

## Questionnaire to evaluate usefulness and cognitive effort of the DSML4PTM

Please answer to the below sections as follows:

- section 1 and 2 **before** the introduction of the DSML4PTM,
- section 3, 4 and 5 **after** the introduction of the DSML4PTM.

### Section 1: Questions on your general background

1.1 Select your study degree	<input type="checkbox"/> Bachelor degree <input checked="" type="checkbox"/> Master degree <input type="checkbox"/> PhD
1.2 What's the field of your study degree?	Computer science
1.3 Have you ever dealt with any modeling languages? (e.g. UML, BPMN, CMMN, DMN etc)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
1.4 Have you ever modelled any flow diagram?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
1.5 Have you ever programmed any software?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
1.6 Select your current level in software programming	<input checked="" type="checkbox"/> Enough <input type="checkbox"/> Sufficient <input type="checkbox"/> Little <input type="checkbox"/> Not at all

### Section 2: Questions on modeling background

2.1 Have you ever modelled Business Processes?	<input type="checkbox"/> Yes, also for commercial purposes <input checked="" type="checkbox"/> Yes, only for didactic purposes <input type="checkbox"/> No <input type="checkbox"/> Not sure
2.2 Have you ever modelled Case Management?	<input type="checkbox"/> Yes, also for commercial purposes <input checked="" type="checkbox"/> Yes, only for didactic purposes <input type="checkbox"/> No <input type="checkbox"/> Not sure

2.2 Have you ever modelled DecisionLogic (e.g. decision tables, business rules, decision model, Q-Charts?)	<input type="checkbox"/> Yes, also for commercial purposes <input checked="" type="checkbox"/> Yes, only for didactic/research purposes <input type="checkbox"/> No <input type="checkbox"/> Not sure
2.3 In which language have you modelled business processes?	<input checked="" type="checkbox"/> BPMN <input checked="" type="checkbox"/> UML Activity Diagram <input type="checkbox"/> None  <input type="checkbox"/> Others (please specify) .....
2.4 In which language have you modelled case managment?	<input checked="" type="checkbox"/> CMMN <input type="checkbox"/> None  <input type="checkbox"/> Others (please specify) .....
2.5 In which language have you modelled decision logic?	<input checked="" type="checkbox"/> DMN <input type="checkbox"/> SBVR <input checked="" type="checkbox"/> SPARQL Inferencing Notation <input type="checkbox"/> None  <input type="checkbox"/> Others (please specify) .....
2.6 What modelling language did you hear of?	<input checked="" type="checkbox"/> BPMN <input checked="" type="checkbox"/> CMMN <input type="checkbox"/> BPEL <input checked="" type="checkbox"/> UML Activity Diagram <input type="checkbox"/> EPC <input type="checkbox"/> YAWL <input checked="" type="checkbox"/> DMN <input type="checkbox"/> SBVR <input checked="" type="checkbox"/> SPARQL Inferencing Notation <input type="checkbox"/> None  <input type="checkbox"/> Others (please specify) .....
2.7 Which modelling language would you be able to use?	<input checked="" type="checkbox"/> BPMN <input type="checkbox"/> CMMN <input type="checkbox"/> BPEL <input type="checkbox"/> UML Activity Diagram <input type="checkbox"/> EPC <input type="checkbox"/> YAWL <input type="checkbox"/> DMN <input type="checkbox"/> SBVR <input checked="" type="checkbox"/> SPARQL Inferencing Notation <input type="checkbox"/> None  <input type="checkbox"/> Others (please specify) .....

Author: Emanuele Laurenzi 2018 – Guidelines taken from Tullis, T. (Thomas) & Albert, B. (William), 2013. *Measuring the user experience : collecting, analyzing, and presenting usability metrics*, Elsevier.

2.8 Have you ever attended courses on how to model business processes/case management/decision logic?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.9 Have you ever heard of domain-specific modelling approaches?	<input checked="" type="checkbox"/> Yes, (please specify) possibility to extend modelling language based on the domain context <input type="checkbox"/> No
3.0 Do you know the benefits of a domain-specific modeling language?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure

### Section 3: Evaluation on the usefulness of the DML4PTM

<p>3.1 Do you see the usefulness of the DSML4PTM?</p>	<p>x Yes, (please specify why and list at least 3 aspects that makes it useful)</p> <ul style="list-style-type: none"> <li>- Creation of specific element for patient transfer management domain;</li> <li>- Integration of existing languages (DMN) into specific domain;</li> <li>- Optimisation and possibility of automation</li> </ul> <p>No, (please specify why) Do not know the project in details</p> <div></div>
<p>3.2 Do you see room for improvement in the DSML4PTM? or missing aspects?</p>	<p>x Yes, (Please specify aspects to be improved)</p> <p>Automation of business process for manage patient transfer. Semantic checking in order to avoid confusion with too much element.</p> <div></div> <p><input type="checkbox"/> No</p>
<p>3.3 What's your impression on the proposed language?</p>	<p>It helps to model and understand a very complex context – that also includes several actors - with the usage of several languages, each with different purpose. The only neck bottle is the wide</p>

[illegible]

## Section 4: Evaluation on the cognitive effort of the DSML4PTM

<p>4.1 Did you have difficulties in understanding the DSML4PT elements?</p>	<p>x Yes, (please specify the difficulties you encountered and list some suggestion for improving the understanding of language elements)</p> <p>Most of the elements are outside my domain, therefore I encountered some difficulties to clearly understand differences between some elements</p> <p>.....</p> <p>.....</p>
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	<div></div> <div><input type="checkbox"/> No</div>
4.1 Did you have difficulties in understanding models (reference model and specific case scenario) expressed in DSML4PTM?	<div><input type="checkbox"/> Yes, (please specify the difficulties you encountered and list suggestions for improving the understanding of models)</div> <div></div> <div><input checked="" type="checkbox"/> No</div>
4.2 Did you have difficulties to adapt the proposed scenario?	<div><input type="checkbox"/> Yes, (please specify the difficulties you encountered)</div> <div></div>

	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>x No</p>
4.3 Do you think the applicability of the language should improve?	<p><input type="checkbox"/> Yes (please specify the aspects to improve in terms of applicability)</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>x No</p>
4.4 What is your impressions on the ease-of-use of the modelling method (language and its applicability)?	<p>Every element helps to identify their own semantic based on its graphic (very accurate). Of course, knowledge of BPMN and other ML are required in order to understand basic elements. Overall, it makes a good easy-of-use impression.</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>

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[illegible]

## Section 5: Evaluation on the focus group

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