

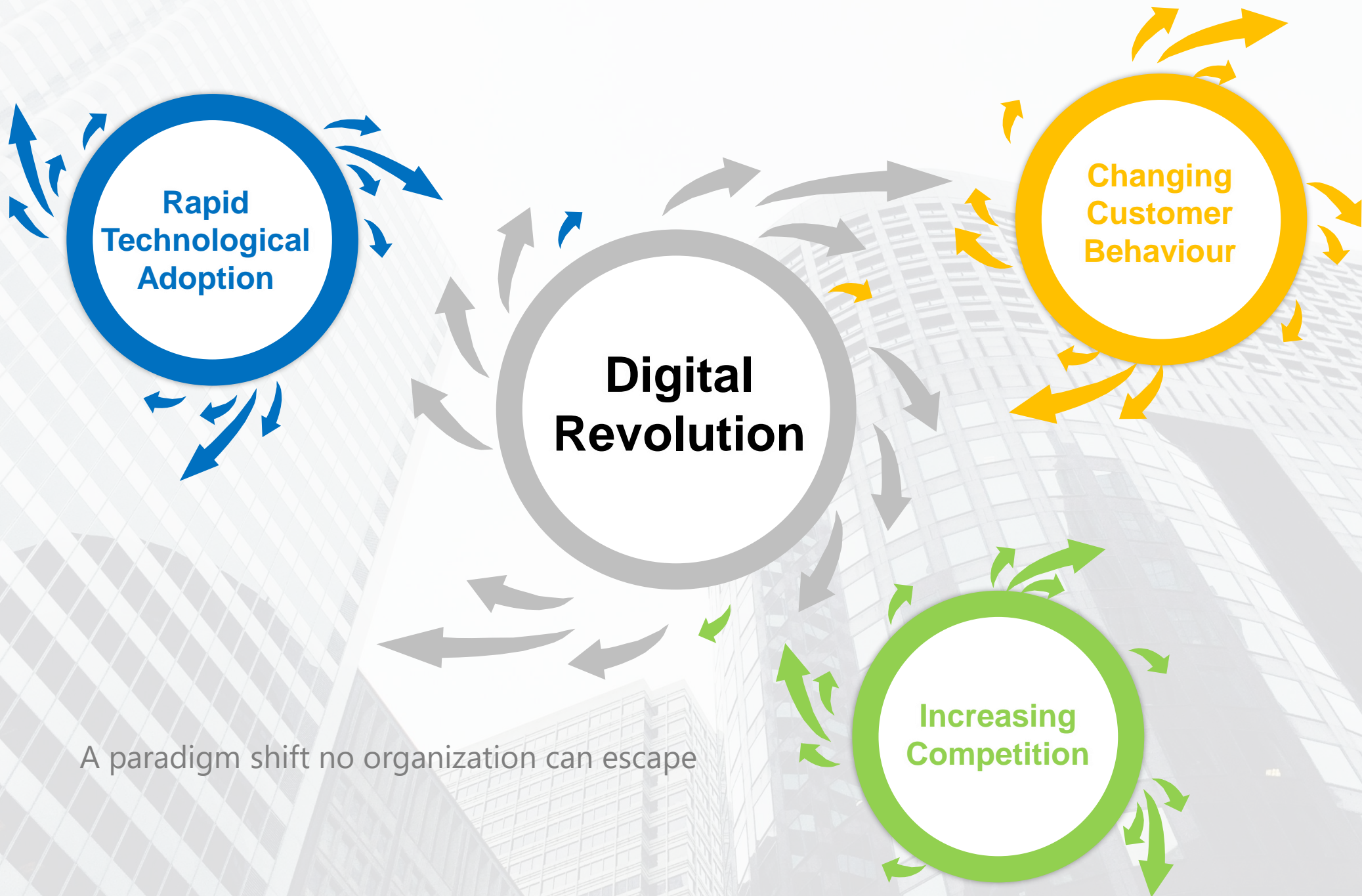
BPMN + CMMN + DMN

An overview

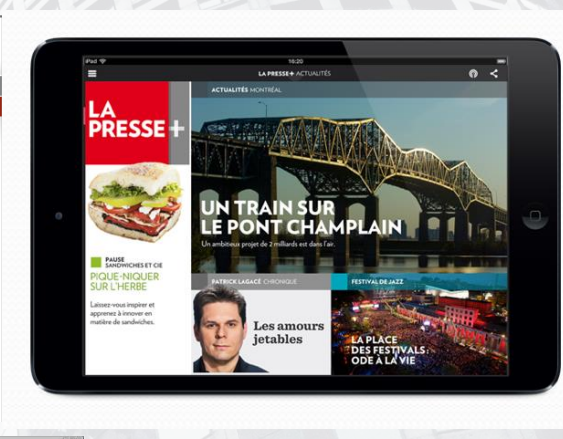


Denis Gagné

Chair BPMN MIWG at OMG
BPMN 2.X Team Member at OMG
CMMN 1.X Team Member at OMG
DMN 1.X Team Member at OMG
Chair BPSWG at WfMC
XPDL Co-Editor at WfMC



A paradigm shift no organization can escape



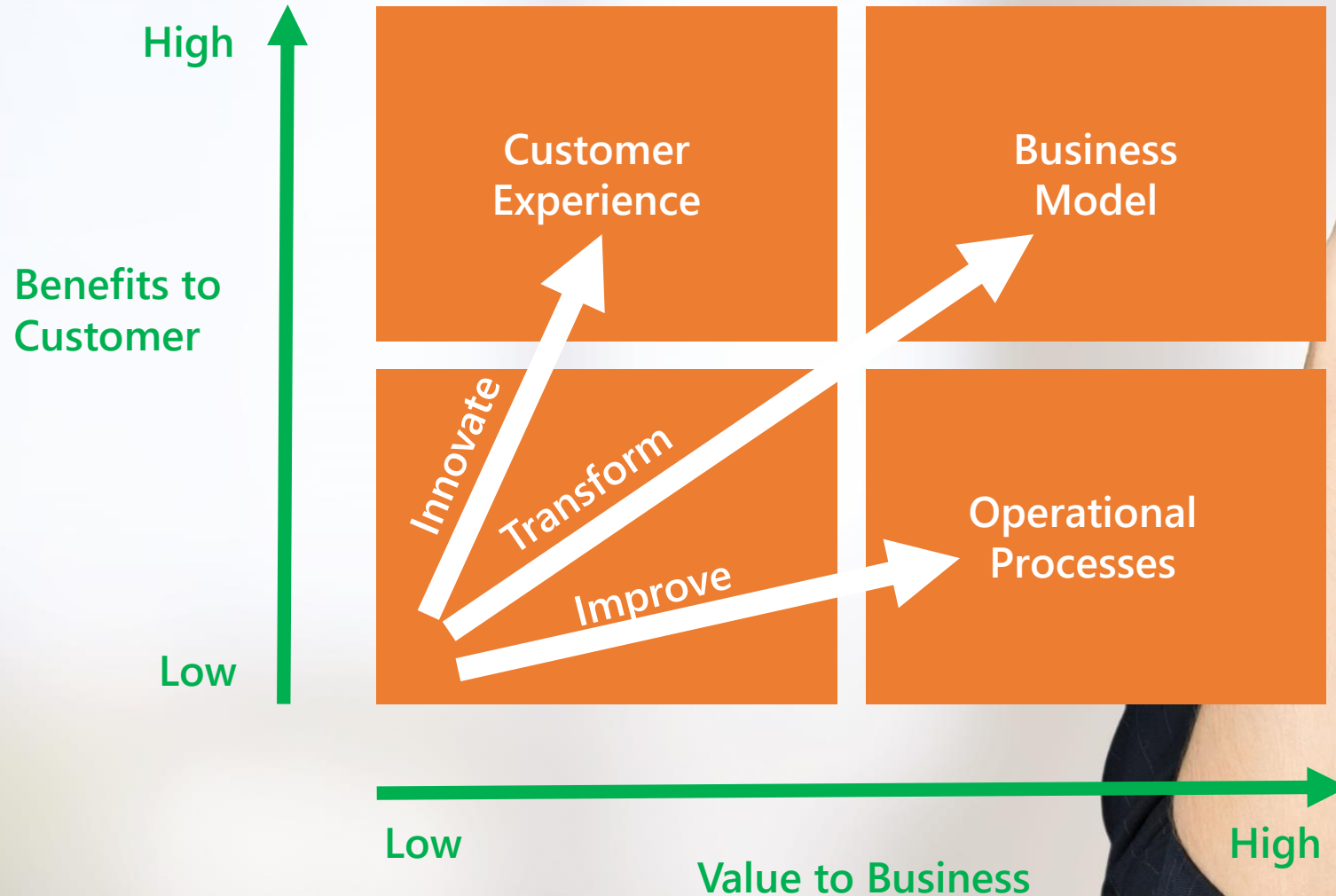
Dx

Evolve or die

Digital Transformation

Focus on Outcome

Creating new business models and new forms of customer engagement by leveraging knowledge worker abilities





Improve

Doing the same thing better

Innovate

Doing new things

Transform

Doing new things that makes the old way obsolete

Enterprise Architects



Business Architects



LOB Managers



Stakeholders
perspectives

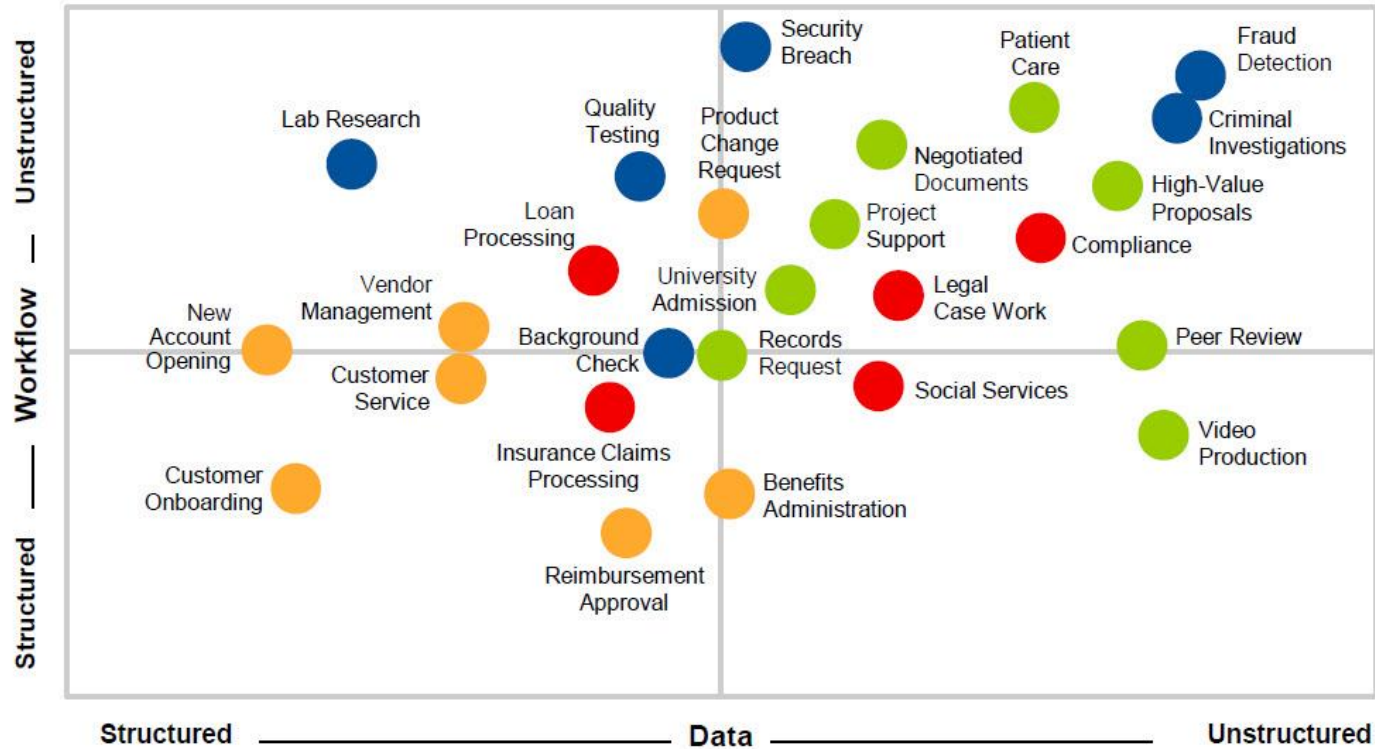
Business Analysts



Business Executives

Process Analysts

Types of Work Efforts



Key

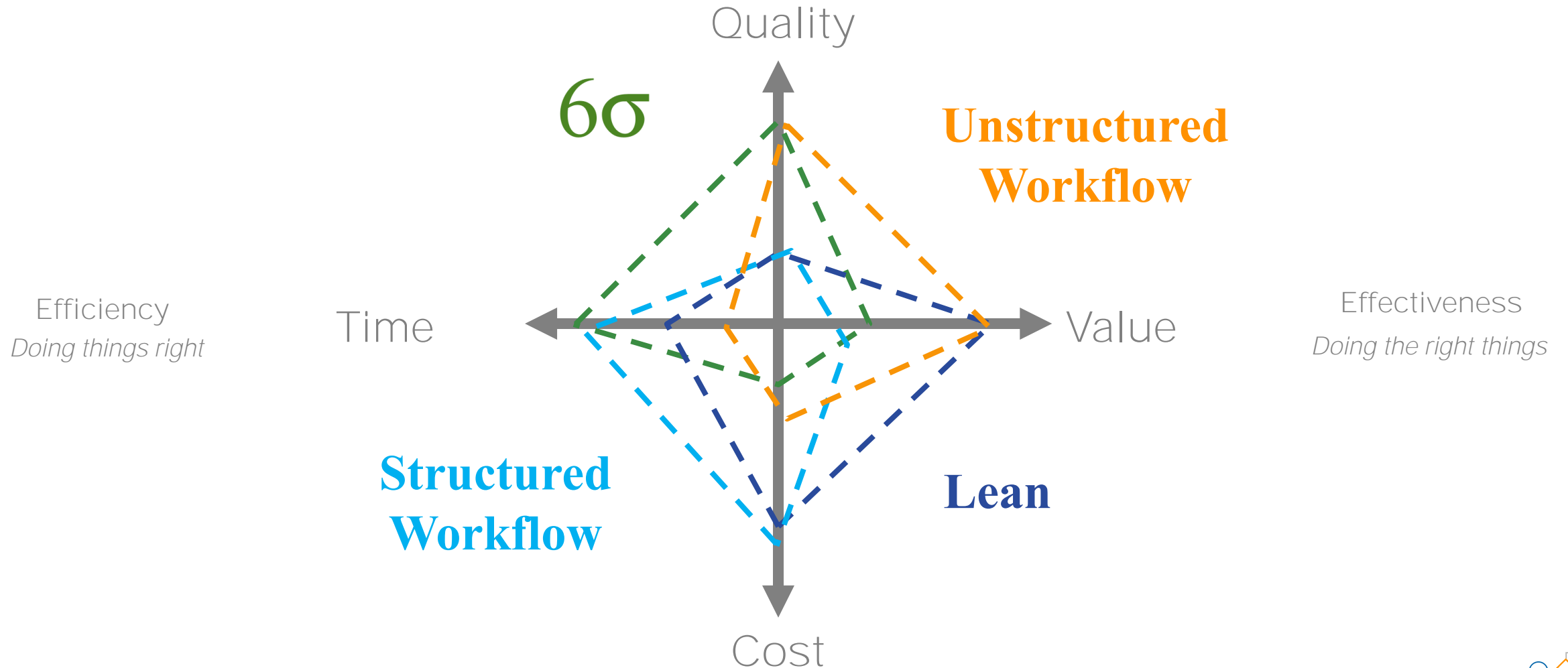
Orange: Service Request (workflow-heavy)

Blue: Investigative (data-heavy)

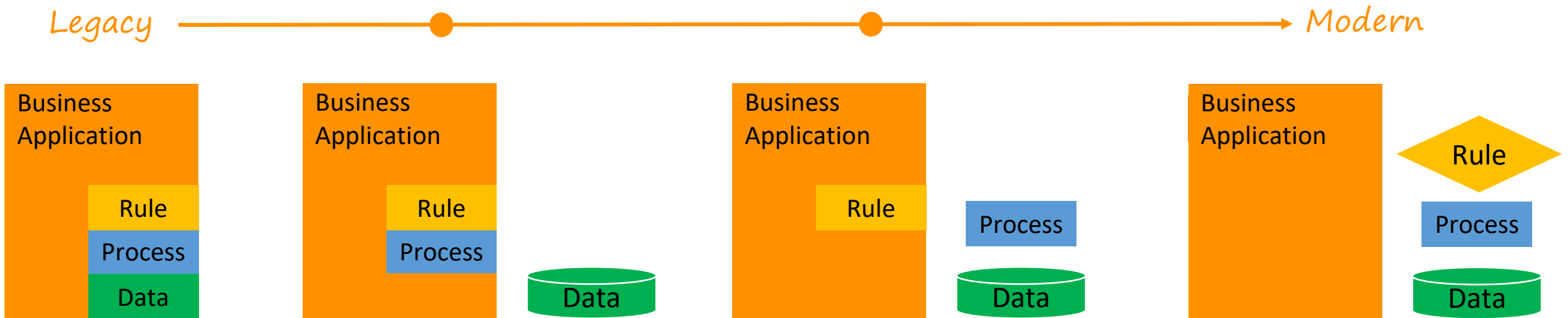
Green: Incident (collaboration-heavy)

Red: Process to Decision (rules- or policies-heavy)

Improving Work Efforts



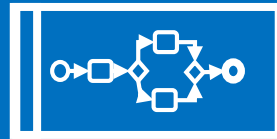
The evolution of business applications



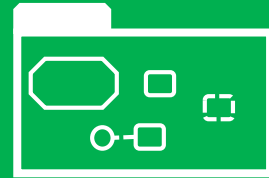
“Giving back control to business”

From systems of records to systems of engagements

Business Analysts toolbox



Process Management

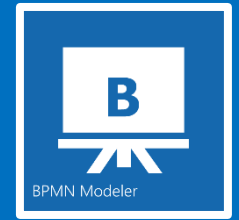


Case Management

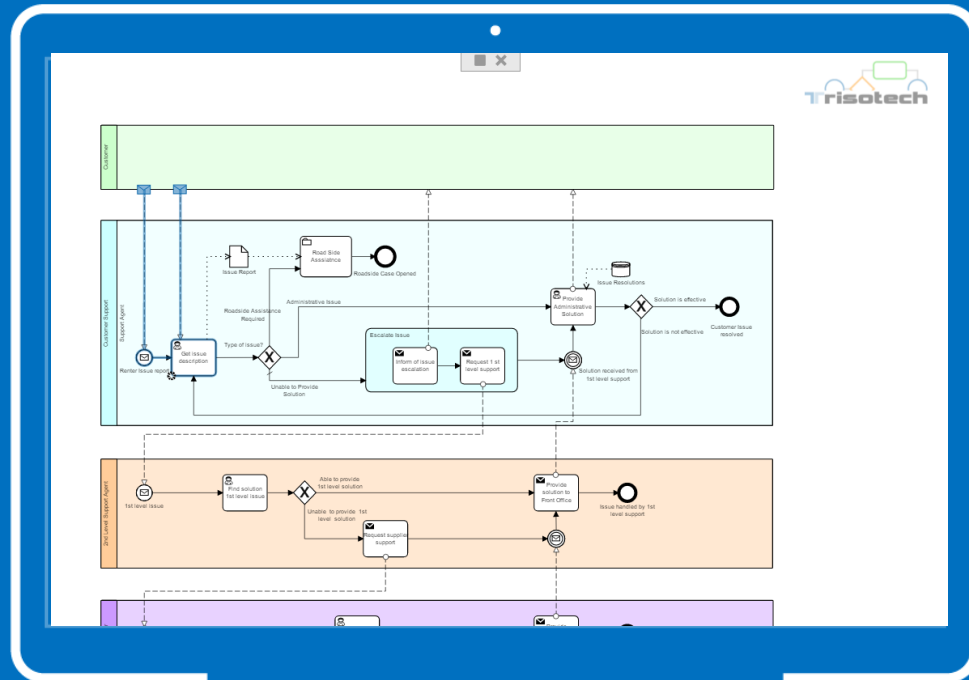


Decision Management

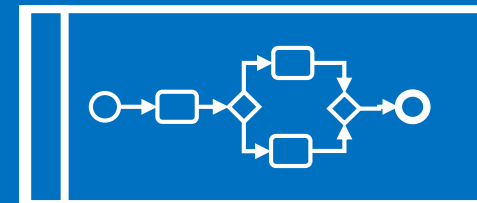




BPMN

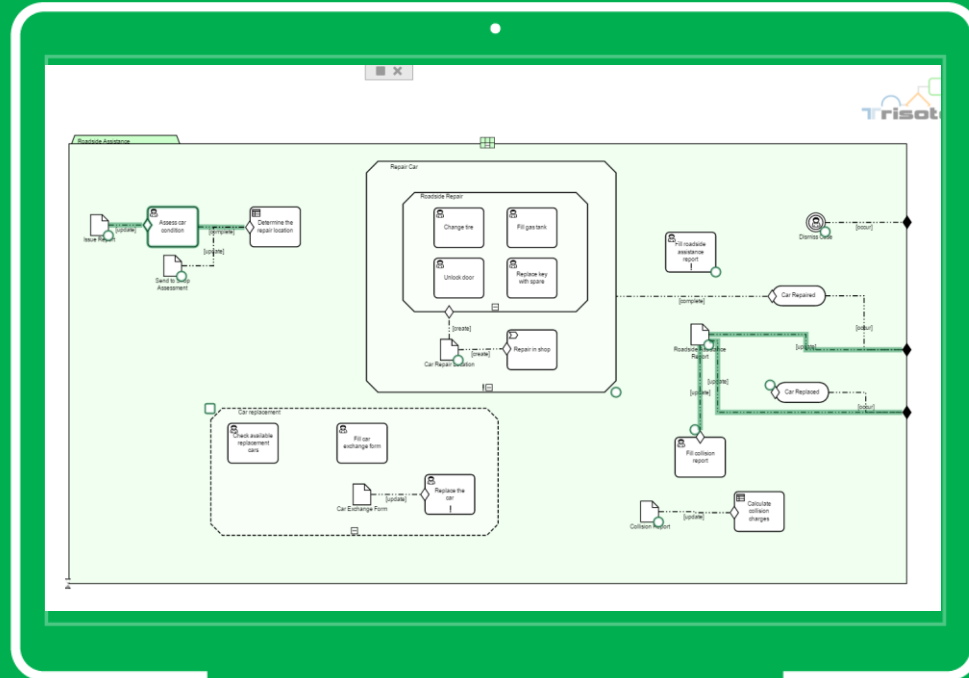


Process Management

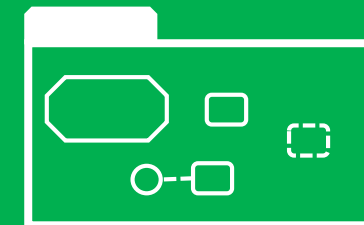


A disciplined approach that allows organizations to become more efficient

CMMN

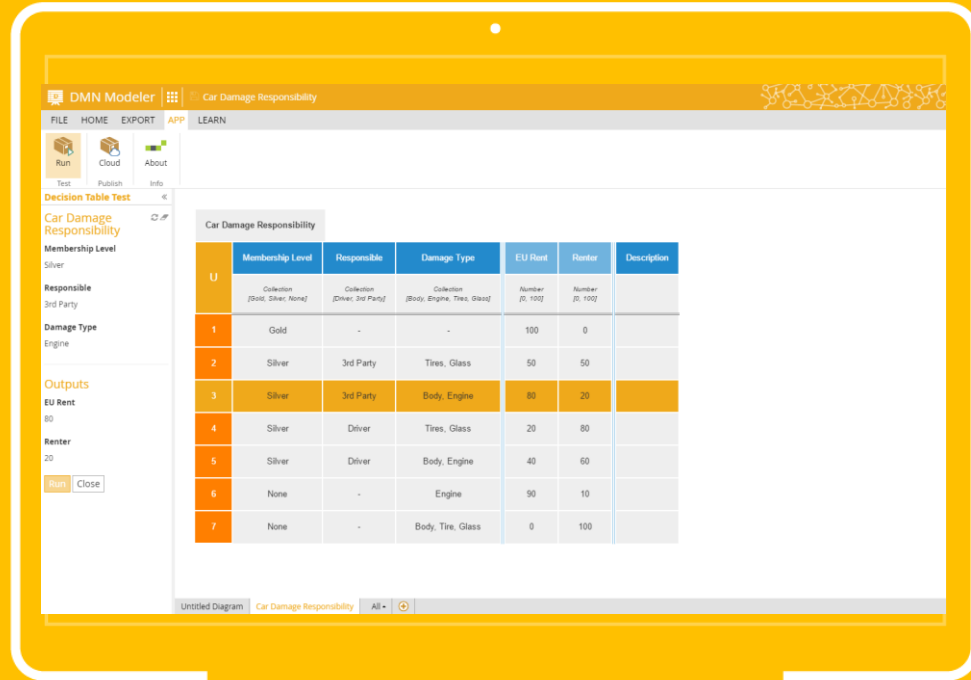
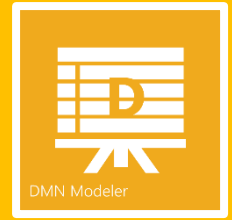


Case Management



A paradigm shift to support knowledge-intensive work

DMN



Decision Management



Increases an organizations agility and adaptability by defining both the requirements of and the logic of business decisions

What are BPMN, CMMN and DMN



Business Process
Model & Notation



Case Management
Model & Notation



Decision
Model & Notation

- Languages for describing operations
- Means to Ends
- Tools not Solutions

Why use BPMN, CMMN or DMN



- Unambiguous format for modeling processes, cases and decisions
- Can be interchanged between different vendors' products
- Provide common and readily-transferable skills that are learned by analysts

When to use BPMN, CMMN or DMN



is about Processing






is about Managing



is about Deciding

When to use BPMN, CMMN or DMN

 DMN	 BPMN	Variable	Every work effort instance looks slightly different
		Unpredictable	The exact course of action is unknown and highly situation specific
	 CMMN	Emergent	The exact course of action only emerges during process execution when more information becomes available



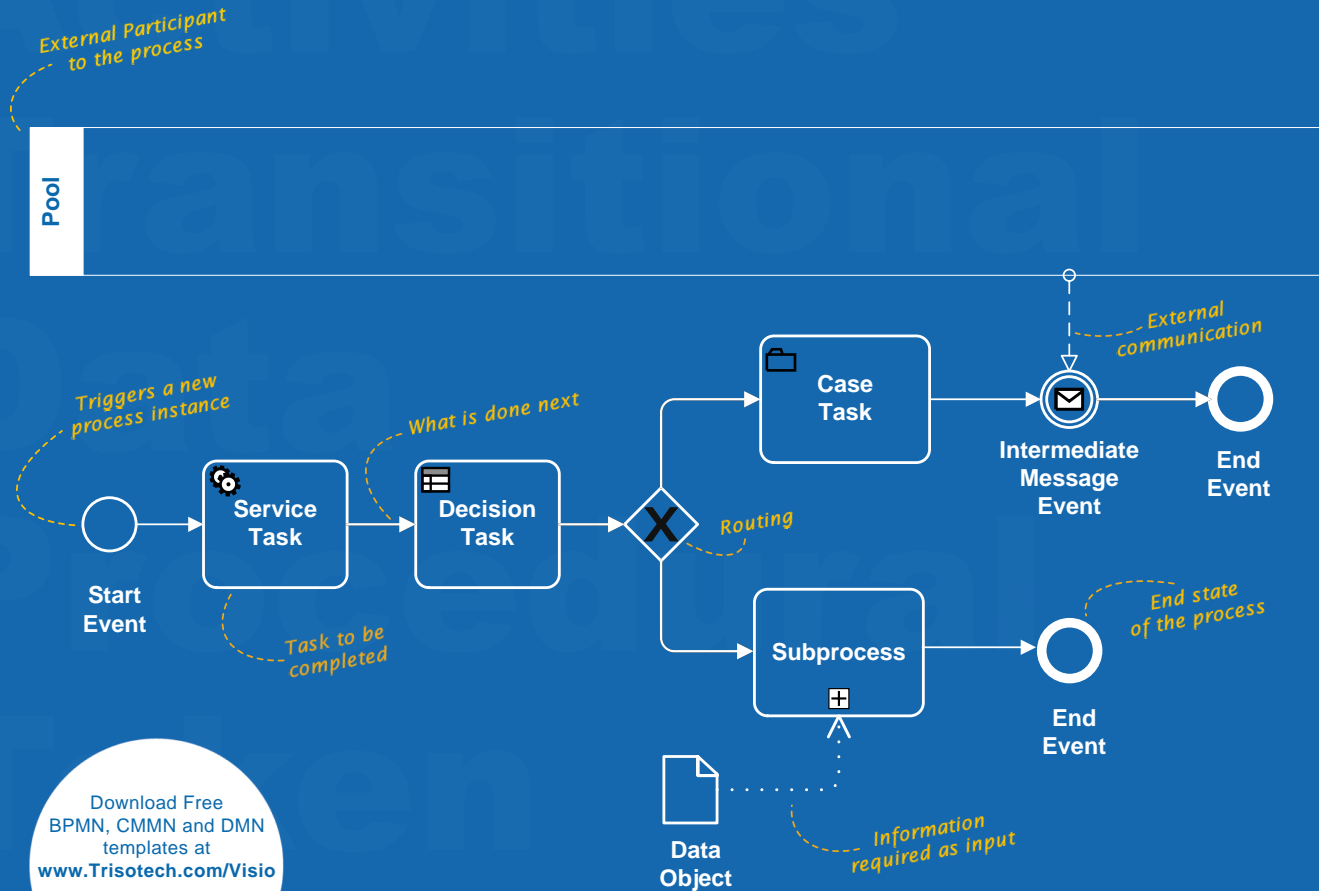
What is BPMN



- What is BPMN?
 - **B**usiness **P**rocess **M**odel and **N**otation
 - BPMN is a standard published by the Object Management Group (OMG).
- Why **BPMN** matters?
 - Universal graphical notation for drawing business processes
 - Readily understandable by business stakeholders
 - Aim to bridge the gap from modeling to subsequent implementation
- Current Status
 - BPMN 2.0 is the current version



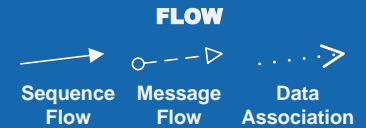
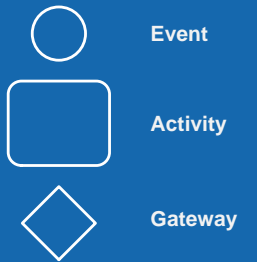
BPMN is a universal graphical notation for documenting business processes and driving process improvement initiatives. It enables a disciplined process approach that allows organizations to become more efficient.



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BASIC ELEMENTS



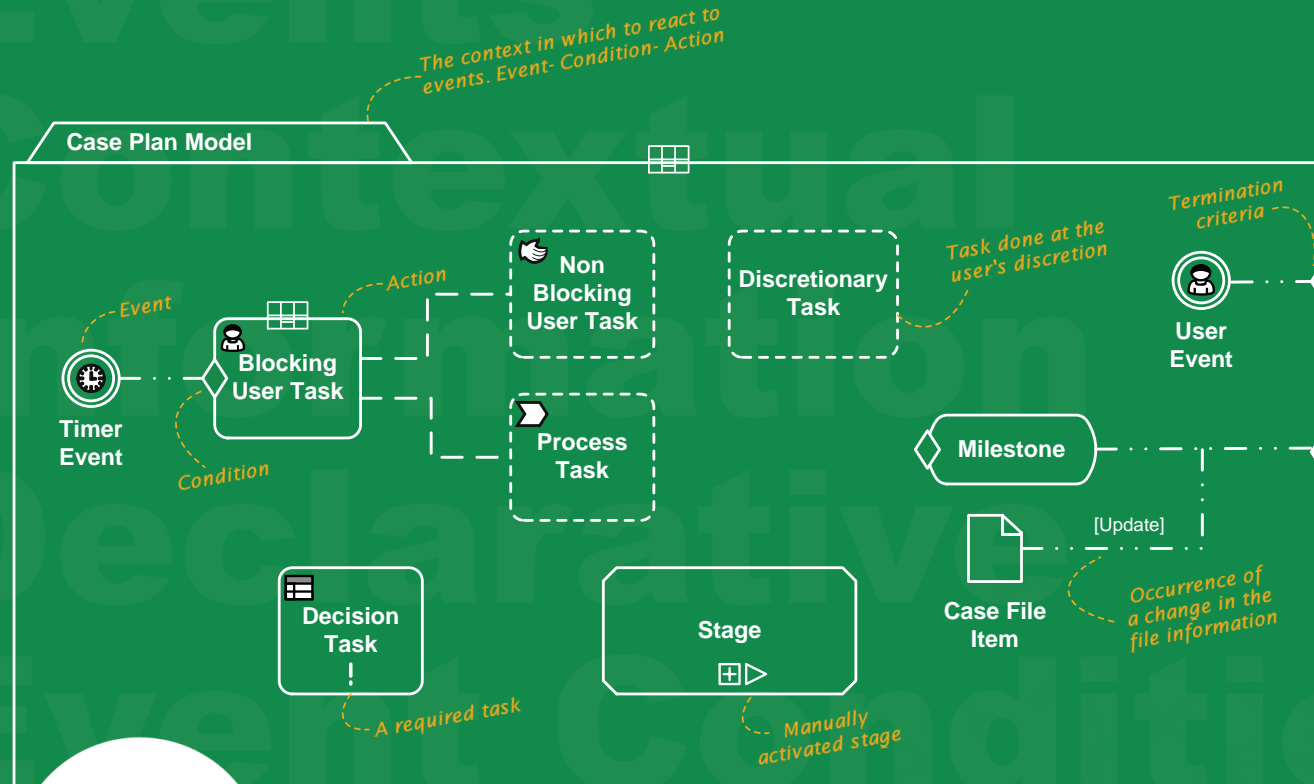
BPMN Quick Guide
A simple, basic, yet complete, BPMN reference accessible to everyone.
www.BPMNQuickGuide.com



- What is CMMN?
 - **C**ase **M**anagement **M**odel and **N**otation
 - CMMN is a standard published by the Object Management Group (OMG).
- Why **CMMN** matters?
 - A common meta-model and notation for modeling and graphically expressing a Case
 - Aim to model activities that depends on evolving circumstances and ad hoc decisions by knowledge workers
 - Provides flexibility via planning at run time
- Current Status
 - CMMN 1.0 released May 2014
 - CMMN 1.1 Beta March 2016



CMMN offers a common notation for graphically expressing work patterns that require management of a case. It enables a paradigm shift from prescriptive processes to supporting knowledge-intensive work facing uncertain contexts.



BASIC ELEMENTS

EVENT



Event Listener Case File Item

CONDITION



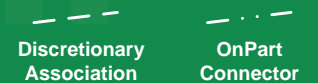
Criterion

ACTION



Task

CONNECTOR



Discretionary Association

OnPart Connector

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What is DMN



- What is DMN?
 - **D**ecision **M**odel and **N**otation
 - DMN is a standard published by the Object Management Group (OMG).
- Why **DMN** matters?
 - A common meta-model and notation for describing and modeling repeatable Business Decisions
 - Enables various groups to effectively collaborate in defining a Decision Model
 - Provides a standard notation for Decision Tables
- Current Status
 - DMN 1.1 released Jun 2016



DMN provides a modeling notation to capture business decision requirements and decision logic. It increases an organization's agility and adaptability by capturing the business decisions independently from where they are used.



Decision logic using a Decision Table

	inputs		outputs	
U	Input Data 1	Input Data 2	Decision 2	Description
	<i>Boolean true, false</i>	<i>Boolean true, false</i>	<i>Boolean true, false</i>	
1	true	true	true	
2	true	false	true	
3	false	true	true	
4	false	false	false	

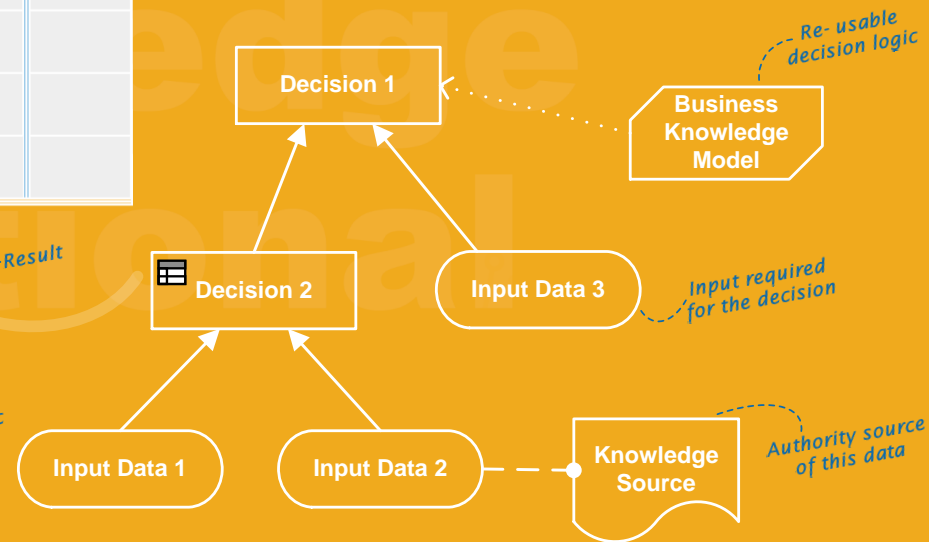
Each row is a rule

Conditions

Result

Defined decision logic

Decision Requirement Diagram (DRD)



BASIC ELEMENTS



Decision



Input Data

REQUIREMENT



Information Knowledge Authority

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First Class
Citizens
Focus
Semantics

Processes

Cases

Decisions

Activities

Events

Rules

Transitional

Contextual

Applied

Data

Information

Knowledge

Procedural

Declarative

Functional

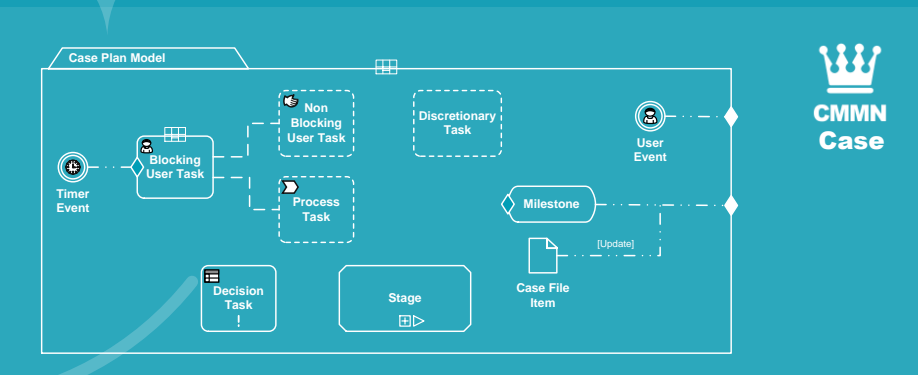
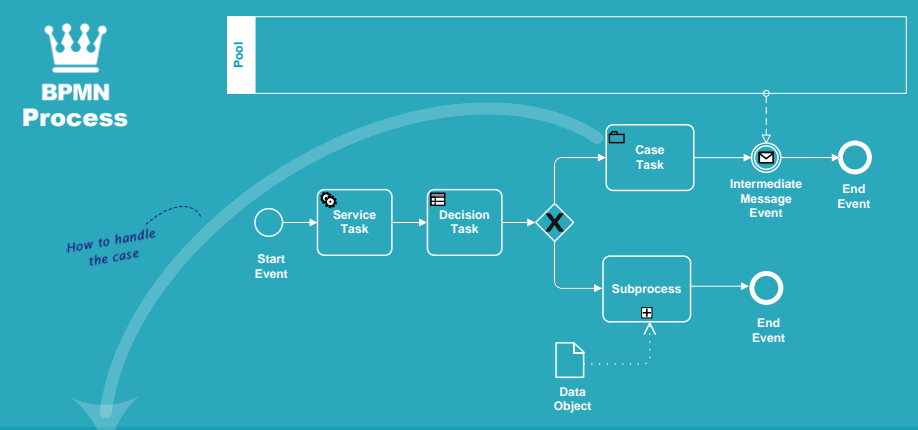
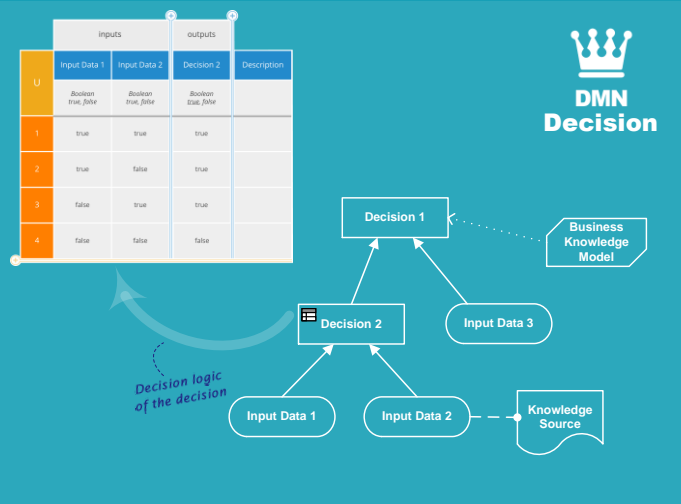
Token

Event Condition Action
(ECA)

First Order Logic
(FOL)



BPMN, CMMN and DMN are truly the triple crown of process improvement standards, supporting process management, case management and decision management initiatives. Together they enable end to end modeling of your operations.

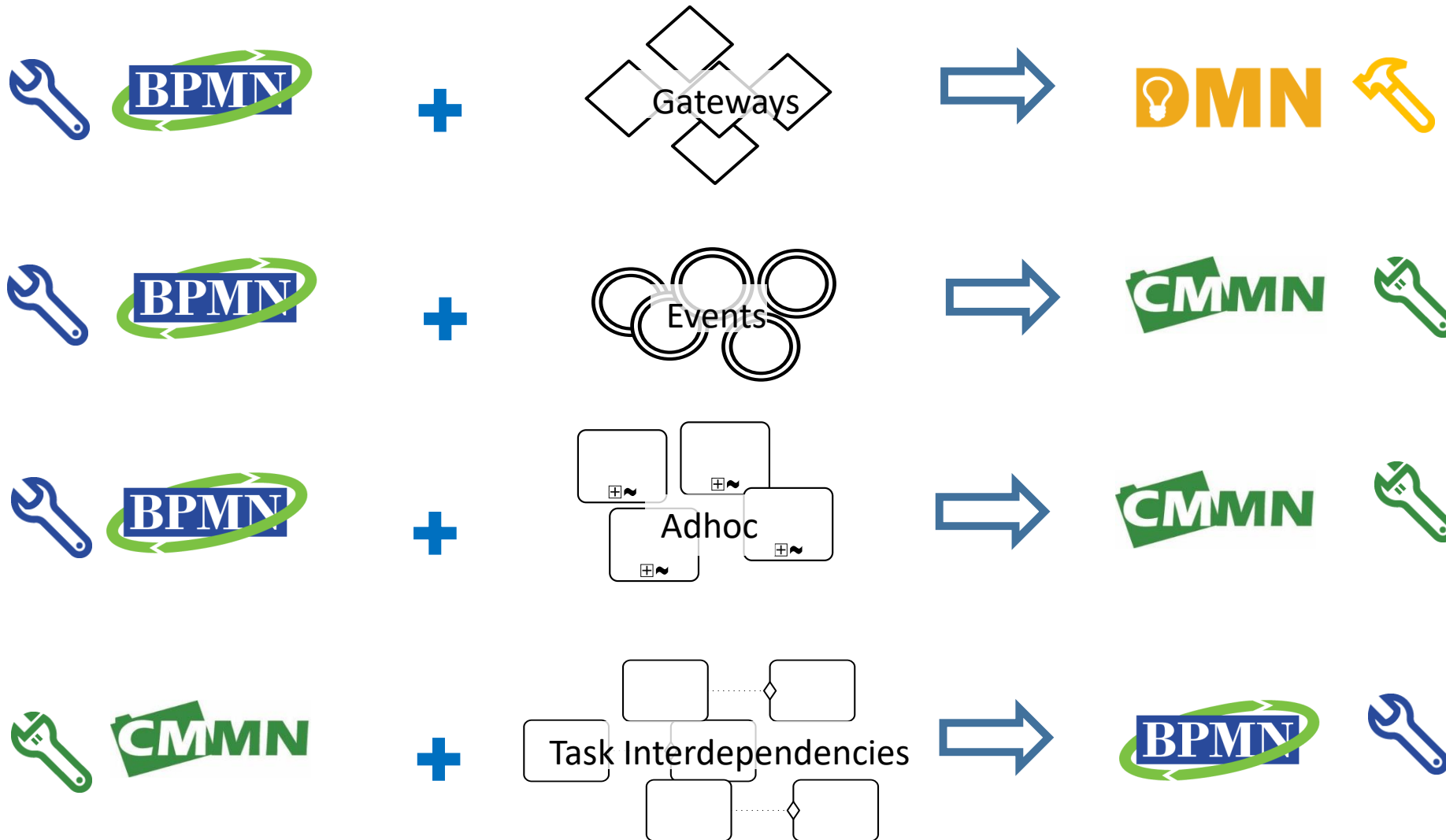


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Best Practices



NextGen BPM

- Agile
 - Adaptive
 - Leveraging Knowledge Workers
- Smart/Intelligent
 - Knowledge focused
 - Leveraging Business Goals, Business Rules
- Contextual
 - Information focused
 - Leveraging Business Events





FREE

- ❖ BPMN, CMMN & DMN Visio Templates
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