

Balancing Automated and Human Decisioning

One of the most prominent challenges of DMN

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- TRIPOD FOR OPERATIONAL EXCELLENCE -

Decision Modeling (DMN)

The main purpose is not AUTOMATION.

- Shared Understanding & Transparency
- Consensus on Decision-Making Policies
- Boundaries of Automated and Human Decisioning
- Boundaries of Deterministic and Stochastic Decisioning
- A Decision Model should be the translation of an organisation's policies for end-toend operational decision-making,
- > ... and should integrate all forms of human and automated decision-taking into one consistently orchestrated structure.

Decision Modeling (DMN)

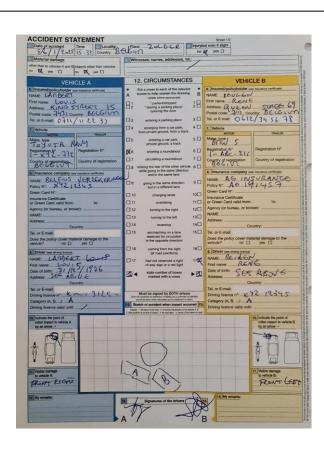
DMN facilitates automation.

- > The combined power of:
 - Decision Requirements Diagram (DRD)
 - Decision Tables
 - Contexts
 - > FEEL
 - Decision Services
 - Business Knowledge Models (BKM)
 - ... empowers automation.
 - The Decision Model = ITs automation.

Car Claim Handling







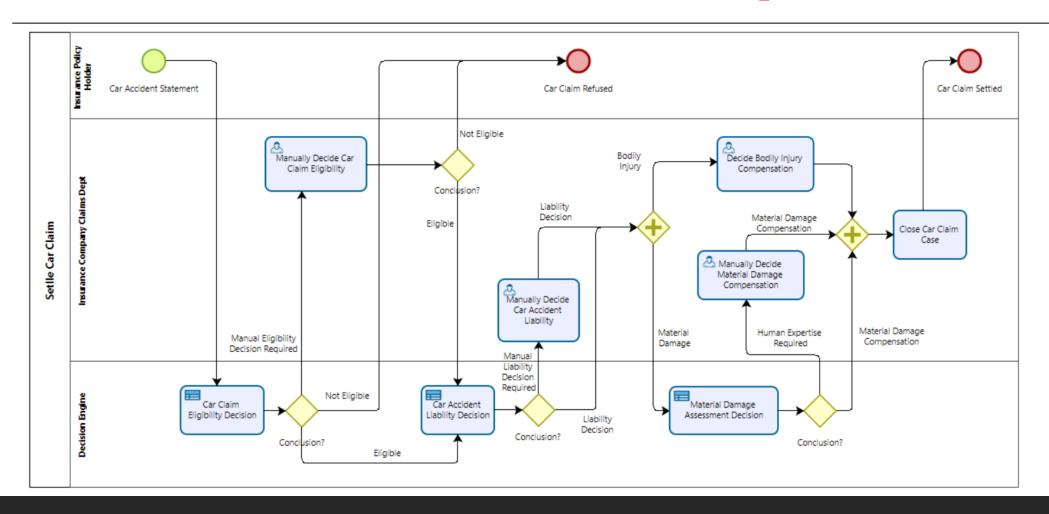
18/09/2023

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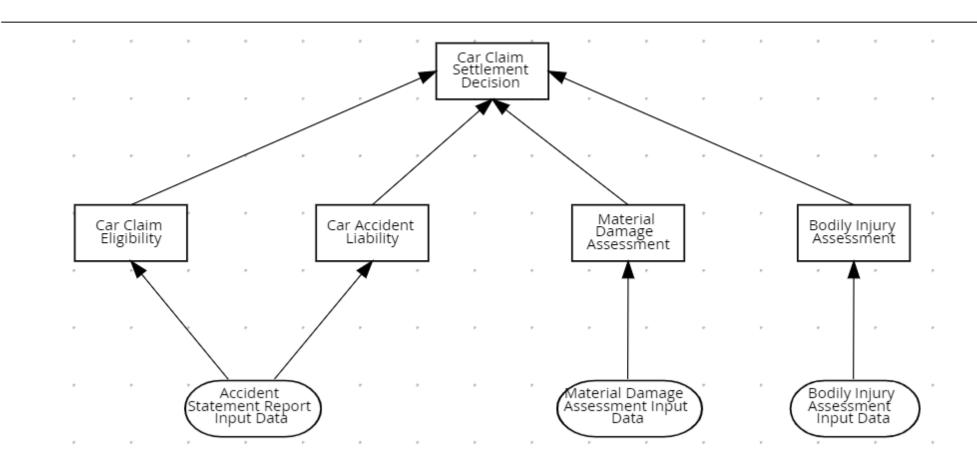
Car Claim Handling – What's at stake?

- Eligibility
 - Insurance Contract? Contract Status? Insured Car? Insured Driver?
- Liability
 - Customer Liability / Third Party Liability / Shared Liability.
- Material Damage Compensation
- Bodily Injury Damage Compensation
- Third Party Damage Recovery

Car Claim Settlement - Traditional Sequential Handling

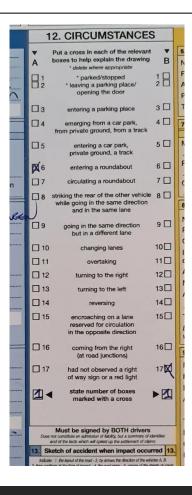


Car Claim Settlement - Decision Requirements



Car Claim Handling – Sources for Settlement Decision

- Eligibility
 - Accident Statement / Insurance Details
- Liability
 - Accident Statement / Circumstances
- Material Damage Compensation
 - Survey Reports or Damage Photos
- Bodily Injury Damage Compensation
 - Always Human Expertise Required



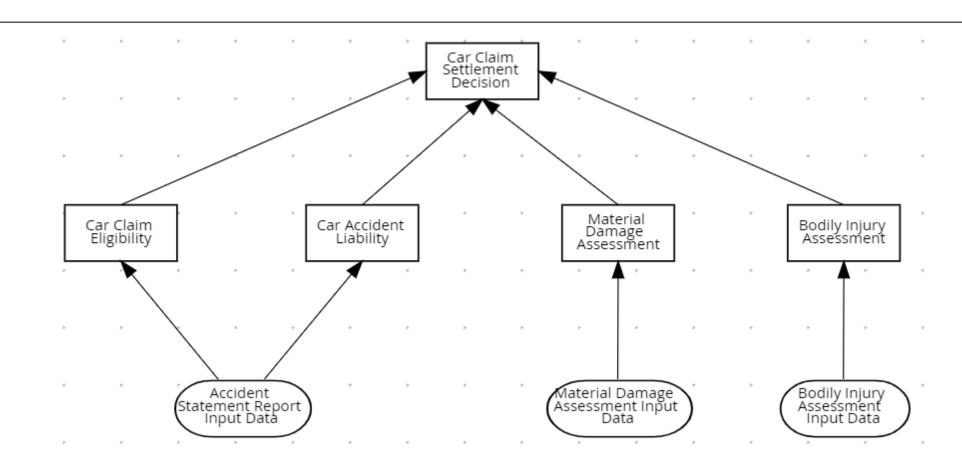
Happy Flow:

- No Bodily Injury
- Conclusive Input Data on Eligibility, Liability & Material Damage
- Fully Automated

Less Happy Flow:

- Human Expertise Needed on 1 or More Topics
- Not Sequential, JustInformation Dependencies

Car Claim Settlement – End-to-End Decisioning

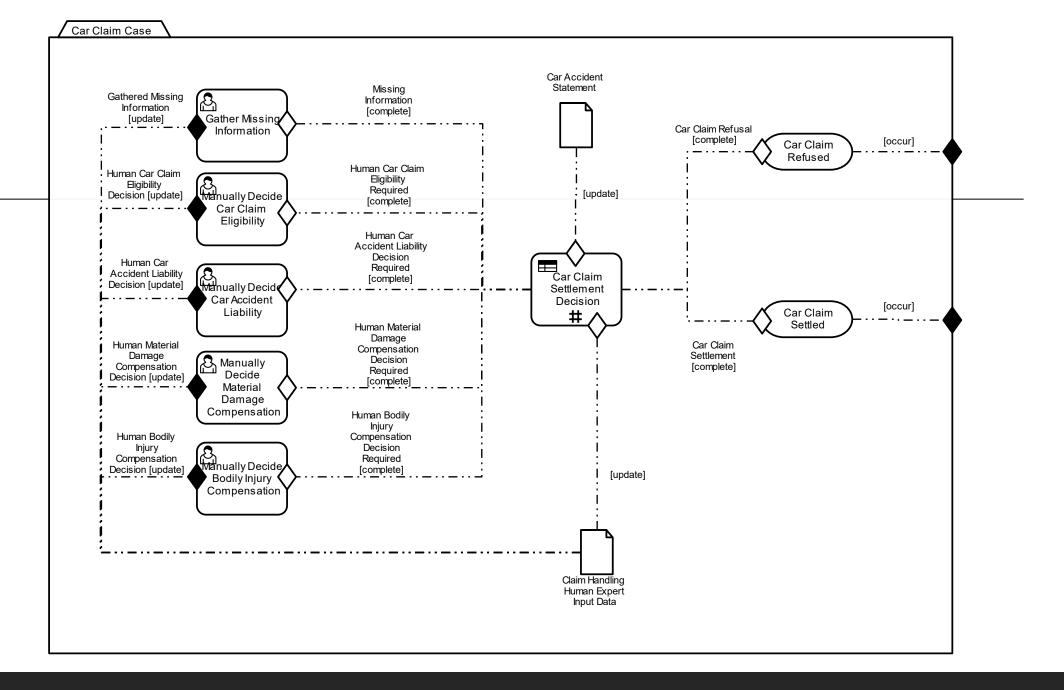


Car Claim Settlement – End-to-End Decisioning

Car Claim Settlement Decision (Decision Table)

С	Car Claim Eligibility	Car Accident Liability	Material Damage Assessment	Bodily Injury Assessment	Car Claim Settlement Decision
	(tEnumEligibilities)	(tEnumLiabilities)	(tEnumMaterialDamageAssessments)	(tEnumBodilyInjuryAssessments)	(ListoftEnumSettlements)
1	"Not Eligible"	-	-	-	"Refusal"
2	"Missing Information"	-	-	-	"Missing Information"
3	-	"Missing Information"	-	-	"Missing Information"
4	-	-	"Missing Information"	-	"Missing Information"
5	-	-	-	"Missing Information"	"Missing Information"
6	"Human Decision Required"	-	-	-	"Human Car Claim Eligibility Decision Required"
7	-	"Human Decision Required"	-	-	"Human Car Accident Liability Decision Required"
8	-	-	"Human Decision Required"	-	"Human Material Damage Compensation Decision Required"
9	-	-	-	"Human Decision Required"	"Human Bodily Injury Compensation Decision Required"
10	"Eligible"	not("Missing Information",	not("Missing Information",	not("Missing Information",	"Settlement"
		"Human Decision Required")	"Human Decision Required")	"Human Decision Required")	

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Car Claim Handling – Decisioning Centricity

- End-to-end decision model as the Spider in the Web for car claim settlement.
- The decision model is the **central and unique implementation** of the insurance company's policies and regulations on car claim settling.
- The decision model orchestrates deterministic (DMN), stochastic (AI) and human decisioning to reach a balanced end-to-end decision.





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