

Study 2: Prioritizing the pain points

Results of the Voting Sessions							
Pain Point	Total	V1_B1	V2_B2	V3_B3	V4_E1	V5_E2	V6_E3
I was not sure how to document my model.	5	1	1	1	1	1	
My stakeholders resisted adopting modeling, a modeling language, or a tool because, <i>e.g., they did not think it was worth it or I could not show its value.</i>	4	1	1			1	1
I could not properly define the model requirements because, <i>e.g., my stakeholders did not know exactly what they needed or the domain was unfamiliar to me.</i>	4	1		1		1	1
Writing definitions for the elements in my model was hard and boring.	4	1	1	1	1		
The tool I chose did not support model verification. My model was large and complex and verifying it by myself was not trivial.	4	1			1	1	1
I had difficulty explaining my model to my stakeholders/domain experts.	4	1	1	1	1		
It was costly to generate verbalizations of my model suitable for the different audiences that should be able to read and use it.	4	1	1	1		1	
It was costly to define the model-driven approach because, <i>e.g., my company did not have a modeling culture or I was not knowledgeable enough.</i>	3	1	1	1			
It was costly to define the model requirements because, <i>e.g., there were too many stakeholders.</i>	3	1	1			1	
It was costly to negotiate a common definition among the experts about a concept of the project's domain of interest.	3	1		1		1	
It was costly to manually split the model into visually appealing and understandable views (diagrams).	3	1	1	1			
The model has become too complex and too costly to maintain because, <i>e.g., the tool did not support documentation or there were too many elements.</i>	3	1			1		1
I could not choose the modeling tool I wanted because of, <i>e.g., cost, expertise, culture, or bureaucracy.</i>	2				1	1	
I was the only one on the team with experience in modeling. So I did everything myself. I wish I had had someone to discuss the challenges.	2	1				1	
I wanted to reuse an existing model, but I had to redraw it from scratch.	2					1	1
I could not make one of my diagrams look good.	2	1			1		
My colleagues did not consider it important to document the model and did not understand my efforts to do so.	2					1	1
I was the only one on the team interested in using and reusing the model.	2				1	1	
I felt like I was repeating myself when manually creating my database schema (or OWL vocabulary).	2	1					1
I was not sure which modeling tool to choose because, <i>e.g., there were many alternatives, too many features, or the requirements were not clear.</i>	1	1					
I could not find a model-driven methodology ready to use.	1					1	
I struggled to find a model-driven methodology that suited the needs of my stakeholders and was technically sound.	1	1					
It was costly to learn the project's domain of interest because, <i>e.g., I did not have experience in extracting domain knowledge from experts or they were not sufficiently available.</i>	1	1					
I was insecure about my knowledge about the project's domain of interest because, <i>e.g., the domain was complex or the experts were not reliable.</i>	1	1					
I could not accurately represent the project's domain of interest because, <i>e.g., the language was not expressive enough or the tool did not fully implement the language.</i>	1				1		
I found it difficult to use the tool I had chosen. I did not know how to handle its features. It was complicated and had some bugs.	1	1					
I did not know the right time to stop modeling. I was unsure if my model was ready to be used and had everything needed.	1	1					
I did not know how to increase my model's comprehensibility.	1	1					
I changed something in a class and then had to reorganize several diagrams in which the class occurs.	1		1				
Creating the model took more effort than I expected, which resulted in unforeseen costs.	1						1
I was not sure if my model was good enough.	1	1					
My model was under- and/or over-constrained and I did not know how to fix it!	1	1					
The model was insufficient to achieve its application objective and I had to rework it.	1	1					
My model was not (re)used because, <i>e.g., my colleagues could not or did not want to use or it was not ready on time.</i>	1	1					
I could not clarify my doubts about the language I had chosen because, <i>e.g., there is no reference material (e.g. manuals, books) or community forum.</i>	0						
I was not sure which classes and relations should go in my diagram.	0						
I was not comfortable using the language I chose because, <i>e.g., it was not intuitive, I did not have enough training, or I did not know logic.</i>	0						
I wanted to reuse an existing model, but I had difficulty understanding it because, <i>e.g., I only had access to part of it or it was poorly documented.</i>	0						
I verified my model but did not understand the errors in it.	0						
I verified my model but did not know how to solve the errors in it.	0						
I left the project and there was no one to maintain the model.	0						
Total	73	26	9	8	9	13	8