



## BACKGROUND

- Information technology important part of organizations
- Determinate how services and products are adapted
- Systems capable of responding to the constant challenges of adaptation.

Business Process Management Notation (BPMN), when applied to information systems, are the most efficient process of meeting business challenges

## OBJECTIVES

- Impact and sustainability of the development in a web tool the implementation of a business process, based on its modeling in BPMN notation. And its interpretation through a BPMN execution model.
- It is intended to determine how the development of applications based on this type of modeling when implemented in an information system improves the operation of the business processes of an organization.

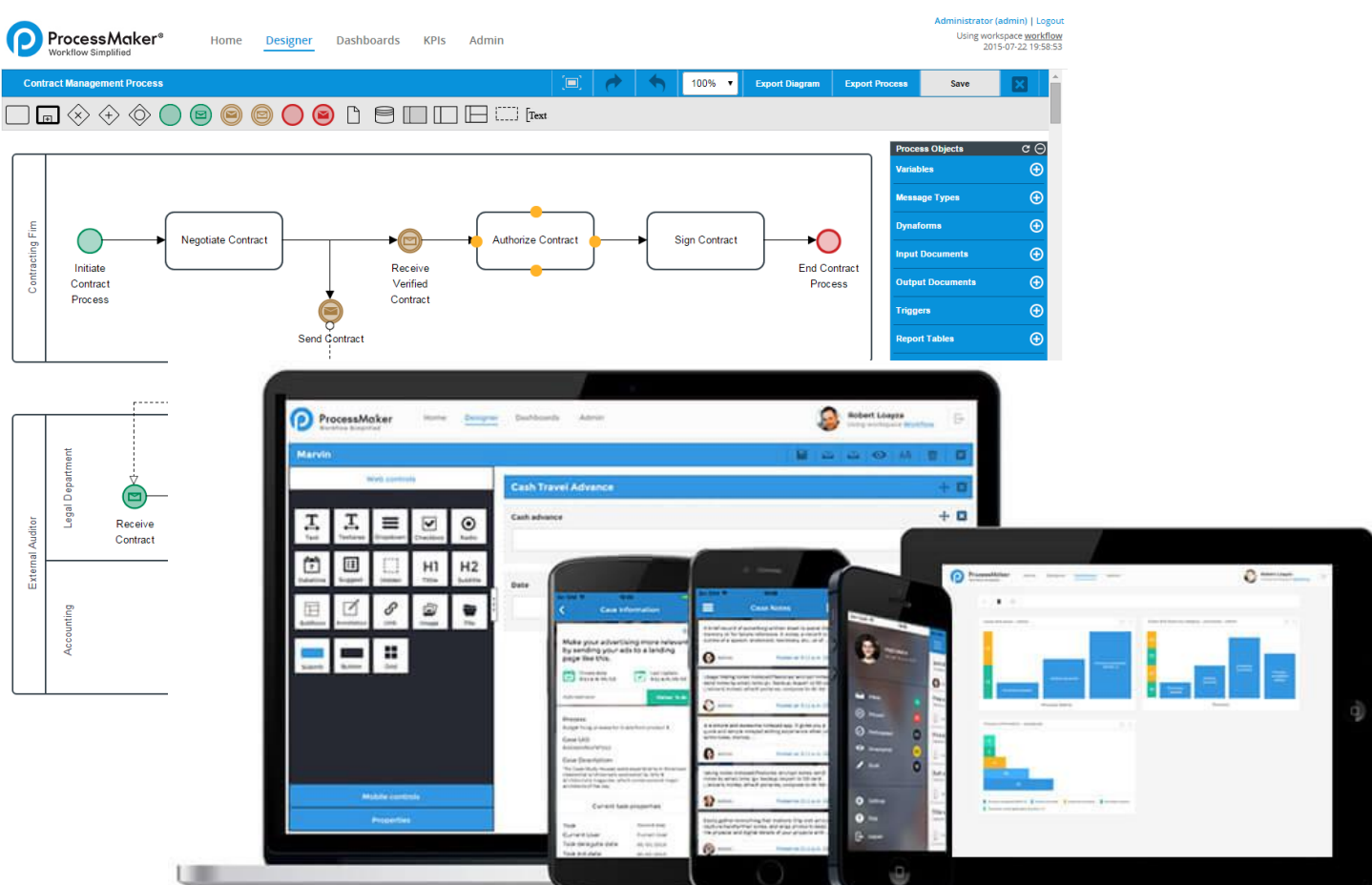
## METHODOLOGY

- Bibliographic research on BPM concepts and their modeling on the BPMN2 standard.
- Research and selection of BPMS tools for project modeling
- Use of open Source applications;
- Survey of functional and non-functional requirements
- Integration tests (BPMS Tool and Internal ERP and DBMS)
- Model design, web interfaces and connections
- Application Testing



## RESULTS AND CONCLUSIONS

- Can management web applications be developed using BPMN modeling tools?
- Providing a web tool for submitting urban planning processes.



## BIBLIOGRAPHY

- Assembleia da República. (21 de junho de 2011). Diário da República. Obtido de Lei n.º 36/2011 Estabelece a adoção de normas abertas nos sistemas informáticos do Estado:
- Baldam, Roquemar ; Abepro, Associação; Rozenfeld, Henriq ;. (2014). Gerenciamento de Processos de Negócio - BPM: Uma Referência para Implantação Prática. Elsevier Brasil.
- Chinosi, M., & Trombetta, A. (2012). BPMN: An introduction to the standard. Computer Standards & Interfaces 34, 124-134.
- Conselho de Ministros. (8 de novembro de 2012). Diário da República. Obtido de Resolução do Conselho de Ministros n.º 91/2012: <https://dre.pt/application/file/191922>
- Jeston, J., & Nelis, J. (2014). Business Process Management. Elsevier.
- Object Management Group, I. (22 de Novembro de 2016). Business Process Model and Notation. Obtido de <http://www.bpmn.org/>
- ProcessMaker. (22 de Novembro de 2016). ProcessMaker BPM & Workflow Software. Obtido de <http://www.processmaker.com/>
- Sharp, A., & McDermott, P. (2009). Workflow Modeling - Tools for Process Improvement and Applications Development - Second Edition. ARTECH HOUSE, INC.
- Stiehl, V. (2013). Process-Driven Applications with BPMN. Walldorf, Germany: Springer.
- Weske, M. (2012 Edition). Business Process Management: Concepts, Languages, Architectures 2nd ed. Springer.