

USE-ME approach survey

This experimental work is conducted within the NOVA Laboratory for Computer Science and Informatics (NOVA LINCS) in the context of the evaluation of USE-ME approach which was developed as a part of Ph.D. thesis.

NOVA LINCS is a new unit of the national Science & Technology network in the area of Computer Science and Engineering, launched in 2014/2015, and hosted at the Departamento de Informática of Faculdade de Ciências e Tecnologia of Universidade Nova de Lisboa (DI-NOVA), a leading academic department in Portugal.

All information stated as part of this experiment is confidential and will be kept as such.

We would like to emphasize that:

- your participation is entirely voluntary;
- you are free to refuse to answer any question;
- you are free to withdraw at any time.

The experiment will be kept strictly confidential and will be made available only to members of the research team of the study or, in case external quality assessment takes place, to assessors under the same confidentiality conditions. Data collected in this experiment may be part of the final research report, but under no circumstances will your name or any identifying characteristic be included in the report.
In particular, there is no intention of judging you as a person or the skills and experience that you will use in this survey - the goal is the evaluation of the proposed approach!

This questionnaire should not take more than 1h to complete. However, you will be asked to estimate the time you have spent on answering the survey and getting familiar with the USE-ME approach.

It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers. Therefore please take a time to analyze the materials which are shared with you on the following page before continuing to answer the questions.

I would appreciate if you could submit the survey by 07.09.2017.
You can also edit your submitted answers any time till 07.09.2017.

Thank you for taking the time to complete this questionnaire!

Sincerely,

Ankica Barisic, PhD student

a.barisic@campus.fct.unl.pt, Office P3/12

Departamento de Informática - Faculdade de Ciências e Tecnologia / Universidade Nova de Lisboa
Quinta da Torre, P-2829-516, Caparica, Portugal

Prof. Vasco Amaral and Prof. Miguel Goulão are responsible for this experiment and can be contacted at:

- Prof. Vasco Amaral: vasco.amaral@fct.unl.pt; +351 212 948 300 (ext. 10712); Office P2/3
- Prof. Miguel Goulão: mgoul@fct.unl.pt; +351 212 948 536 (ext. 10731); Office P2/17

* Required

1. Email address *

Usability Software Engineering - Modelling Environment (USE-ME) approach

Please watch the 15min USE-ME video demonstration before answering to the survey!

Additionally, you are invited to take a look at the article describing the approach and motivation, as well as a tool prototype and example instantiation.

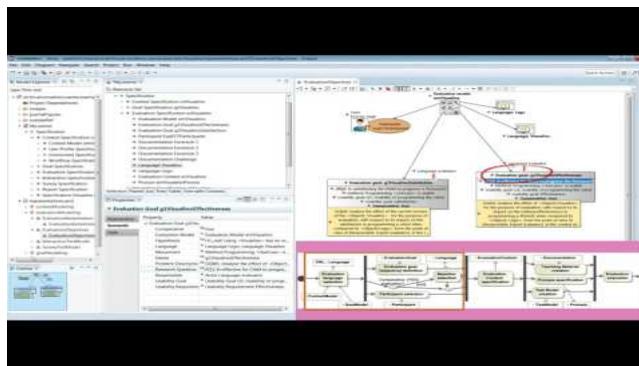
Abstract

The adoption of Domain-Specific Languages (DSLs) is regarded as an approach to reduce the accidental complexity of software systems development. The availability of sophisticated language workbenches facilitates the development of DSLs making them increasingly more popular. This comes at the risk that a badly designed DSL can bring more harm and decrease productivity, when compared to an alternative General-Purpose Language (GPL). In particular, a poorly designed DSL can be too hard to adopt by its domain users. As such, Usability is one of the key characteristics to mitigate this risk as it has an important impact on the achieved productivity of DSL users.

The current state of practice in Software Language Engineering (SLE) neglects the Usability of DSLs. A pertinent research question in SLE is how to systematically engineer Usability into DSLs. We argue that a timely systematic approach based on User Interface experimental evaluation techniques should be used to assess the impact of DSLs during their development process, while the cost of fixing the usability problems is relatively low when compared to fixing them at the end of the development process. For that purpose, the focus of this dissertation is to build a conceptual framework that supports the iterative development process of DSLs concerning the issue of their Usability evaluation.

The Usability Software Engineering Modelling Environment (USE-ME) is a formal approach which is proposed for the usability evaluation of DSLs. A USE-ME prototype is constructed and evaluation process is formally defined in a step by step manner. The resulting modelling instances are intended to be used for decision support when determining the usability of the DSL. A multiple-case study were conducted in order validate the proposed method.

USE-ME approach demonstration video:



<http://youtube.com/watch?v=RjIGFex-zQM>

USE-ME prototype:

GitHub: <https://github.com/akki55/useme>

Final Release: <https://zenodo.org/record/345941#.WL1m0BKLRtY>

Pilot evaluation materials: <https://zenodo.org/record/398830#.WMgHJRKLr24>

Journal Article about USE-ME approach:

Barišić Ankica, Vasco Amaral, Miguel Goulão: "Usability Driven DSL development with USE-ME", Computer Languages, Systems and Structures (ComLan), 2017

Pdf URL: <https://qoo.gl/mCNcQY>

Background demographics

The purpose of this section is to collect a basic demographics data about participants. All the information you provide will be kept confidential.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

2. Full Name: *

3. Personal page or a public profile:

4. Age:

5. Country:

6. Degree: **Mark only one oval.*

- PhD
- MSc
- BSc
- Other: _____

7. Current Work/Research Position:

8. Current Work/Research Institution:

Background experience

The purpose of this section is to collect a relevant experience about participants. All the information you provide will be kept confidential.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

9. Experience background: **Check all that apply.*

- Academic
- Industry
- Other: _____

10. How many years of working experience do you have? *

11. How many years of research experience do you have? *

12. How would you rate your level of knowledge related to modelling techniques? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

13. How would you rate your experience related to Model-Driven Development (MDD)? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

14. How would you rate your level of knowledge regarding UML? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

15. How experienced are you with modelling use cases? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

16. How experienced are you with UML activity or process diagrams? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

17. How experienced are you with UML class diagrams? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

18. Are you familiar with modelling interaction (communication) diagrams? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

19. How would you rate your level of knowledge related to Domain-Specific Languages(DSL)? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

20. Did you ever develop a DSL? **Mark only one oval.*

- Yes, I developed few functional DSLs of which at least one is widely used
- Yes, I developed a functional DSL
- Yes, I developed few prototypes
- Yes, in the context of faculty course
- No

21. How would you rate your level of knowledge regarding the Eclipse working environment? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

22. How experienced are you with the Eclipse Modeling Framework (EMF)? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

23. How experienced are you with the Sirius Modeling tool? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

24. How experienced are you with software requirements engineering? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

25. How familiar are you with goal-oriented requirements approaches? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

26. How experienced are you with agile development? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

27. How would you rate your level of knowledge regarding Human-Computer Interaction? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

28. How experienced are you with User-Centered design techniques? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

29. How familiar are you with empirical experiments? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

30. How familiar are you with usability testing? **Mark only one oval.*

- Expert
- Advanced
- Intermediate
- Emerging
- No expertise

31. Can you describe (refer to) your previous HCI experience?

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

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32. Did you watch the presentation video? *

Mark only one oval.

- Yes
 No

33. Did you read the paper presenting the approach? *

Mark only one oval.

- Yes
 No

34. Did you try to use the tool? *

Mark only one oval.

- Yes
 No

Feedback Questionnaire

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35. There is a lack of systematic approach for usability evaluation of DSLs *

Mark only one oval.

- Strongly agree *Skip to question 37.*
 Agree *Skip to question 37.*
 Don't know *Skip to question 37.*
 Disagree
 Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

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36. Can you please let us know why do you disagree with a statement: "There is a lack of systematic approach for usability evaluation of DSLs"

37. Can you provide us a reference for any systematic approach for DSLs usability evaluation?

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

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38. Usability evaluations are necessary for a DSL development in practice *

Mark only one oval.

- Strongly agree *Skip to question 39.*
- Agree *Skip to question 39.*
- Don't know *Skip to question 39.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

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39. Can you please let us know why do you find that usability evaluations are not necessary for a DSL development in practice?

Feedback Questionnaire

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40. Current usability evaluations of DSLs are too expensive and not reusable *

Mark only one oval.

- Strongly agree *Skip to question 41.*
- Agree *Skip to question 41.*
- Don't know *Skip to question 41.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

41. Can you please let us know why do you disagree with a statement: "Usability evaluations of DSLs are too expensive and not reusable":

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

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42. It is necessary to specify explicitly a context of the DSL when evaluating its usability **Mark only one oval.*

- Strongly agree *Skip to question 43.*
- Agree *Skip to question 43.*
- Don't know *Skip to question 43.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

43. Can you please let us know why do you disagree with a statement "It is necessary to specify explicitly a context when evaluating a usability":

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

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44. DSL evolution cycle should include usability re-evaluation **Mark only one oval.*

- Strongly agree *Skip to question 45.*
- Agree *Skip to question 45.*
- Don't know *Skip to question 45.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

45. Can you please let us know why do you disagree with a statement "DSL evolution cycle should include usability re-evaluation":

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

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46. The provided approach supports modelling of the usability evaluation process for DSLs *

Mark only one oval.

- Strongly agree *Skip to question 47.*
- Agree *Skip to question 47.*
- Don't know *Skip to question 47.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

47. Can you please let us know why do you disagree with a statement "The provided approach supports modelling of the usability evaluation process for DSLs":

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

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48. Concepts modelled by the USE-ME framework are relevant for DSL development **Mark only one oval.*

- Strongly agree *Skip to question 49.*
- Agree *Skip to question 49.*
- Don't know *Skip to question 49.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

49. Can you please let us know why do you disagree with a statement "Concepts modelled by the USE-ME framework are relevant for DSL development":

Feedback Questionnaire

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50. The USE-ME approach is easy to understand **Mark only one oval.*

- Strongly agree *Skip to question 51.*
- Agree *Skip to question 51.*
- Don't know *Skip to question 51.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

51. Can you please explain what did you find difficult, or hard to understand about the USE-ME approach: *

Feedback Questionnaire

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52. The approach is independent of the particular DSL development approach *

Mark only one oval.

- Strongly agree *Skip to question 54.*
- Agree *Skip to question 54.*
- Don't know *Skip to question 54.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

53. Can you please let us know why do you disagree with a statement "The approach is independent of the particular DSL development approach":

54. Can you point the DSL development scenario in which you believe that USE-ME approach is hard to be adopted:

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

55. Approach is suitable to be applied from the early stage of the development of the DSL *

Mark only one oval.

- Strongly agree *Skip to question 56.*
- Agree *Skip to question 56.*
- Don't know *Skip to question 56.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

56. Can you please let us know why do you disagree with a statement "Approach is suitable to be applied from the early stage of the development of the DSL":

Feedback Questionnaire

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57. DSLs targeting large user groups can benefit from the investment in application of the USE-ME approach iteratively *

Mark only one oval.

- Strongly agree *Skip to question 58.*
- Agree *Skip to question 58.*
- Don't know *Skip to question 58.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

58. Can you please let us know why do you disagree with a statement "DSLs targeting large user groups can benefit from the investment in application of the USE-ME approach iteratively":

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

59. The USE-ME tool makes it feasible for a DSL engineer to model a usability evaluation *

Mark only one oval.

- Strongly agree *Skip to question 60.*
- Agree *Skip to question 60.*
- Don't know *Skip to question 60.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

60. Can you please let us know why do you disagree with a statement "The USE-ME tool makes it feasible for a DSL engineer to model a usability evaluation":

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

61. The USE-ME tool is expressive enough for specifying usability evaluation of DSL *

Mark only one oval.

- Strongly agree *Skip to question 62.*
- Agree *Skip to question 62.*
- Don't know *Skip to question 62.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

62. Can you please let us know why do you disagree with a statement "The USE-ME tool is expressive enough for specifying usability evaluation of DSL":

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

63. The USE-ME tool supports the integration of usability evaluation approach into development process of the DSL *

Mark only one oval.

- Strongly agree *Skip to question 64.*
- Agree *Skip to question 64.*
- Don't know *Skip to question 64.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

64. Can you please let us know why do you disagree with a statement "The USE-ME tool supports the integration of usability evaluation approach into development process of the DSL":

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

65. Investment into the development of the USE-ME prototype tool into real product is worthy *

Mark only one oval.

- Strongly agree *Skip to question 66.*
- Agree *Skip to question 66.*
- Don't know *Skip to question 66.*
- Disagree
- Strongly disagree

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

66. Can you please let us know why do you disagree with a statement "Investment into the development of the USE-ME prototype tool into real product is worthy":

Feedback Questionnaire

The purpose of this section is to collect your opinions about the provided approach. Please note that most of the questions are intended to provide a feedback about the USE-ME methodology (i.e. conceptual framework). When the question is referring to the tool itself, it will be posed explicitly.

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67. Can you please provide your suggestions concerning how to improve the USE-ME tool or approach itself:

Feedback Questionnaire

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68. Are you familiar with any other tool which supports usability evaluation? *

Mark only one oval.

Yes

No *Skip to question 71.*

Usability evaluation support tools

69. What are the other tools you are familiar with? *

70. The USE-ME is more suitable than alternative for usability evaluation of DSLs **Mark only one oval.*

- Strongly agree
 Agree
 Don't know
 Disagree
 Strongly disagree

71. The USE-ME is more complete than alternative for usability evaluation of DSLs **Mark only one oval.*

- Strongly agree
 Agree
 Don't know
 Disagree
 Strongly disagree

Survey participants suggestions

We would appreciate if you could provide us a contacts or share the survey

[<https://goo.gl/forms/VRWLzsFxpWkvMkUw2>] with a persons which you find to be interested in giving their opinion about USE-ME approach.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

72. Can you please suggest us some persons which would be interested in giving their opinion about the USE-ME approach? *

Thank you for filling in the survey!

Please report the approximate time which you have spent on this evaluation and submit the survey.

* It is not possible to save the survey answers before submitting them. After submission, it is possible to edit and change your answers.

73. How much time did you spend on getting familiar with approach (watching video, reading the article and/or trying the tool)? (in minutes) *

74. How much time did you spend on answering this questionnaire? (in minutes) *
