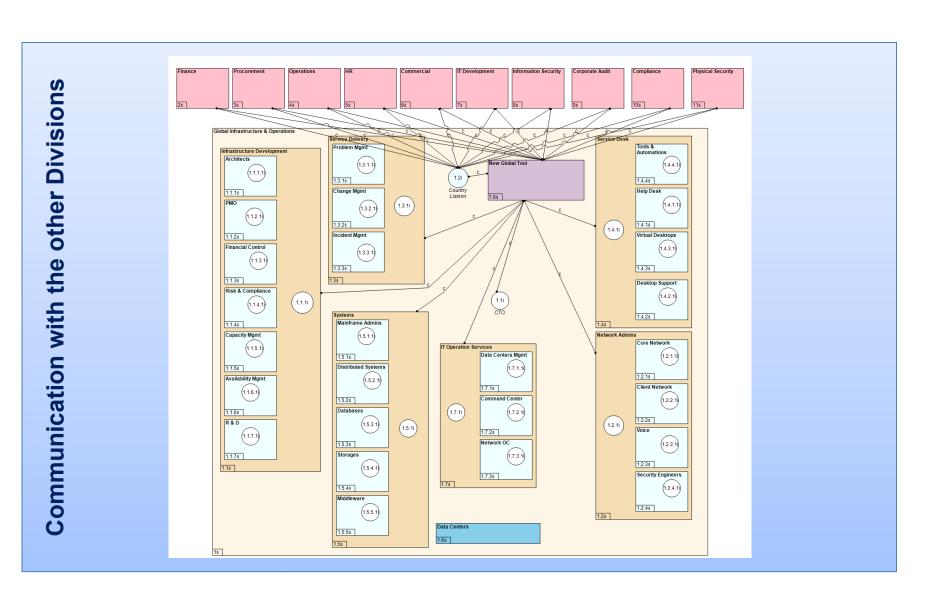






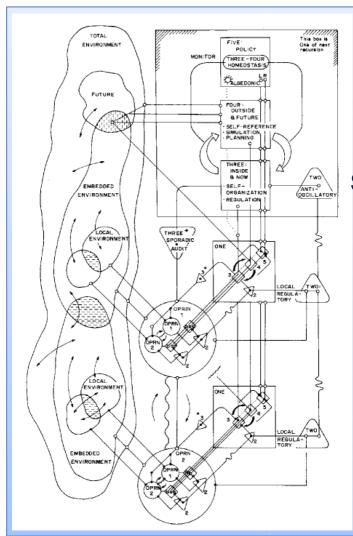




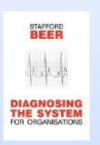






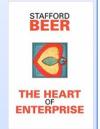












Stafford Beer 1926-2002

S1: Operations

S2: Coordination – Stability

S3: Direction – Optimization

S3*: Sporadic Audit

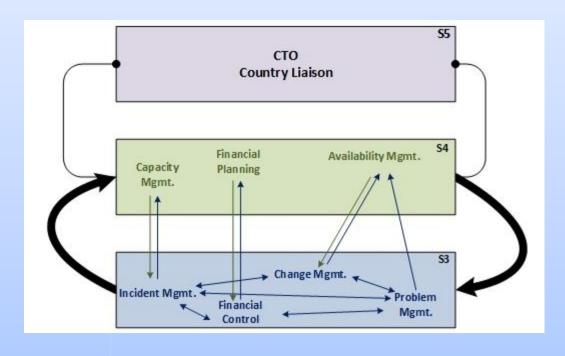
S4: Planning

S5: Identity, Ultimate authority





Decision Making Strategy







Match the proposed organizational structure with the VSM

Organization						
Division	Sector	Department	Group or Role			
СТО						
	Country Liaison					
		Availability Mgmt				
		Capacity Mgmt				
		Financial Control	Financial Planning			
		Tillalicial Colltion	Analysis & Reporting			
	Infrastructure Development	Infrastructure Architect				
		Project Management Office	Project Manager			
		1 Toject Wallagement Office	Planner			
		R & D				
		Risk & Compliance				
	Service Assurance	Change Mgmt				
		Incident Mgmt				
		Problem Mgmt				

VSM						
S1	S2	S3	S3*	S4	S 5	
					٧	
				٧	٧	
				٧		
				٧		
				٧		
		٧				
				٧		
		٧				
				٧		
				٧		
		٧				
		٧				
		٧				
		٧				





Match the proposed organizational structure with the VSM

Organization						
Division	Sector	Department	Group or Role			
	Service Desk	Help Desk				
		Desktop Support				
		Virtual Desktops				
		Tools & Automations				
	IT Operation Services	Data Centers Management	Facilities			
			Build			
		Comment Commen	IT Operators			
		Command Center	Batch			
			File Transfers			
		Nava d OC	Network Operators			
		Network OC	Voice Operators			
	Mainframes Distributed Systems Systems Services Databases Storages Middleware		Security Operators			
		Mainframes	HP			
		iviamirames	IBM			
			Unisys Microsoft			
		Distributed Systems	UNIX / Linux			
		Distributed Systems	Virtual Servers			
			MS SQL			
			Oracle			
		Databases	Big Data			
		Open DBs				
		Storages				
	Network Services	Core Network				
		Client Network				
		Voice				
		Security Engineers				

	VSM						
ĺ	S1	S2	S3	S3*	S4	S 5	
	٧						
	٧						
	V						
	٧						



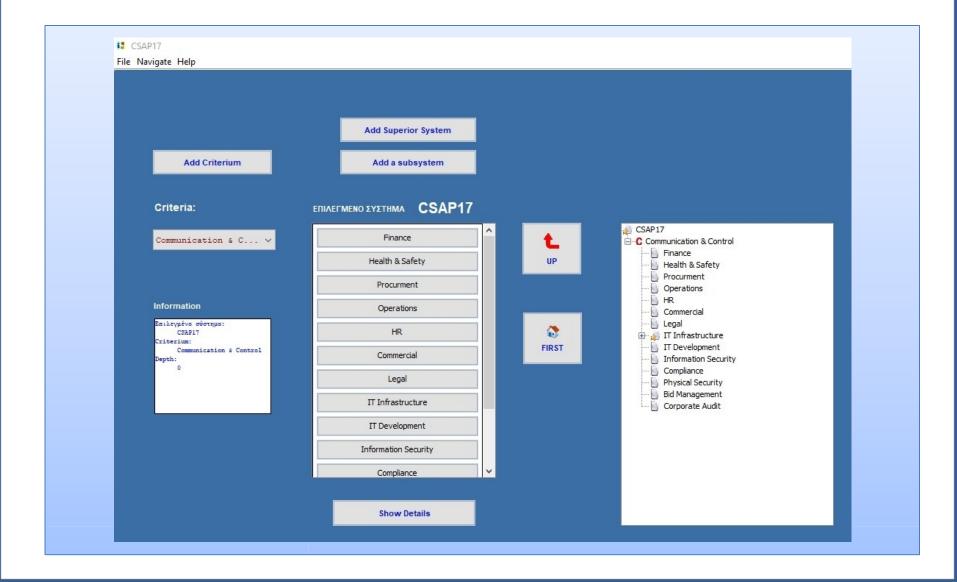


Match processes and tools with VSM

	S1	S2	S3	S3*	S4	S5
Strategy						Υ
Goals						Υ
Principles						Υ
Vision						Υ
Governance					Υ	
Plans					Υ	
Knowledge					Υ	
Future Trends					Υ	
Audit reports				Υ		
Performance reports				Υ		
Quality reports				Υ		
Timetables			Υ			
Milestones			Υ			
Metrics			Υ			
Regulations			Υ			
Laws			Υ			
Procedures			Υ			
Facilitation		Υ				
Coordination		Υ				
Schedule		Υ				
Administration		Υ				
Reviews		Υ				
Maintenance		Υ				

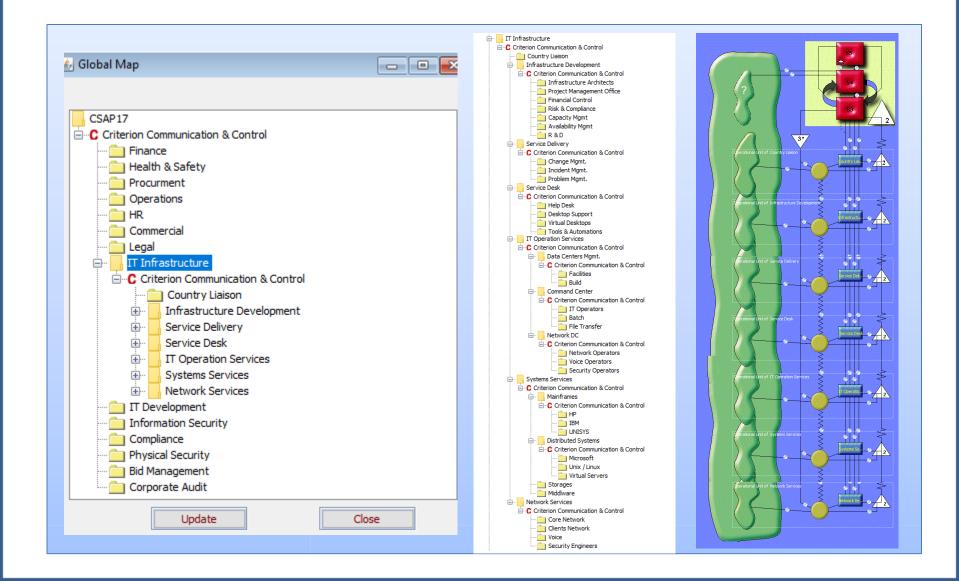






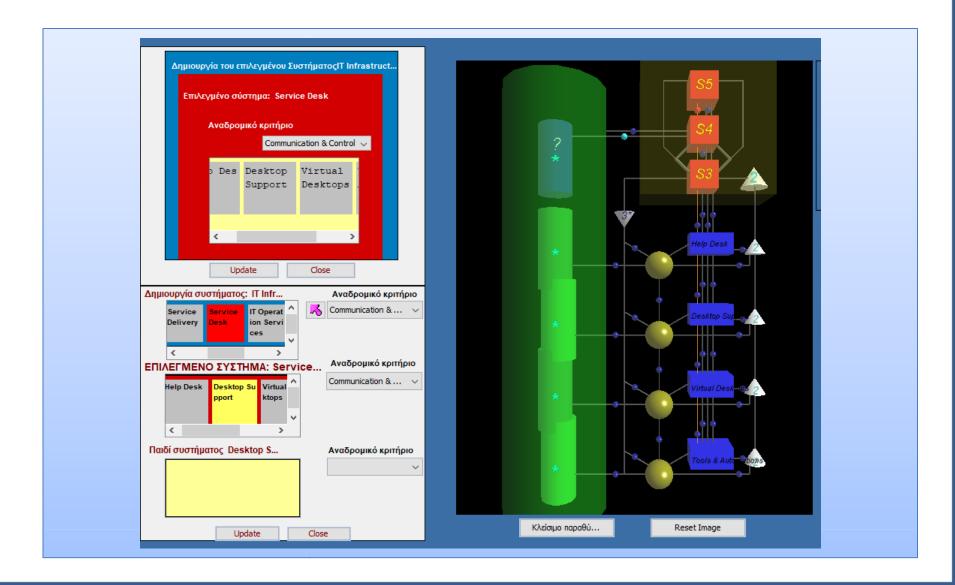






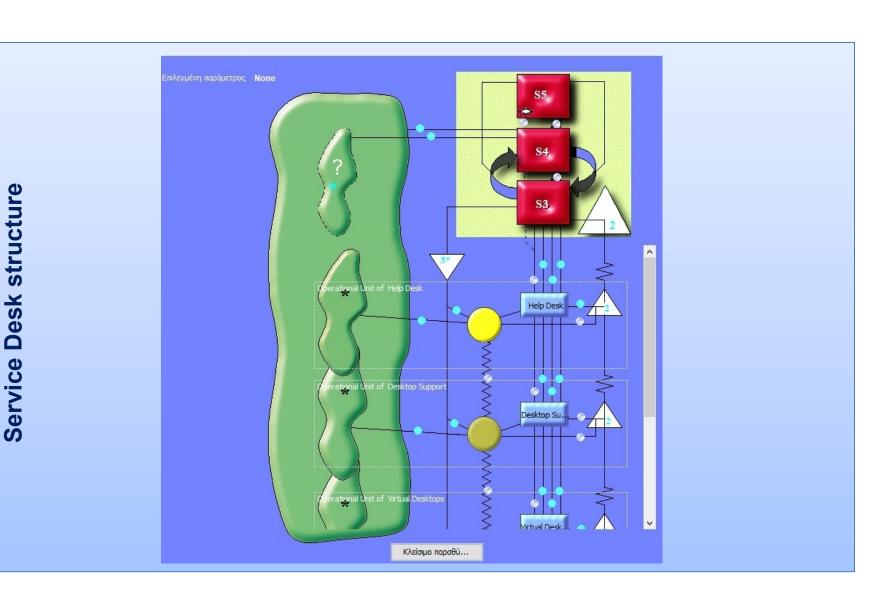






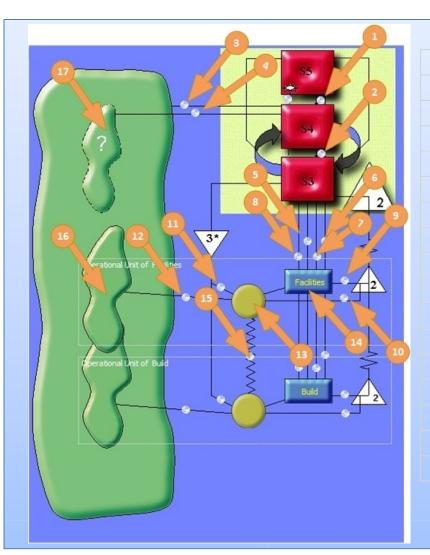












- 1. Information between S4 and S5
- 2. Information between S3 and S4
- 3. Connection with Current Environment
- 4. Connection with Future Environment
- 5. Transmission of instructions
- 6. Accountability
- 7. Resource Bargaining
- 8. Algedonic channel
- 9. Connection between Management and Local S2
- 10. Connection between Process and Local S2
- 11. Audit channel connection
- 12. Connection with the Environment
- 13. Process
- 14. Management
- 15. Relation between Process
- 16. Environment of "local"
- 17. Future Environment

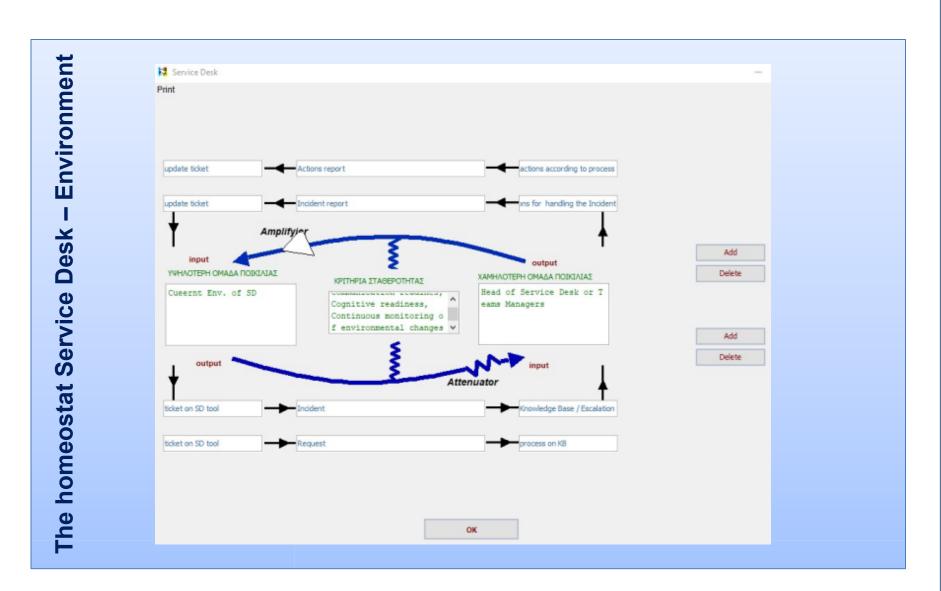






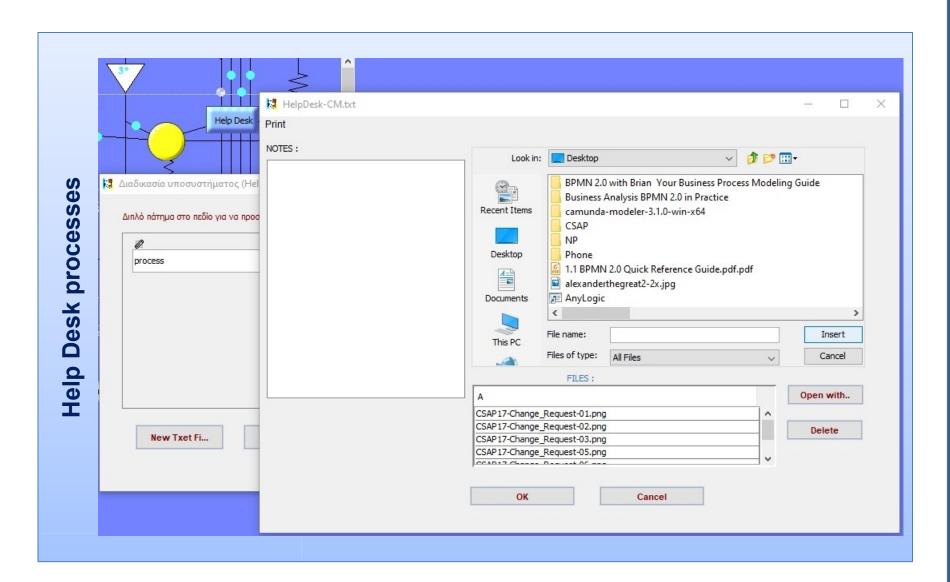






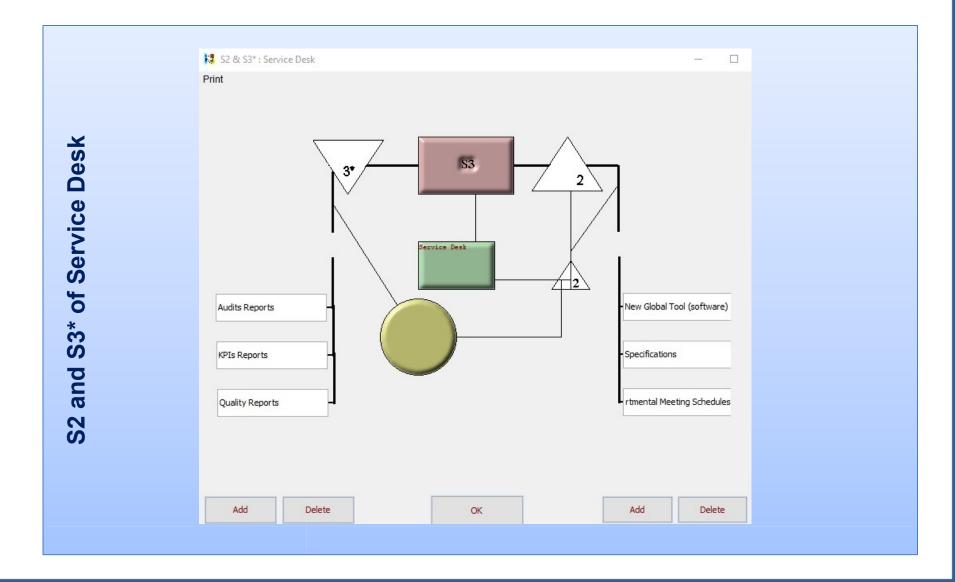






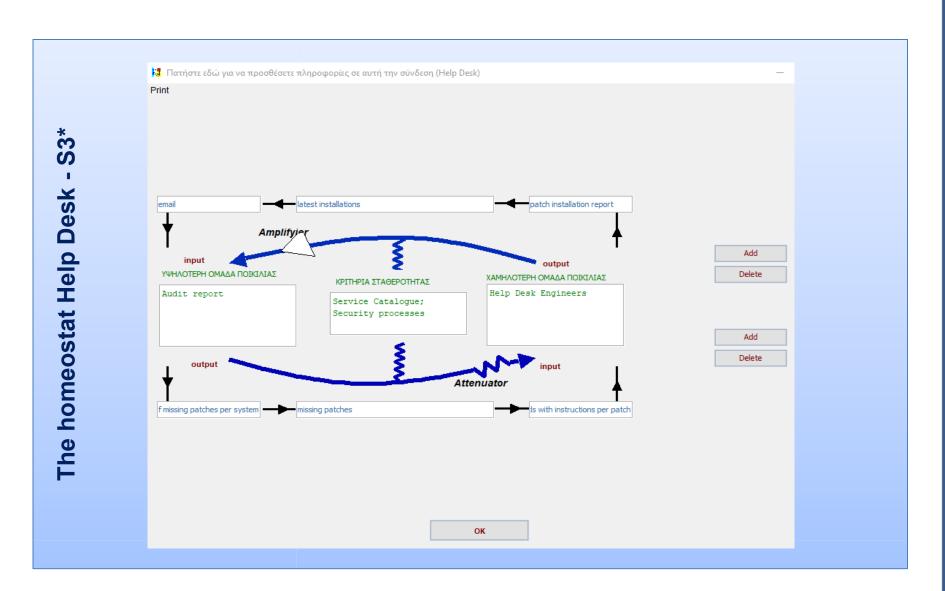








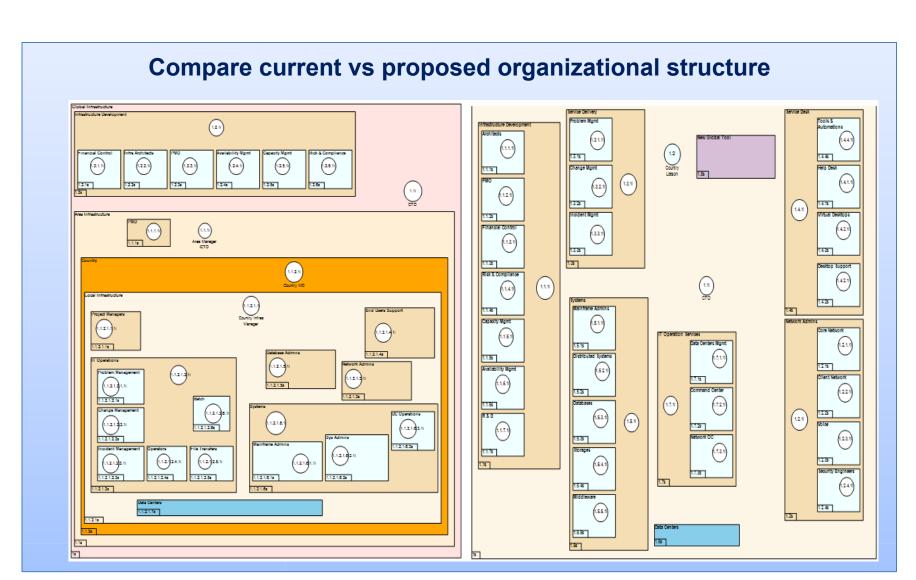








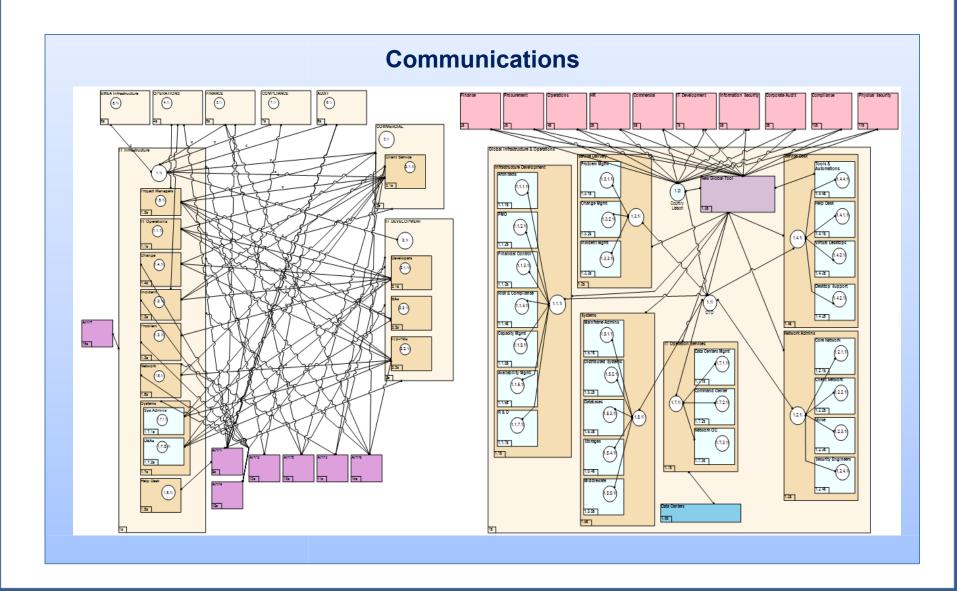
Compare CS vs PI







Compare CS vs PI







Questions





Thank you