



#### **Presenters Intro**

# Antonio Valle, BBVA Global Head BPM Architecture

In his current role he manages and lead the team that develop and maintain the BPM Platforms that serve the different countries where BBVA operates.

# Marcos Regidor, Red Hat Principal Solution Architect

In his current role he helps
BBVA to achieve their Digital
Transformation journey
leveraging Red Hat Open
Source culture, PaaS, laaS and
Middleware Solutions in the
different countries where BBVA
operates.

#### Kris Verlaenen, Red Hat Senior Principal Software Eng.

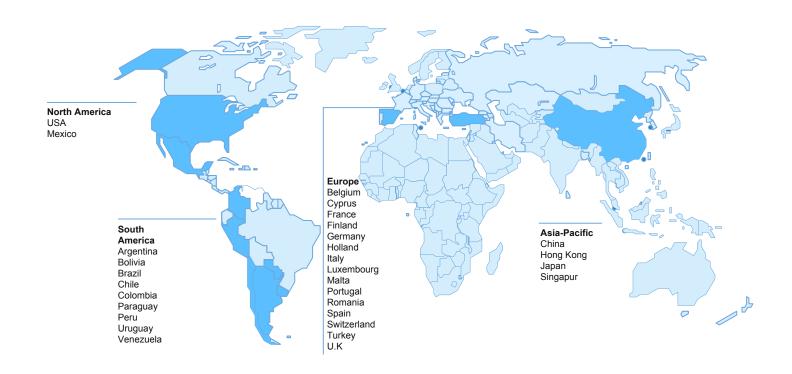
Red Hat Business Automation product architect and jBPM community lead, is interested in everything related to business process management.



#### **Schedule**

01 BBVA Intro
02 Why change? BBVA Transformation
03 What was needed? BBVA Requirements
04 How we get there? Collaboration Set up
05 The journey till now: Collaboration model and results
06 How RHPAM v7 Cloud Ready looks like now and roadmap
07 Lessons learnt and future goals
08 Q & A

#### **BBVA Intro**



€ 690

Billions of total assets

**72** 

Millions of customers

>30

Countries

8.271

**Branches** 

31.688

131.856

ATM's

**Employees** 

#### **BBVA** Transformation

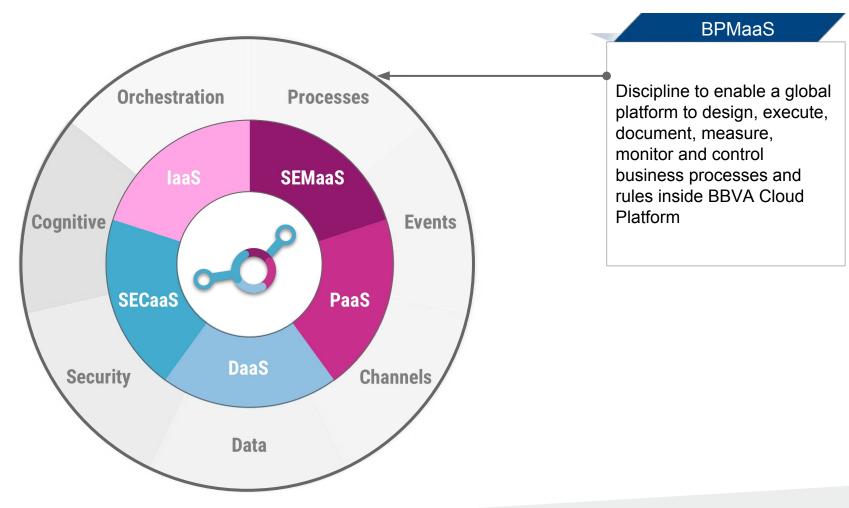
#### The pillars of transformation in BBVA







#### **BBVA Platform**



#### What was needed?

#### The transformation...



Global **Multilocal** complex and heterogeneous products and platforms: lack of seamless experience



Manual processes loosely controlled with **ad-hoc measures**, reactive and slow with **poor agility** to launch new products or improvements rapidly



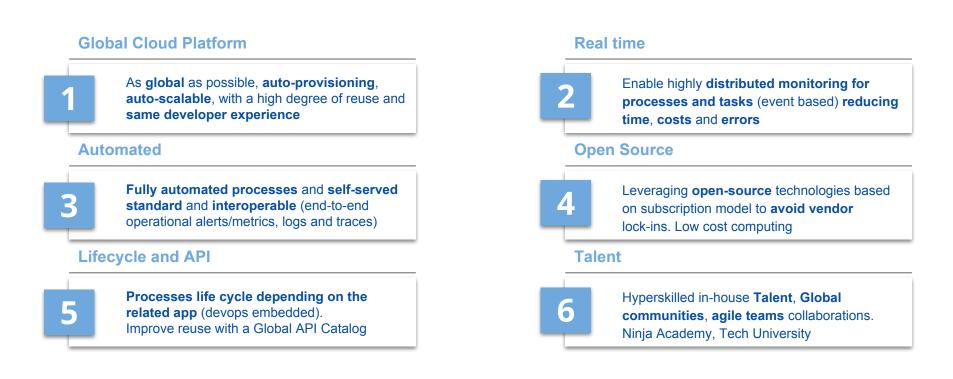
Know-how externalization, siloed local teams, no 'Global Community' approach



High maintenance and operating cost, non scalable, manual operation

#### What was needed? BBVA Requirements

#### Our objective is to build a platform to enable truly digital processes automation...

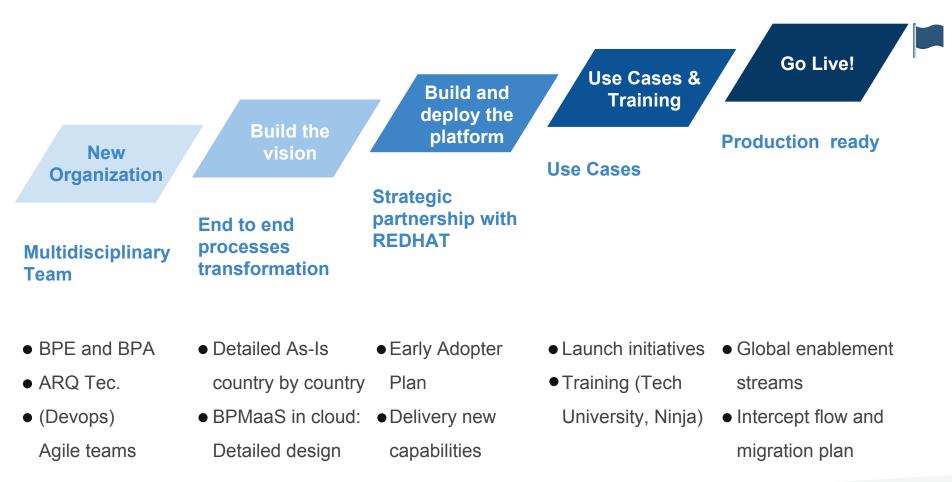


## **Advanced Process Automation Capabilities**

#### **Platform Overview**



#### **BPM Platform - Product RoadMap**



#### How we get there? Collaboration Set up

#### **Product Manager visited BBVA on January 2017 with this outcomes:**

#### **Initial Functional Gaps Assessment**



First set of functional requirements identified and defined as "Gaps" were explained and understood by Product Management

#### FDE Role



Proposed to add a new role in the Project: Forward Deployed Engineer to act as the voice of BBVA in the Engineering team and enhance collaboration

#### **Initial Architecture Gaps Assessment**



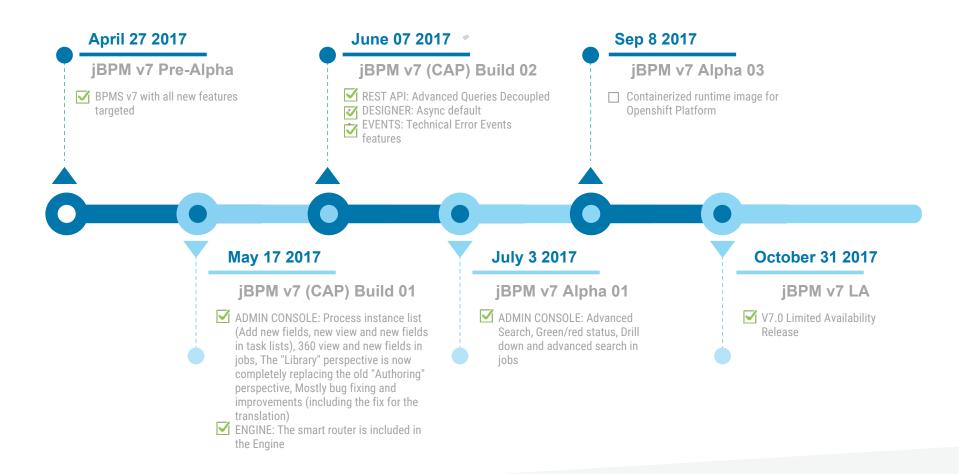
The requirement to deploy RH BPM on top the Openshift were initially assessed

#### LA Version and Releases plan



PM Delivered a releases plan with a Limited Availability Version special release to be used to start to develop processes.

#### Initial releases plan



### **Process automation platform - RoadMap**

#### RHPAM v7

2018 2017 RHPAM RHPAM RHPAM **RHBPMS RHBPMS RHBPMS RHBPMS RHBPMS RHBPMS RHBPMS** RHPAM GΑ GA Alpha GA Beta Pre-Alfa Cap 01 Cap 02 Alpha 01 Beta 01 Beta 02 LA GΑ Alpha01 MAY **AUG SEP DEC APR** MAY JUN **APR** JUN JUL OCT NOV JAN **FEB** MAR 17 **'17 '17 '17** 17 <sup>'</sup>18 **'18** '17 17 '17 17 '18 <sup>1</sup>18 **'18 '18** Engineering Engineering Engineering Engineering Workshop Workshop Workshop Workshop 

BBVA BPMaaS: Release 1 July '18

- Delivering the Platform
- Support to Pilots

### The Journey till now: Workshops Performed



June 2017 - Brussels, Belgium



September 2017 - Madrid, Spain



November 2017 - Madrid, Spain



November 2017 - Mexico City, Mexico



March 2018 - Madrid, Spain

### Working together to build RHPAM v7



#### How we have done so far?

Pull Request Sent

+79

Pull request sent by BBVA

**Pull Request Accepted** 

+71

Accepted and incorporated into the product

# **Enhancement highlights**

- Better support of BPMN2.
- Management console improvements.
- Error management. Detailed information about errors.
- Additional info to the events API. Now a complete information abouts events is available at Process & Task listeners.
- New mappers and query builders for custom queries.
- Application templates for Openshift deployments.

"FDE" Red Hat role working on-site at BBVA with process automation team

**New "ADE" role** in BBVA working with FDE and Red Hat engineering team

**Focus** on the resolution of critical gaps identified in line with Red Hat engineering team

**Prioritization** of new features and bugs with Red Hat engineering team

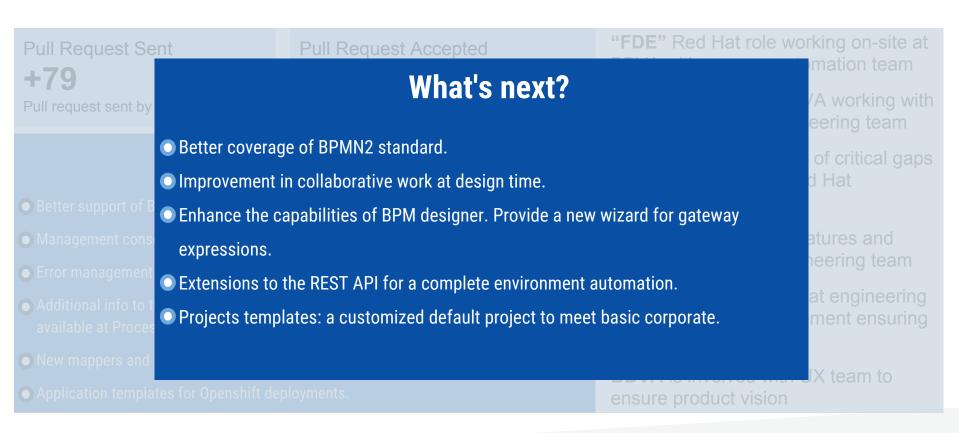
**Workshops** with Red Hat engineering team & product management ensuring product alignment

**BBVA** is involved with UX team to ensure product vision

## Working together to build RHPAM v7



#### How we have done so far?



# **Gaps "Bite": Design and Development Tools**

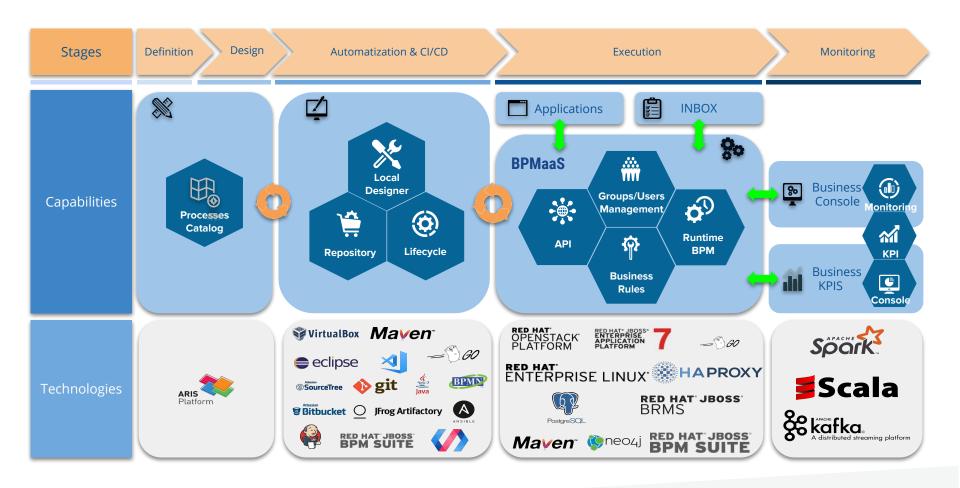
		GAP	Open	Assigned to	BBVA Requir	Analysis	Design	BBVA Valid	Impl	Status	Jira	Included version (Draft)
Designer	ВРМП	jBPM does not support Reusable Event Definitions	3 Oct	Red Hat	100%					Done	BAPL-802	Alpha 03
		BPMN swimlanes (Autoclaim)	16 Oct	Red Hat	100%					Done	BAPL-808	Alpha 03
		BPMN swimlanes import	11 Oct	Red Hat	100%					It will be resolved in the new designer. Meanwhile, using RHAMT/Saxon wtih old Designer	BAPL-803	Pending
	Enhance UX	Improvements in the graphical constraint editor	08/03	Red Hat	100%	100%				Waiting for Red Hat solution	BAPL-912	7.1 GA
		M I: Mapping automatically from MI data to I/O assignments (Human tasks)	08/03	Red Hat	100%					In progress	BAPL-895	7.0 GA
		Adding support for multi instance: parallel or sequentially	08/03	Red Hat	100%	100%				Waiting for Red Hat solution	BAPL-910	7.1 GA
		Enrich compilation error messages	15/03	Red Hat	100%					Waiting for Red Hat solution		Pending
	Cloud	Collaborative work	15/03	Red Hat	100%	100%				Waiting for Red Hat solution		Pending
	Projects BC	It is not possible to delete a project.	08/03	Red Hat	100%					Done	AF-984	Alpha 03
		Pom.xml when creating a project with quick setup is different than pom.xml with advanced configuration	15/03	Red Hat	100%	100%				Waiting for Red Hat solution	BAPL-914	7.1 GA
		Rules: Rules service task does not detect a ruleflow-group defined in xslx rule file.	15/03	Red Hat	100%					Waiting for Red Hat solution	BAPL-915	7.1 GA

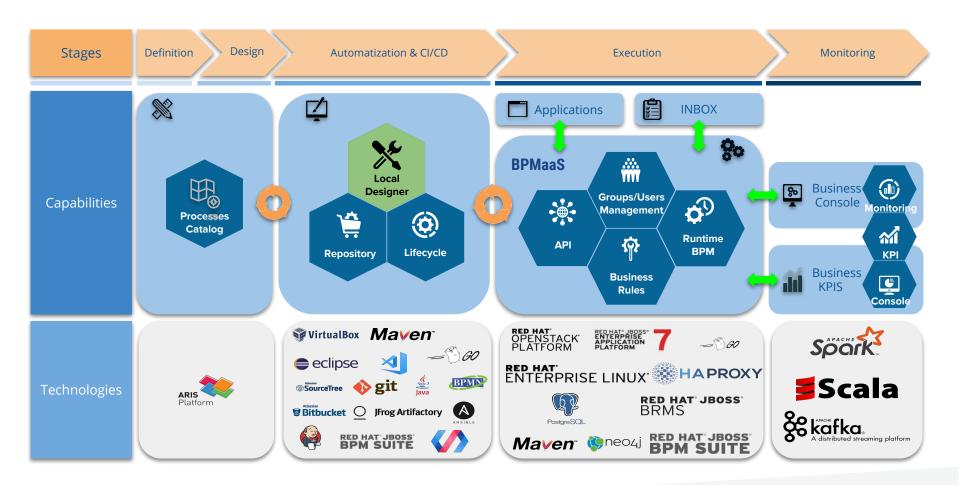
# **Gaps "Bite": Real time monitoring**

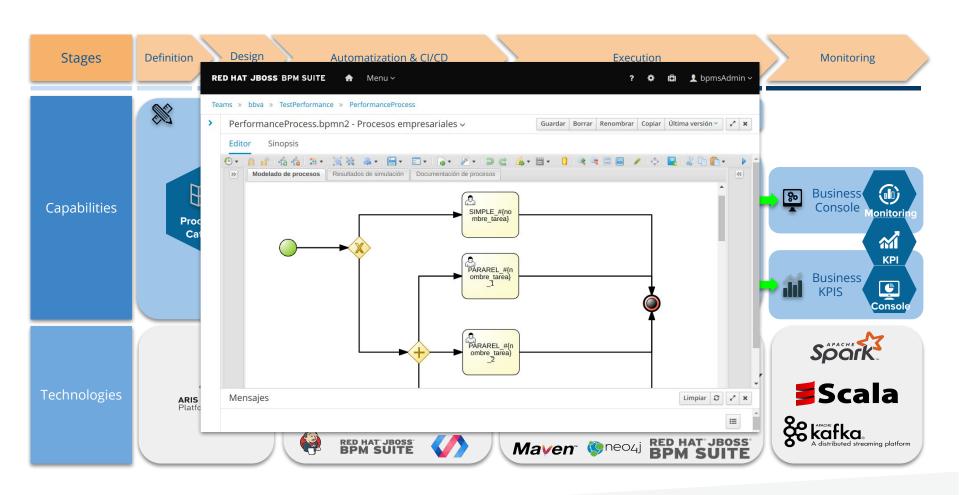
		GAP	Open	Assigned to	BBVA Requir	Analysis	Design	BBVA Valid	Impl	Status	Jira	Included version (Draft)
Events	Enhance Events data	Not Available fields in TaskLifeCycleEventListener	11/11	Red Hat	100%	100%				Done.	BAPL-819	Alpha 03
		Required events that don't exist in the User Task event listener	10/11	Red Hat	100%					Done	BAPL-813	Alpha 03
		Status completed in nodes when the process is aborted	26/1	Red Hat	100%	100%				Done	BAPL-877	Alpha 03
		Information not available in NodeInstance event listener	26/1	Red Hat	100%					Done	BAPL-876	Alpha 03
		Information is not available in ProcessEventListener	10/11	Red Hat	100%					Done. Waiting for BPMS release.	BAPL-814	Beta 01

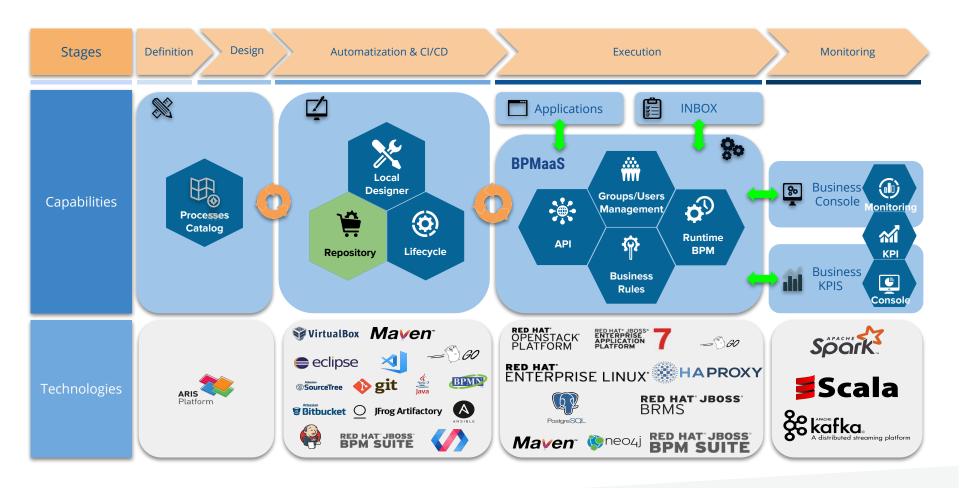
# **Gaps "Bite": API processes and tasks**

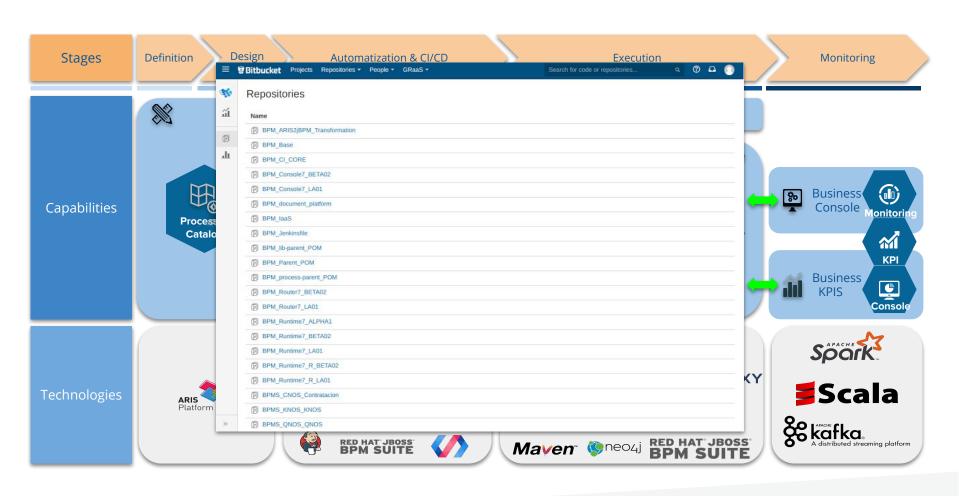
		GAP	Open	Assigned to	BBVA Requir	Analysis	Design	BBVA Valid	Impl	Status	Jira	Included version (Draft)
API	Advanced Queries	Add filter Potential Owner for Adv. Queries (Group Search)	21 Aug	Red Hat	100%					Done	BAPL-781	Alpha 03
		Business Data (Advanced Queries)	4 Sept	Red Hat	100%					Done	BAPL-835	Alpha 03
	Operations	Forward task to a list of potential owners	12 Sep	Red Hat	100%	100%				Done	BAPL-589	Alpha 03
	Model	Not Exists customTaskId Field	25 Sep	Red Hat	100%		100%	100%		Done. Waiting for BPMS release.	BAPL-801	Beta 01
	Error Messages	Enrich error messages from API REST	08/03	Red Hat	100%					Waiting for Red Hat solution	BAPL-911	7.1 GA

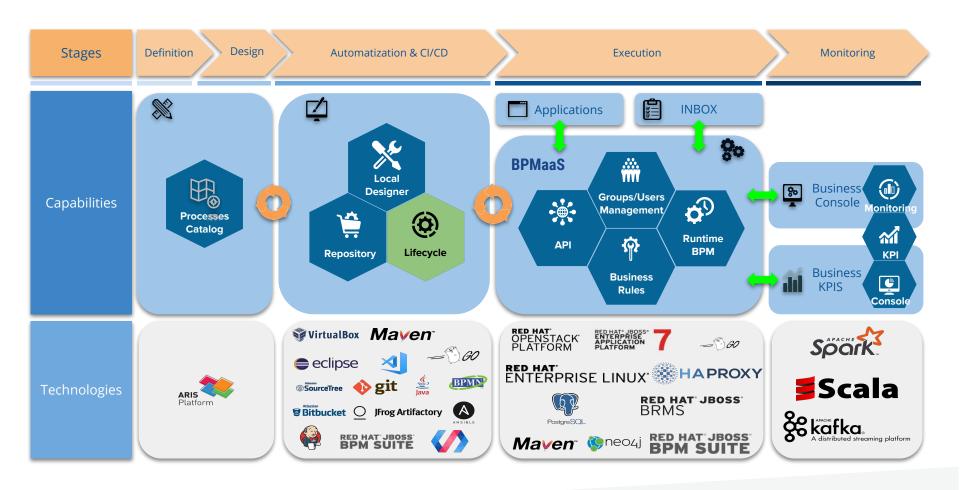


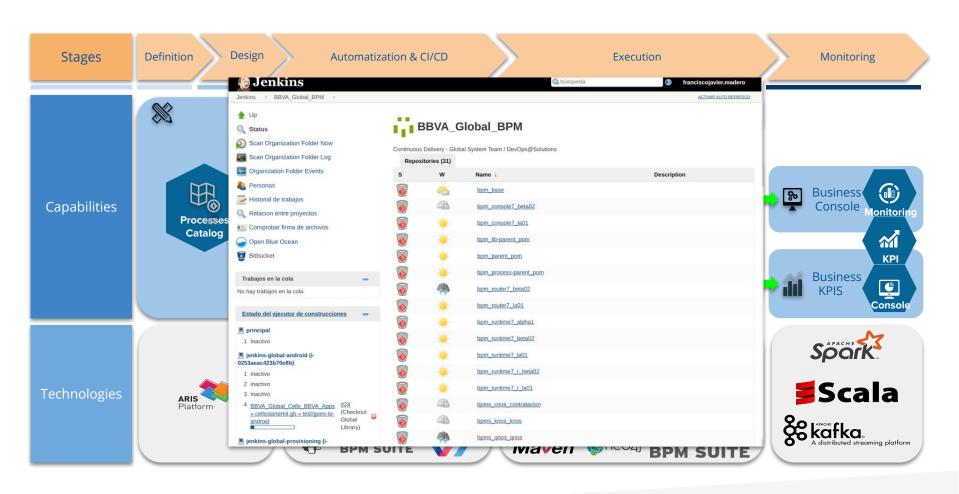


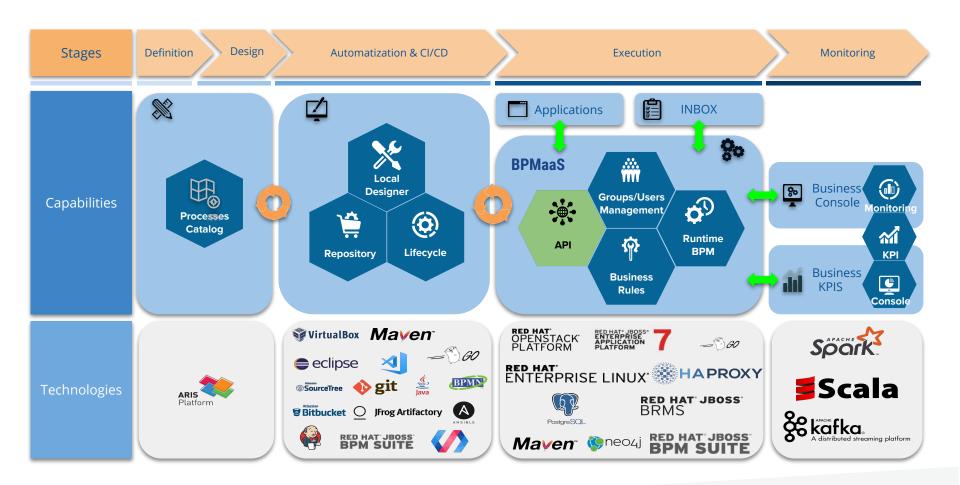














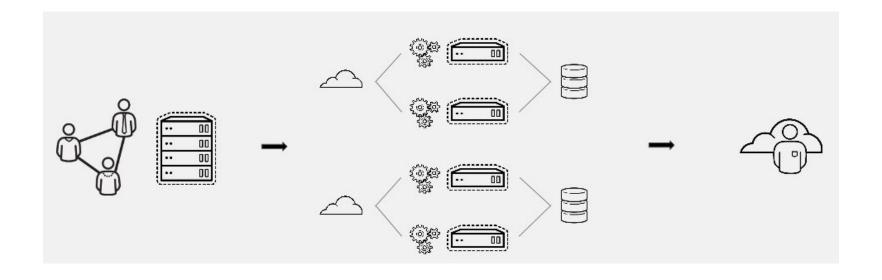
## **How RH BPM looks like now and roadmap**

#### Red Hat BPM Suite v 6.x

• Includes Process Execution as a service

#### Red Hat Process Automation Manager 7.0

- Case management
- Process and task administration
- Cloud
- Authoring and getting started experience



Authoring Execution Monitoring



#### Controller

- Keeping track of server instances
- Server configuration
  - Capabilities (Rule, Process, Planning, etc.)
  - Deployed containers, for example
    - Project A v1.0
    - Project A v2.0
    - Project B v1.1
- Update existing server configurations
  - Add containers
  - Remove containers



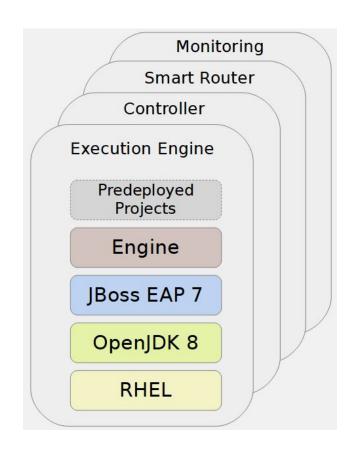
#### **Smart Router**

- Acts a server instance
- Delegate requests to the right server instance
  - Across different server configurations
  - Based on minimal information.
- Aggregate data
  - From different server instances

# Cloud images

#### The Open-Source Way

- Layered
- Configurable
  - Out-of-the-box configuration
  - Security + SSO
  - JMS, timers, etc.
- Customizable

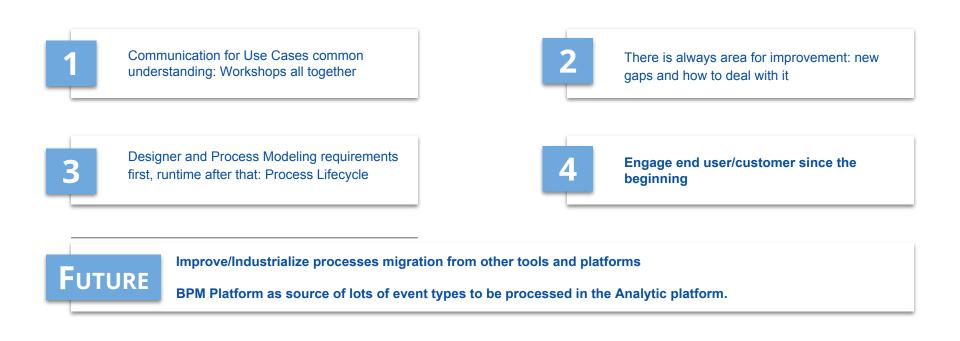


# **Process automation platform - RoadMap**

RHPAM v7

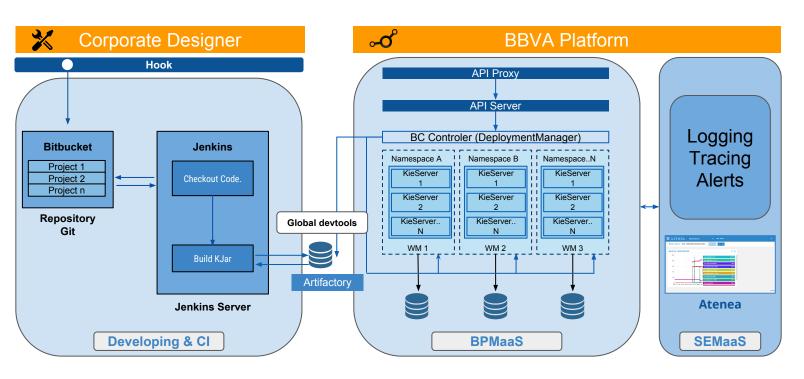
#### **Lessons learnt and future goals**

Our objective is to build a platform to enable truly digital process automation...



### **Advanced Process Automation Capabilities**

#### **BBVA Platform Overview**



**SEMaaS** provides tools to trace (Rho) and log (Omega) code executed in BPM runtime

Atenea console shows all the information related to log traces ,service executions and delays and Alerts