

# IBM Cloud Pak for Business Automation Demos and Labs - Fall 2021

## IBM Process Mining

### Using BPMN Process Diagrams from IBM Blueworks Live in IBM Process Mining

V 3.0

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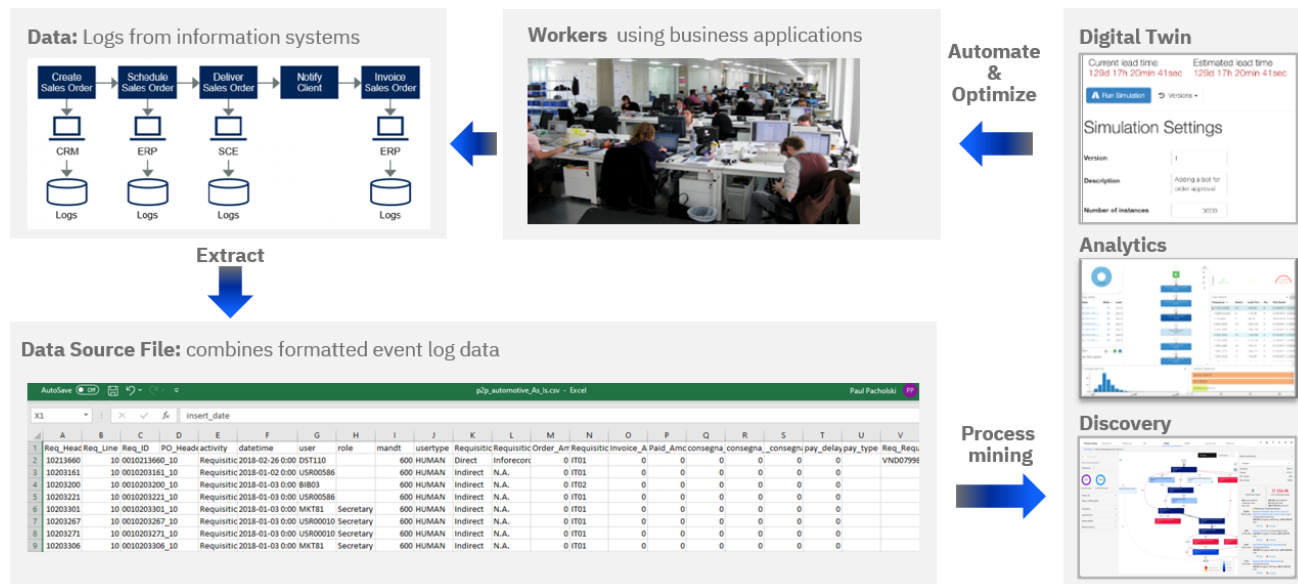
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# 1 Introduction

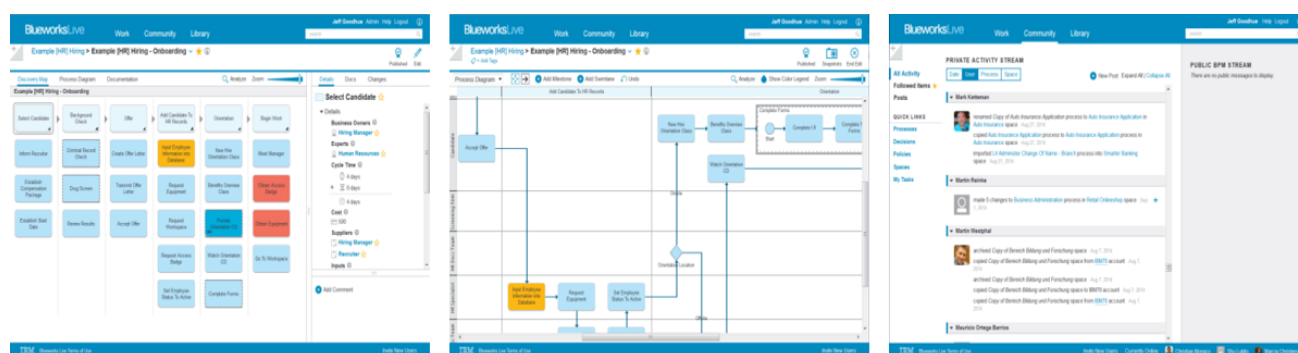
## 1.1 IBM Process Mining

IBM Process Mining supports the analysis of real business processes based on event logs. During process mining, specialized data mining algorithms are applied to identify trends, patterns, and details contained in event logs recorded by an information system. Process mining aims to improve process efficiency and understanding of processes.



## 1.2 IBM Blueworks Live

IBM Blueworks Live is a cloud-based software that provides a dedicated, collaborative anywhere environment to build and improve business processes through process mapping. It enables teams to work together through an intuitive and easily accessible web interface to document and analyze processes to help make them more efficient.

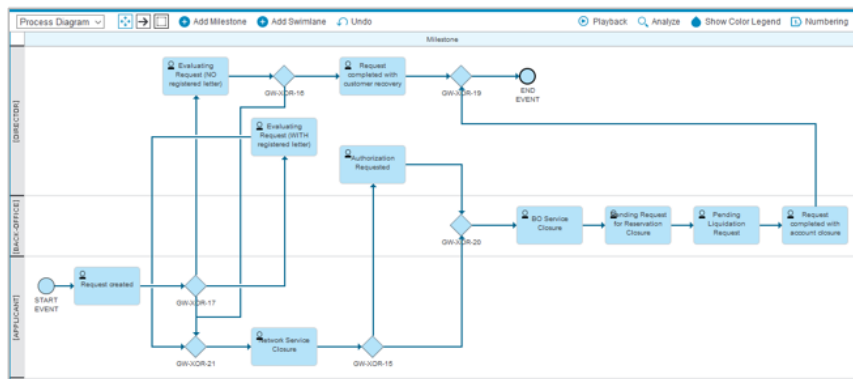


### 1.3 Process Modeling and Process Mining Working Together

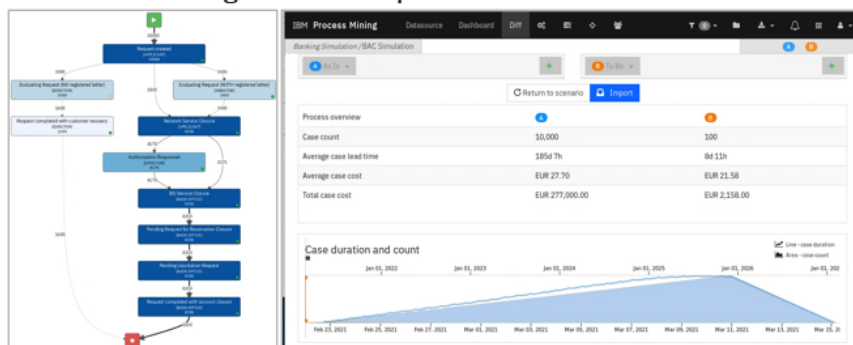
While IBM Blueworks Live supports all aspects of process modeling, it provides no simulation capabilities. On the other hand, IBM Process Mining provides simulation capabilities useful to establish ROI associated with automation initiatives, but it does not provide in process modeling and process discovery capabilities.

In this lab you will learn how to leverage IBM Process Mining to run process simulations of BPMN processes modelled in IBM Blueworks Live.

## IBM Blueworks Live – Process Modelling



## IBM Process Mining – Process Improvement

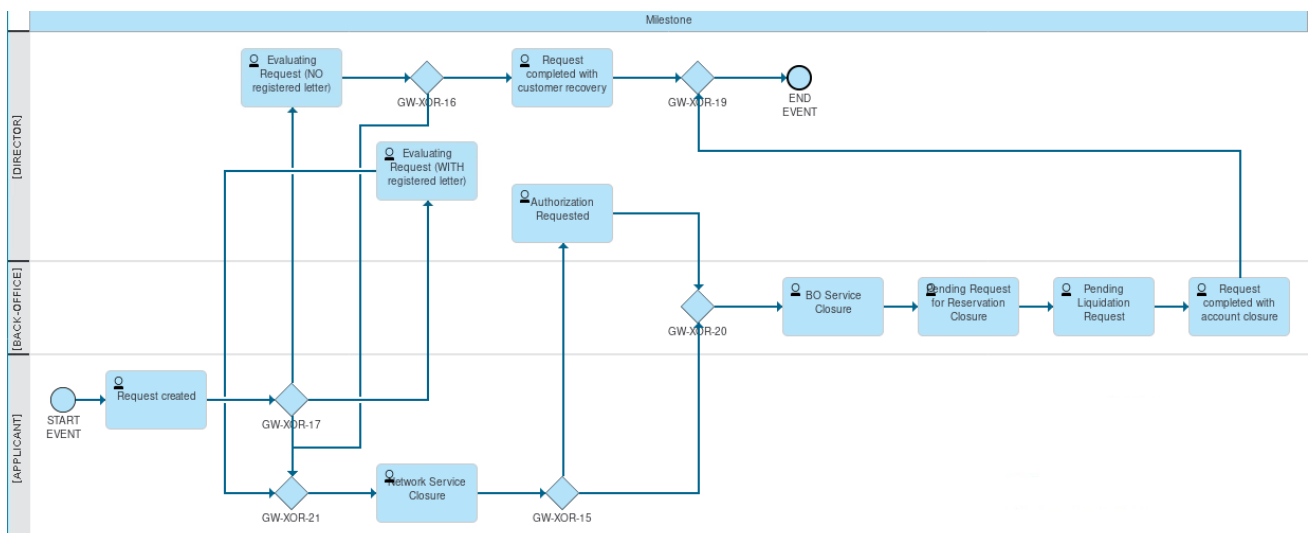


Typically, to engage in process mining activities complete logs from all systems are required. Extraction and preparation of such logs is a costly and time-consuming activity and is a significant entry barrier for organizations to benefit from process mining tools such as IBM Process Mining.

In this lab you will learn how IBM Process Mining tool can generate event data required for most process mining tasks that do not require business data beyond the basic process data such as Activity Wait Times, Teams, Users, etc.

### 1.3.1 Business Scenario

The business scenario used in this lab is a simplified Bank Account Closing scenario. It includes three swimlanes corresponding to Roles and ten activities.



## 1.4 How to Prepare IBM Blueworks Live Process?

**You do not need to perform any labs steps in this section and its subsections.**

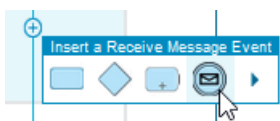
The purpose of this section is to outline the technical requirements and steps needed to generate a well behaved BPMN process diagram that works well with IBM Process Mining.

The Bank Account Opening process used in this lab was already created for you and exported so you do not need to build it in IBM Blueworks Live. If you want to examine the process used in this lab you can import it to IBM Blueworks Live using the *Banking Account Closure.zip* (see download instructions in **2.1 Import Lab Files** section)

### 1.4.1 Basic Requirements

The process model must **not** include the following BPMN Modelling Elements

- Message Events



- Subprocesses



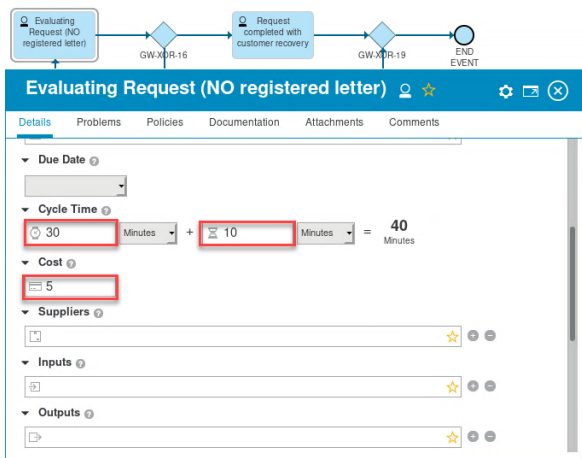
- Multiple links lead out an activity



The following above settings, will be used by Simulation feature in IBM Process Mining.

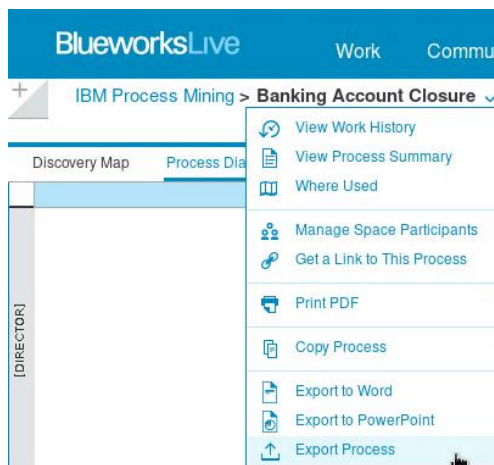
### 1.4.2 Process Mining Simulation Parameters

For each activity in the process there are three attributes that can be set for use in IBM Process Mining simulations: (i) Work time, (ii) Wait time, (iii) Cost.

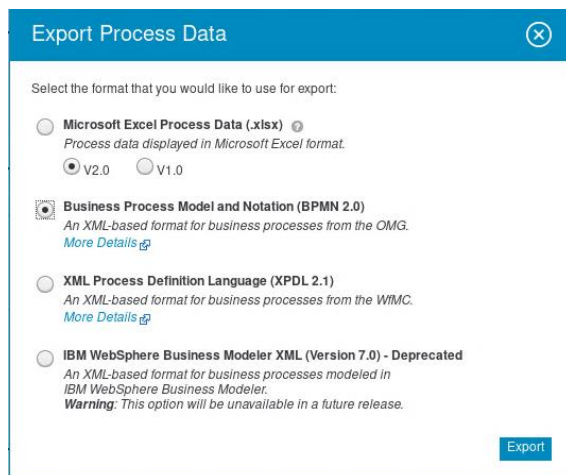


### 1.4.3 Exporting Process from IBM Blueworks Live

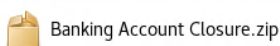
\_1. Use standard BWL Process Export.



\_2. Select **BPMN 2.0**

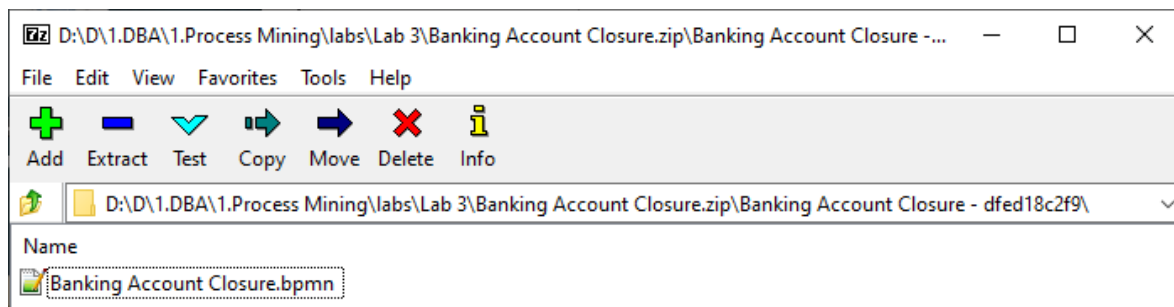


This will create a zip file.



Note you will not be able to import this zip file directly to IBM Process Mining. You will need to extract the BPMN file first.

\_3. To extract the BPMN file, open the exported zip file, navigate to the BPMN file and extract it from the zip file.



## 2 Lab Setup

### 2.1 Import Lab Files

Download the following files, you will them in this lab:

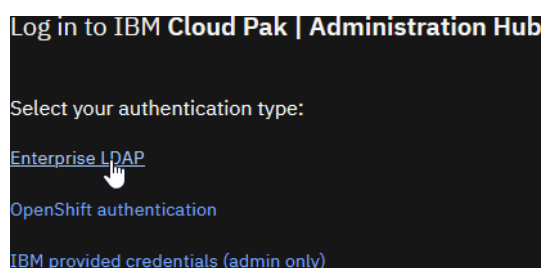
File	Link
Banking Account Closure.bpmn	<a href="https://ibm.box.com/v/PM-LAB-3-BPMN">https://ibm.box.com/v/PM-LAB-3-BPMN</a>
Banking Account Closure.zip	<a href="https://ibm.box.com/v/PM-LAB-3-BWL-IMPORT">https://ibm.box.com/v/PM-LAB-3-BWL-IMPORT</a>

### 2.2 Open IBM Process Mining Application

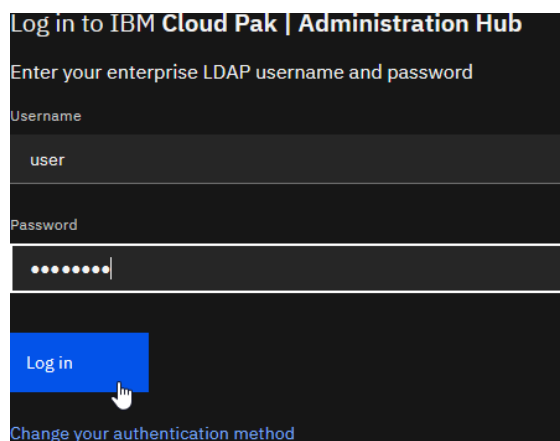
If you are performing this lab as a part of an IBM event, access the document that lists the available systems and URLs along with login instructions. For this lab, you will need to access **IBM Automation Studio**.

\_1. Start your browser and use the **IBM Automation Studio** link

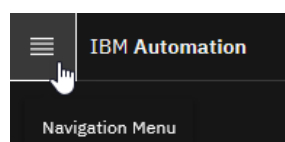
\_2. Click **Enterprise LDAP**



\_3. Enter your username and password and then click **Log in**

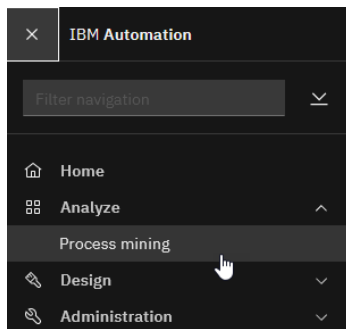


\_4. Click **Navigation Menu**

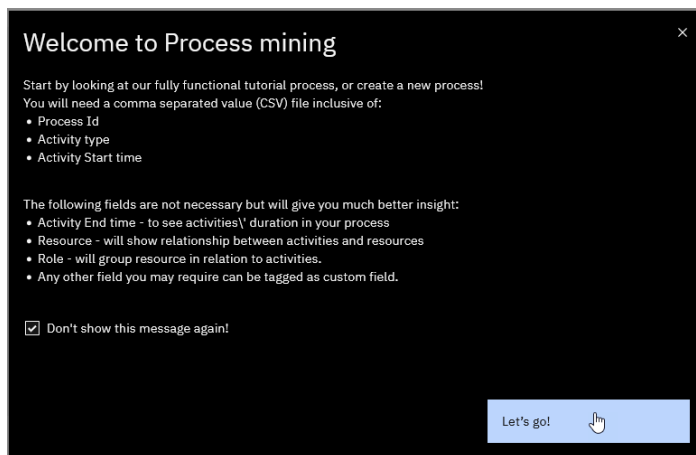




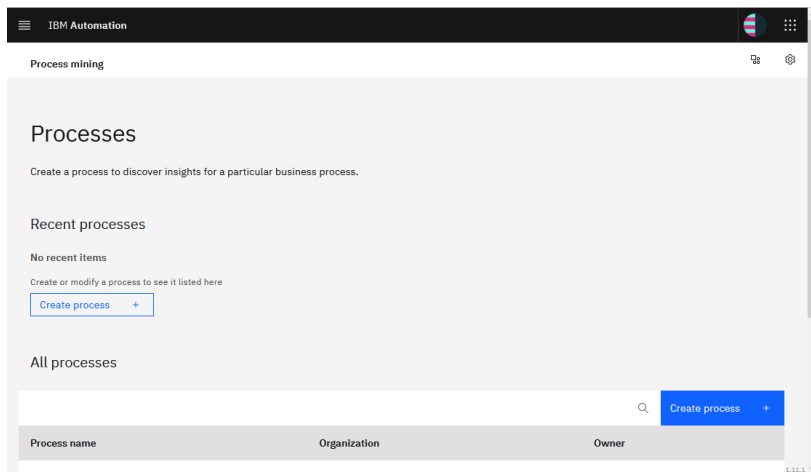
## \_5. Select **Process mining**



## \_6. If you see the Welcome window, check **Don't show this message again** check box and click **Let's go!**



You should now see IBM Process Mining web UI

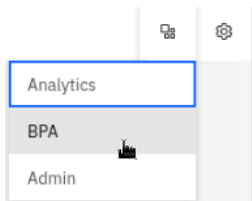


## 3 Lab Instructions

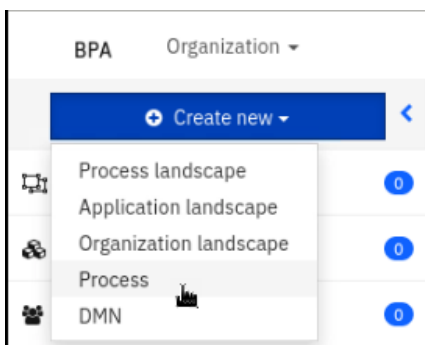
### 3.1 Create BPMN Process

You will now use the BPMN file extracted from the IBM Blueworks Live process export file to create BPMN process in IBM Process Mining.

\_1. Click in **3-3 grid** and then select **BPA**



\_2. Select **+ Create New > Process**



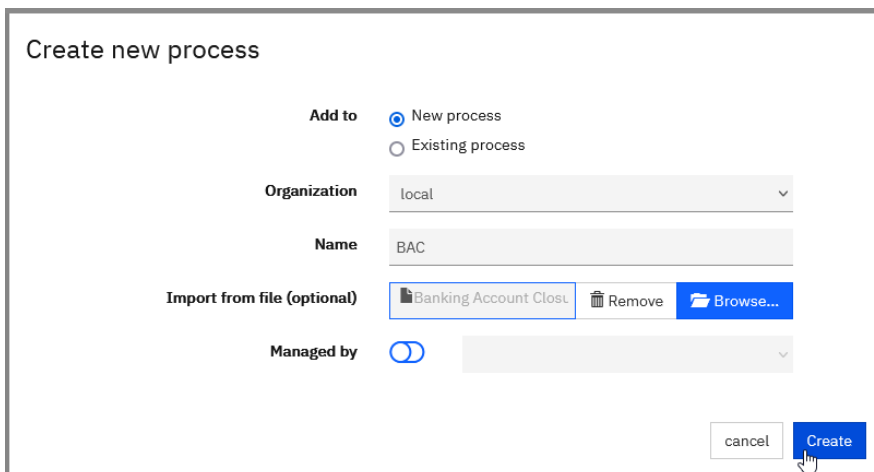
\_3. Enter the following and then click **Create**

*Add to* - select **New Process**

*Organization* - select **local**

*Name* - enter **BAC**

*Import from file (optional)* - select **Banking Account Closure.bpmn** file

A screenshot of the 'Create new process' form in the IBM Blueworks Live interface. The form has the following fields and options:

- Add to**: Two radio buttons, 'New process' (selected) and 'Existing process'.
- Organization**: A dropdown menu with 'local' selected.
- Name**: A text input field with 'BAC' entered.
- Import from file (optional)**: A section with a file input field containing 'Banking Account Closu', a 'Remove' button, and a 'Browse...' button.
- Managed by**: A section with a blue 'ON' toggle switch and a dropdown menu.
- Buttons**: 'cancel' and 'Create' buttons at the bottom right.

You should now see the BPMN diagram equivalent to the BWL process diagram

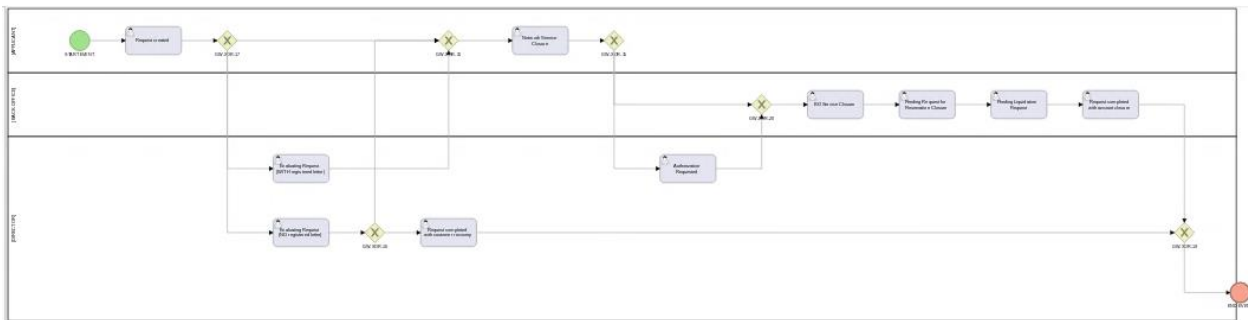


Figure 1. IBM Process Mining

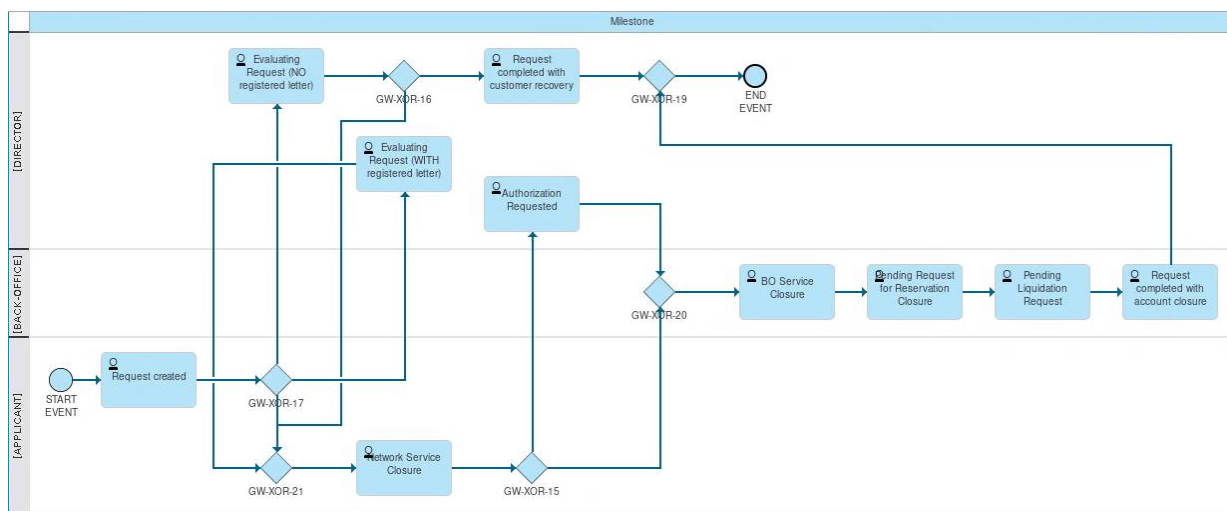


Figure 2. IBM Blueworks Live

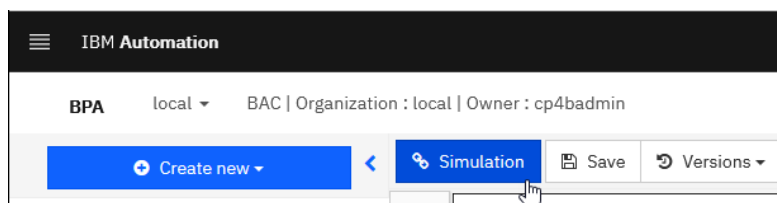
## 3.2 Initialize and Run Simulation

In this part of the lab you will review and initialize missing simulation parameters. Then you will run a simulation to generate Process events used by IBM Process Mining to create a Project.

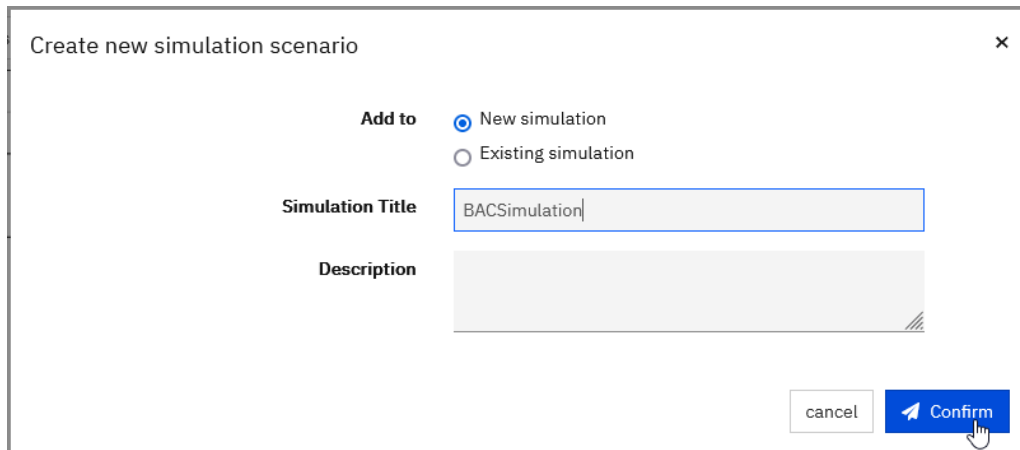
The Project created from the simulated events can be used to gain business insights and to discover automation opportunities for improvement of the process you modeled in IBM Blueworks Live.

### 3.2.1 Create a Simulation

\_1. Click **Simulation** button

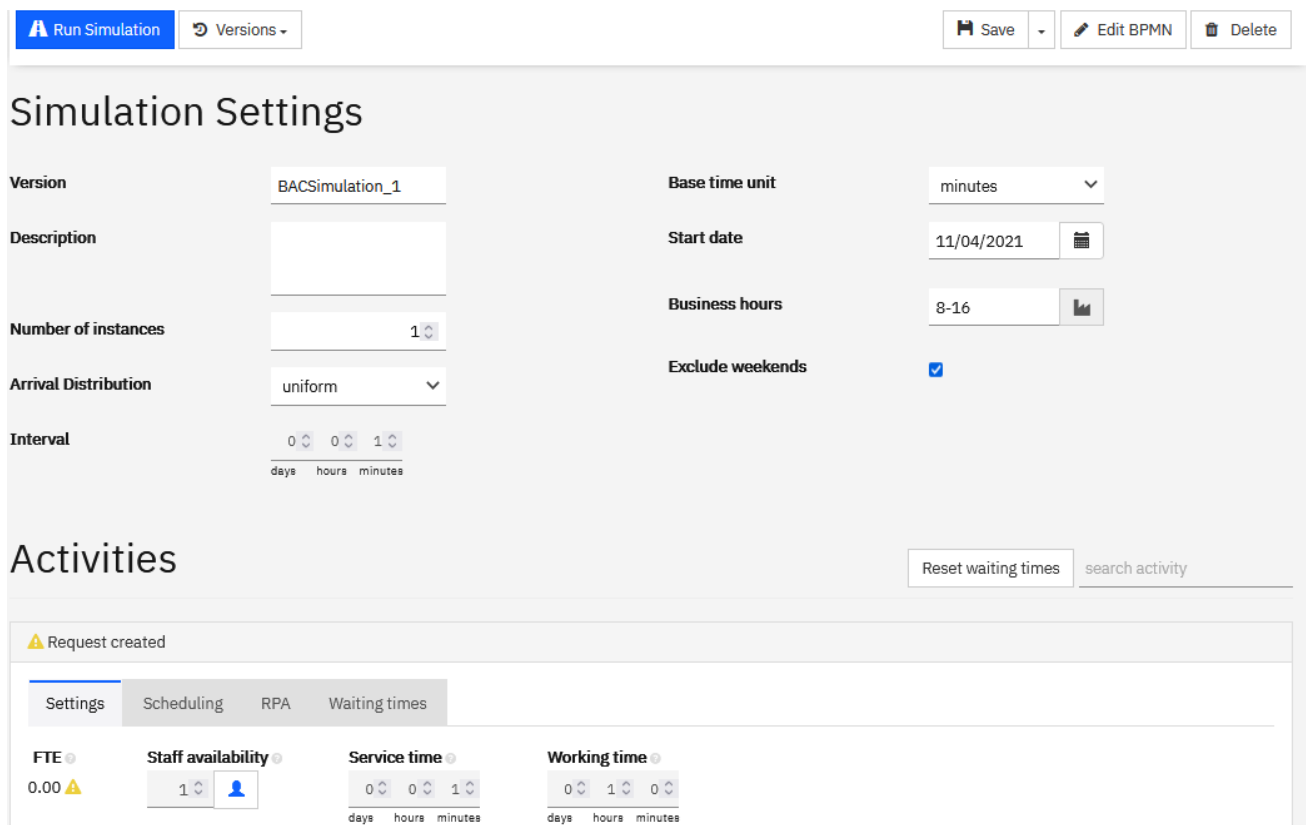


\_2. On Create new simulation scenario window for Simulation Title enter **BACSimulation** and then click **Confirm**



The dialog box titled "Create new simulation scenario" has a close button (X) in the top right corner. It contains two radio buttons under the "Add to" label: "New simulation" (selected) and "Existing simulation". Below this is a text field for "Simulation Title" containing the text "BACSimulation". Underneath is a larger text area for "Description". At the bottom right are two buttons: "cancel" and "Confirm". A mouse cursor is pointing at the "Confirm" button.

You should now see the new BACSimulation simulation



The interface shows the "Simulation Settings" section with various configuration options. On the left, there are tabs for "Run Simulation" and "Versions". On the right, there are buttons for "Save", "Edit BPMN", and "Delete". The "Simulation Settings" section includes fields for "Version" (BACSimulation\_1), "Description", "Number of instances" (1), "Arrival Distribution" (uniform), "Interval" (0 days, 0 hours, 1 minute), "Base time unit" (minutes), "Start date" (11/04/2021), "Business hours" (8-16), and "Exclude weekends" (checked). Below this is the "Activities" section, which includes a "Reset waiting times" button and a "search activity" input field. A notification bar at the top of the activities section says "Request created". At the bottom, there are tabs for "Settings", "Scheduling", "RPA", and "Waiting times". The "Settings" tab is active, showing "FTE" (0.00), "Staff availability" (1 person icon), "Service time" (0 days, 0 hours, 1 minute), and "Working time" (0 days, 1 hour, 0 minutes).

You will now be changing Activities and Gateway settings....

## 3.2.2 Initialize Simulation Parameters – Service Time

### 3.2.2.1 Why do we need to change Service Time?

The BPMN import transformation maps the **Work Time (30)** to **Working time (30)** but does not use **Wait time (10)**.

See the diagram below:

The screenshot shows the 'Evaluating Request (NO registered letter)' process configuration. The 'Cycle Time' is set to 30 minutes, and the 'Working time' is set to 30 minutes. A red dotted line connects the '30' in the 'Cycle Time' field to the '30' in the 'Working time' field.

To make the simulation more accurate you will need to set **Service time** (in IBM Process Mining) to the sum of **Work Time** and **Wait Time** (from IBM Blueworks Live) as shown below:

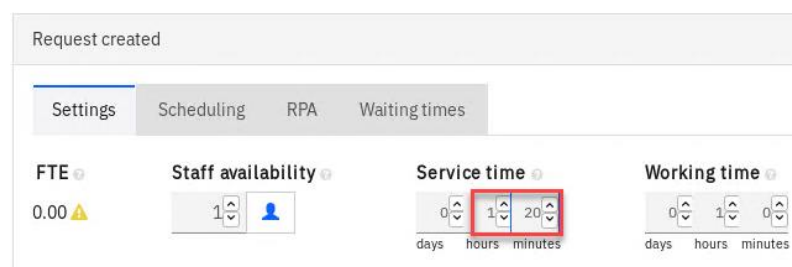
The screenshot shows the 'Evaluating Request (NO registered letter)' process configuration. The 'Service time' is set to 40 minutes, and the 'Working time' is set to 30 minutes. A red box highlights the '40' in the 'Service time' field.

### 3.2.2.2 Change Service Time

Use the table below to set **Service time** for all activities:

Activity	Service time
Request created	1 hour 20 min
Evaluating Request (NO registered letter)	40 min
Evaluating Request (WITH registered letter)	47 min
Request completed with customer recovery	15 min
Network Service Closure	1 hour 33 min
Authorization Requested	23 min
BO Service Closure	52 min
Pending Request for Reservation Closure	22 min
Pending Liquidation Request	11 min
Request completed with account closure	14 min

For example, enter **1 hour 20** for **Request created**



Request created

Settings | **Scheduling** | RPA | Waiting times

FTE 0.00 ⚠

Staff availability 1 👤

**Service time** 0 days 1 hours 20 minutes

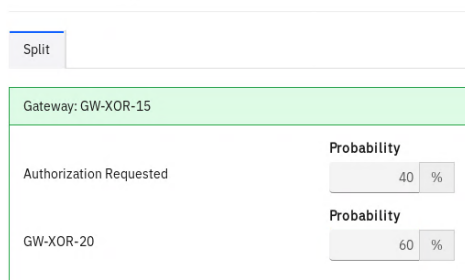
Working time 0 days 1 hours 0 minutes

### 3.2.3 Initialize Simulation Parameters – Gateway

Optionally you can also change the gateway flow distribution ratios.

\_1. For example for the first Gateway, you can change the default from 50/50 to **40/60**

Gateways



Split

Gateway: GW-XOR-15

Authorization Requested Probability 40 %

GW-XOR-20 Probability 60 %

### 3.2.4 Run Simulation and Create a Project

The Simulation Settings section contains nine parameters which you can adjust as required. In this lab we will accept all the defaults except for **Number of instances** parameter.

\_1. For *Number of instances* enter **1000**

This will generate 1000 instances and for each instance a variable number of Activity Events (enough events to complete a process instance).

## Simulation Settings

Version	BACSimulation_1
Description	
Number of instances	1000

\_2. Click **Run Simulation**



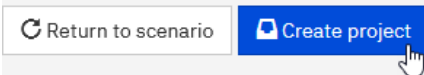
Note, the Simulation Engine generated 1000 process instances; generated Activity events for each Process instance and used the Execution and Wait time we set for each Activity.

Activity instances			
Name	Count	Avg Execution time	Avg Wait time
Authorization Requested	334	23min	3min
BO Service Closure	835	52min	7min
Evaluating Request (NO registered letter)	330	40min	10min
Evaluating Request (WITH registered letter)	330	47min	7min
Network Service Closure	835	1h 33min	125h 56min
Pending Liquidation Request	835	11min	1min
Pending Request for Reservation Closure	835	22min	12min
Request completed with account closure	835	14min	4min
Request completed with customer recovery	165	15min	5min
Request created	1000	1h 20min	491h 30min

\_3. Click **Create Project**

Process simulation results:

## BACSimulation\_1



#### \_4. Click **Confirm**

Create project with simulated data

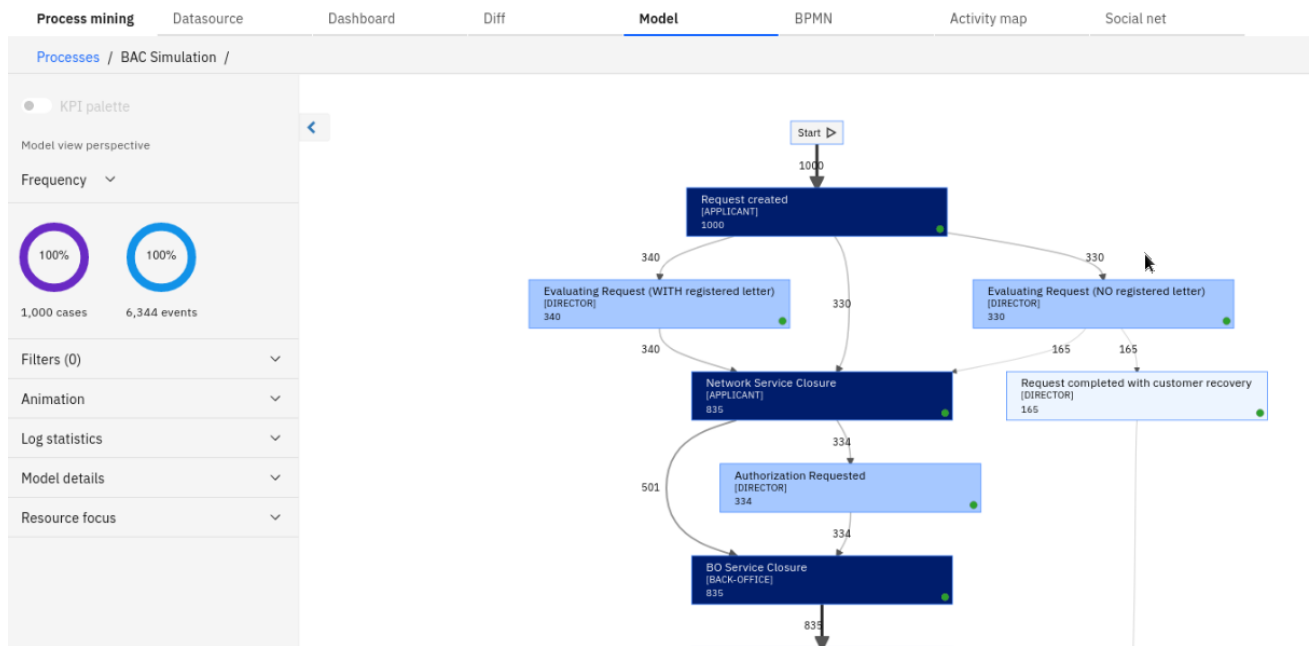
Project name

BACSimulation

cancel

Confirm

This will open BACSimulation Project in IBM Process Mining tool in the Model View.



### 3.3 Examine Generated Process Data

In this part of the lab we will examine what data was generated by the simulation engine.

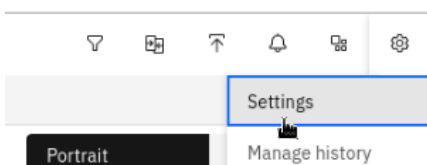
You will find that there is enough data to conduct meaningful process mining activities!

Note: If you want to learn how to IBM Process Mining capabilities try these labs:

<https://ibm.box.com/v/PROCESS-TASK-MINING-ENV-LABS>

#### 3.3.1 Activity cost

##### \_1. Click **Settings**





## \_2. Click **Activity costs** tab

Settings

KPI settings Project settings **Activity costs** Work time Resource costs Role costs End activities Simulation

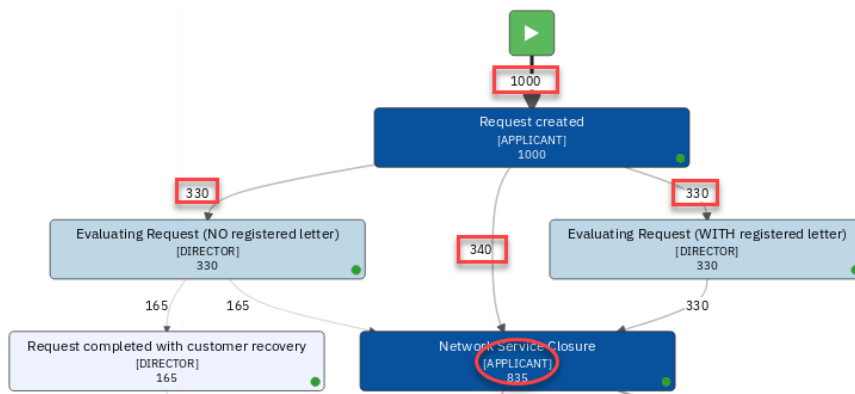
Note that the cost values came from the Activity Settings in IBM Blueworks Live

Profile	Value	Manual / Auto	End date
Authorization Requested	EUR 2.00	manual	
Evaluating Request (WITH registered letter)	EUR 2.00	manual	
BO Service Closure	EUR 10.00	manual	
Request completed with customer recovery	EUR 2.00	manual	
Request created	EUR 5.00	manual	
Evaluating Request (NO registered letter)	EUR 5.00	manual	
Pending Request for Reservation Closure	EUR 3.00	manual	
Request completed with account closure			
Pending Liquidation Request			
Network Service Closure			
Default			

## \_3. On Settings window click **Cancel**

### 3.3.2 Frequency View

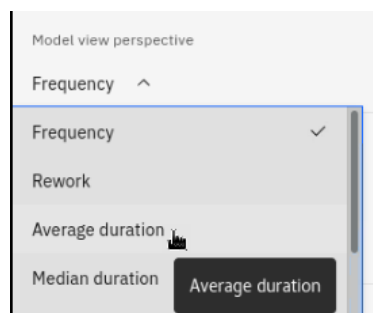


Note

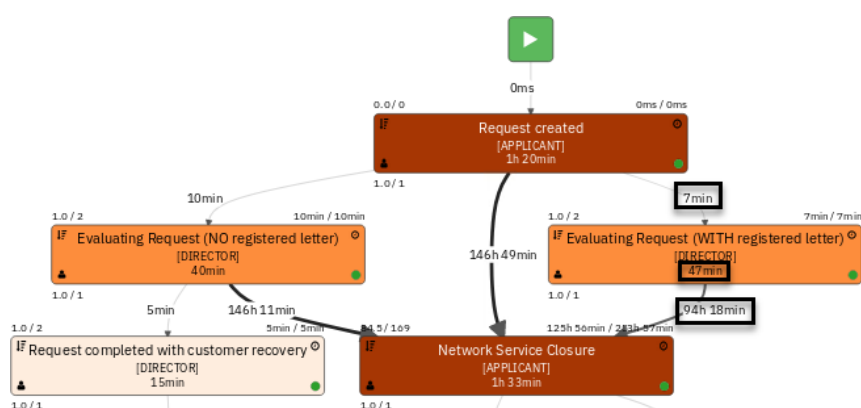
- The event frequency is shown on the links. Recall that we set the summation count to 1000 and the first gateway was set by default to be split evenly at 33%, 33%, 34%. Hence the even path distribution leading out of the first activity: 330, 340 and 330.
- The Role (.i.e. [APPLICANT]) is shown.! It comes from the swim-lane definitions in IBM Blueworks Live.

### 3.3.3 Duration View

#### \_1. Click **Average duration**



You should now see the Duration View.



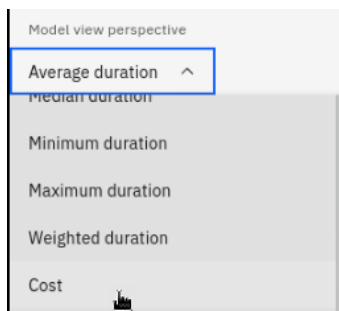
Note:

- Activity duration
- Wait times leading to activities
- Visual cues (arrow width and activity coloring) which are based on the KPI settings in project Settings.

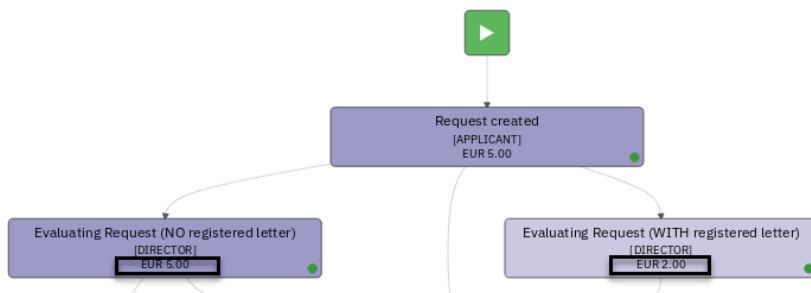
KPI settings	Project settings	Activity costs	Activity WT	Resource costs	Role costs	End Activities
<b>Case duration thresholds:</b>						
Between	1 days	and	8 days			
<b>Case cost thresholds:</b>						
Between	0 \$	and	0 \$			
<b>Activity:</b>						
Default				Reset all to default		
<b>Activity throughput thresholds:</b>						
Between	1 days	and	8 days			
<b>Activity wait queue thresholds:</b>						
Between	1 days	and	8 days			
<b>Activity duration thresholds:</b>						
Between	1 days	and	8 days			
<b>Resource allocation thresholds:</b>						
Between	33 %	and	66 %			

### 3.3.4 Cost View

#### \_1. Click **Cost**

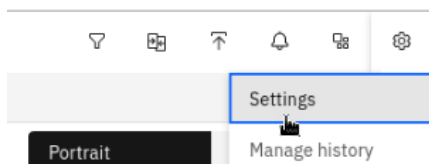


You should now see the Cost View

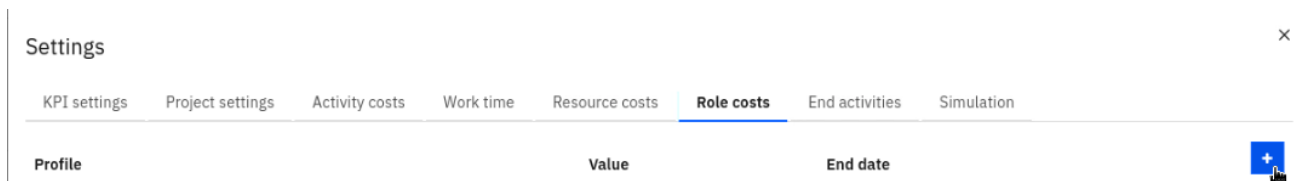


Notice that the role cost is not reflected.

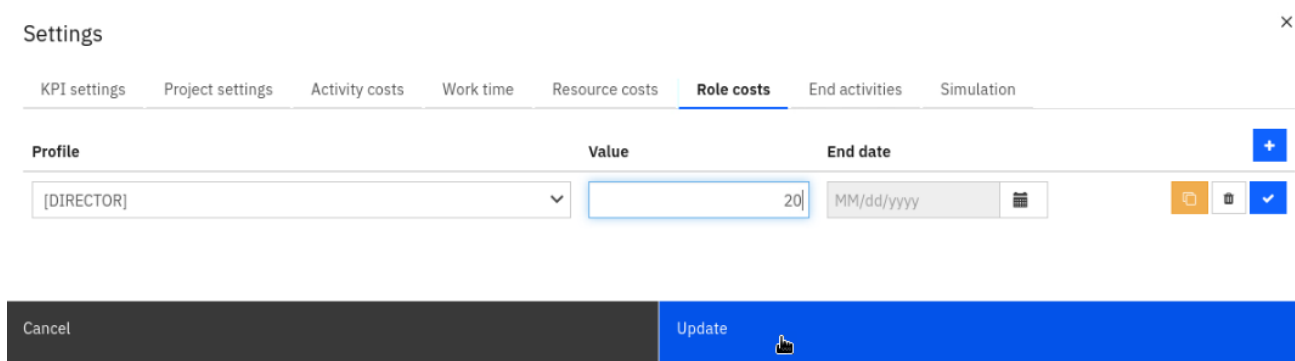
#### \_2. Click **Settings**



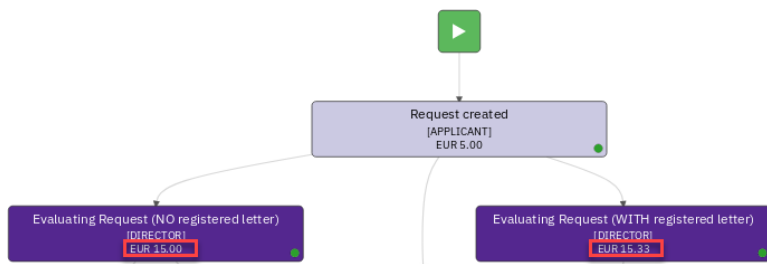
#### \_3. Click **Role cost** tab and click **+**



#### \_4. For Profile select **[DIRECTOR]**, for Value select **20** and then click **Update** button



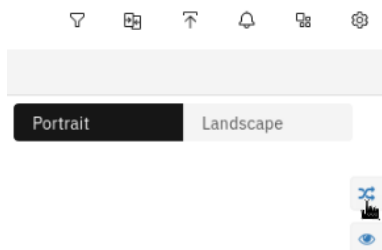
Note the changes of the [Director] role activities.



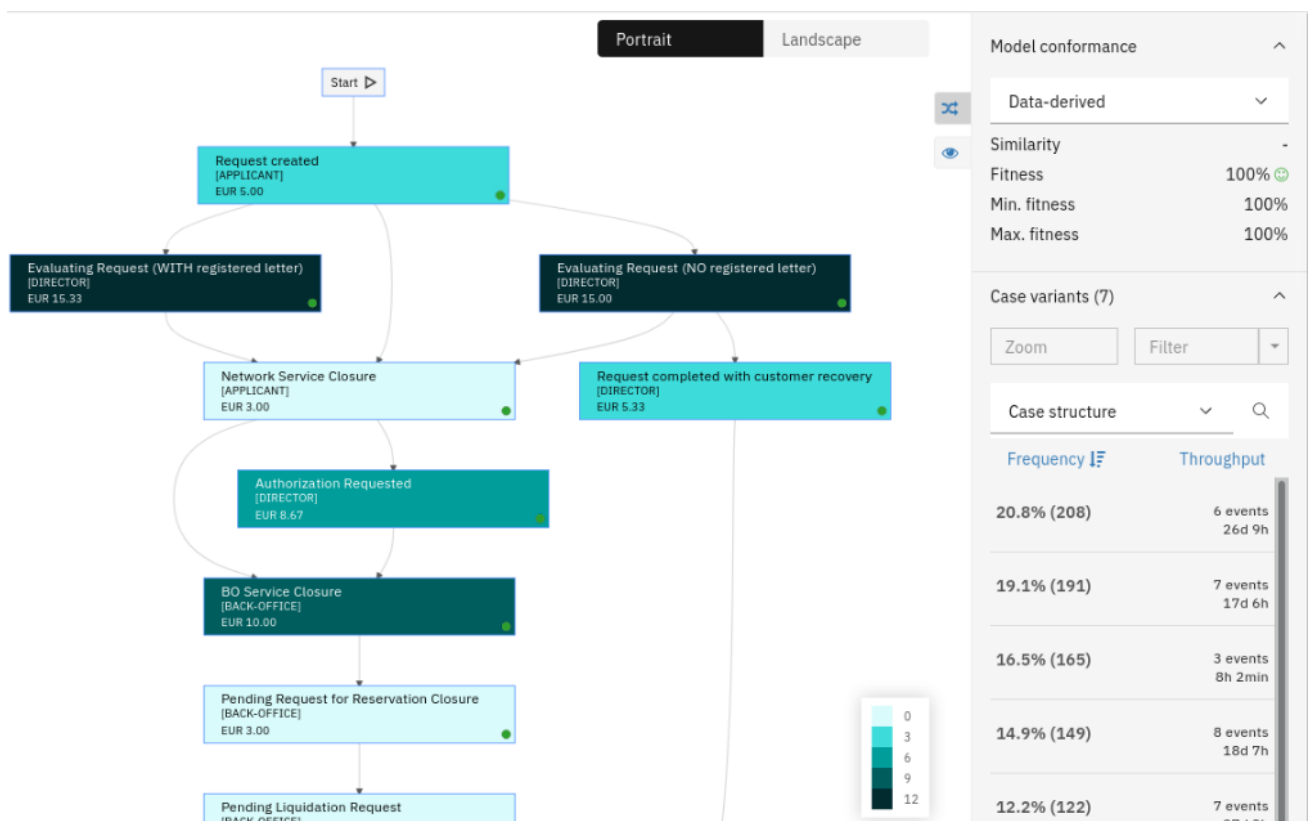
The cost is now more realistic, and the color has darkened to reflect cost values exceeding EUR 12.0.

### 3.3.5 Variants

\_1. Click **TWISTED-ARROWS** button



Notice that the simulation generated event data that resulted in distinct process path variants.

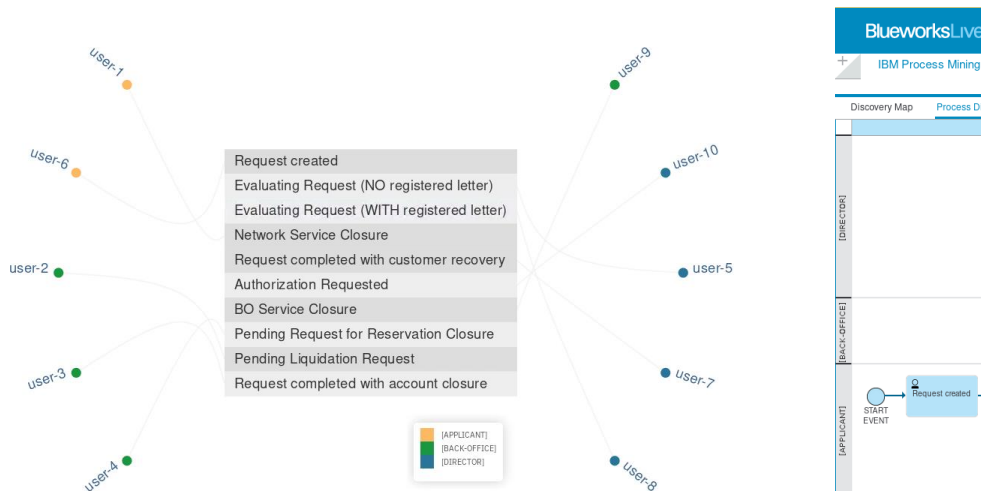


### 3.3.6 Social discovery capabilities

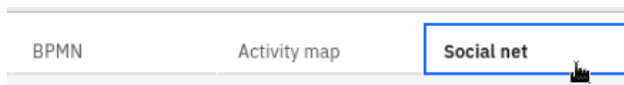
\_1. Click **Activity map** button



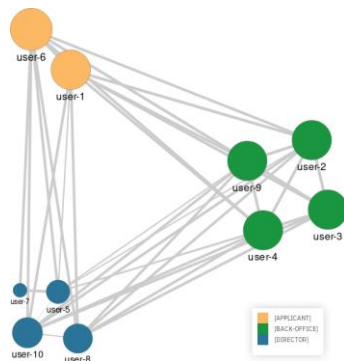
Note that the simulation engine created 10 users and associated them with the Roles. Recall that the Roles originated from swim-lanes in IBM Blueworks Live



\_2. Click **Social net** button



Note the user distribution in the social model.



### 3.4 Create Additional Events Using New Simulation Scenarios

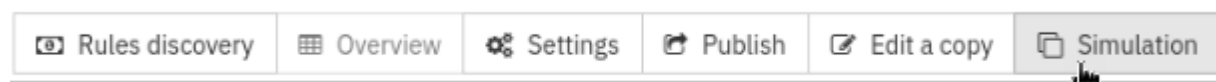
In this part of the lab you will learn how to add more data using different simulation settings.

#### 3.4.1 Create new Simulation Scenario

\_1. Click **BPMN** button



\_2. Click **Simulation** button



\_3. For Add to select **Existing simulation**; for Simulation Title select **BAC Simulation**; for Version Name enter **2**; and then click **Confirm** button.

Create new simulation scenario

×

Add to

☐ New simulation

☒ Existing simulation

Simulation title

BAC Simulation

▼

Version name

2

Description

Cancel

Confirm

#### 3.4.2 Change Simulation Scenario Parameters

Let's change some simulation parameters.

\_1. Change Number of instances to **1500**

Number of instances

1500

\_2. For all activities, change Staff availability from 1 to **10**

Settings

Scheduling

RPA

FTE

0.58

Staff availability

10

\_3. Change Gateway: GW-XOR-14 Probability to **20 and 80**

Gateway: GW-XOR-14	
GW-XOR-17	Probability 20 %
Authorization Requested	Probability 80 %

\_4. Change Gateway: GW-XOR-15 Probability to **50, 30 and 20**

Gateway: GW-XOR-15	
GW-XOR-18	Probability 50 %
Evaluating Request (WITH registered letter)	Probability 30 %
Evaluating Request (NO registered letter)	Probability 20 %

### 3.4.3 Introduce Automation

One of the activities will be partially automated by RPA bots. We will reduce the number of people available and add RPA Bots.

\_1. For Network Service Closure, change the Staff Availability to **1**

Network Service Closure   Avg throughput	
Settings	Scheduling RPA
FTE 1.11	Staff availability 1

\_2. Click **RPA tab**

Network Service Closure   Avg throughput	
Settings	Scheduling RPA
FTE 1.11	Staff availability 1

\_3. For Robotic quote enter **90**, and for Number of robots enter **22**

Settings	Scheduling	RPA	Waiting times
Robotic quote 90 %	Business hours e.g. 8-20	Number of robots 22	Service time 0 days 0 hours 1 minutes

### 3.4.4 Run the Simulation and Import Simulation Data

We will now run the new simulation scenario to generate new events and conditionally import the new events to the main model.

#### \_1. Click **Run Simulation**

Current lead time  
19d 7h 59min 54sec

Estimated lead time  
7d 0h 0min 0sec ⚠



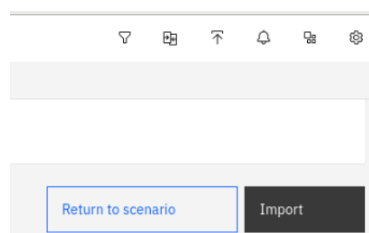
This action generated the comparison between the original (A) and new simulation scenario (B).

Process details		
Process overview	A	B
Case count	1,000	1,500
Average case lead time	19d 6h	2d 3h
Average case cost	EUR 38.14	EUR 26.19
Total case cost	EUR 38,143.00	EUR 39,282.33

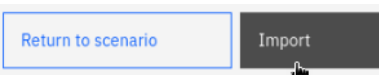
Note the above simulation result screenshot may differ slightly. Remember simulation uses uniform distribution when generating events!

We now have two choices:

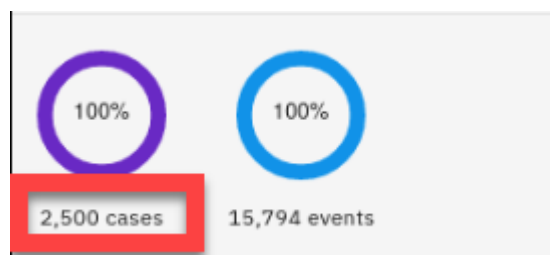
- 1) If we are not satisfied with the generated data, we can click the *Return to scenario* button and make desired simulation parameter changes.
- 2) If we are satisfied with the results, we can click the *Import* button to add the generated events to our main model.



#### \_2. Click **Import**



Note that now see 1500 more cases!

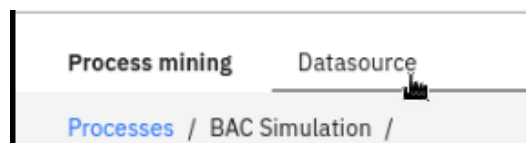




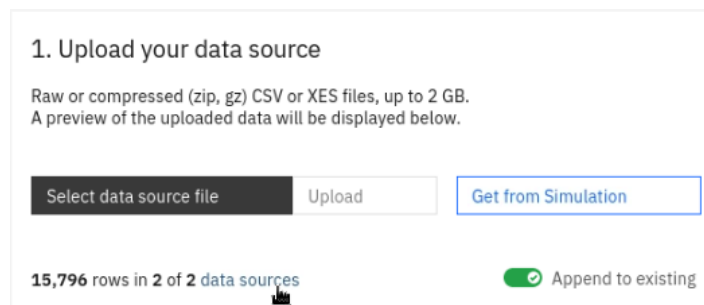
### 3.4.5 Managing Event Data

You can use the above technique to incrementally generate as many events as you need. Let's learn how manage the generated events.

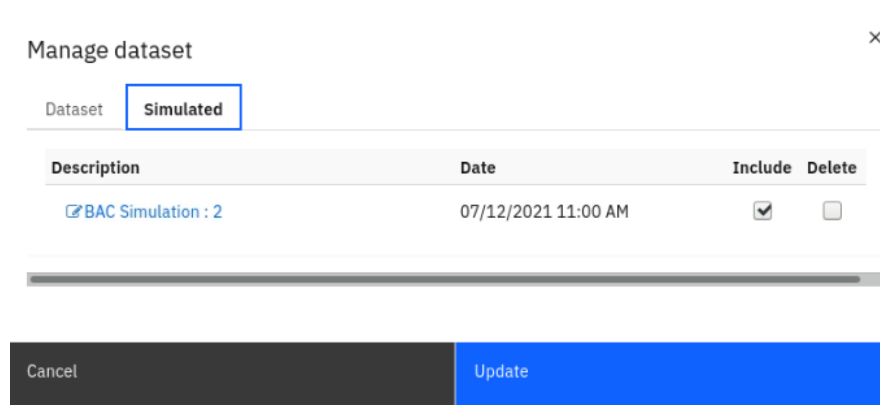
\_1. Click **Datasource**



\_2. Click **data sources**



\_3. Click **Simulated** tab



Notice the *BAC Simulation : 2* (version 20 data set. This is the data set you generated when running the simulation for the second time. You can either include or exclude this data set in the Process Model. For example to get back to the original 1000 cases data set simply unselect the Include checkbox.

Also if you like you can also Delete this data set permanently.

\_4. Click **Cancel**

### 3.5 Lab Summary

In this lab you have learned how to leverage IBM Process Mining to run process simulations of BPMN processes modelled in IBM Blueworks Live, and how IBM Process Mining tool can generate event data required for most process mining tasks that do not require business data beyond the basic process data such as Activity Wait Times, Teams, Users, etc.