



Making Business Processes Dance to the User's Tune

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edorasware

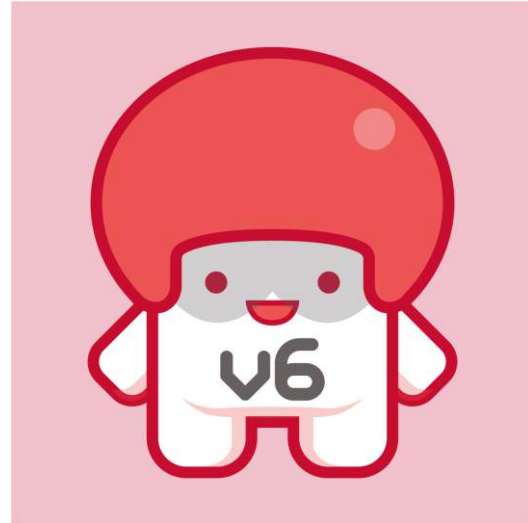
- Swiss company founded in 2010
- Case management platform based on Flowable BPM engine
- Primarily customers in Finance and Insurance



- Forked from Activiti open source by core architects in 2016
- Released V6 BPM engine in February
- Core team merged with edorasware in April

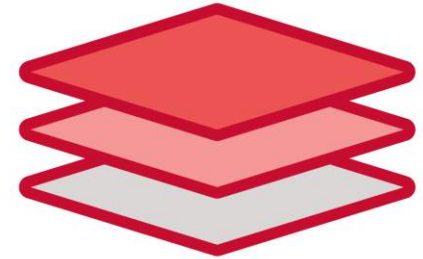
Flowable V6

- Major rewrite of internals
 - Data sources
 - "Native" BPMN
- Simple to upgrade from v5



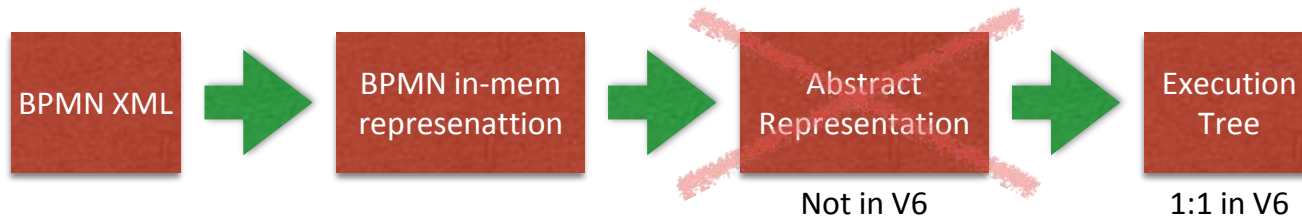
Flowable V6 Data

- Abstract data sources: relational or not
- Process entities
 - Tasks, Jobs, ...
 - Each can be mapped to its own data source
 - Not necessarily the same type



Process Execution

- V5 based architectures map BPMN to a Process Virtual Machine (PVM)
- Abstract operations on Execution Tree



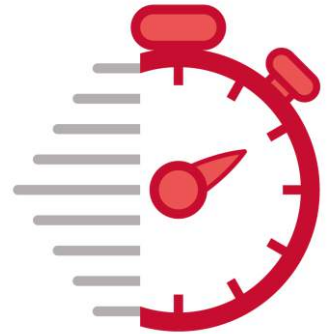
Flowable V6 Engine

- 1:1 relationship between BPMN and execution instructions
- Avoids oddities and edge cases coded in core instructions
- No mapping to abstract PVM



Flowable V6 Engine

- No complex optimizations on execution tree
- Runtime execution tree is predictable and consistent
- Execution tree safely modified dynamically



Dynamic Modification of Process Instances

- Why would you want to edit a running instance?
 - "Stuff" happens – can't anticipate everything
 - Human or machine
 - IoT will create a lot of "stuff"



Business Benefits

- User needs no knowledge of BPMN model or modeling
- Creates a model derived from a standard process
 - Standard analytics includes adapted instances
 - Audited and reusable



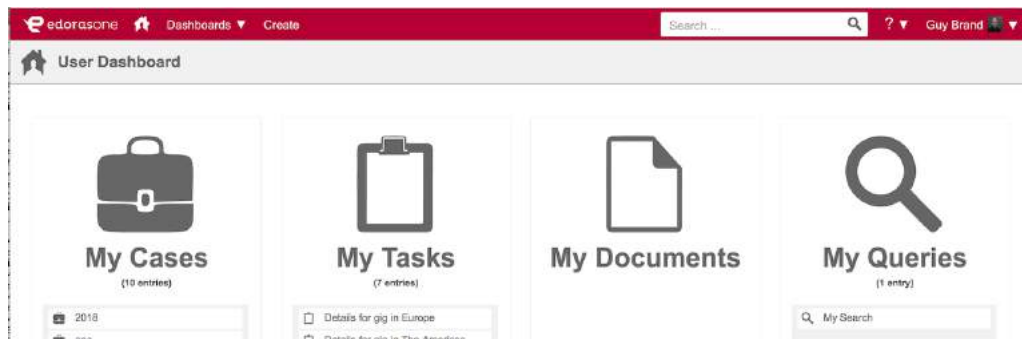
Business Benefits

- Human intelligence decides an exception is needed
 - “Anytime” security / credit checks
- Machine Learning suggests something should be done
 - In similar situations in the past, we did this



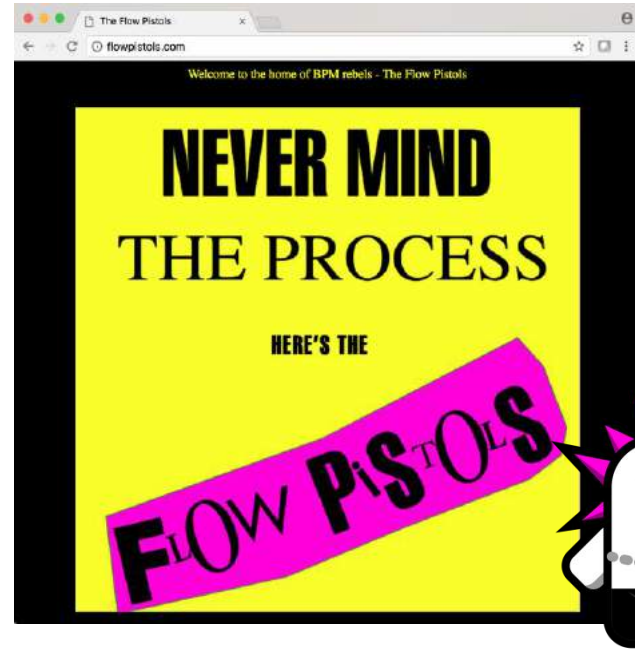
Dynamic Case Management

- edoras one
 - Model-based (BPMN, DMN, CMMN)
 - Dynamic task management & web components
 - Flowable V6 brings dynamic processes



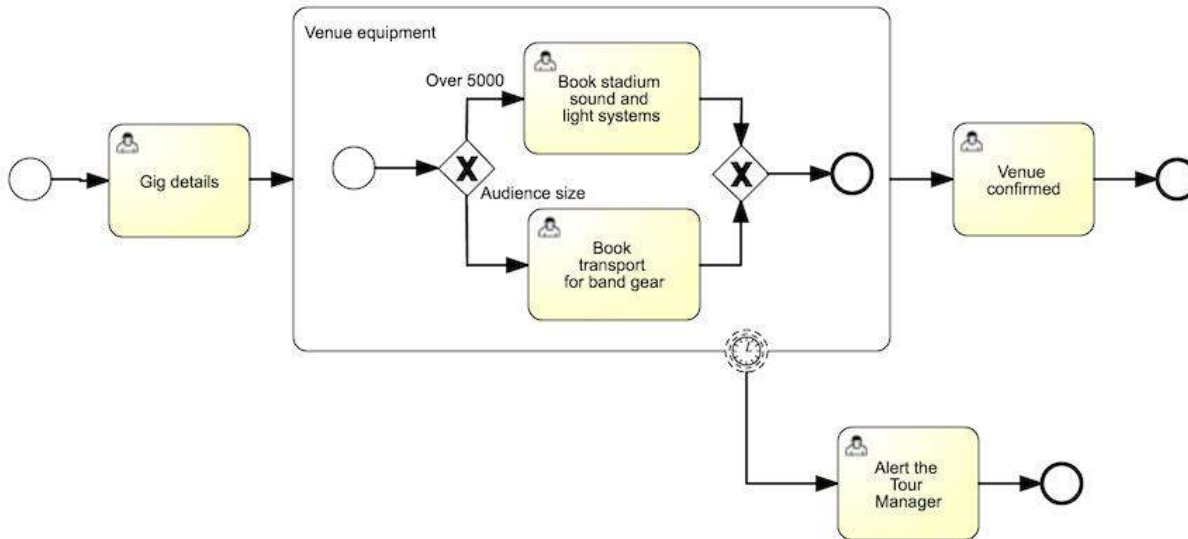
Demo Time

- Arranging a World Tour for a band
 - Create a case for the tour
 - For each date, run a process to arrange the gig



Arranging a Gig

- Simple process to get details and arrange appropriate equipment



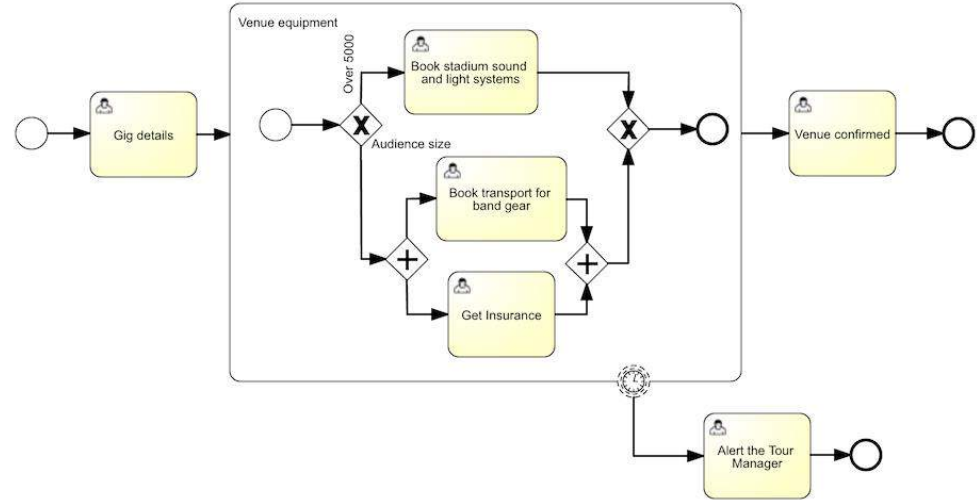
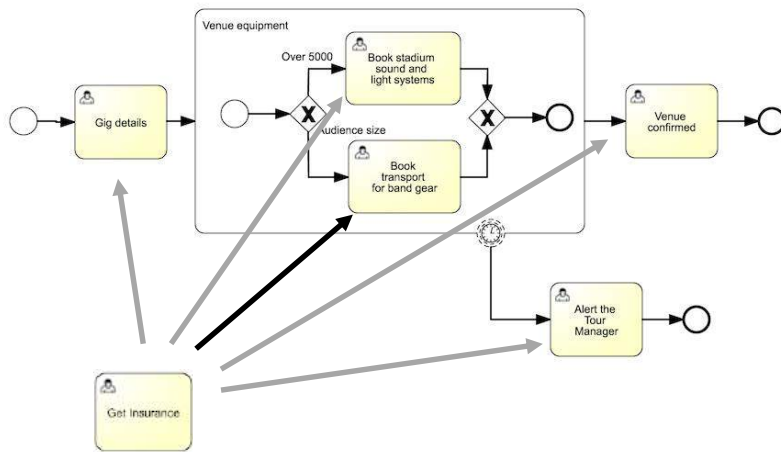
Brexit Impact

- French government decides require additional insurance for commercial traffic from the UK
- Already do this for non-EU countries
- Effective immediately!



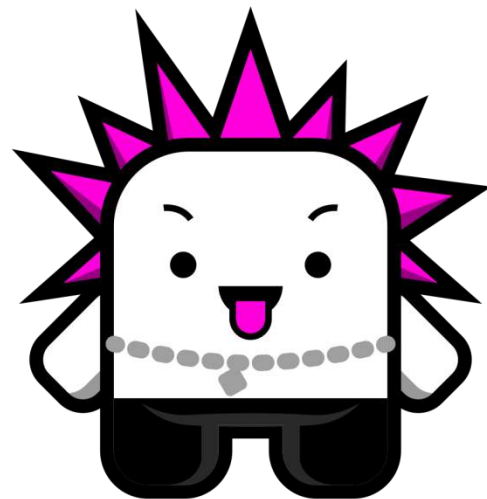
Add a task at runtime

- Inject any task anywhere in a process instance



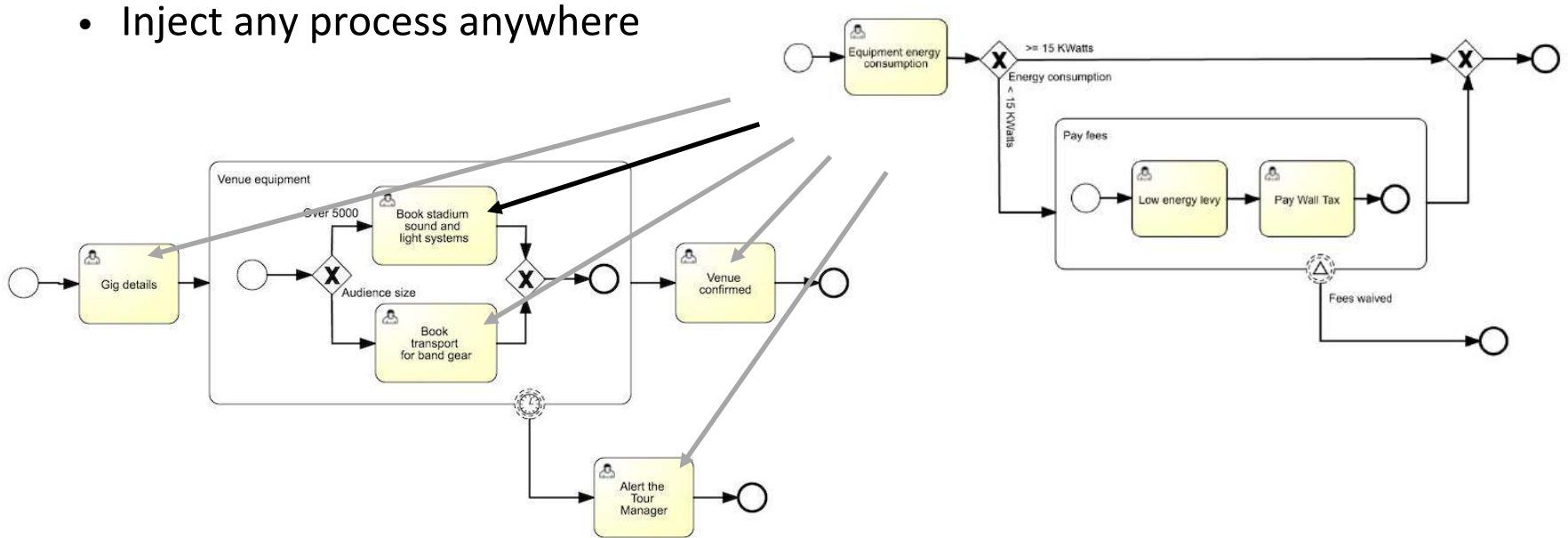
Trump Impact

- Planned energy tax levy
 - Effective date brought forward
- Low energy commercial usage penalized
- Help the economy by using more fuel



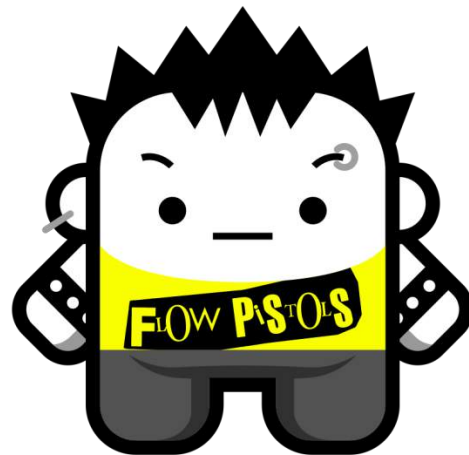
Add a process at runtime

- Inject any process anywhere



Why is this different

- Flowable V6
 - User selects a process to add anywhere in any running instance
 - Simply and safely insert into execution tree
- V5 architectures
 - Execution tree complex
 - “Non-trivial” for all cases



More dynamic features more easily

- V5 architectures
 - Event subprocess - only option is terminate
 - Only move state for simple cases
- Flowable V6
 - Easily added Event subprocess continuation
 - Move state anywhere

