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# Caring Objectives

- Pharmacy Chain in Portugal
- O2C BPM redesign
  - Customer dissatisfaction
  - Inability to handle some tasks

### **Process Identification: Designation Phase**

### **Management Processes** Inventory Mgmt, Suppliers Mgmt, CRM, Operations Mgmt, Strategic Mgmt **Core Processes** Sales (Order-to-Cash, fill order process) Direct Procurement (Procure-to-pay, supply replenishment) Distribution Services Marketing **Support Processes** HR (recruitment, staffing...), Finance, IT, Legal (regulations)

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Delimit scope to only one core and narrow process: O2C

- involves less stakeholders
- interacts with less departments
- yields larger impact
- avoids future/related problems
- solves specific problems



### **Process Identification: Evaluation Phase**

U1.

**IMPORTANT** 

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Profitability and continuity

02.

DYSFUNCTIONAL

Feedback from customers and employees

03.

**FEASIBLE** 

Minimal future resources required





### **Process Description**





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### Order-to-Cash Process

order
End: client paying for and receiving that order

Start: client requesting an



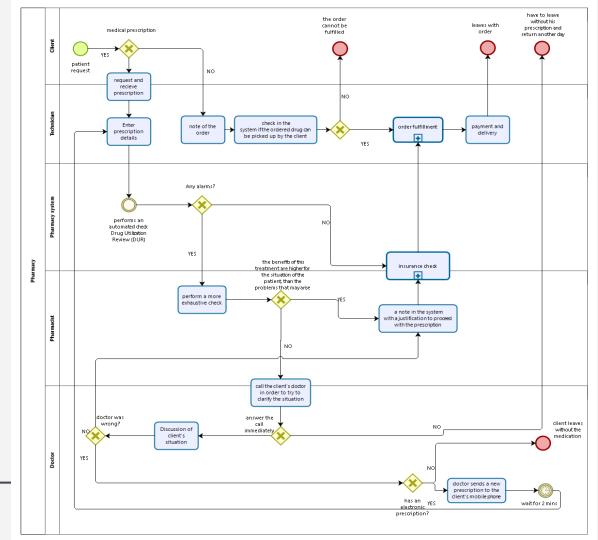
Externally: client Internally: employee

### Purpose/Goal

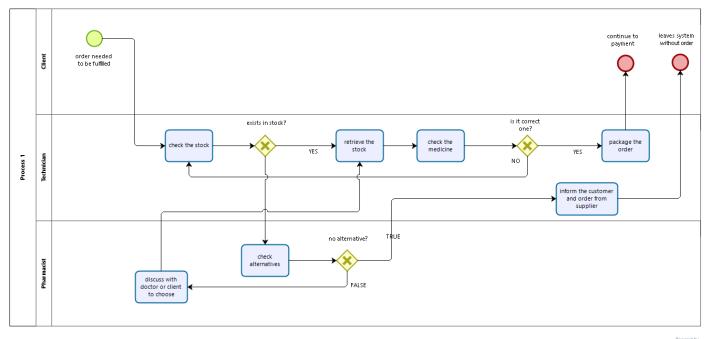
Solve customer dissatisfaction Restore pharmacy's reputation



### **AS-IS Process**



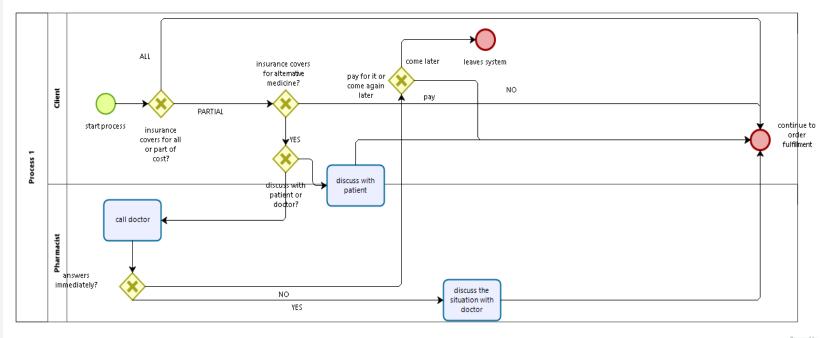
### **Order Fulfilment**





# Insurance Check









## **Value-Added Analysis**

Step	Performer	Class
Patient request	Client	VA
Wait	Client	NVA
Request and receive prescription	Technician	BVA
Takes note of the order without prescription	Technician	NVA
Register/fulfill the order without prescription	Technician	VA
Enter prescription details	Technician	BVA
Review alarm from Drug Utilization Review (DUR)	Pharmacist	VA
Call the client's doctor in order to try to clarify the situation with alarm	Pharmacist	VA
Discuss replacement with the patient if insurance doesn't cover the medicine	Pharmacist	VA
Call the client's doctor if insurance doesn't cover the medicine	Pharmacist	BVA
Get the medicine if the pharmacy has it	Technician	BVA
Choose alternatives for the medicine with doc and client (call doc again)	Pharmacist	BVA
Receive the payment from the client	Technician	VA







# **Issue register**

Issue	Priority	Description	Data and assumptions	Qualitative impact	Quantitative impact
Employee overloading and customer dissatisfaction	1	the employee is unable to serve all customers during regular work hours, having to make more time to be able to serve customers or sometimes does not even attend them	Arrival rate (λ) - average number of new instances of the process that are created per time unit = 220 customers per day or 27.5 customers per hour, mean inter-arrival time = 1/27.5 it's about every 2.18min	The way the process is performed in terms of quality and efficiency affects the reputation and competitiveness of the organization.	The pharmacy has 4 technicians and 3 pharmacists, receiving each 1000€ and 1300€ respectively, it means 1h cost 5.42€ and 4.17€ accordingly



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KPI per segment (simulation for 30 replications, avg per replication)	Current situation
Customer performance:	
Return Rate	dissatisfied
Time-related process performance:	
Process duration (avg time)	6 min 56 sec
Total time (m)	1517 min
Total time waiting resource (m)	113.53min
Cost-related process performance:	
Total cost	148.05
Technician	66.96
Pharmacist	81.09
Employee performance:	
Resource utilization	56.26%
Technician	50.18%
Pharmacist	62.34%







### **TO-BE Process**

Exploitative Redesign (Heuristics)

Task Level

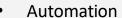
• Task Elimination

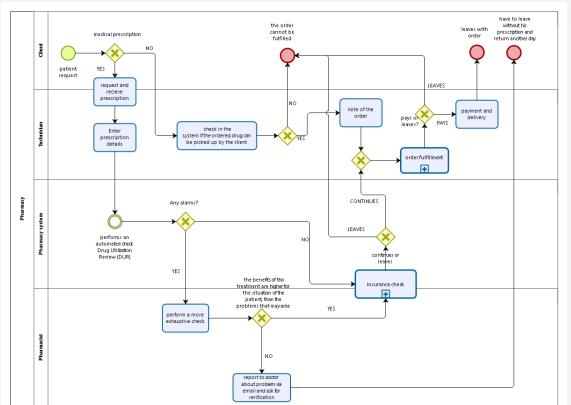
Flow Level

Re-sequencing

**Process Level** 

- Resource optimization
- Communication optimization



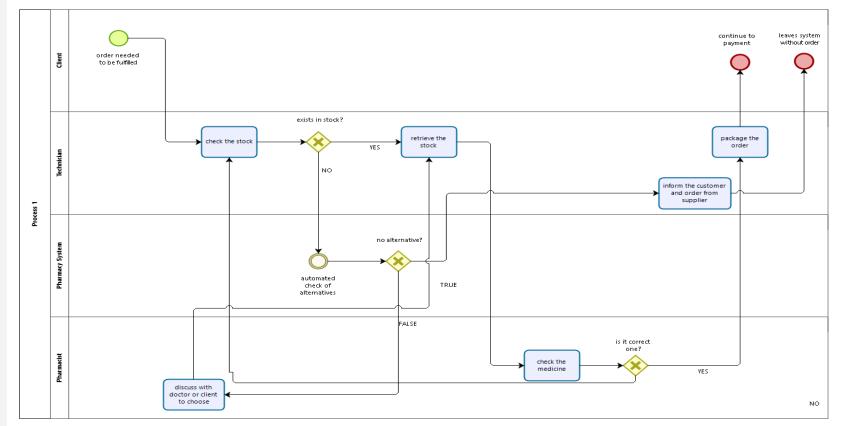






### **Order Fulfilment**

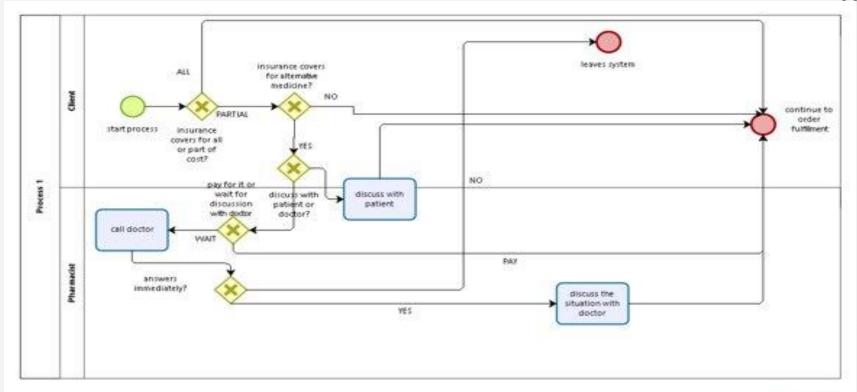






### **Insurance Check**









### **Future Improvements**





### **New Technologies**

 Prescription/medical history sharing platform



### **Machineries/Techniques**

- Benchmark
- Employee Input



### More pleasant queue

Brand

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Safety



Other Processes







