# **Indian Health Service Business Process Model** and Notation (BPMN) 2.0: An Introductory Overview

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## Session Objectives

This session aims to create an awareness of Business Process Modeling and Notation (BPMN)

Topics covered:

- What is Modeling?
- What is BPMN?
- How to is BPMN used?
- Introduce the visual notation.

#### **Learning Objectives**

At the end of this session, attendees will:

- Identify a BPMN model instance.
- Have a basic understanding of how to read a BPMN model instance.

This is not a BPMN or Modeling tutorial, nor a complete description of the entire language.

## A Few Definitions

#### **BPM – Business Process Management**

 A discipline that uses various methods to discover, model, analyze, measure, improve and optimize business processes

#### **BPMN – Business Process Modeling & Notation**

 A specific visual process modeling language, built on open standards published by the Object Management Group (OMG)

#### WRAP – Workflow Research and Alignment Plan

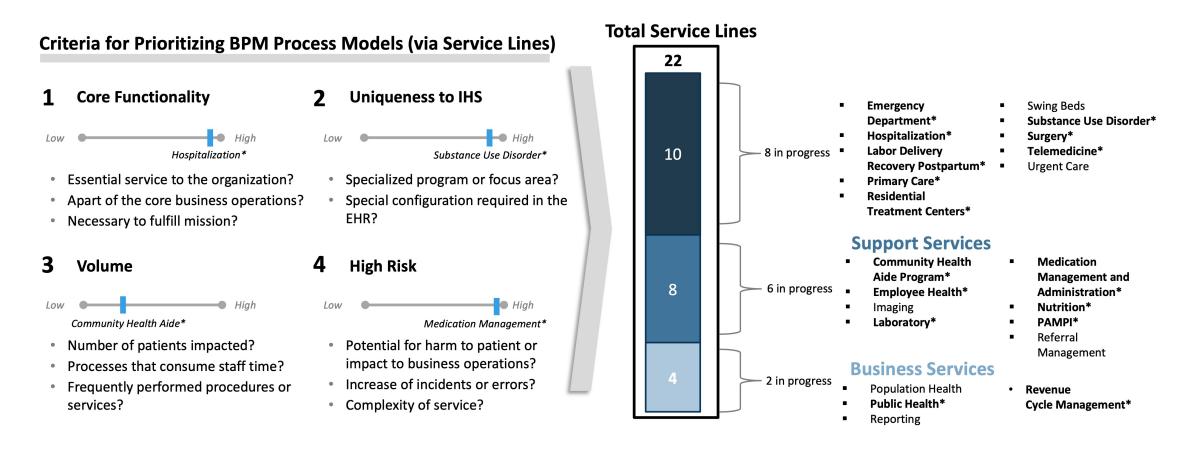
 The IHS "brand" for how we are using BPM/BPMN to understand, document, and socialize our shared best practices in clinical and administrative areas in preparation for health IT modernization

## The WRAP Project in IHS

- IHS has a lot of divergence in common processes because RPMS is highly configurable
- Transition to a new system will be smoother if current processes are well understood and aligned
- Develop a series of business process diagrams that describe preferred workflows for a variety of common, critical, and high-risk processes
- Use these workflows to inform configuration of current systems, even before migration to new EHR
  - Compliance with RPMS standardization could be a selection factor for migration
- Use these diagrams to inform change management, training, and configuration of the new systems
- Experience gained doing process modeling can be leveraged further to model more cognitive workflows, e.g. clinical decision support

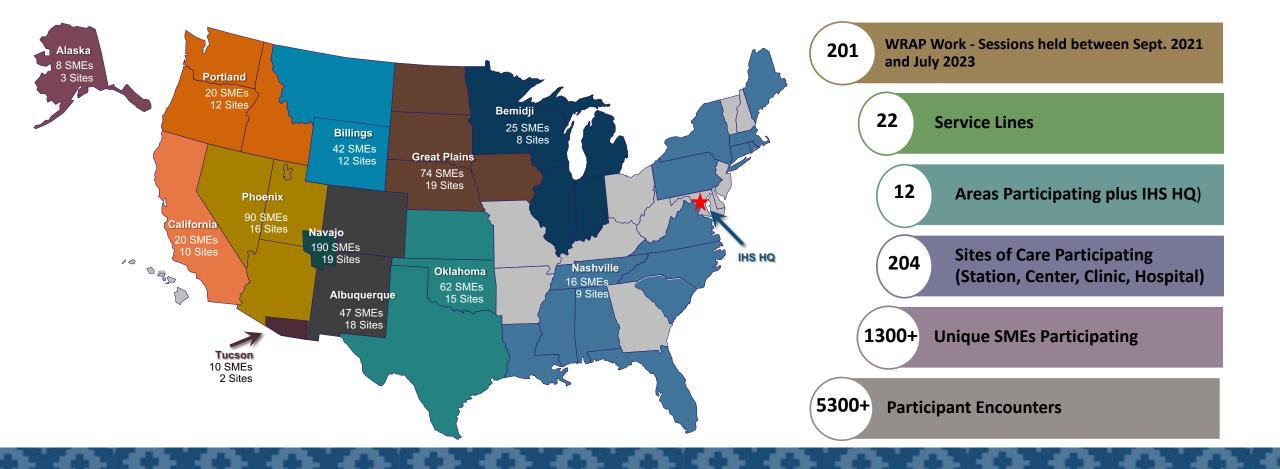
# Prioritization and Categorization of Process Models

Models are prioritized based on 4 distinct criteria, and categorized into 22 service lines, of which 16 are in progress

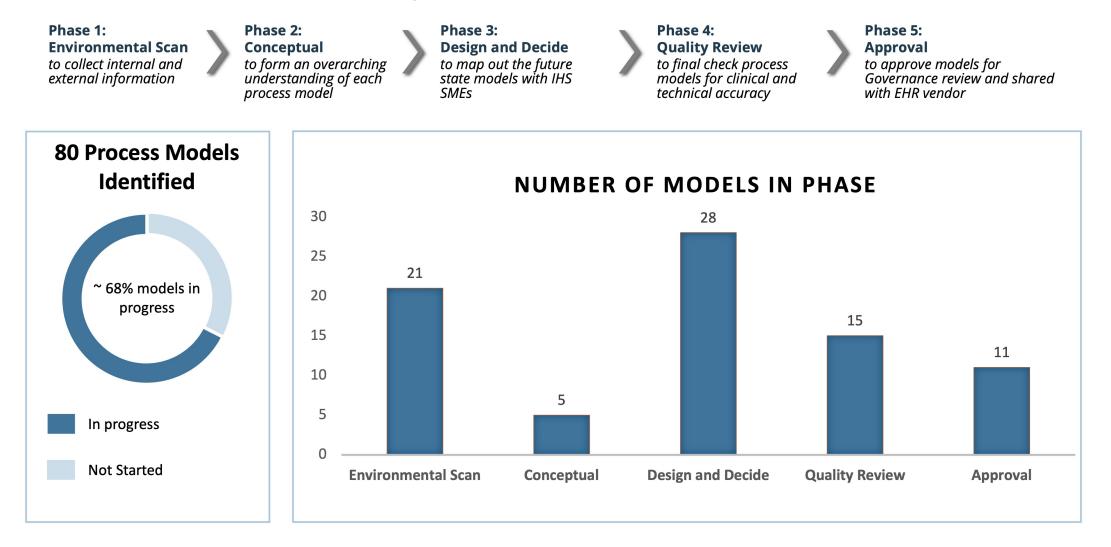


# WRAP-related engagement with I/T/U SMEs across the country has been strong and steady

As of August 1, 2023

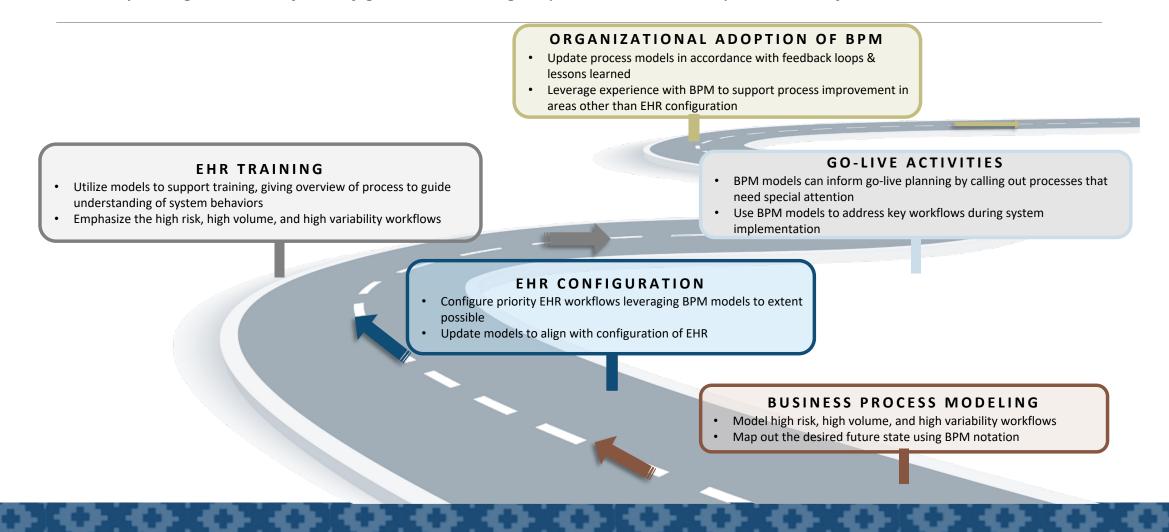


### WRAP Summary



## The Path Ahead with WRAP

WRAP lays the groundwork for configuration, training, implementation, and optimization of the new EHR

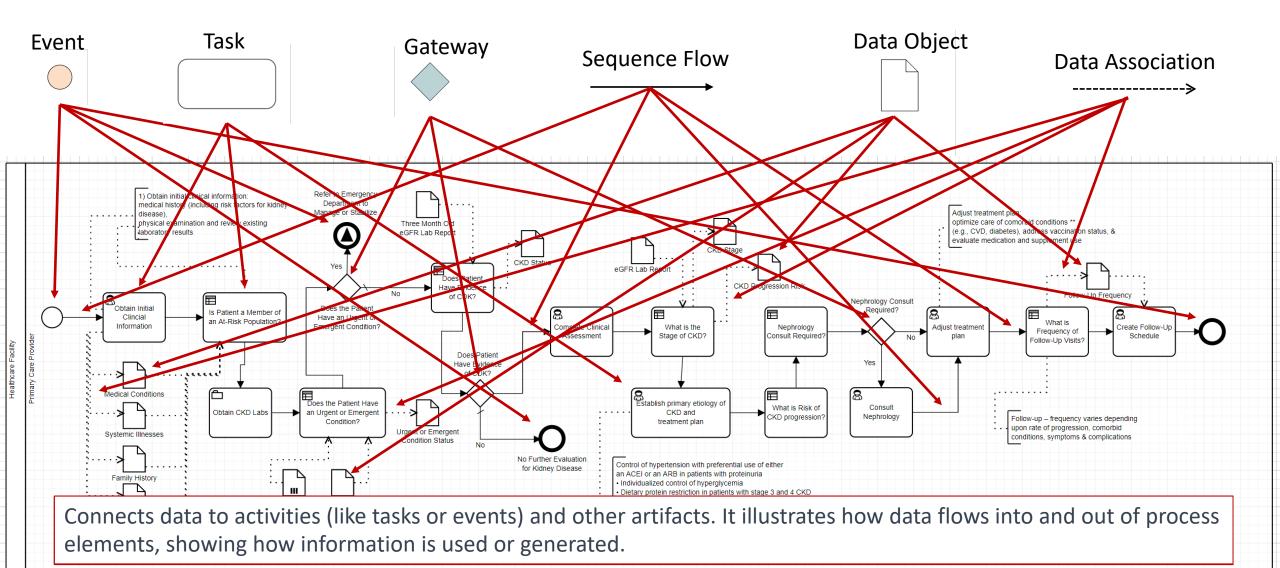


### Why This Presentation?

- •WRAP will be very important in preparing for health IT modernization, but . . .
- •Business Process Modeling isn't specific to clinical processes
- •BPM can be a tool for translating ambiguous written process documents (e.g., policies/procedures), or processes with no documentation into models that are:
  - Visually accessible
  - Unambiguous
  - Sharable
- •Many have shown an interest in what is going on with WRAP, so we thought we could go into a little more depth for those who want to learn more . . . enjoy

### **BPMN** Discussion

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### What is a Business Process?

A series of interrelated activities, tasks, or steps an organization performs systematically to achieve specific business objectives or produce desired outputs.

Designed to create value by transforming inputs into valuable outputs, goods, or services.

Fundamental to how organizations operate and achieve their goals efficiently.

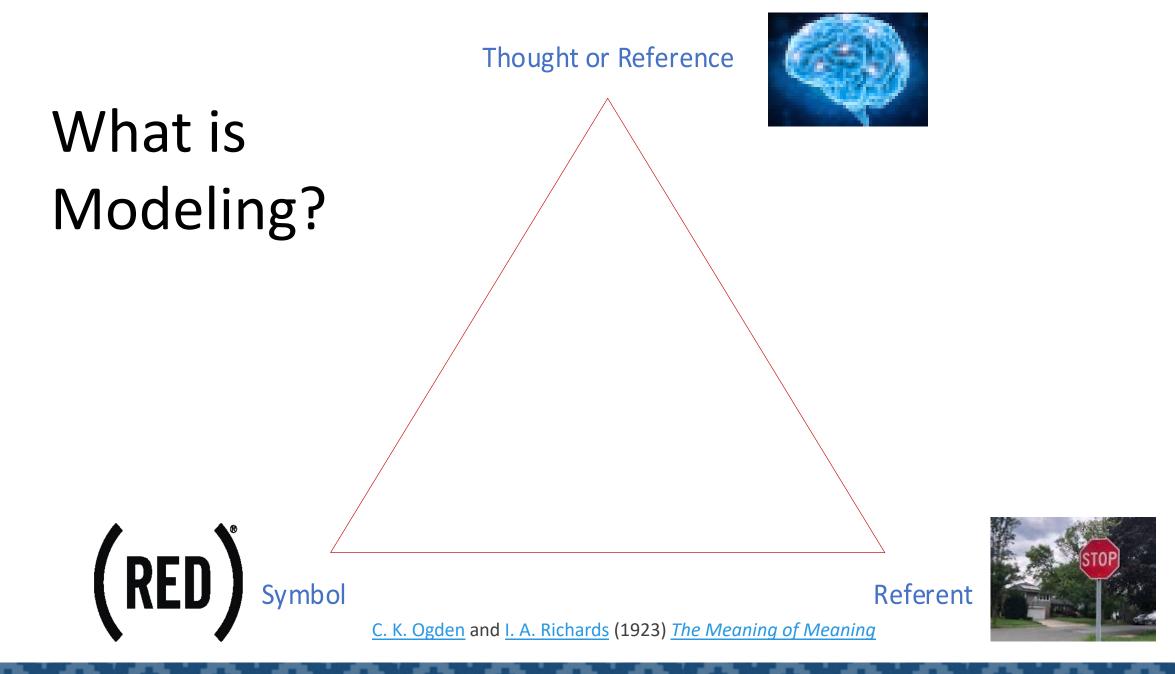
### **Business Process**

#### Key characteristics

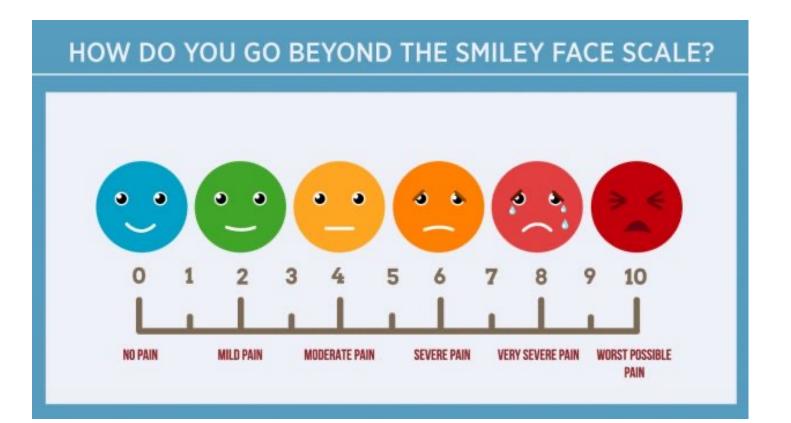
- Clear Objective
- Sequence of Activities
- Inputs and Outputs
- Cross-functional
- Measurable
- Repeatable and Scalable
- Time and Resource Constraints

#### Examples

- Order Fulfillment Process
- Customer Service Process
- Hiring Process
- Care Delivery Process
- Telehealth Process



### Visual Analog Scale (VAS) pain scores and observational





### A Picture is Worth a Thousand Words

#### Key characteristics

- Immediate Understanding
- Inputs and Outputs
- Cross-functional
- Measurable
- Repeatable and Scalable
- Time and Resource Constraints



# What is Modeling and Why do It?

### **Delivery of Care is Complex**

**Modeling Helps** 

To manage complexity

To understand the problem, expectations & requirement

To detect errors and omissions early in the lifecycle

To communicate and share with stakeholders

To evolve our understanding

To understand the impact of change

To ensure that resources are utilized efficiently

Business Process Model and Notation (BPMN) is a Visual Language to Depict Processes

#### **Key characteristics**

- Visual Representation: BPMN uses symbols, shapes, and arrows to create diagrams that visually represent the flow and logic of a business process.
- Standardized Notation: BPMN is an industry-standard notation, meaning it follows specific rules and conventions.
- Process Elements: BPMN defines a set of elements or symbols to represent various components of a business process.
- Process Flow: BPMN diagrams show the sequence of activities and events in a process, as well as the conditions and decisions that determine how the process progresses.
- Collaboration: BPMN can be used to model both individual processes and complex collaborations involving multiple participants or organizations.
- Process Analysis and Improvement: BPMN diagrams are valuable tools for analyzing and improving business processes.

#### www.omg.org/spec/BPMN/2.0.2/PDF

In 2000, the <u>Business Process Management Institute</u> (BPMI—now merged into the OMG) started developing the Business Process Modeling Language (BPML - an XML process execution language) and recognized the need for a graphical representation.

In August 2001, the Notation Working Group was formed. The group was composed of 35 companies, organizations, or individuals.

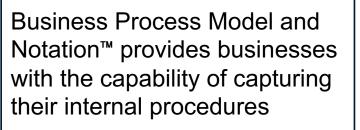
#### **BPMN 1.0**

- $^\circ~$  May 2004, the BPMN 1.0 specification was released to the public.
- February 2005, BPMN 1.0 was adopted as an OMG standard.

**BPMN** Origins

#### **BPMN 2.0**

- $\,\circ\,\,$  January 2011, BPMN 2.0 was adopted as an OMG standard.
- July 2013, BPMN 2.0 was adopted as an ISO standard (ISO/IEC 19510:2013).















One of the largest and longest-standing not-for-profit, open-membership consortia developing and maintaining computer industry specifications.

Long-term maintenance of proven standards

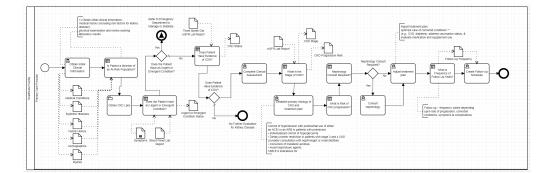


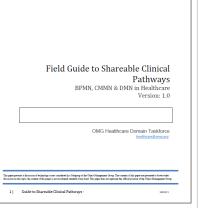
# Who is the BPM+ Health Community





- Officially launched in September 2019
- Not-for-Profit non-SDO
- Membership-based, open community
- Calls are open
- Actively collaborating with others, including HL7
  - Work products are open and available without cost
- No usage restrictions or limitations
- Focus on advancing the discipline; best-practices





## Who is the BPM+ Health Community



Authoring	<ul> <li>Focus on writing/distributing content</li> <li>Healthcare practice patterns</li> </ul>	F
Organizational Adoption & Change Management	<ul> <li>Bringing pathways into institutional use</li> <li>Intersect between pathways, HIT, and human resources</li> </ul>	
Process Automation and Enablement	<ul> <li>Approaches for IT implementation (tooling and execution)</li> <li>Ingesting and using externally sourced pathways</li> </ul>	A S
Methodology	<ul> <li>Maintain expression formalisms</li> <li>Develop/maintain authoritative guidance; feedback to SDOs</li> </ul>	T b c
Academic and Professional Education	<ul><li>Develop curriculum for accreditation</li><li>Workforce development</li></ul>	i
Policy Committee	<ul><li>Policy implications</li><li>Outreach</li></ul>	
Tooling	<ul><li>Tooling solutions</li><li>Empowering our community</li></ul>	

#### READ THE FIELD GUIDE FOR SHAREABLE CLINICAL PATHWAYS

### **Field Guide**

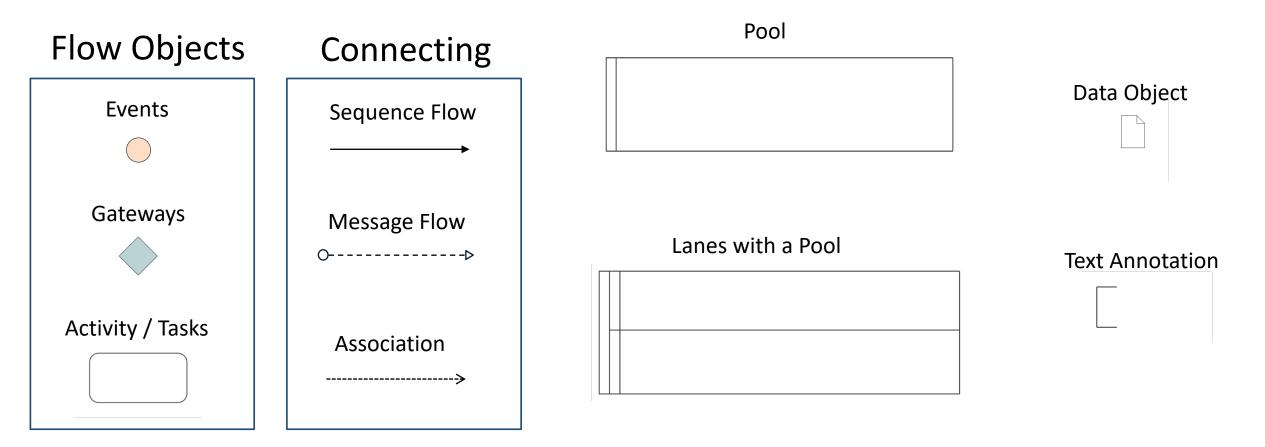
Access the community's seminal publication, Field Guide for Shareable Clinical Pathways.

The guide applies three Object Management Group® (OMG®) business process standards to represent clinical pathways that define distinct aspects of care workflow and decision-making, including:

- Business Process Model and Notation<sup>™</sup> (BPMN<sup>™</sup>)
- Case Management Model and Notation™ (CMMN™)
- Decision Model and Notation<sup>™</sup> (DMN<sup>™</sup>)



### Key BPMN Elements



### Events

Represent specific points in a business process where something significant happens or triggers a change in the flow of the process.

Indicating a process's start, intermediate steps, and end points.

Depict the timing and sequence of a process's activities, decisions, and interactions. **Start Events**: Initiation points of a process or a particular sequence of activities. They signify when the process begins. For example, a "Receive Order" start event could mark the beginning of an order processing process when a customer places an order.

Circle with a single outline:

Intermediate Events: Occur during a process, indicating a specific occurrence influencing the process flow. For example, an "Approval Required" intermediate event might indicate a point where an approval decision is needed before proceeding with the next steps of the process.

Circle with two thin outlines:



**End Events:** Mark the conclusion of a process or a specific sequence of activities. They signify when the process has been completed or terminated. For example, a "Delivery Complete" end event could represent the successful completion of a delivery process.

Circle with single bold outlines:



### **Start – Events (Catch)**

None Start Event



- Interrupting Message Start Event
- (D) Non-interrupting Message Start Event



- () Interrupting Timer Start Event
- () Non-interrupting Timer Start Event



- Interrupting Conditional Start Event
- (I) Non-interrupting Conditional Start Event



Interrupting - Signal Start Event



- () Interrupting Multiple Start Event
- (①) Non-interrupting Multiple Start Event



- (+) Non-interrupting Parallel Multiple Start Event



A Interrupting - Escalation Start Event



(A) Non-interrupting - Escalation Start Event



N Interrupting - Error Start Event



(📢) Interrupting - Compensation Start Event

### Intermediate – Events (Throw and Catch)







Interrupting - Boundary - Catch - Message Intermediate Event



Non-interrupting - Boundary - Catch - Message Intermediate Event



- Timer Intermediate Event
- Interrupting Boundary Timer Intermediate Event



Conditional Intermediate Event



Interrupting - Boundary - Conditional Intermediate Event



Catch - Escalation Intermediate Event



Interrupting - Boundary - Catch - Escalation Intermediate Event



(A) Non-interrupting - Boundary - Catch - Escalation Intermediate Event



Throw - Escalation Intermediate Event



(🔊) Boundary - Catch - Error Intermediate Event



🕢 Boundary - Catch - Compensation Intermediate Event



Throw - Compensation Intermediate Event



Catch - Link Intermediate Event



Throw - Link Intermediate Event



Boundary - Catch - Cancel Intermediate Event

### Intermediate – Events (Continued)



Catch - Signal Intermediate Event



Interrupting - Boundary - Catch - Signal Intermediate Event





( Interrupting - Boundary - Throw - Signal Intermediate Event



Catch - Multiple Intermediate Event



Interrupting - Boundary - Catch - Multiple Intermediate Event



Non-interrupting Boundary - Catch - Multiple Intermediate Event



Throw - Multiple Intermediate Event



Catch - Parallel Multiple Intermediate Event



Interrupting - Boundary - Catch - Parallel Multiple Intermediate Event

Non-interrupting Boundary - Catch - Parallel Multiple Intermediate Event

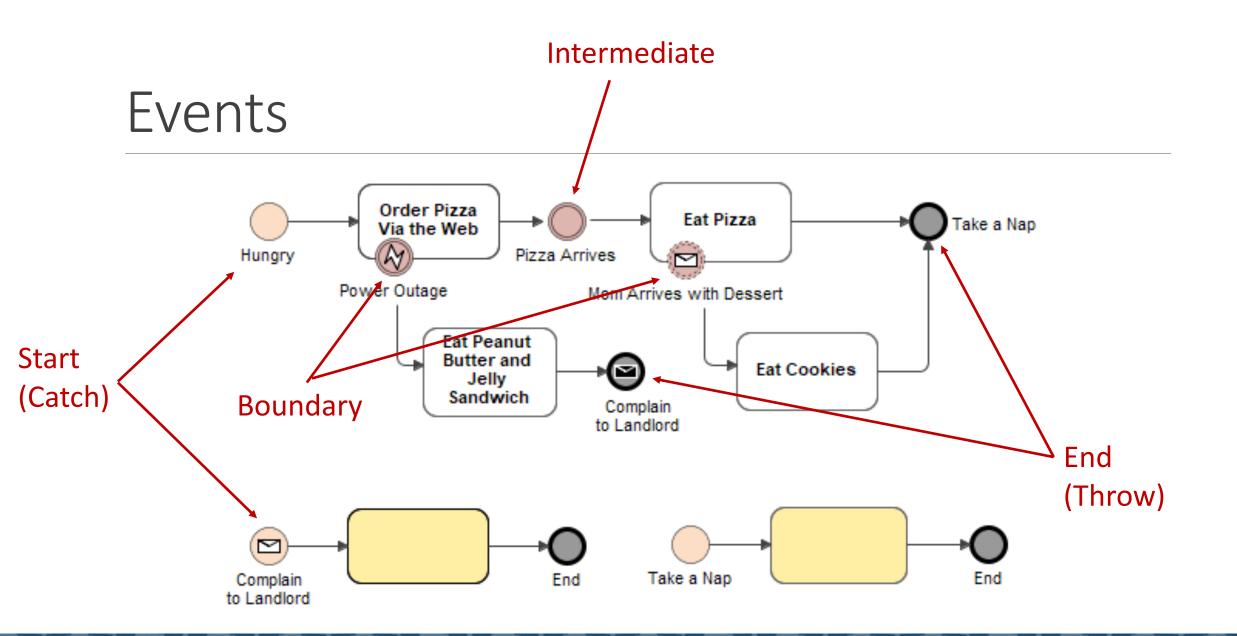
### End – Events (Throw)



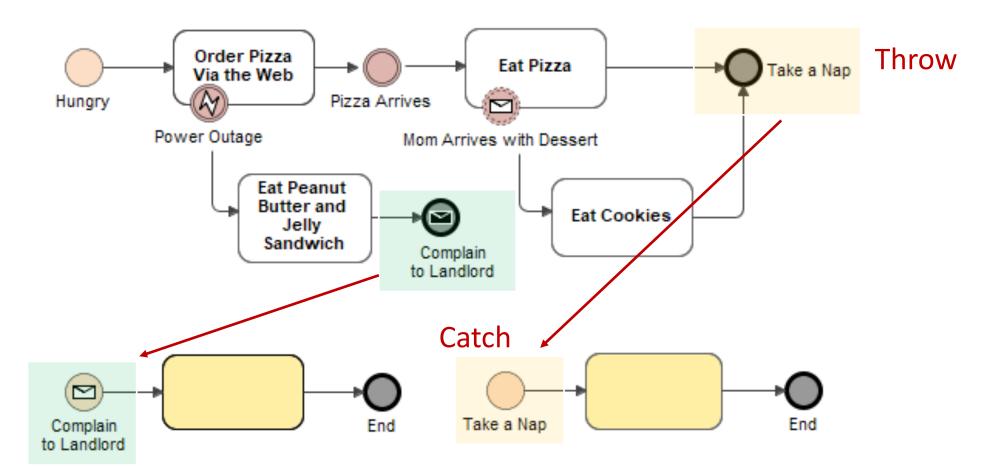
• Terminate End Event

### Example to Discuss

When I get hungry, I'll order a pizza online. However, my building has electrical issues, so if I lose power while ordering, I'll opt for a peanut butter and jelly sandwich and discuss the situation with the landlord. Once I finish placing the order, I'll patiently wait for the pizza to arrive, and after that, I'll thoroughly enjoy eating it. Occasionally, my Mom might visit with some cookies, and I'll happily indulge in them too. Regardless of the scenario, I'll definitely need a nap once I'm finished.







### **Conditional Events**

#### Start Conditional Events

• Once the condition becomes true, the process will start.

#### Intermediate Conditional Event

• Pauses process and waits until the condition becomes true.

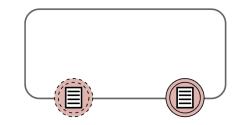
#### **Boundary Conditional Event**

- $\,\circ\,$  On the edge of an Activity.
- When the condition becomes true, triggers off the task

#### NOTE: There is no End (Throw)





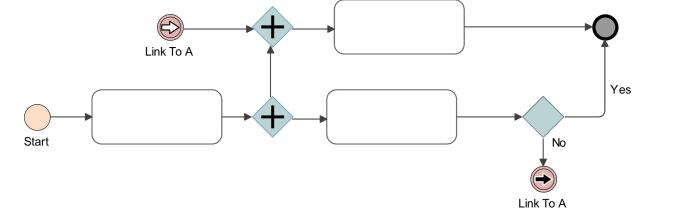


### Link Events

Specialized Intermediate Events used to connect two sections of a process, creating a clear and logical flow.

They can be thought of as "go to" statements, linking one part of the process to another within the same level or diagram

NOTE: Only Intermediate Events.







Types	Start		Intermediate				End	
	Top- Level	Event Sub-Process Interrupting	Event Sub-Process Non- Interrupting	Catching	Boundary Interrupting	Boundary Non- Interrupting	Throwing	
None	0						O	Ο
Message			$(\tilde{\mathbb{D}})$	Ø	Ø	, ti		
Timer	3	٩	Ì	3	9	(i)		
Error		$\bigotimes$			$\bigotimes$			0
Escalation		A	(À)					0
Cancel								8
Compensation								€
Conditional			١			( <b>)</b>		
Link				$\bigcirc$				
Signal			(Ā)			(Ā)		
Terminate								
Multiple	$\bigcirc$	$\bigcirc$	$\langle \hat{O} \rangle$	Ø	Ø			۲
Parallel Multiple	Ð	Ð	$(\mathbf{r})$	Ð	Ð			



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Business Process Model and Notation (BPMN), v2.0.2

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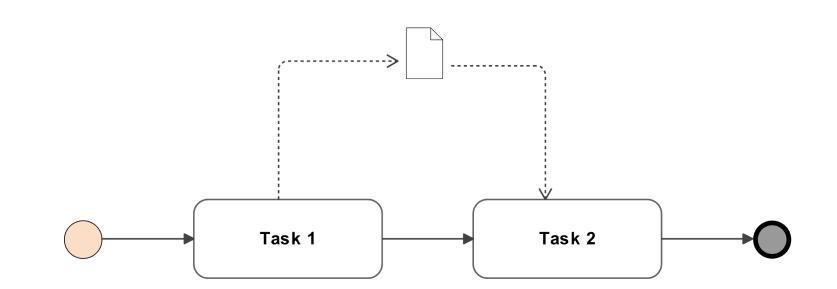
# Flow Elements - Activities

### Activity / Task

A <u>Task</u> is an atomic activity that represents a single unit of <u>work</u> or action that must be performed as part of a process.

<u>Tasks</u> are the fundamental building blocks of a process model and represent specific actions or **work** items that need to be accomplished to achieve the process's objectives.

Undefined Task with no marker, often used during the early stages of Process development or with simple methodologies



## Healthcare Examples of Tasks

- •Administer Medication: A nurse administers prescribed medications to patients based on their treatment plan.
- •Perform Blood Test: A phlebotomist draws blood samples from a patient for diagnostic testing.
- •Change Dressings: A nurse changes wound dressings for a patient to prevent infection and promote healing.
- •Physical Therapy Session: A physical therapist guides patients through rehabilitation exercises to regain mobility and strength.
- •Provide Patient Education: A healthcare professional educate patients about their condition, treatment options, and self-care practices.



### Task Types

<u>User Task</u> requires human interaction or intervention.

Service Task is performed by an automated system or external service.

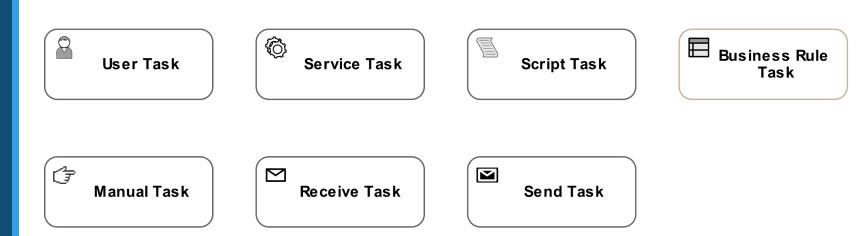
<u>Script Task</u> is where a script or code is executed as part of the process.

<u>**Business Rule Task</u>** that applies predefined business rules or decision logic.</u>

<u>Manual Task</u> is performed manually by a human.

<u>**Receive Task**</u> waits for a specific message or signal to be received.

<u>Send Task</u> sends a message or signal to another process or participant.



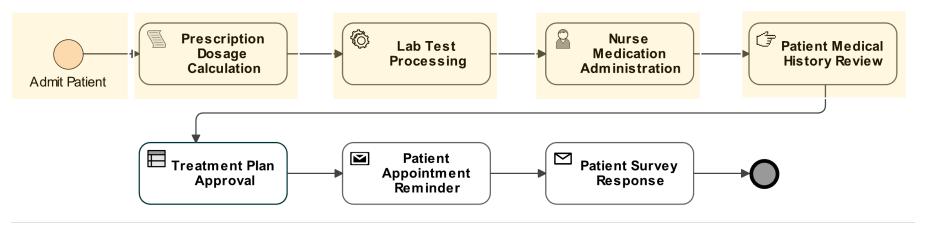
1) The **process starts** when a patient is admitted to the hospital for a medical condition.

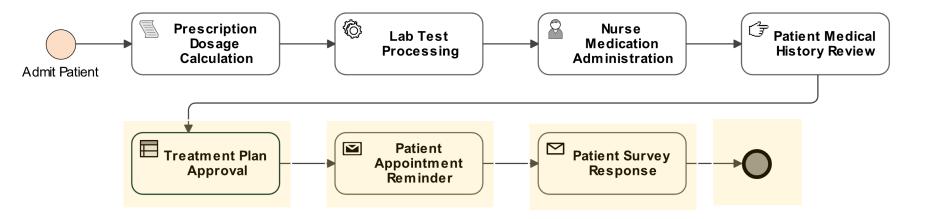
2) A <u>script task</u> calculates the appropriate dosage of medication based on the patient's weight and medical history.

3) A <u>service task</u> requests the processing of blood tests for the patient's condition. It interacts with the laboratory information system (LIS) to initiate the tests.

4) A nurse (**user**) is assigned to administer the prescribed medication to the patient.

5) A healthcare provider **manually reviews** the patient's medical history, including allergies, previous treatments, and conditions. This information is crucial for treatment decisions.



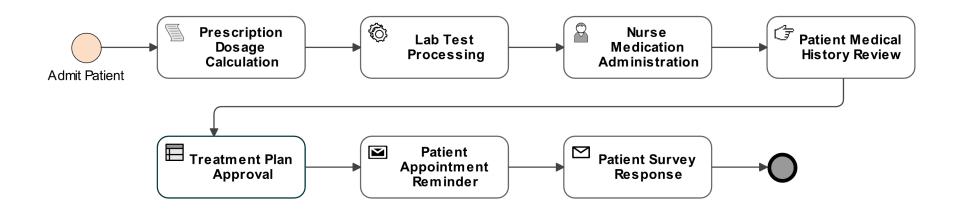


9) process concludes when the patient's treatment is successfully **completed** and all necessary tasks have been executed.

8) A **<u>receive task</u>** waits for the patient to submit a post-treatment survey. Once the survey is received, the process continues.

7) An automated <u>send task</u> triggers the sending of an appointment reminder to the patient's phone via SMS.

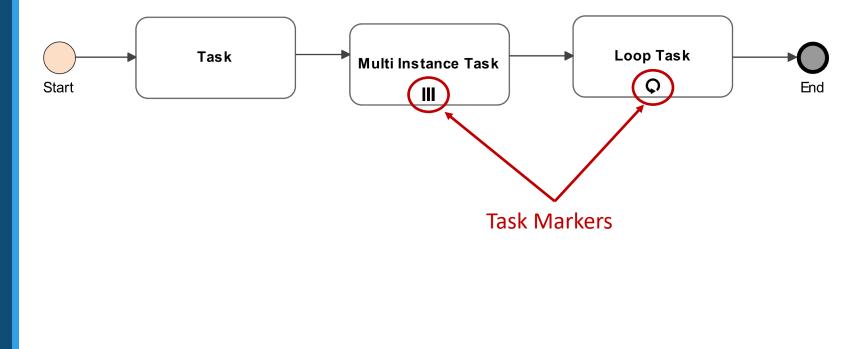
6) A **business rule** task evaluates the proposed treatment plan against established medical guidelines.



#### Tasks Markers

Multi Instance Task: a type of task that represents a task that needs to be executed multiple times, possibly concurrently, for a collection of items. It is used when the same task needs to be performed for multiple instances of data, often in parallel, rather than iteratively. Each instance of the task is executed independently but follows the same process logic.

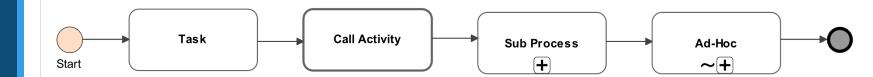
**Loop Task**: loop task is a type of activity that represents a task or sub-process that is repeated multiple times based on a defined condition or iteration. It allows for a specific set of actions to be executed repeatedly until a particular condition is met or a predetermined number of iterations are completed. Loop tasks are valuable for representing scenarios where a certain task needs to be performed iteratively within a process.



# Example



# Tasks



# Flow Elements - Gateways



## Role of Gateways

**Control Flow Management:** Controls the sequence and direction of flow in a process.

**Decision Points:** Act as decision points where the process evaluates conditions or rules to determine which sequence of tasks or activities to execute next.

Parallelism and Synchronization: Facilitate parallel execution of tasks or activities.

Merge and Convergence: Used to merge or converge parallel flows back into a single flow.

**Conditional Routing**: Gateways allow for conditional routing, where the process follows specific paths based on conditions or data values.

**Exclusive and Inclusive Decision-Making**: Different types of gateways (exclusive, inclusive, and complex) support various decision-making scenarios.

#### Gateways

**Exclusive (XOR Gateway)**: Mutually exclusive choices where only one of the outgoing paths is taken.

**Inclusive**: Multiple valid paths where more than one outgoing sequence flow can be taken.

**Parallel**: Split a process flow into multiple parallel paths that are executed concurrently.

**Event-Based**: Handle events that can trigger different paths in a process.

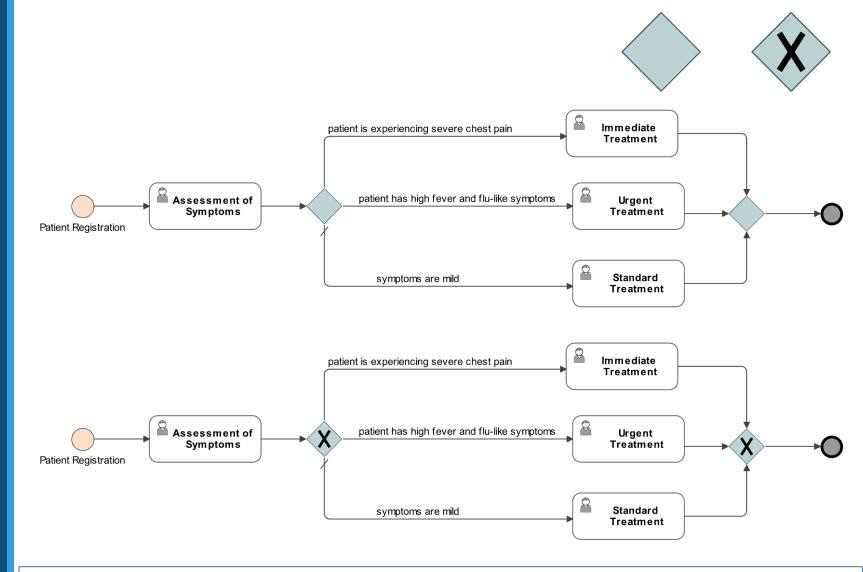
**<u>Complex</u>**: Complex decision logic that cannot be directly captured using other gateway types.

**Parallel Event-Based**: Split a process flow into multiple parallel paths that are executed concurrently.

Exclusive	$\checkmark$ $\overset{\mathbf{x}}{\mathbf{x}}$
Inclusive	Ó
Parallel	+
Event-Based	
Complex	*
Parallel Event-Based	

#### Exclusive Gateway (Split)

XXX:XXXX



In a hospital's emergency department, patients are triaged to determine the urgency of their medical condition. The triage process involves assessing the patient's symptoms and assigning them to different levels of priority for treatment.

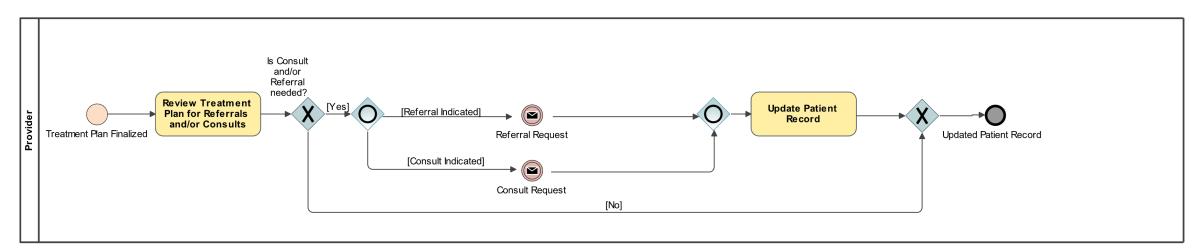


## Inclusive Gateway

**Multiple Valid Paths:** The Inclusive Gateway defines multiple outgoing paths, each associated with a condition.

**Evaluation of Conditions:** When the process reaches the Inclusive Gateway, the conditions of all outgoing flows are evaluated simultaneously.

**Concurrent Processing:** If multiple conditions are evaluated to be true, the process follows all corresponding paths concurrently.



#### Parallel Gateway (Split)

**Parallel Split**: Defines multiple outgoing paths. When the process reaches the gateway, it splits into these parallel paths simultaneously.

<u>Concurrent Execution</u>: The tasks or activities along each parallel path are executed concurrently, allowing for parallel processing without dependencies.

<u>Parallel Paths</u>: Each path represents a specific task or activity that can be performed independently of the others.

<u>**Parallelism</u>**: Facilitates efficiency by enabling tasks to be executed in parallel, which can result in faster process execution.</u>



# Connectors

#### Connectors

Sequence Flow: Establishes sequence and order the flow will progress.

<u>Conditional Sequence Flow</u>: Used to model splitting decision points in a process.

**Default Sequence Flow**: Ensure that there is always a valid path for the process to follow, even when none of the specific conditions associated with other Sequence Flows are met.

**Message Flow**: Used to model the communication and information exchange between different participants or processes in a business process.

Association:.

Sequence Flow	
Conditional Sequence Flow	<→
Default Sequence Flow	
Message Flow	0⊳
Association	>

#### Sequence Flow

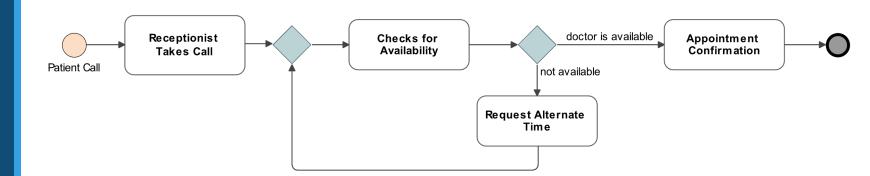
Show the chronological order in which activities, tasks, and events are executed in a process.

Captures the logical progression of the process from one element to another.

Connect <u>two flow objects</u>, such as tasks, events, or gateways.

The source flow object represents the element from which the flow originates, and the target flow object represents the element to which the flow leads.

Direction indicates the sequential movement of the process from the source element to the target element.



A clinic is managing patient appointment scheduling. Patients call the clinic to book appointments with doctors based on their availability.

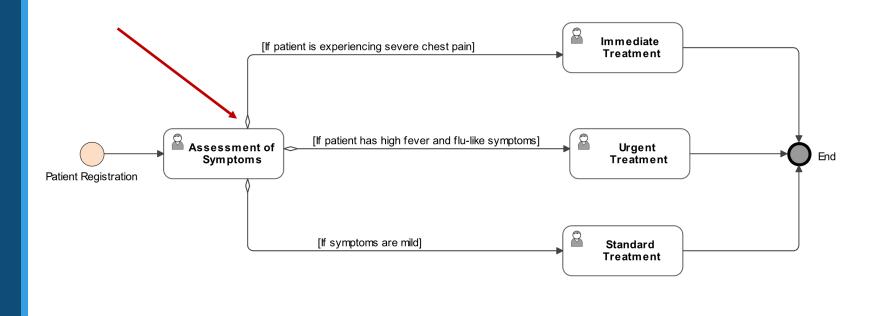
#### Conditional Sequence Flow

Used to model <u>splitting</u> decision points in a process.

Defines a condition that is evaluated when the process reaches a certain element, and based on the condition's outcome, the process takes different paths.

Connects a source element (e.g., a decision point) to a target element (e.g., a task or another decision point).

Defines the criteria that determine whether the flow is taken or not. The expression can be a logical statement, a comparison, or any rule that can be evaluated to true or false.

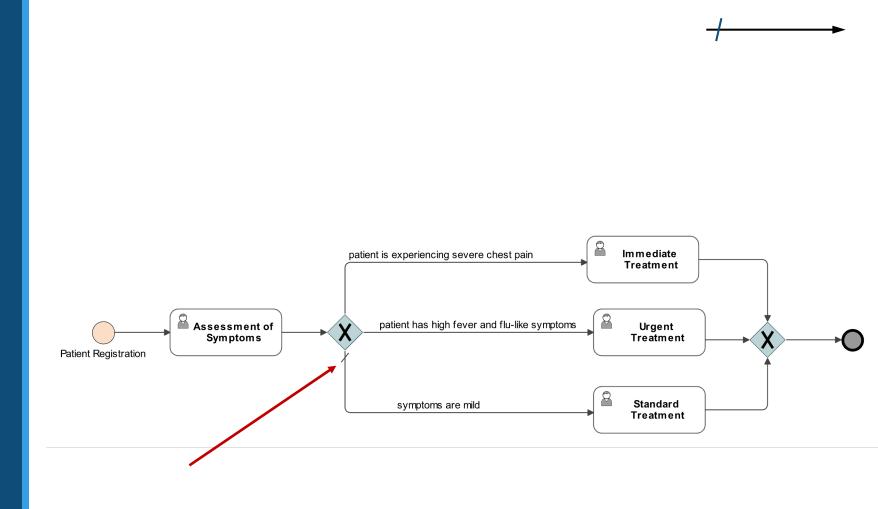


In a hospital's emergency department, patients are triaged to determine the urgency of their medical condition. The triage process involves assessing the patient's symptoms and assigning them to different levels of priority for treatment.

#### Default Sequence Flow

Represents a transition that is taken when <u>none</u> of the conditions associated with other Sequence Flow connectors leading from a decision point evaluate to true.

Provides a fallback path for the process to follow when no specific conditions match the criteria for other outgoing flows.



In a hospital's emergency department, patients are triaged to determine the urgency of their medical condition. The triage process involves assessing the patient's symptoms and assigning them to different levels of priority for treatment. Standard treatment is the default treatment.

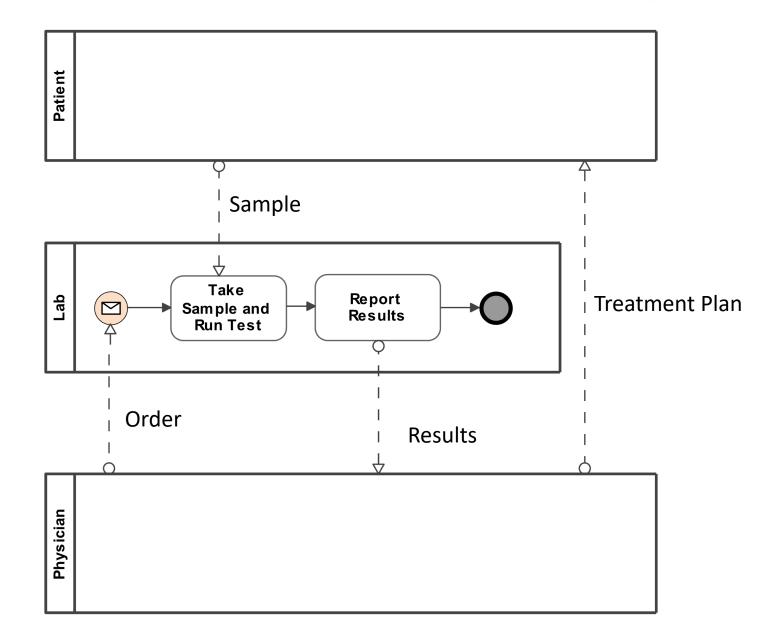
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### Message Flow

Used to model the communication and information exchange between different participants or processes in a business process.

Provide a clear visualization of how messages are transmitted.

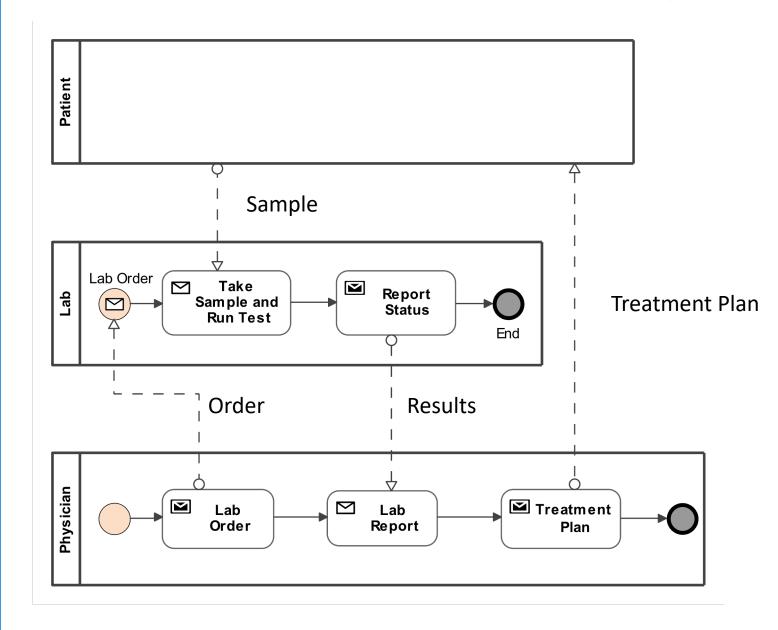
Connects two separate entities, such as pools or participants. One entity is the sender, and the other is the receiver of the message.



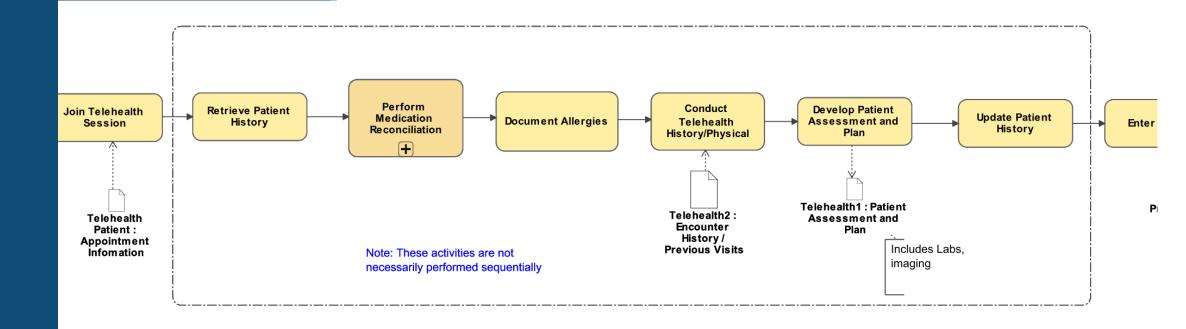
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#### Message Flow

Help hide details and focus attention on the "Collaboration"



#### Association



# Swimlanes

#### Pools and Lanes

A <u>Pool</u> is a graphical container used to represent the involvement of different organizational entities or participants in a business process.

Pools provide a high-level view of how multiple participants interact and collaborate to execute the process.

In essence, a pool represents a swim lane in a BPMN diagram. Swim lanes are used to visually separate and categorize activities or tasks based on the participant responsible for their execution.

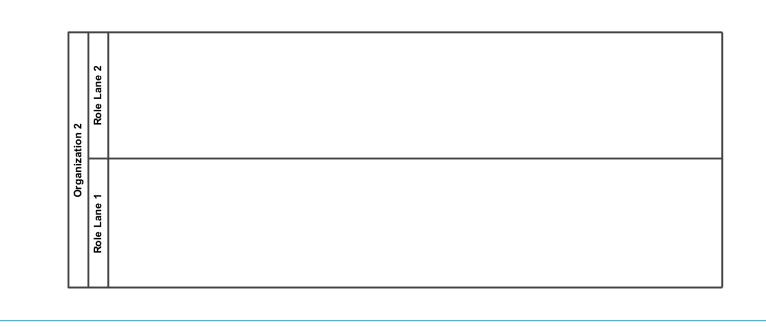
Each pool represents a specific participant or organizational entity involved in the business process. Participants can be individuals, departments, teams, organizations, or even external entities such as suppliers or customers.

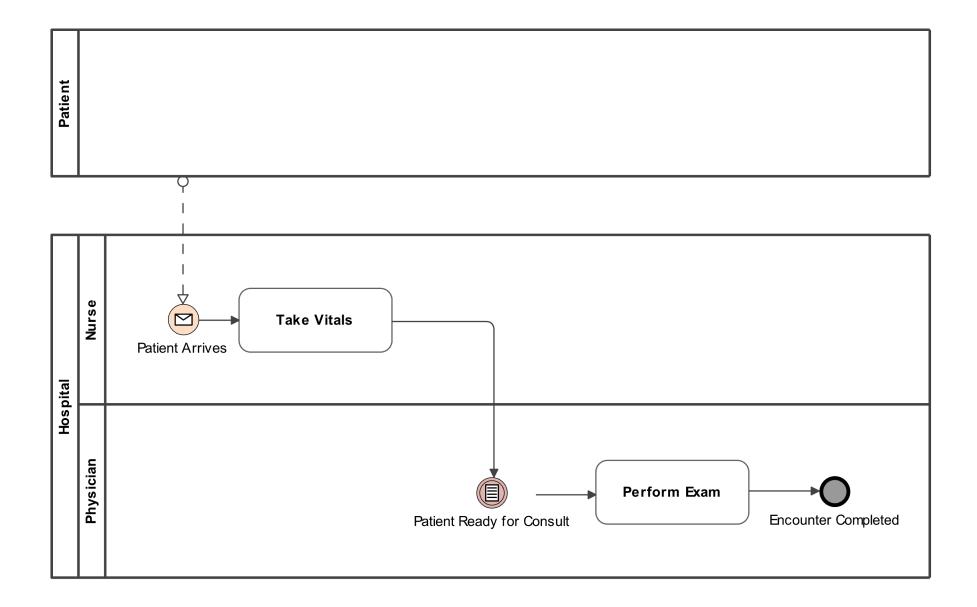
Inside each pool, there can be one or more <u>lanes</u>. <u>Lanes</u> are used to further divide the process into subcategories or functional areas, assigning specific tasks or activities to different subgroups within the participant

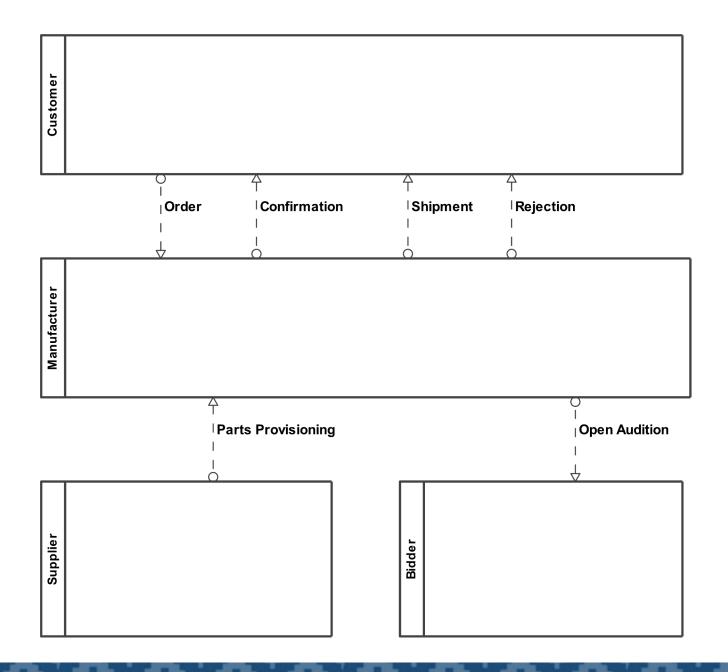
#### Single Pool: Represents an Entity in a Process

Organization 1			

**Single Pool with Two Lanes**: Lanes Represent a Role Played in the Process





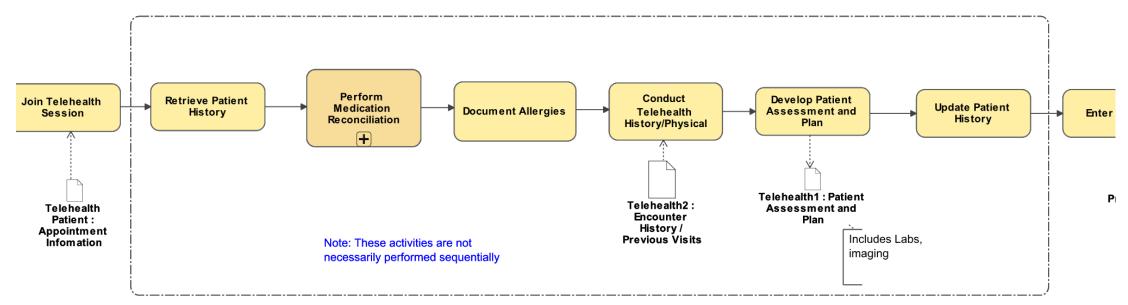


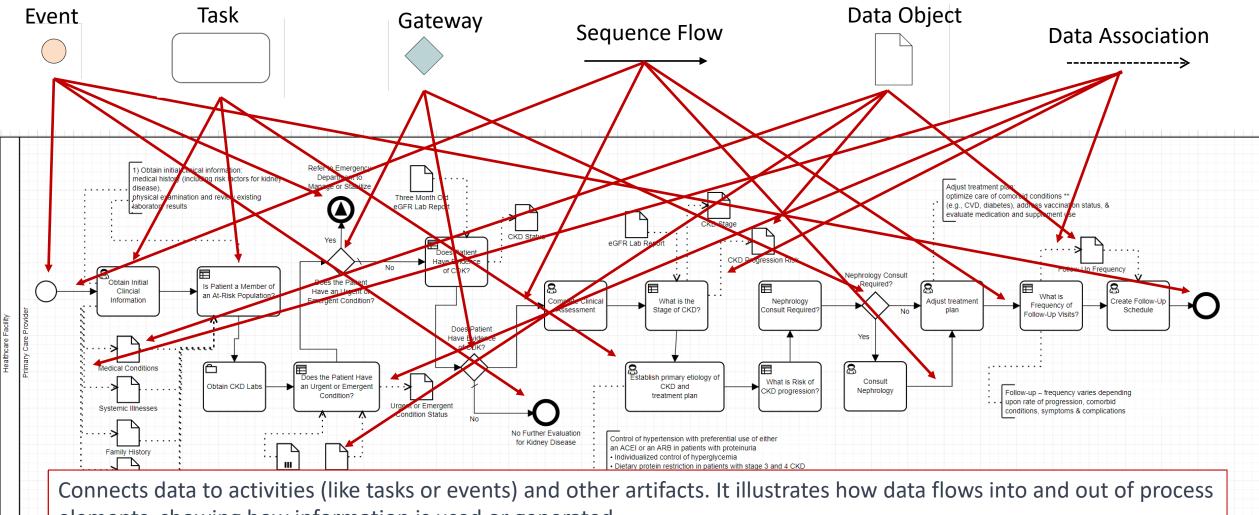
### Artifacts

**Data Object:** Represent information flowing through the process, showing how data is required or produced by activities. They provide a clear understanding of what data is consumed or generated within a specific task or process.

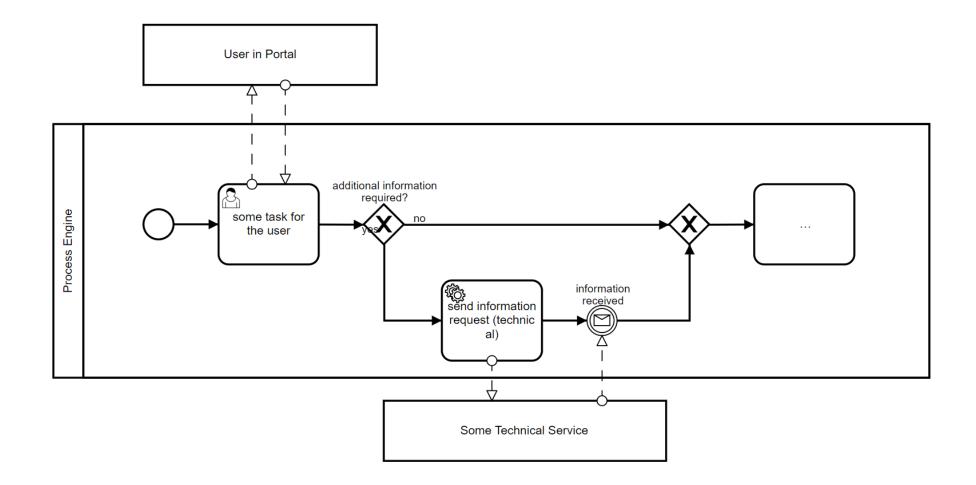
Annotation: Optional labeling to explain the type, format, or usage of the data.

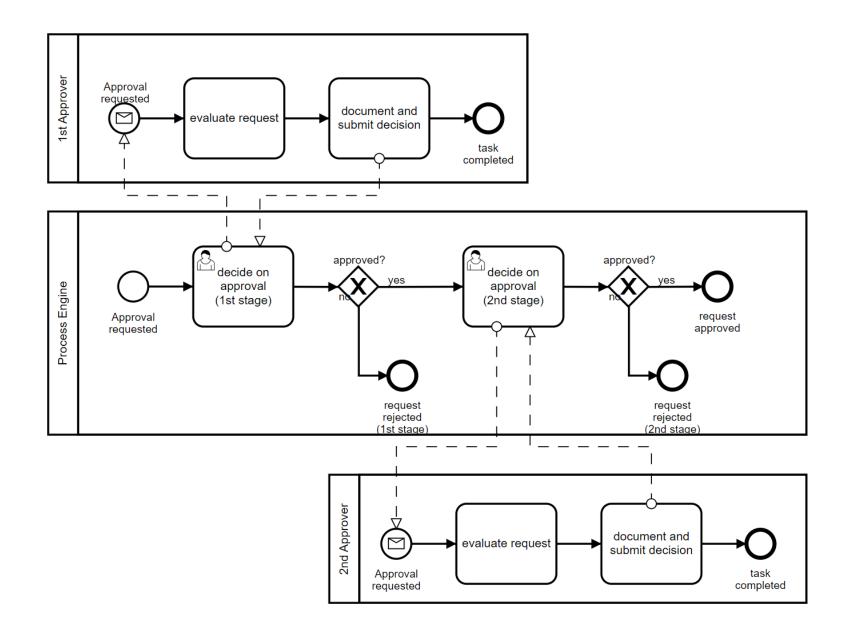
**Group:** Visual mechanism used to categorize and document parts of a process diagram. It doesn't affect the flow or behavior of the process but adds clarity and understanding.





elements, showing how information is used or generated.

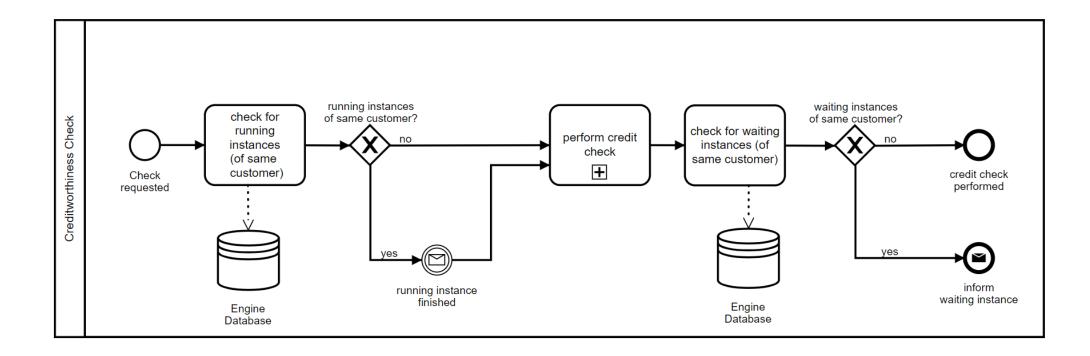




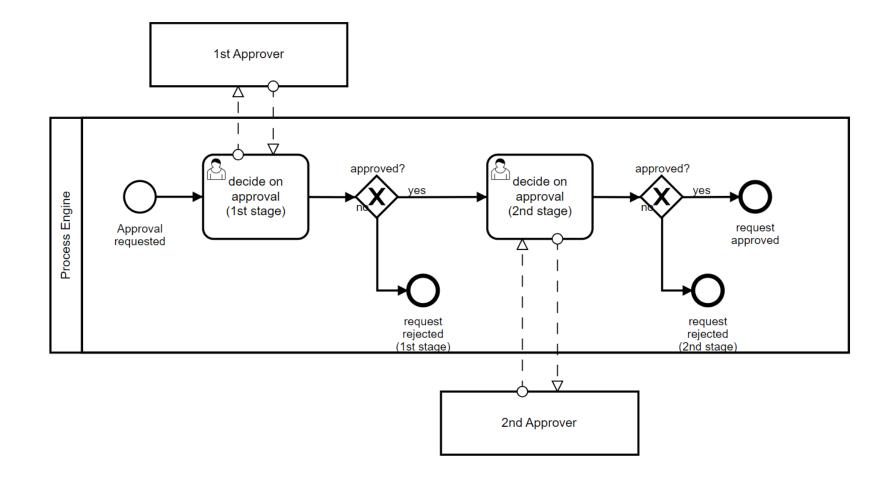
We want to model the following situation using BPMN 2.0. For a request (e.g., a payment) two approvals of two different people are needed. A Process Engine should ensure that both approvals are fulfilled before the request is approved. The manual steps that are performed by the two approvers should also be modeled in the BPMN diagram. The approval decision is performed using a portal with a Tasklist.

#### **The Use Cases**

The use cases for this pattern are numerous. Here are some examples: •Payment Approval •Invoice Approval •Contract Approval



This solution is a bit more complex, since you need to determine the recipient (a single instance) of the message. That induces a second data request before the end of the instance. However, this is the correct way to solve the problem that occurs in the signal event solution.

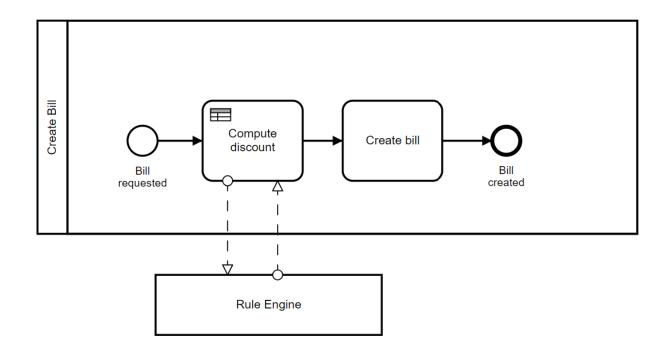


We will use the example of creating a bill. To create the bill, a discount needs to be computed. The sum of the order and the customer type are the relevant criteria to compute the discount.

Sum of order? < 500 Create bill Bill Bill created requested customer type? 500 -Compute 2% 999 add an extra 1% Type A discount discount ordinary Create Bill customer type? 1000 -Compute 3% 1500 Type A add an extra 19 discount discount ordinary customer type? Compute 4% add an extra 1% >2000 Type A discount discount ordinary

This is a very simple example that will show us where to apply BPMN and where not

to.



# **Indian Health Service** Questions & Discussion

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ROBERT LARIO, PH.D., MSE, MBA IHS BUSINESS PROCESS MODELING CONSULTANT



### More Information about BPMN

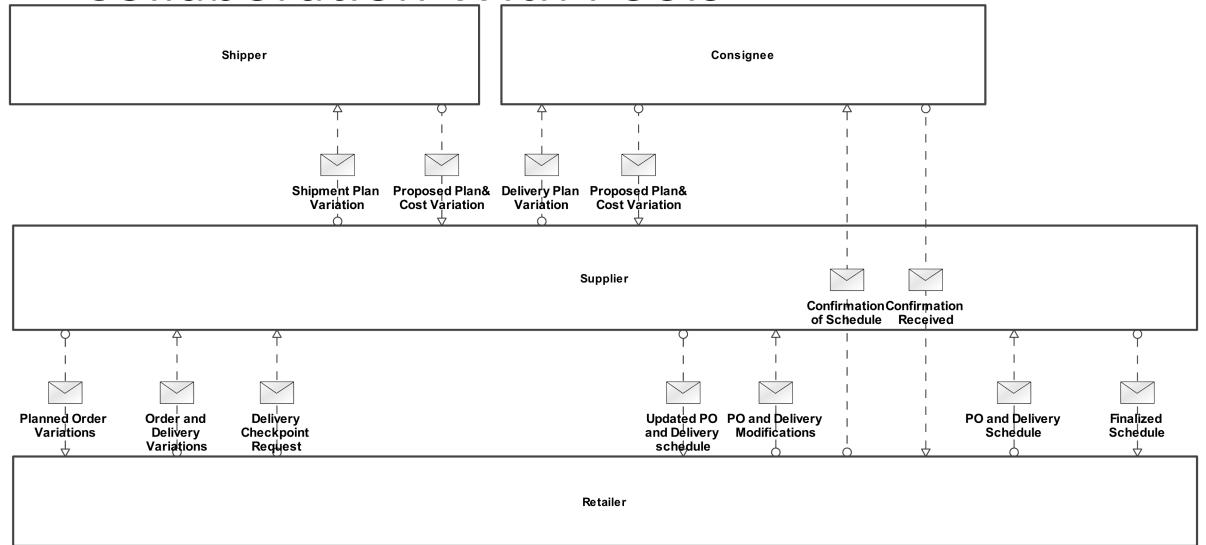
# OMG's Business Process Model and Notation Specification

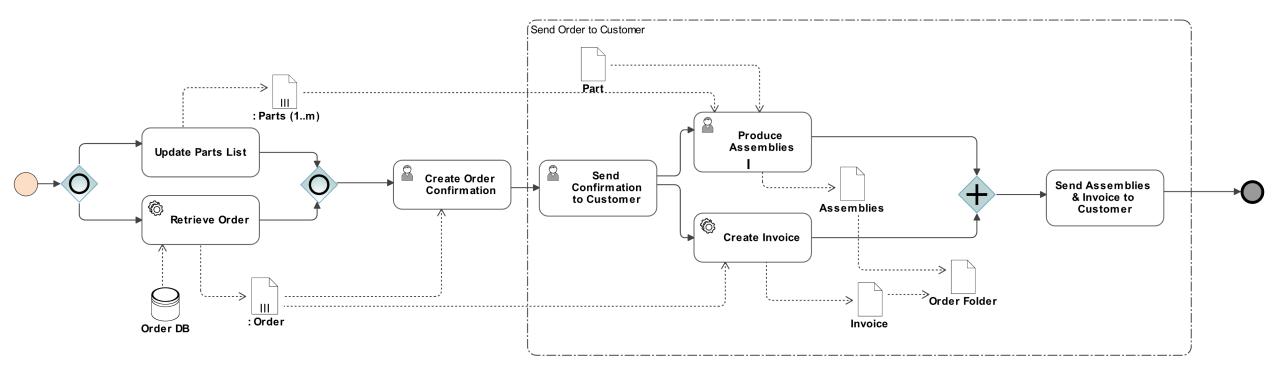
www.omg.org/spec/BPMN/2.0.2/PDF

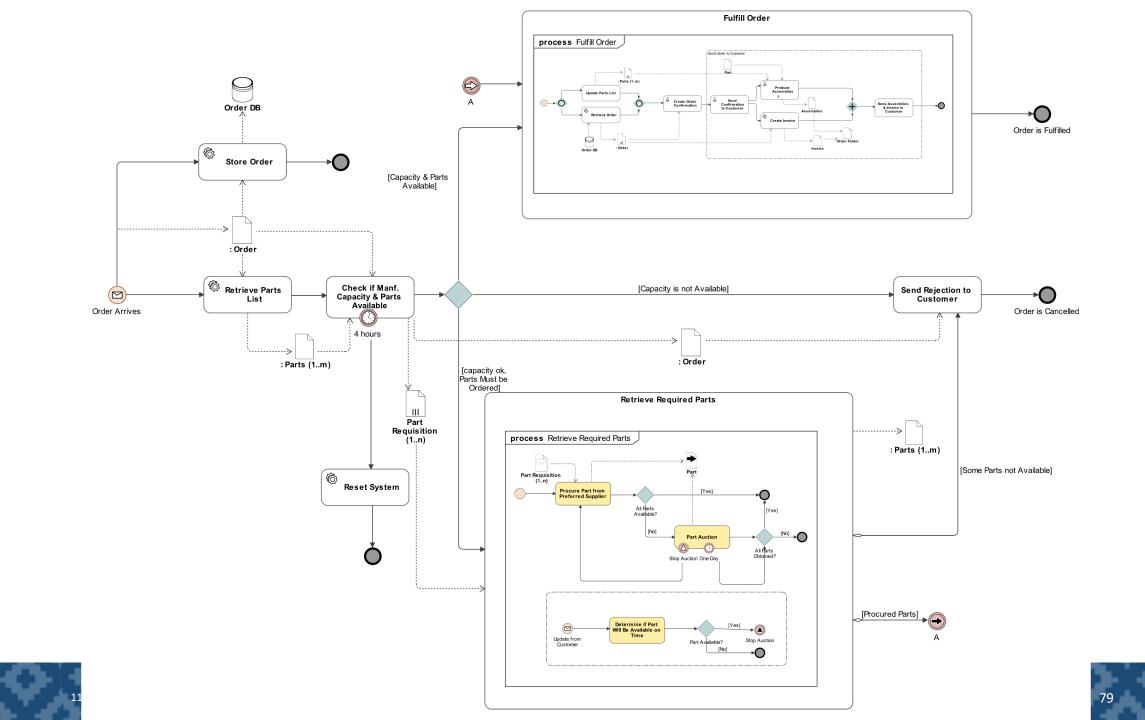


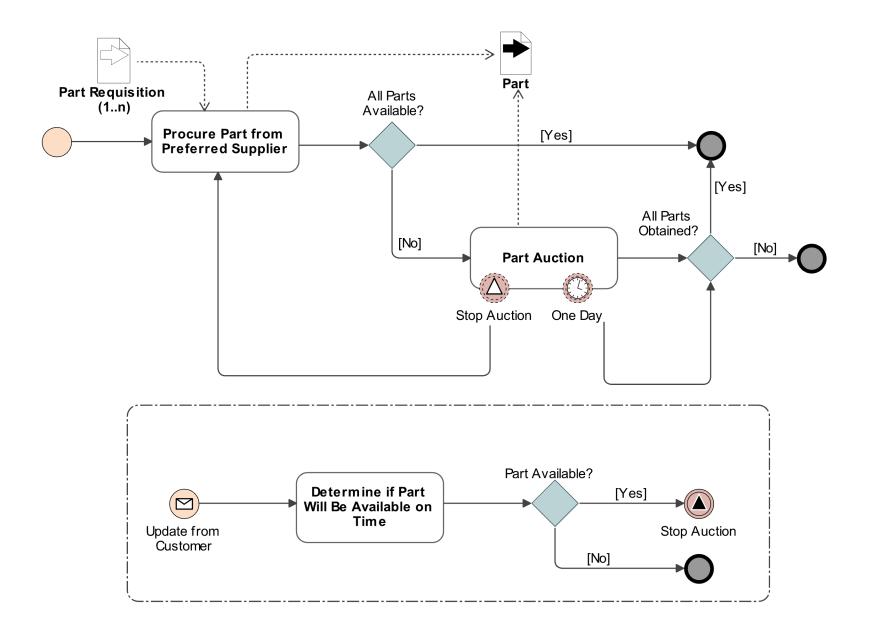
Source: Dassault Systems - Cameo Enterprise Architect Version 19 Example

### **Collaboration With Pools**

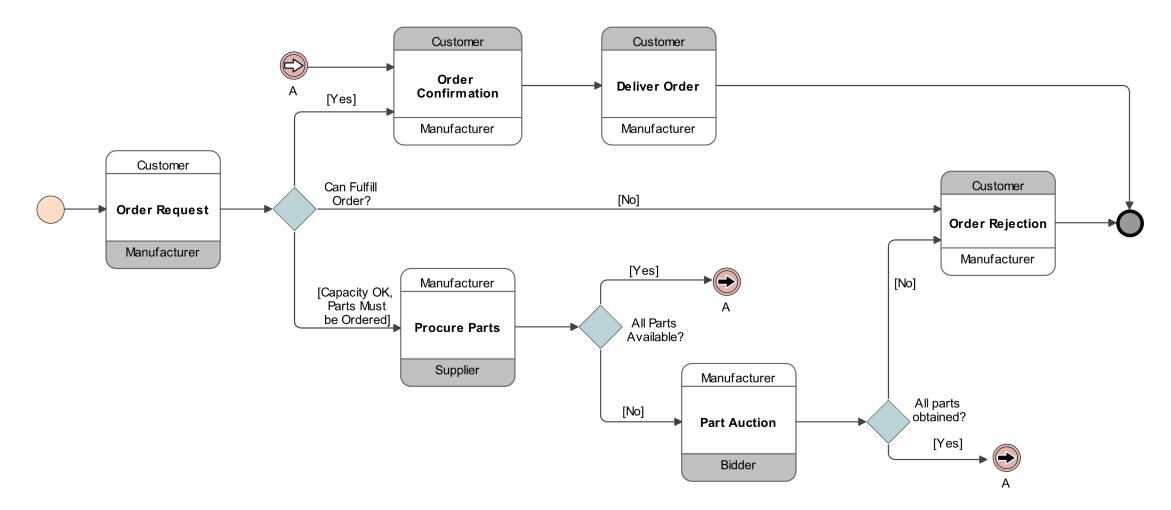








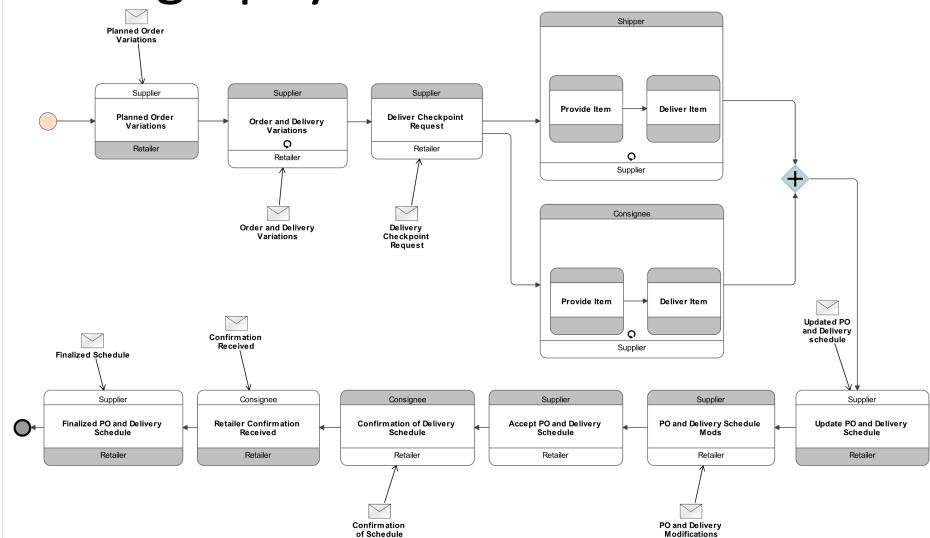
## Choreography



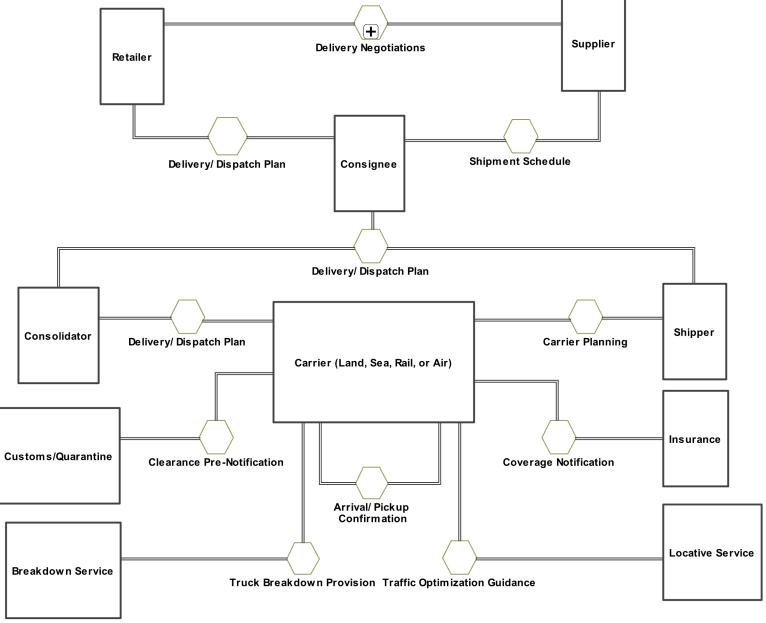
Source: Dassault Systems - Cameo Enterprise Architect Version 19 Example

#### Source: Dassault Systems - Cameo Enterprise Architect Version 19 Example

## Choreography



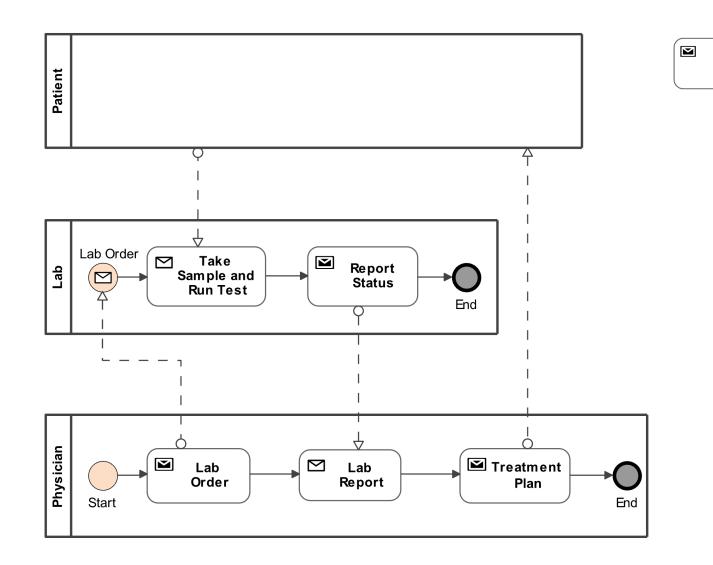
### Conversation



Source: Dassault Systems - Cameo Enterprise Architect Version 19 Example

### Send Task

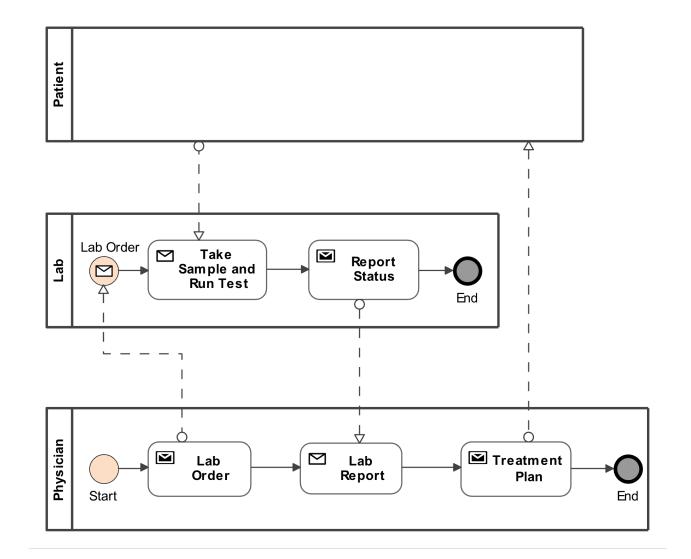
User Task requires human interaction or intervention.



11/12/23

### Receive Task

User Task requires human interaction or intervention.



 $\square$