





Agenda



Content:

- Overview
- Technical
- Usage

Audience:

- IBM BusinessPartners
- Everyone

Part 1

IBM Process Mining

Introduction

Feature highlights

Process mining journey

Part 2

Deployment models

Capacity planning

Architecture

REST API & Kafka

Demo: OpenShift Installation

Demo: UI

Part 3

A normal day – of a process analyst

Demo where assignment is to "find something" in Support Ticket process.

BPMN model and logs are given, and the rest is up to the process analyst.

Note: webinar will be recorded

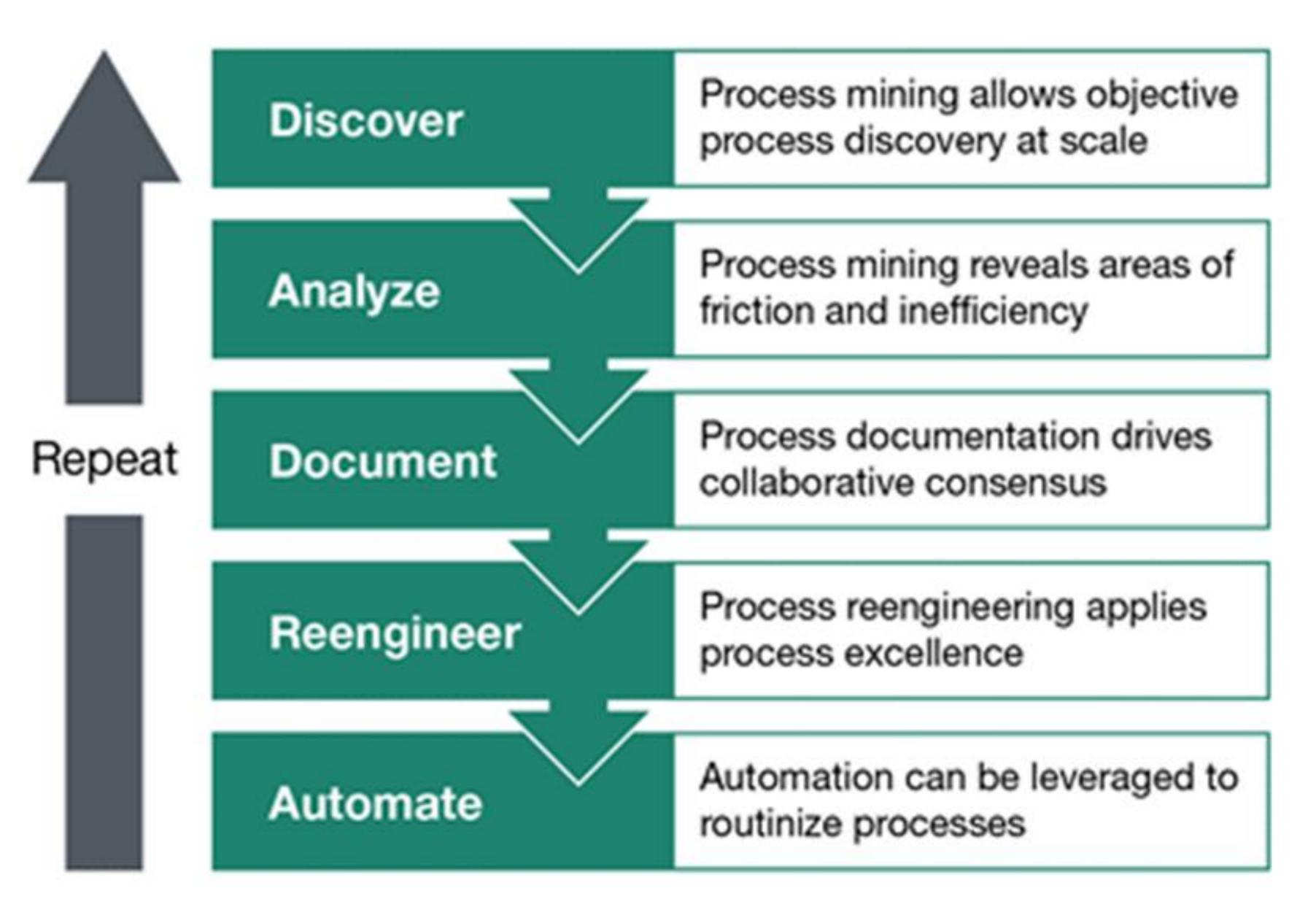
You can't improve what you don't know



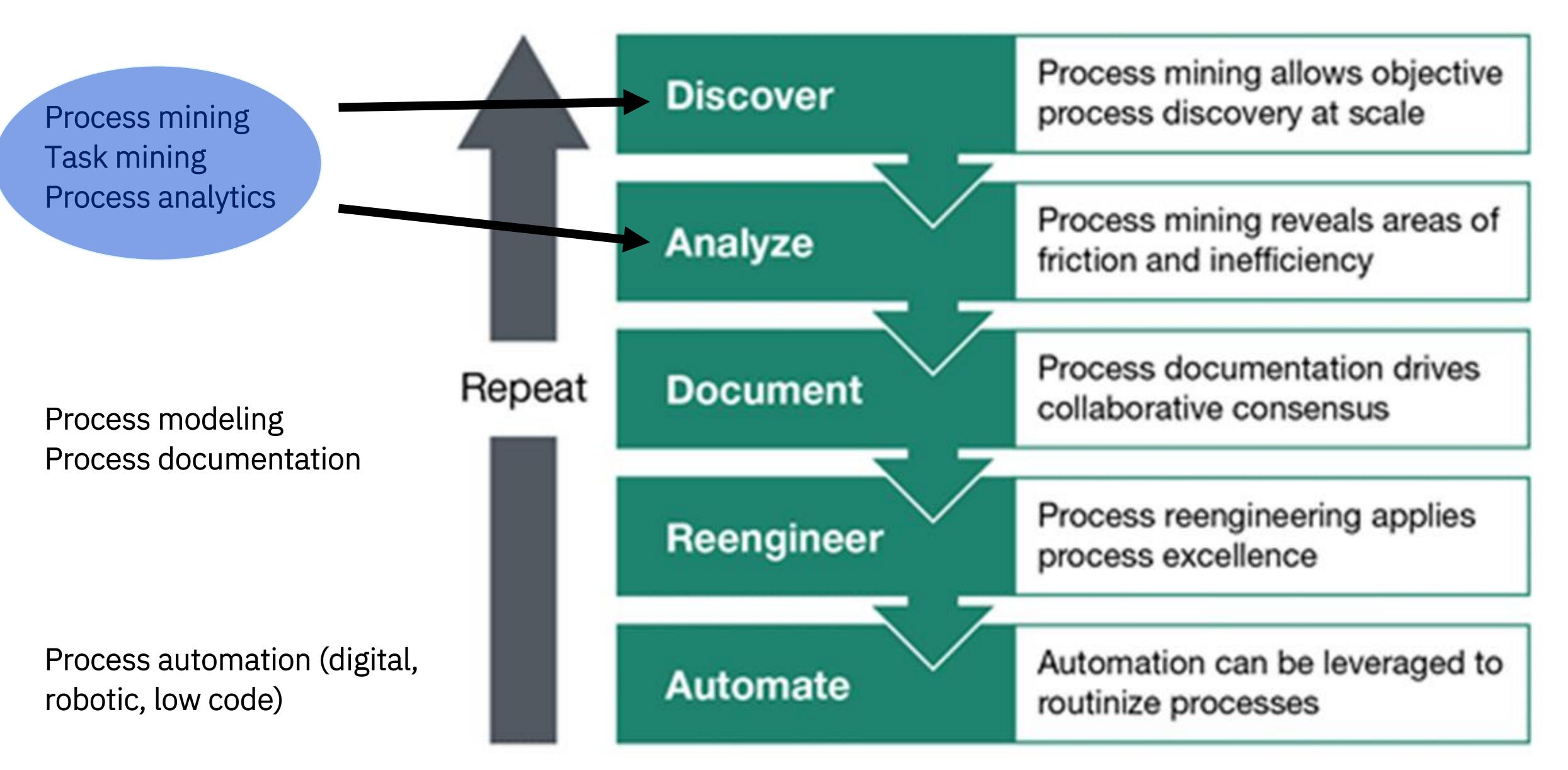
Process mining
Task mining
Process analytics

Process modeling
Process documentation

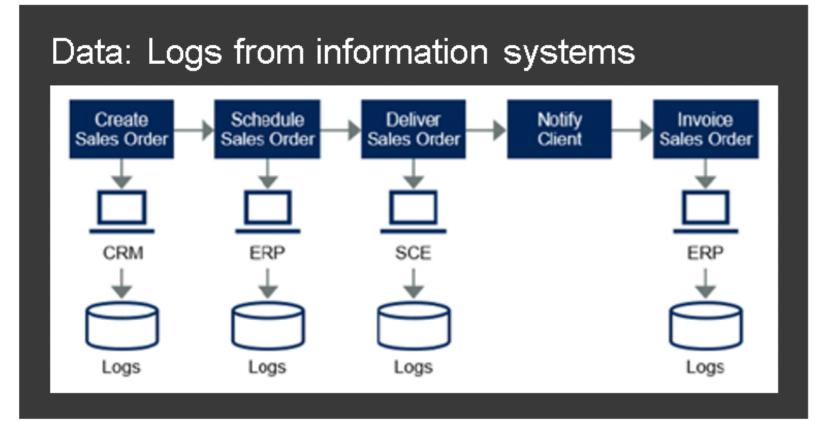
Process automation (digital, robotic, low code)



The intelligent automation journey



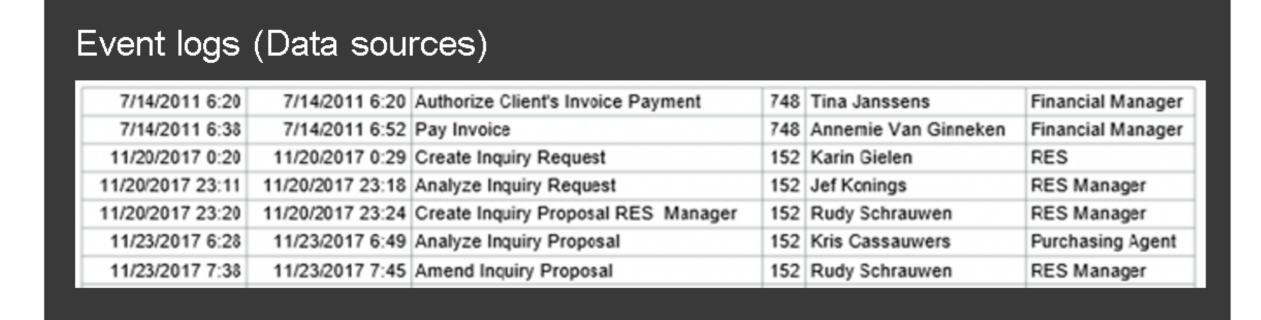
Improve business processes starting from the digital footprint



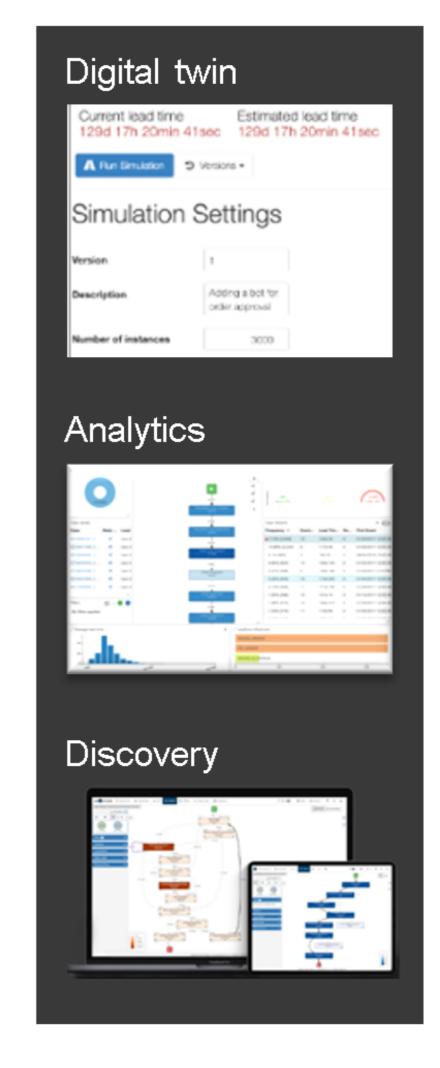


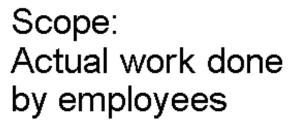
















Process continuous monitoring

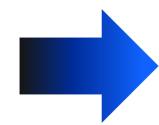
Starting from the different stakeholders of a business process



As-is

Process discovery and mining

Automatically discover the as-is process thanks to task mining and process mining, and discover where automation can be implemented



To-be

Simulation and "What-if"

With simulation, create a to-be model of the discovered process and generate different "what-if" scenarios to test the expected ROI of the planned automation



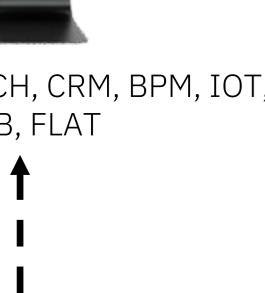
What-if

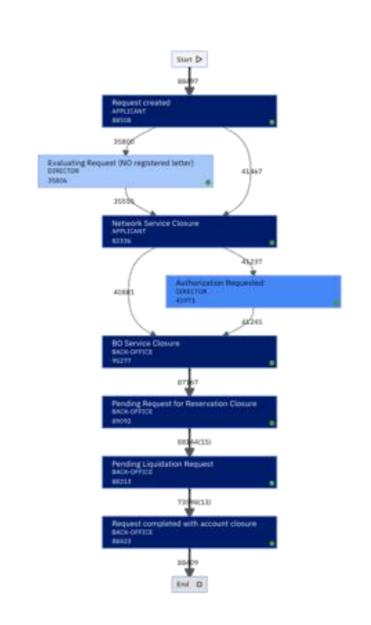
AI-powered Automation

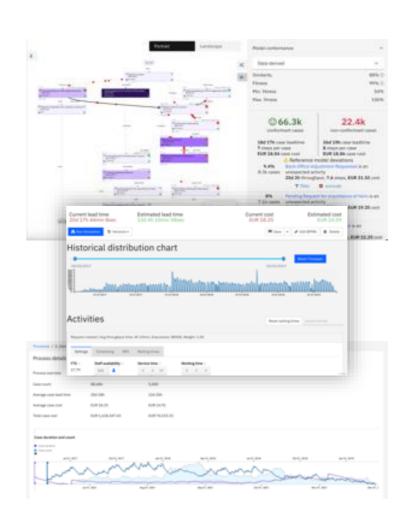
Thanks to the capabilities in the Cloud Paks for Business Automation, clients can take action on the process, implementing automation using solutions such as workflow, RPA, application integration, or the decision engine

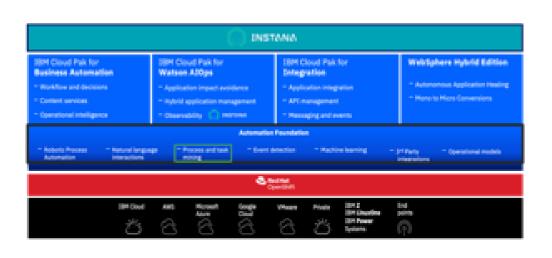


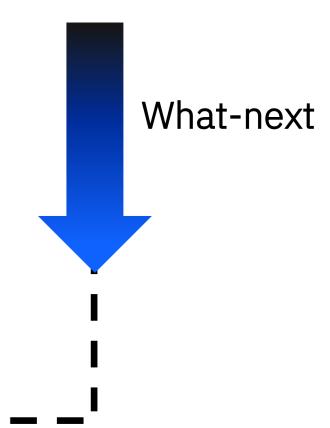
ERP, RPA, TECH, CRM, BPM, IOT, DB, FLAT











Client stories



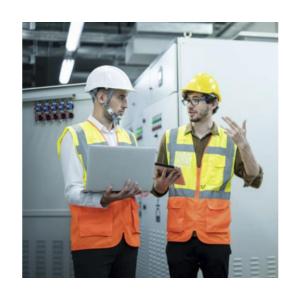
Using the IBM Process Mining solution to streamline order-to-cash processes

"As soon as we drilled into the simulation, we could see how well this model was built, based on the real-world data from our ERP platform. It was a real eye-opener."

VP of Logistics Multinational Manufacturing Company

https://www.ibm.com/products/process-mining

https://www.ibm.com/casestudies/multinationalmanufacturing-company



How the IBM Process Mining solution complements a utility's transformation

"In using real data and AI to map out our procurement process flows, we've also acquired what amounts to a potential roadmap for transforming them. It gives us a rigorous framework for understanding where to focus on improving—and, where possible, automating—different elements of the process flow."

Manager of Procurement Electric Power Provider

https://www.ibm.com/casestudies/electric-power-provider



Credem boosts speed and efficiency with IBM Process Mining and IBM Cloud Pak for Business Automation

"Thanks to the use of IBM process mining and automation technologies, between 2019 and the first quarter of 2022 we implemented 91 automations resulting in savings of approximately EUR 1.4 million in operation and service costs."

Stefano Bevivino Competence Leader of Automation Center, Credito Emiliano S.p.A.

https://www.ibm.com/casestudies/credito-emiliano-credem

Pricing

https://www.ibm.com /products/processmining/pricing

Product features	No-cost trial	Student and faculty version	Software as a Service (SaaS)	SaaS for IBM Cloud Pak® customers	On premises for IBM Cloud Pak® customers
Analyst users	1	50	1	1	1
Business users			3	3	3
Task mining users		50	2	2	2
Processes	1		3	3	3
Events (million)	1	50	20	20	20
Multi-tenancy			✓	✓	✓
Process modeling and analysis (i)	✓	✓	✓	✓	✓
Multi-object process mining	✓	✓	✓	✓	✓
Simulation and what-if analysis	✓	✓	✓	✓	✓
BPA (i)	✓	✓	✓	✓	✓
Segregation of duties analysis i	✓	✓	✓	✓	✓
Insight to action (i)			✓	✓	✓
Automated RPA bot generation			✓	✓	~
Custom metrics	~		✓	✓	✓
Data stream	✓		✓	✓	✓
Pricing	USD 0.0		Starting at USD 3,208* per month	Starting at 4* VPCs per year	Starting at 3* VPCs per year
	Try at no cost →	Learn more →	Contact sales →	Contact sales →	Contact sales →

Feature highlights

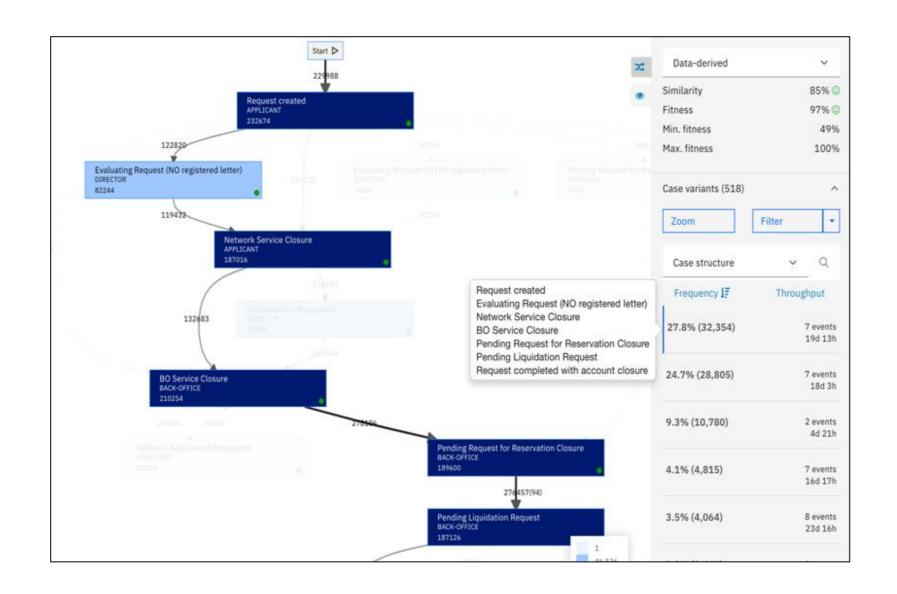
Discover frequencies, variants, rework, durations, costs from real data

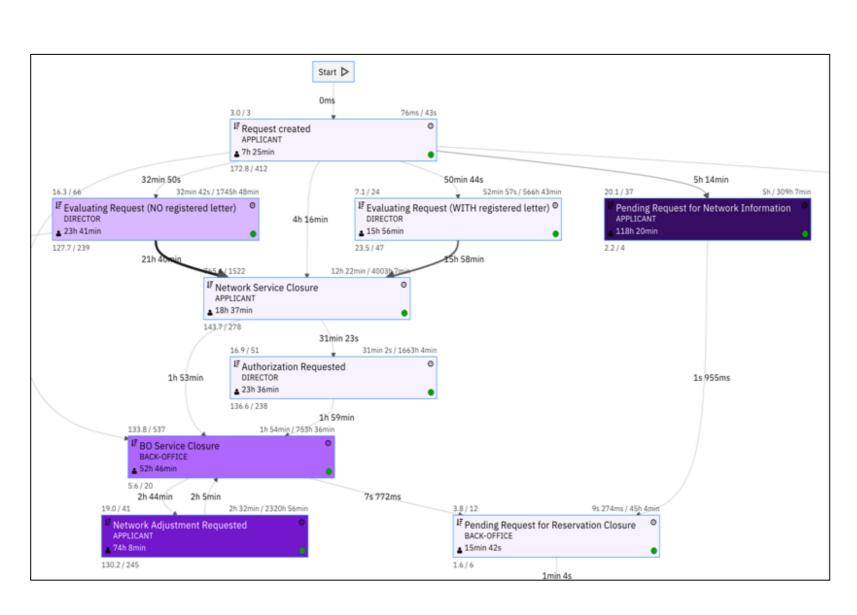
Instantly visualize the real processes

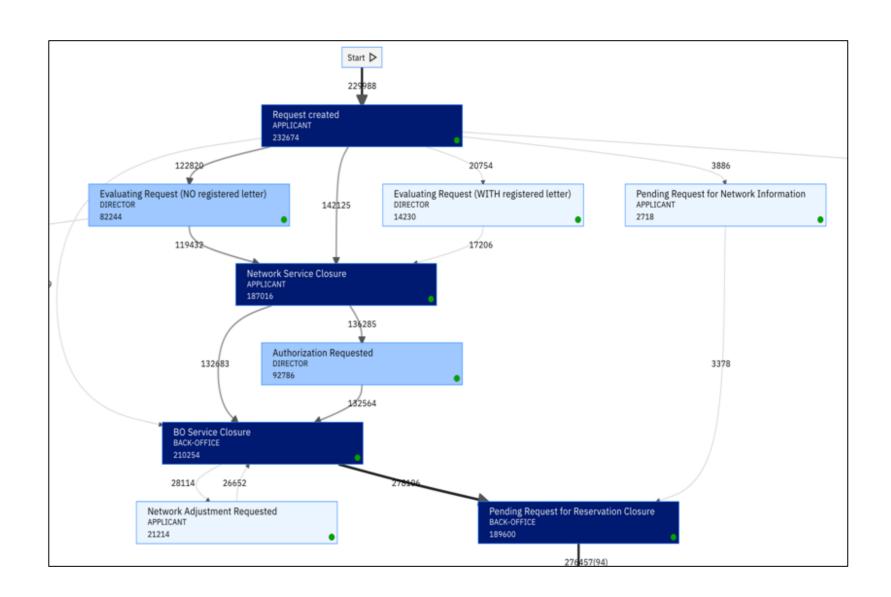
Most frequent activities, reworks, and variants can be good automation candidates for RPA or Workflow

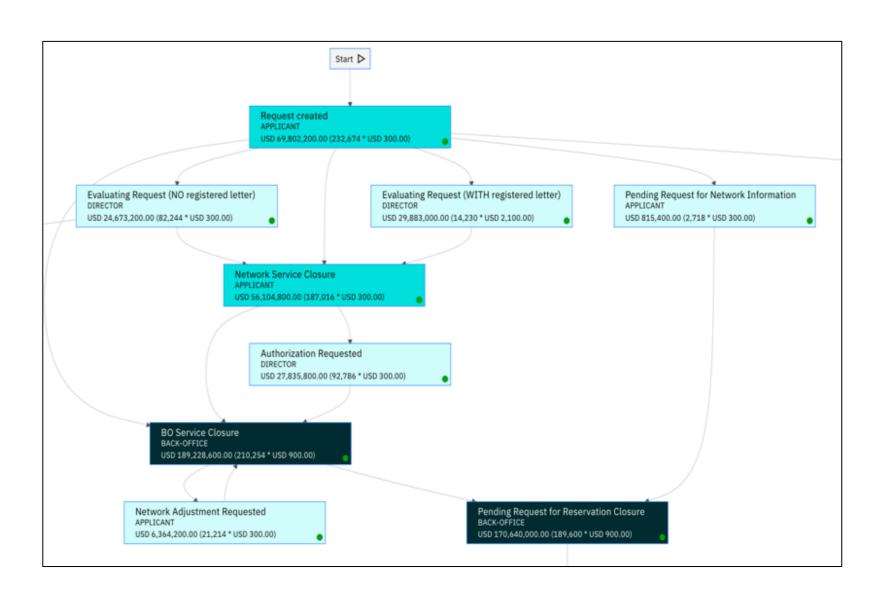
Highest wait-time and durations show potential bottlenecks

Identify costly activities based on resource cost









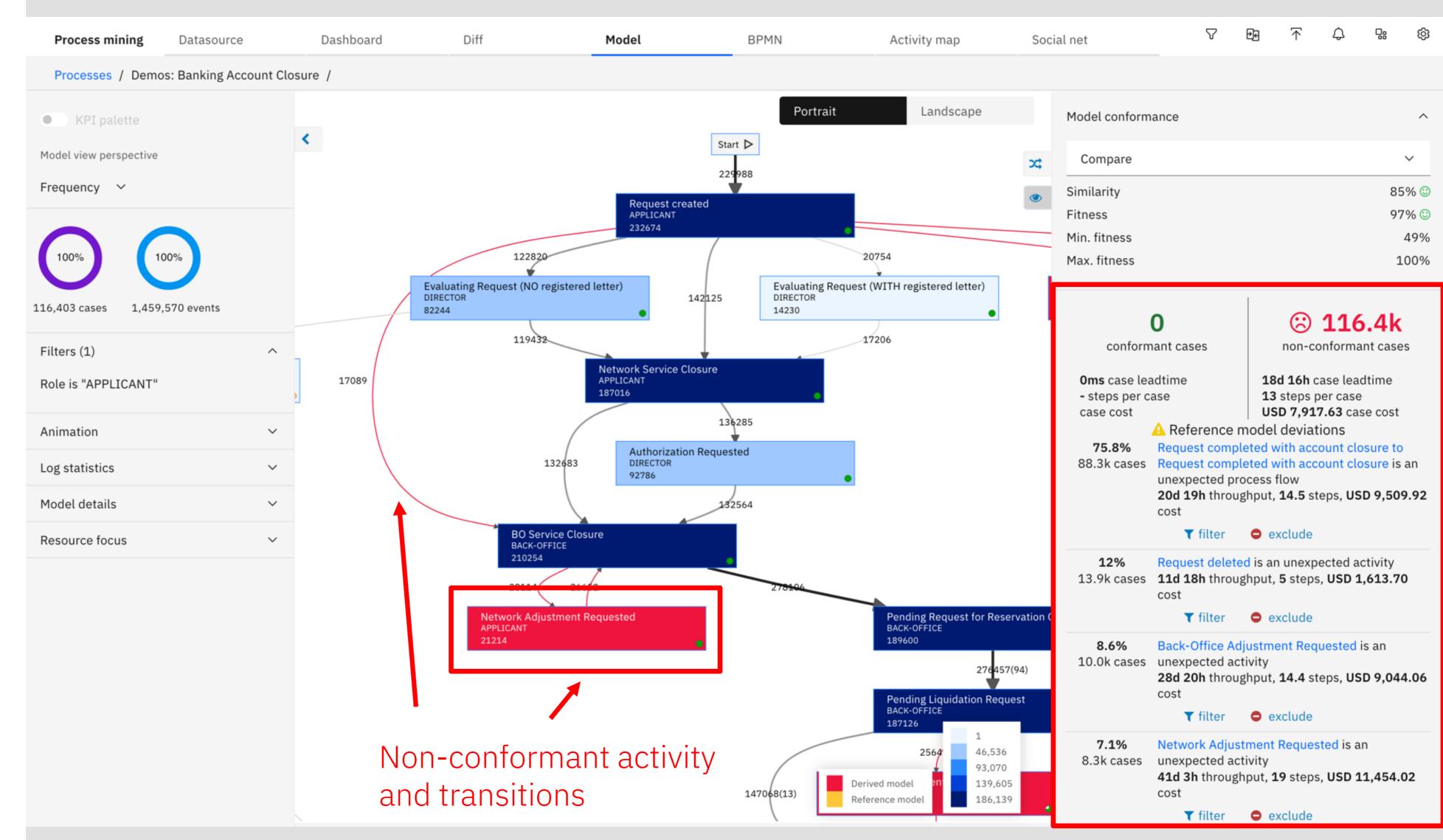
Check conformance with reference models

Quickly identify non-conformant cases

Import as-designed BPMN reference models from any Business Process
Automation Tool that supports BPMN

Discover cost of non-conformance, fitness level

Run a root-cause analysis



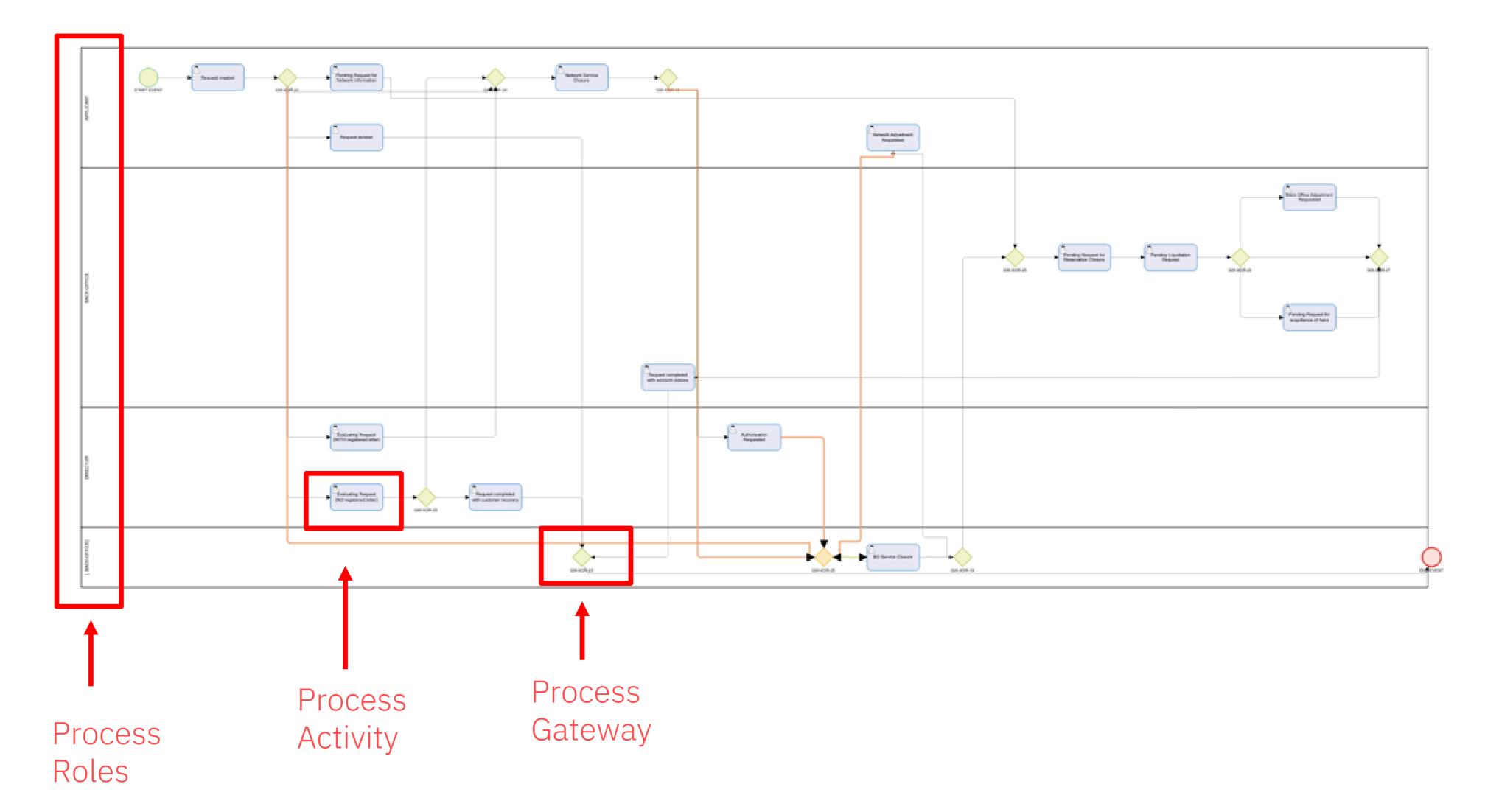


Generate BPMN from real processes

BPMN model generated from events, filters can be applied (exclude running cases, exclude non-conformant cases, keep most frequent variant, etc.)

Export BPMN to any Business Process Automation tool that supports BPMN for finer modelling

Export BPMN to Business
Process Management tool
that supports BPMN for
implementing workflows



Generate DMN decision tables from real processes with rules mining

Rules mining discovers the business logic behind the gateways

Set the business data to consider the details level

Implement the business logic in any Decision Management software

Rules overview

Activity	Next Activities	Matching	Immigrants	Coverage	Emigrants	Precision
A_APPROVED	A_REGISTERED	901	12	98.69%	527	63.10%
Exclusive Gateway	O_ACCEPTED	17	527	3.13%	12	58.62%
A_DECLINED	O_DECLINED	544	0	100.00%	1	99.82%
Exclusive Gateway	W_Beoordelen fraude	56	1	98.25%	0	100.00%
A_PARTLYSUBMITTED	A_DECLINED	1754	2591	40.37%	1091	61.65%
Exclusive Gateway	A_PREACCEPTED	4557	1091	80.68%	2591	63.75%
A_PREACCEPTED	A_ACCEPTED	3671	36	99.03%	516	87.68%
Exclusive Gateway	A_CANCELLED	36	516	6.52%	28	56.25%
	W_Afhandelen leads	2505	0	100.00%	8	99.68%
O_ACCEPTED	A_ACTIVATED	1210	5	99.59%	677	64.12%
Exclusive Gateway	W_Valideren aanvraag	11	677	1.60%	5	68.75%
START_EVENT	A_PARTLYSUBMITTED	0	3066	0.00%	0	N/A
Exclusive Gateway	A CHIDMITTED	10031	٥	100 00%	2044	74 5704

Statistics of coverage and precision of each business rule discovered

Close

Transition info

A_APPROVED → A_REGISTERED

attr-resource not in ["18629", "11339"]

OR

attr-resource in ["18629", "11339"] AND TRACE:AMOUNT_REQ > 6588.8

Go to gateway Rules overview Migrants Close

Business rule discovered

Set and monitor KPIs

Set KPIs based on case lead-time and cost, activity throughput, activity wait-time, resource allocation and cost

Monitor in process views and dashboards

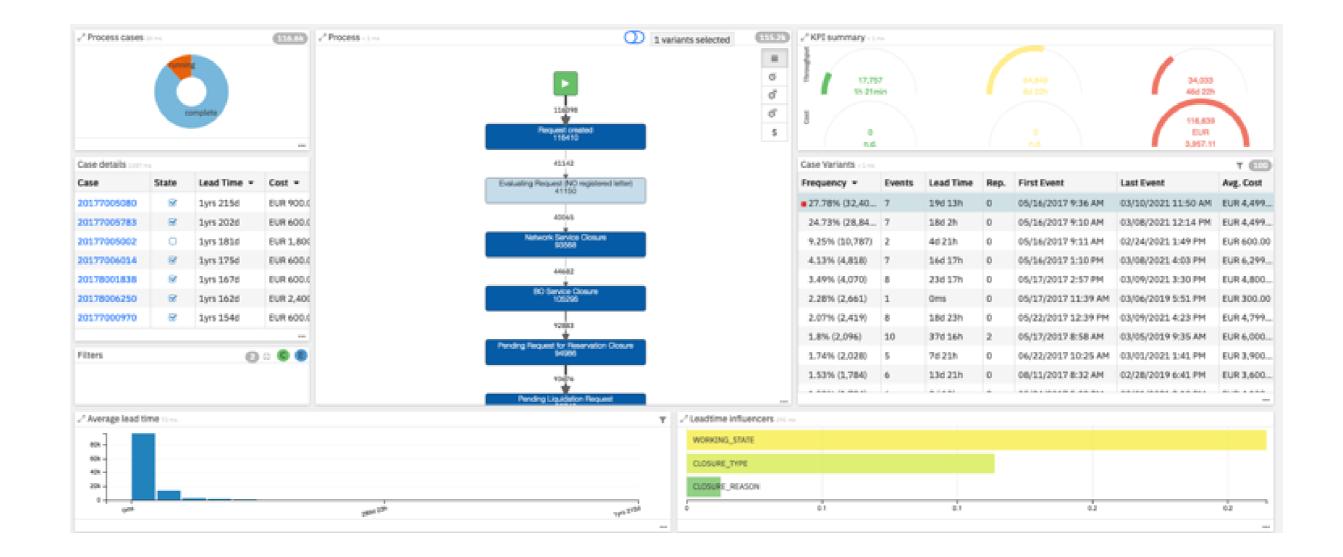


Monitor processes with dashboards

Generic overview dashboards

Customizable business dashboards built from widgets with low-code user interface

Out-of-the box Procure to Pay and Order to Cash dashboards such as deviations, maverick purchases, cash discount losses and cash flow losses

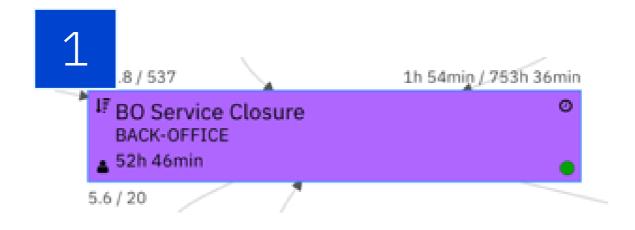


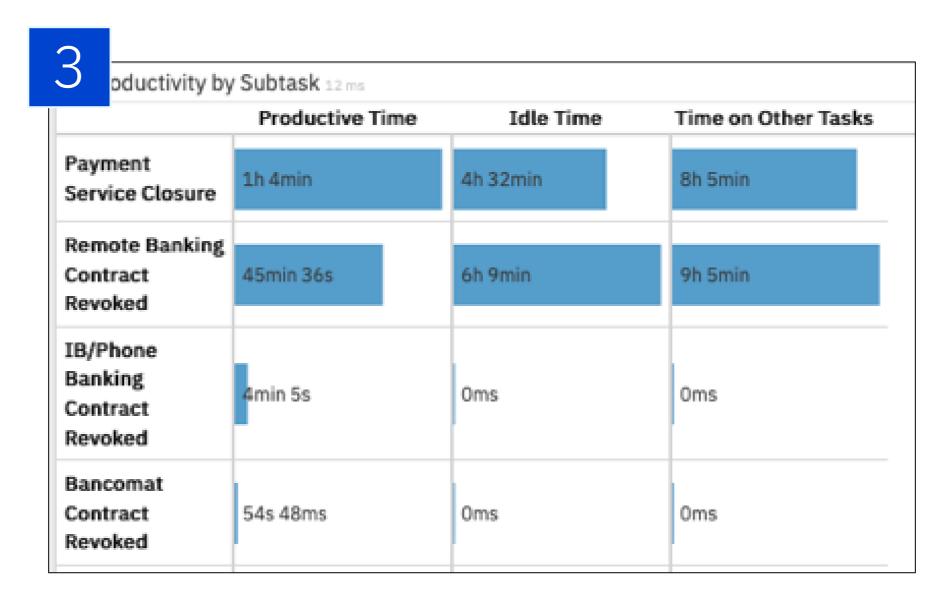


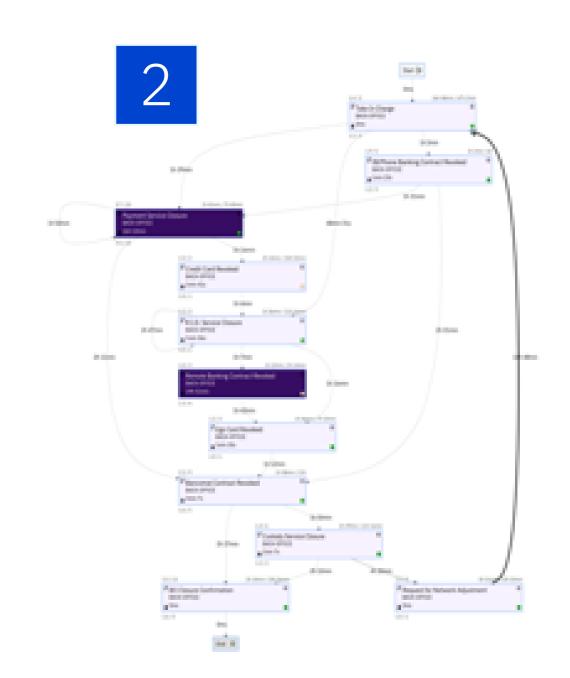
30+ widgets like bar chart, bubble chart, line chart to be customized

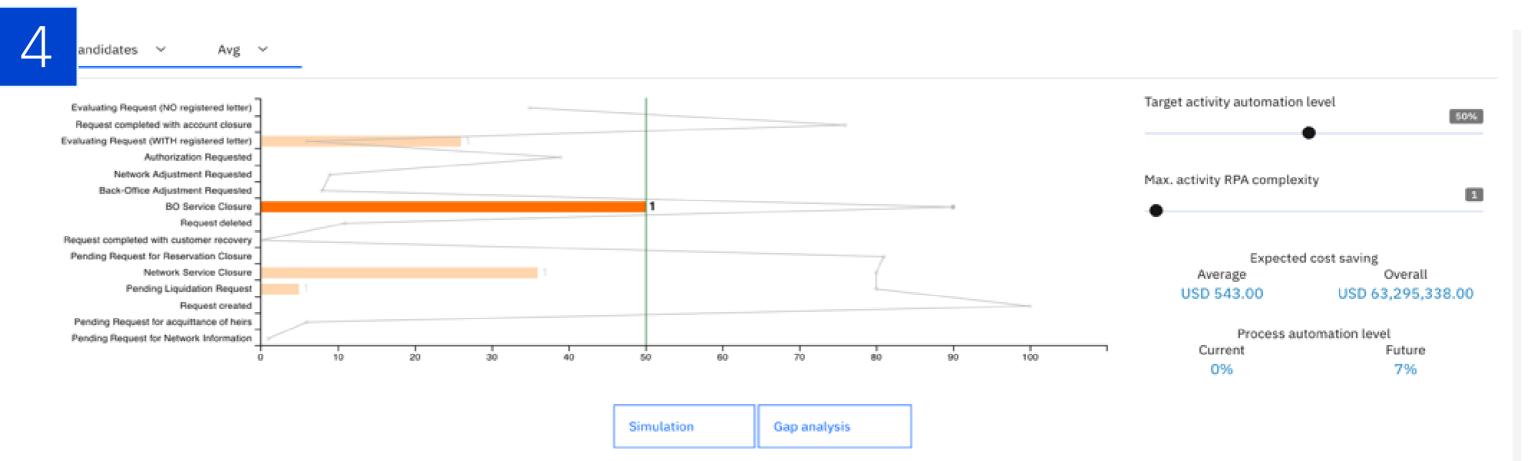
Task mining: a use case

- 1. Process mining tells us the service time on the "BO Service Closure" activity. How can we discover the tasks that the users usually execute to complete this activity?
- 2. Task Mining records the user interaction and displays the tasks as a sub-process of the BO Service Closure activity.
- 3. For each task, we know exactly the productive time, idle time, and time spent on other tasks.
- 4. By combining Process Mining and Task Mining data we can get automation recommendations.







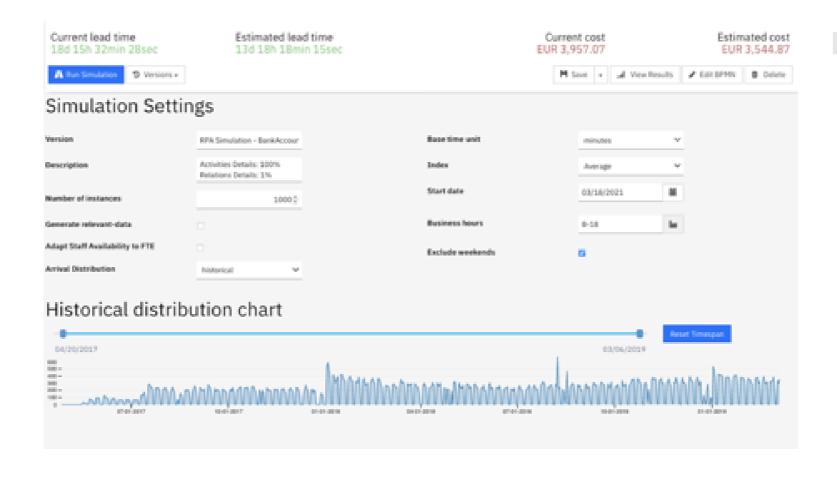


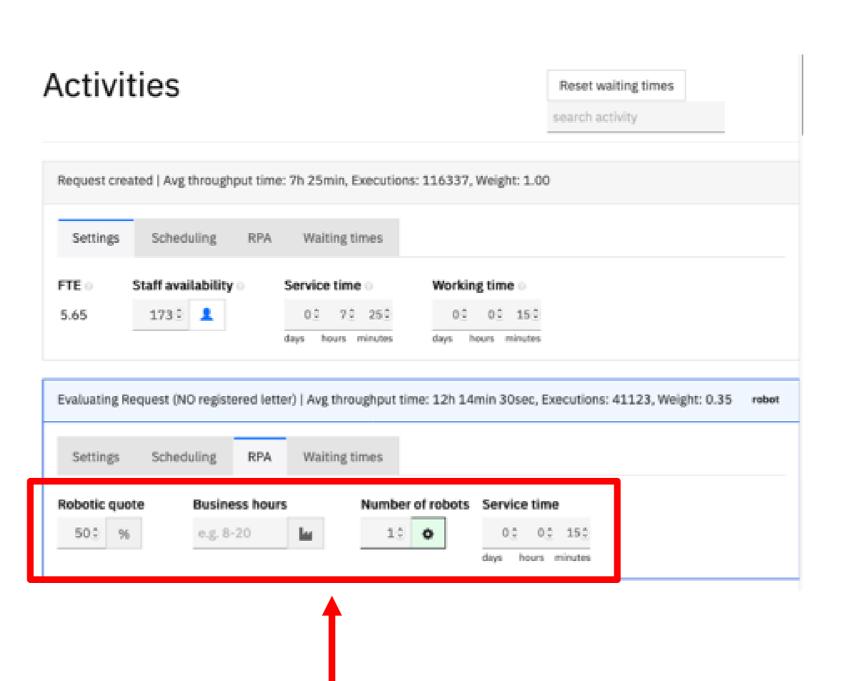
Simulate your business with digital twin before engaging development costs

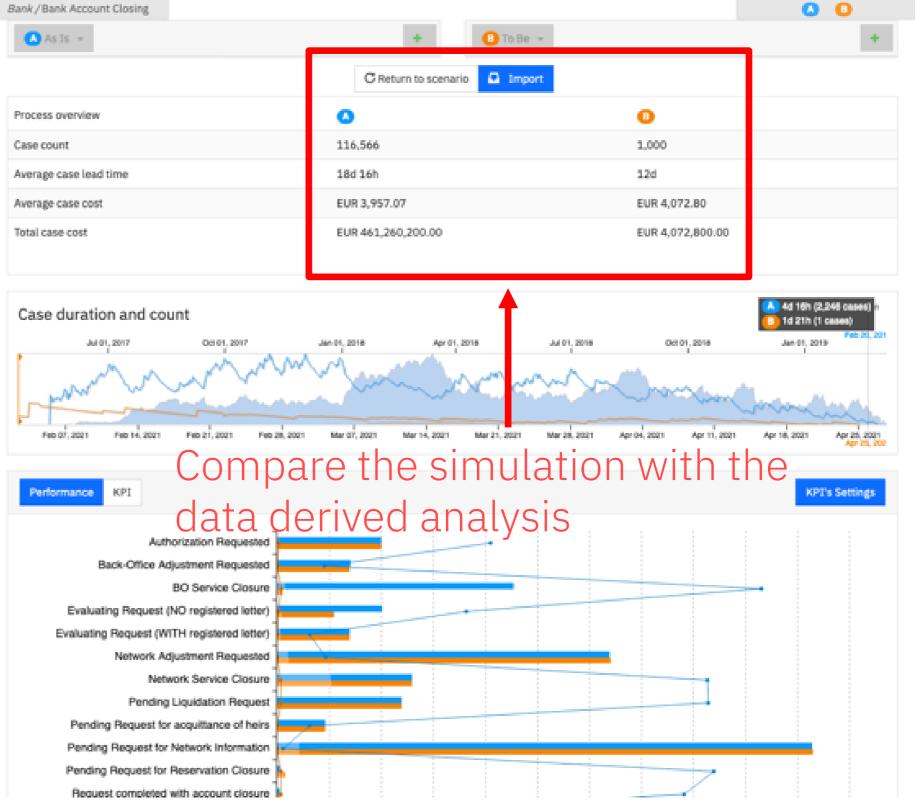
Create scenarios from as-is process: allocating resources, adding RPA bots, changing processes, and rules

Run simulations and compare as-is and to-be side-by-side: processes, KPIs, costs

Load BPMN models from from any tool that supports BPMN and run simulations to verify achievement of business goals







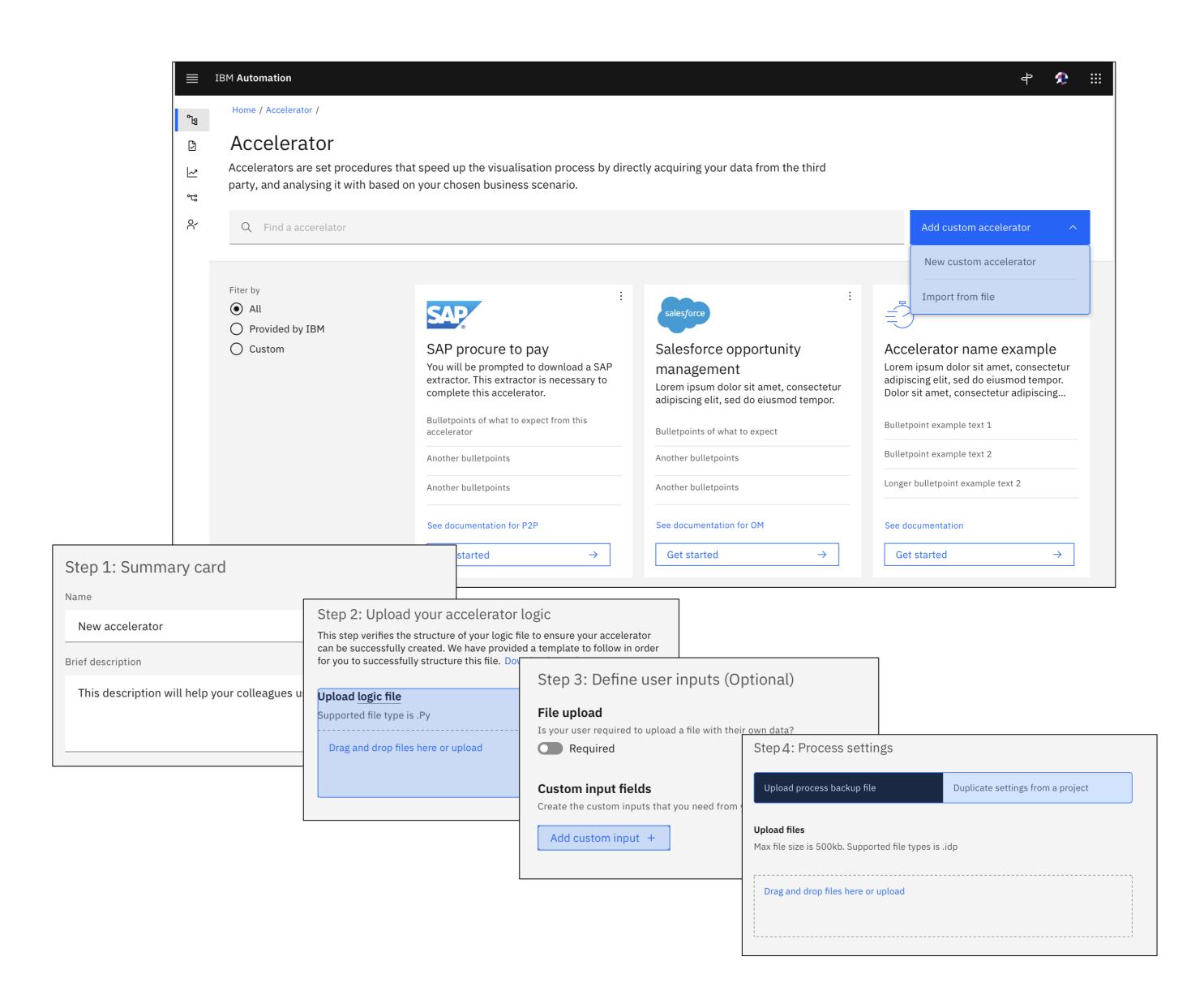
Select the expected level of automation of a specific activity

What is a Process App?

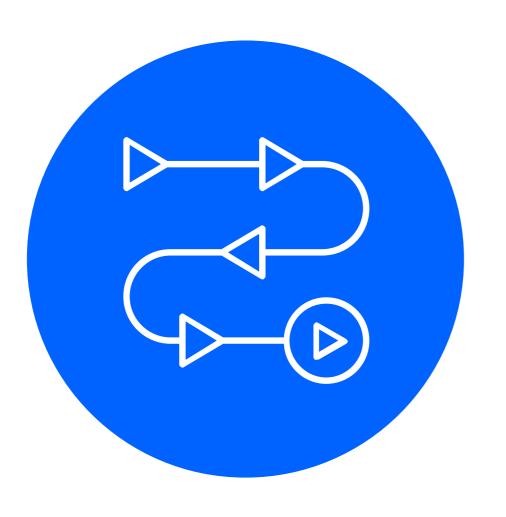
- Use case specific accelerator that includes data extractor, pre-built dashboards (with relevant business KPI) and pre-built actions
- Partners and clients can use to quickly prove value and as starting point for process mining project

Process App Builder:

- In-app experience to enable partners and clients to build their own process apps
- Execute custom (Python) code to Extract and Transform the data
- Apply a pre-defined business context to speed-up the process analysis



Process mining journey



1. Process setup

- Scope of the analysis
- Data extraction

2. Process mining

- Events log
 - Frequency view
- Performance view
- Path analysis
- Deviations
- Etc.

3. Task mining

- User actions recording
- RPA candidates

4. Compliance

 Define reference model (BPMN)

5. Automation analysis

- Define standard costs
- As-is automation
- Candidates for automation

6. KPI and performance

- Define KPIs
- Process compare and best practices

7. Simulation

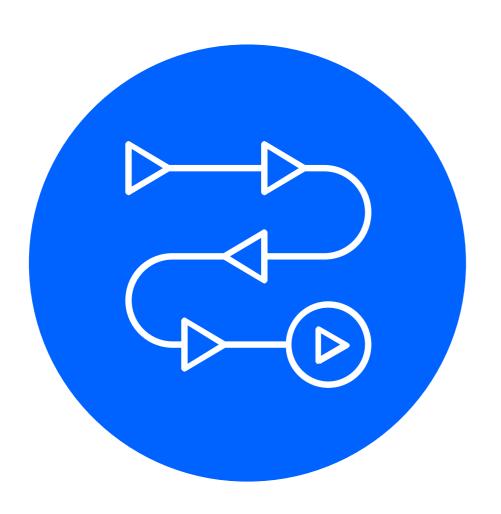
- Scenarios and goals definition
- Simulate what-if, compare as-is and to-be, compute automation ROI

8. Real-time and predictive analytics

 Real time monitoring of running cases

9. Automation plan

- Act on insights
- Allocate RPA bots
- Achieve end-to-end process automation
- Measure automation performance against business goals



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From problem finder to a self-driving organization

Insight

Process intelligence

- Automated process discovery and mining
- Process performances, automation, and costs
- Compliance/conformance
- Root/cause analysis
- Simulation, what-if and ROI forecast



Process Mining eliminates risks to Digital Transformation Journeys by providing visibility

- Discover end-to-end processes
- Identify improvement opportunities
- Design the Automation Journey
- Simulate process enhancements and estimate ROI benefits
- Measure post-implementation performance

Process Mining enables Excellence in daily Operations

- Constant observability of processes and business KPIs
- Detect frictions and bottlenecks affecting ongoing business operations
- Proactive alerting and reporting of issues impacting the business
- Automatic actions to accelerate resolution

Next



Part 2

Deployment models

Capacity planning

Architecture

REST API & Kafka

Demo: OpenShift Installation

Demo: UI

