

CMDB & RPA

CMDBuild solution to support RPA journey

CMDBuild Day 2020

vittorio benintende





FCA at a glance

At 31 Dec 2019

13

Commercial Brands

40+

Countries of Operation

130+

Markets

100+

Plants

40+

R&D Centers

192K

Employees

4.4M

Combined Vehicle Shipments*

€108B

Net Revenues

€4.2B

Investment in R&D



FCA model

Geographical coverage





Context

RPA in EMEA and LATAM

FCA Services

Mission

A **shared service center** that delivers business **support services** to customer organizations by:

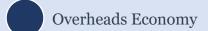
- Deploying common processes, tools and best practices
- Generating synergies across multiples functions area
- Consolidating structures in regional HUBs
- Developing competence and knowledge on SSC core processes
- Continuous improvement and process's reengineering





Shared Qualified

Competences







Value Proposition In Italy, Poland and Brazil, the RPA is a service provided by a join venture between two companies in the FCA Group

FCA ITEM

Mission

FCA ITEM provides **ICT services** and methodologies to the companies of FCA and CNHi.

It **promotes** the **innovation** through: best practices, cutting-edge resources and ICT skills integrated with deep knowledge of business processes.

It also implement **application solutions** and **infrastructural services** for its customers.





ICT ITO



Security



ICT Engineering







Context

Start of the journey

several **POCs** were launched on the processes to **evaluate** the **effectiveness** on the basis of **different** RPA **methodologies** and **platforms**

the establishment of the CoE
began with the acquisition of
functional and technical
skills. The organizational and
operational model was
defined with the
establishment of the
Operational Units

in 2017, FCA Services and FCA ITEM started together on the introduction of the RPA into the FCA Group

a benchmark on private companies is started to verify the success of the methods adopted for the establishment of a Center of Excellence

in late 2018, the offering has been extended to other companies of the Group and a multi layer architecture was take in place to support RPA



What is RPA

Robotic Process Automation in a nutshell

Tireless

work for 24 hours a day and 7 days in a week

Rule Based

Benefits

Take decisions based on predefined paths

Al Enabler

Allow AI to perform concrete actions

Capabilities

Robotic Process Automation
is a set of methodologies and
technologies that enable the
automation of repetitive
activities by means of software
called "software robots" that
interact with systems by
simulating human behavior.

Save Time

Can process multiple actions in a short amount of time

Save Money

Cheaper than human counterparts

Improve Quality

Doesn't make mistakes when carrying out processes

RPA is not a project, RPA is a journey

RPA is not a project you can accomplish in three, six months or one year.

RPA is a journey that involves almost all the business areas of the Company



RPA & RDA

Unattended vs attended automation

Robotic Process Automation

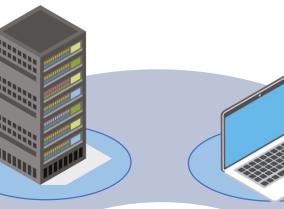
Unattended

Activity performed **in background** or on a **dedicated** host without human assistance

Designed for end-to-end process

Automation started by events or scheduling

Project based



The **automation** strategy

generally referred to "RPA" can be classified in **two** main **families** on the basis of the fact

that the activities are carried

out on a dedicated host (strictly RPA) or on the user's

workstation (RDA).

Robotic Desktop Automation

Attended

Activity performed **on a desktop** with human supervision. The automation is configured as an **assistant** of the user

Designed for single tasks

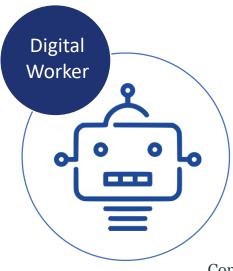
Automation started by the **user**

Task based

Digital Worker

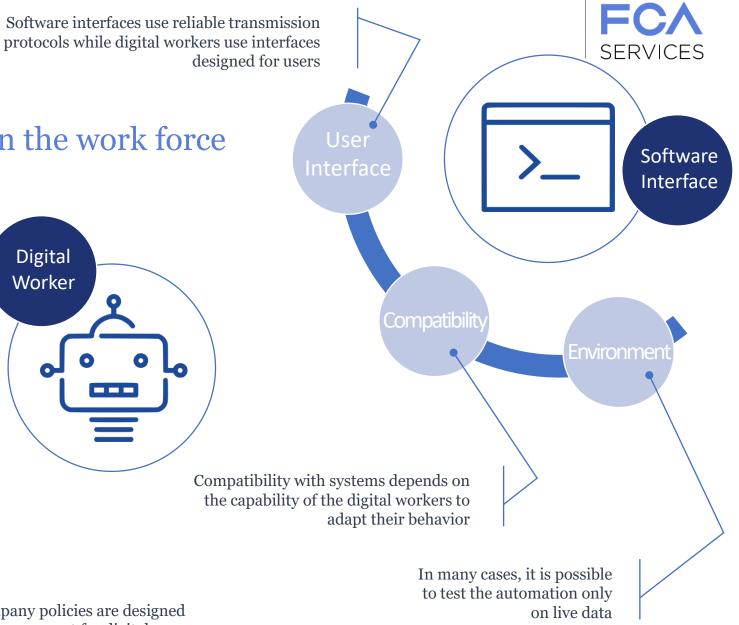
Introducing a new «entity» in the work force

Employees act on their own in most cases Digital workers always act on behalf of someone else Digitalization and standardization are key factors to allow digital workers to acquire any input **Employee** Policies



Compatibility with systems depends on the capability of the digital workers to

Company policies are designed for humans not for digital workers





Why a CMDB?

and why CMDBuild?

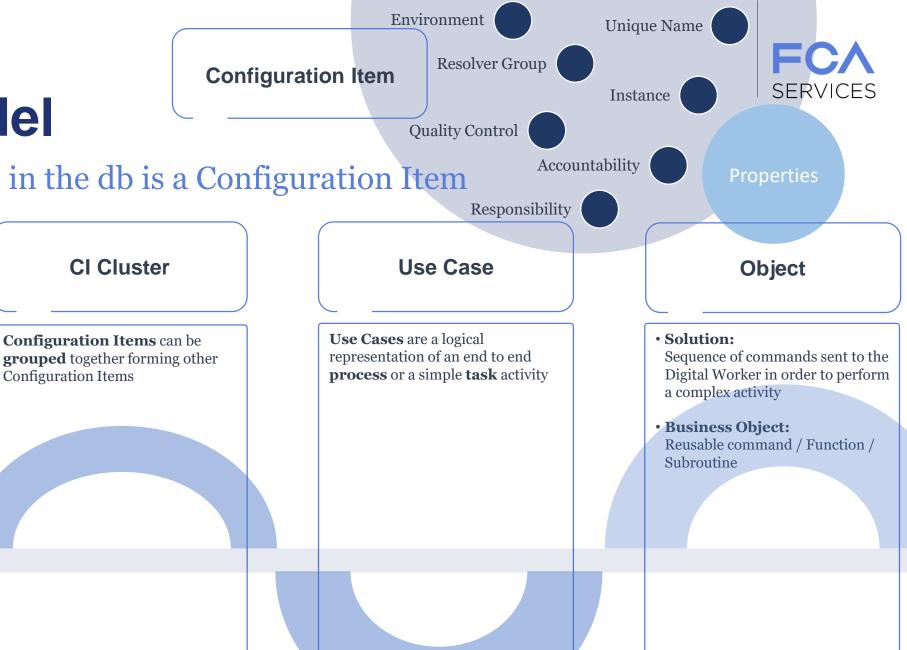
At the beginning of the journey it was clear the need to have a database to manage the RPA but there was nothing ready on the market.

Then the decision to start from a blank page but not from scratch.

CMDBuild provided us the right tools to start in a flick of the switch.

Asset

Asset Collection & Demand Management



Data model

Almost anything in the db is a Configuration Item

Configuration Items

Asset

- Application: Web / ERP / CMS / Mainframe / Shared folder
- Asset Server: Domain Account / Transaction / Web page
- Asset Client: Setting / File / Customizing
- Asset Rule: Policy / Firewall rule / Security constraint
- Application Account: Any access given to an application
- · Host: Any logical representation of a system

Resolver Data model Host Client I Relations between CIs Client II (host) (host) **Application** Client III **VLAN** (host) (CI cluster) Application Account **Firewall** Rule (asset rule) Cls can be linked together to create a web of relations **Printers** that **show** how the (CI cluster) technology is involved Cls can be grouped in Use Case clusters and each cluster can contains other clusters as well WWW (application)



Why a CMDB?

...and why CMDBuild?

Asset Collection & Demand Management

Change Management



and the impact analysis in RPA

Change Management

Enhancement

New functionalities that improve the solution

Corrective

Bug fixing and changes related to **problems** internal to the RPA

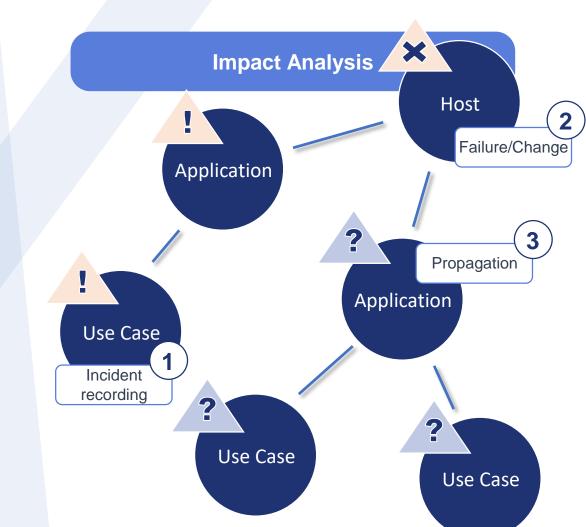
Adaptive

Changes needed to **maintain** the **functionalities** already implemented

Preventive

Changes needed to avoid future incidents



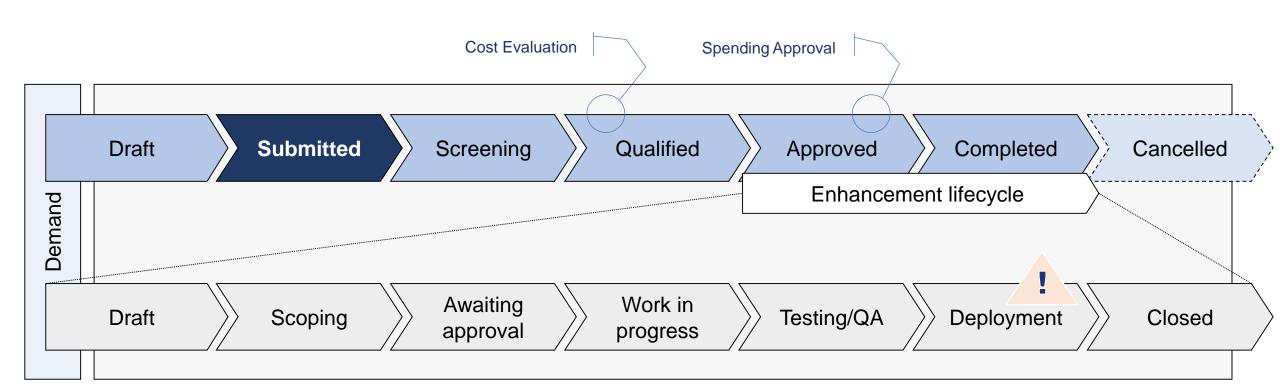




Change management

External enhancements

Enhancements opened on an involved thirdparty's application should be assessed just after the "submitted" step of the demand and before the cost assessment is completed (qualified) so that the RPA Team can promptly evaluate the impact on any automated use cases with the separate preventive enhancement





Why a CMDB?

and why CMDBuild?

Asset Collection & Demand Management

Change Management

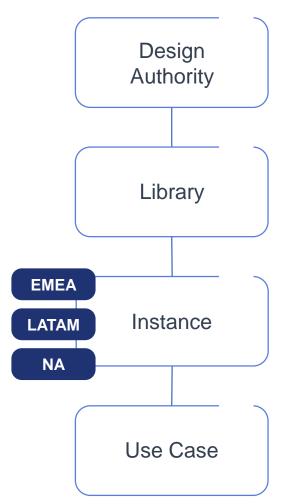


Library Maintenance



Design Authority

and the maintenance of the library



Is a role belonging to the Global CoE Its main function is to validate the design and the deployment of the architecture

Is a logical representation of an object

Objects coming from the library and installed in an environment become a CI

Objects are linked to the activities that make use of them within their instance

Many development teams and just one library

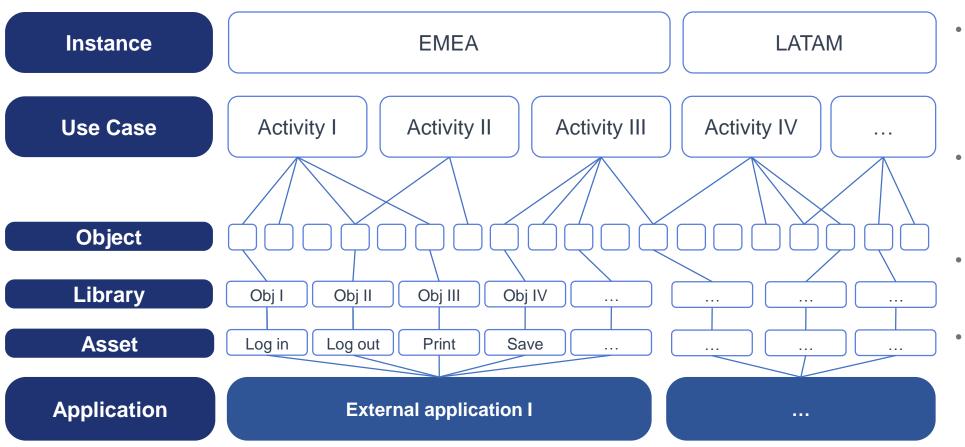
Design Authority
maintains the
development integrity of
the solution and its
constituent activities and
objects.

Moreover has a centralized view of the library to reflect the most up-to-date state of the available solutions and objects



Code reusability

A must-have for multi-instance development



- The library is a set of objects developed upon a single functionality in an involved system.
- Use cases implement the objects needed for the execution of the activity
- There is just one repository of the library
- Any change to the library is validated by the Design Authority



Object declaration

How the DA validate the design

Design Build & Test UAT Deploy Document the current process at keystroke level Acquire requirements for design. Deploy Deliver the release package and generate a test condition plan Deploy the solution in production.

New object

A **new object** is requested.

DA evaluate whether it is better to extend an existing object

Use only

The request is for **use** an already **existing object**.

Modify

The request is for **modify** an **existing object**

NRT are implemented in **all instances**

Extend

The request is for **extend** an **existing object**NRT are needed just in the **involved**

instance



Thank You

