ShapeVOWL in AOAME for energy systems constraints modelling - Post evaluation questionnaire

This questionnaire is filled out after modeling building energy system constraints using ShapeVOWL in AOAME.

The questionnaire comprises 9 questions with a total of 29 sub-questions.

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Not shared

* Indicates required question

What is your experience with Linked Data? (Multiple options possible)

Linked Data Definition = A method of structuring and interconnecting data on the web using standardized formats and protocols. It involves exposing, sharing, and connecting datasets using URIs and linking data elements through RDF (Resource Description Framework) triples. The core idea is to create a decentralized and

globally interconnected web of data that enables seamless exploration, discovery, and integration of information across diverse sources.	,
I generate Linked Data	
I check the quality of Linked Data	
☐ I use Linked Data	
I publish Linked Data	
☐ I perform reasoning on Linked Data	
I have a basic understanding of Linked Data	
I have no knowledge about Linked Data	



Please indicate where you assess yourself in the topic of Linked Data? (Single option)	*
O Novice	
Emerging	
O Developing	
Proficient	
○ Expert	
Did or do you already create or use custom tool / software / scripts to validate Linked Data?	*
O Yes	
O No	
Please specify which custom tools / software / scripts you have created or used? (Open question - if not applicable write "none")	*
Your answer	
Please indicate how you assess your experience with (ontology) constraint languages (e.g. SHACL)?	*
O Novice	
Emerging	
O Developing	
Proficient	
○ Expert	
	0

If you have a research / professional position in the Semantic Web, what are your * main topics? (Open question - if not applicable write "none")

Your answer



ust completed	exercises (1 1 =	=strongi	y disagre	e, / – Silo	rigiy agre	e)	7 =
	strongly disagree	2	3	4	5	6	strongly agree
I'm confident that the modelled solutions I provided with ShapeVOWL are correct (semantically correct representation of energy system constraints, i.e. UMAR use case)	0	0	0	0	0	0	0
I'm confident that the solutions I provided with the text-based approach are correct (semantically correct representation of energy system constraints, i.e. UMAR use case)	0	0	0	0	0	0	
I prefer Shape VOWL over text-based constraint editing for energy systems (i.e.	0	0	0	0	0	0	0

case)								
The concept of modelling with ShapeVOWL in AOAME is simple to understand	0	0	0	0	0	0	0	
The energy system constraint modelling with ShapeVOWL in AOAME was simple	0	0	0	0	0	0	0	
The ShapeVOWL modeling language in AOAME is a suitable approach to model energy system constraints	0	0	0	0	0	0	0	
I would like to use ShapeVOWL in AOAME to edit RDF constraints for NEST's energy systems systems	0	0	0	0	0	0	0	
Refering to the initial requirements - What do you generally like about modelling * energy system constraints with ShapeVOWL in AOAME and what would you improve? (Open question)								
Your answer								

!

Please indicate h modelling energy disagree, 7 = stro	<u>y system co</u>	nstraint				_	_
	1 = strongly disagree	2	3	4	5	6	7 = strongly agree
Semiotic Clarity - The visual notation allows me to clearly express and understand complex concepts	0	0	0	0	0	0	0
Semiotic Clarity & Graphic Economy - The notation supports the representation of a wide range of information	0	0	0	0	0	0	0
Perceptual Discriminability - The visual elements and symbols used are consistent throughout the notation	0	0	0	0	0	0	0
Perceptual Discriminability - Similar concepts are represented in a consistent manner	0	0	0	0	0	0	0
Semantic Transparency & Cognitive Fit - The notation is	0	0	0	0	0	0	0

simple and easy to understand								
Semantic Transparency - Unnecessary complexity is minimized in the visual representation	0	0	0	0	0	0	0	
Complexity Management - The notation provides a comprehensive representation of the information it intends to convey	0	0	0	0	0	0	0	
Complexity Management - There are no major gaps or omissions in the visual representation	0	0	0	0	0	0	0	
Cognitive Integration - Redundancy in the visual representation is minimized	0	0	0	0	0	0	0	
Cognitive Integration - Modifications to the notation are made with consideration for existing users	0	0	0	0	0	0	0	
Visual								_

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Expressiveness - The notation is designed with human cognition in mind	0	0	0	0	0	0	0
Visual Expressiveness & Cognitive Fit - It is easy for users to read and interpret without excessive mental effort	0	0	0	0	0	0	0
Dual Coding - The notation supports the creation of new and expressive visual element	0	0	0	0	0	0	0
Dual Coding - Users can easily extend or adapt the notation to represent novel concepts	0	0	0	0	0	0	0
Graphic Economy - Different concepts are visually orthogonal, avoiding unnecessary overlap	0	0	0	0	0	0	0
overlap							



Is there anything else you want to tell us about the shown ShapeVOWL visualization in AOAME, including the representation of the UMAR use cases with the visual approach? (Open question)

Your answer

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