

# Survey on Model-based Requirements Engineering in Research Projects

Dear colleagues,

We kindly ask you to complete the following survey on the Modelio-based approach for Requirement Engineering in collaborative research projects. This survey is a part of a scientific study to assess the relevance and efficiency of the approach we applied in several collaborative projects.

The survey is anonymous and we will appreciate all your comments. We will share the results and their analysis with any interested participant. For that please manifest your interest by replying to the invitation e-mail.

In which project did you participate? \*

MegaM@Rt



Size of your organization (in personnel count) \*

21-250



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: .....

Role of your organization \*

Case study provider

Technology provider

Other: .....

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

less than 10% ▼

Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

- Ad-hoc or no predefined process for RE
- Project-level conventions for RE
- Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

less than 1 year ▼

How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

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In your opinion, what is the most useful aspect of the Modelio-based approach?

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In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

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Do you have any more comments?

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In which project did you participate? \*

MegaM@Rt



Size of your organization (in personnel count) \*

1-20



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: software testing

Role of your organization \*

Case study provider

Technology provider

Other:

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

11%-25%



Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

Ad-hoc or no predefined process for RE

Project-level conventions for RE

Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

3 to 10 years



How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Requirements specification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
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demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

The challenges aspect is not related to Modelio, but to the stakeholders motivation to maintain/update the models. Maybe some notification feature could help for this.

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In your opinion, what is the most useful aspect of the Modelio-based approach?

Traceability and document generation

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In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

N/A (limited usage of Modelio within the project)

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Do you have any more comments?

Thank you for the invitation.

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In which project did you participate? \*

REVAMP



Size of your organization (in personnel count) \*

More than 1000



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: .....

Role of your organization \*

Case study provider

Technology provider

Other: .....



How much of working time does your team typically allocate on creating and maintaining RE documents? \*

less than 10% ▼

Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

- Ad-hoc or no predefined process for RE
- Project-level conventions for RE
- Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

3 to 10 years ▼

How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

getting through the tool setup and licensing problems



In your opinion, what is the most useful aspect of the Modelio-based approach?

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In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

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Do you have any more comments?

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In which project did you participate? \*

MegaM@Rt



Size of your organization (in personnel count) \*

1-20



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: .....

Role of your organization \*

Case study provider

Technology provider

Other: .....

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

less than 10% ▼

Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

- Ad-hoc or no predefined process for RE
- Project-level conventions for RE
- Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

1 to 3 years ▼

How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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studies/pilots  
requirements versus  
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Reflections

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	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

RE traceability

In your opinion, what is the most useful aspect of the Modelio-based approach?

RE fast clear document generation

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In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

Traceability w.r.t. interoperability tools (e.g., align documentation format, export/import external documents, exchange data among several tools)

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Do you have any more comments?

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In which project did you participate? \*

REVAMP



Size of your organization (in personnel count) \*

More than 1000



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: .....

Role of your organization \*

Case study provider

Technology provider

Other: .....

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

less than 10%



Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

Ad-hoc or no predefined process for RE

Project-level conventions for RE

Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

1 to 3 years



How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project



In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

None.....

In your opinion, what is the most useful aspect of the Modelio-based approach?

Linking textual requirements with UML/SysML diagrams

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In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

Allowing to mix and match elements from metamodels of different languages and be able to define one's own metaclasses

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Do you have any more comments?

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# Survey on Model-based Requirements Engineering in Research Projects

Dear colleagues,

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The survey is anonymous and we will appreciate all your comments. We will share the results and their analysis with any interested participant. For that please manifest your interest by replying to the invitation e-mail.

In which project did you participate? \*

DataBio



Size of your organization (in personnel count) \*

More than 1000





Domain of your organization \*

- automotive
- airspace
- railway
- telecom
- academic
- Other: Environment, Agriculture

Role of your organization \*

- Case study provider
- Technology provider
- Other: \_\_\_\_\_

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

less than 10%



Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

Ad-hoc or no predefined process for RE

Project-level conventions for RE

Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

3 to 10 years



How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

studies/pilots  
requirements versus  
framework features)

Reflections



Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

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In your opinion, what is the most useful aspect of the Modelio-based approach?

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In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

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Do you have any more comments?

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Google Forms

# Survey on Model-based Requirements Engineering in Research Projects

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The survey is anonymous and we will appreciate all your comments. We will share the results and their analysis with any interested participant. For that please manifest your interest by replying to the invitation e-mail.

In which project did you participate? \*

DataBio



Size of your organization (in personnel count) \*

More than 1000



Domain of your organization \*

- automotive
- airspace
- railway
- telecom
- academic
- Other: Applied research

Role of your organization \*

- Case study provider
- Technology provider
- Other: Research partner

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

less than 10% ▼

Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

- Ad-hoc or no predefined process for RE
- Project-level conventions for RE
- Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

More than 10 years ▼

How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

Tool stability and concurrency handling when many users work on the same model base. Extra challenging to have many users with very different background should start using a new tool.

---

In your opinion, what is the most useful aspect of the Modelio-based approach?

Standardisation of the modeling approach, ease of documenting and communicating the understanding of components, APIs and solutions

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In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

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Do you have any more comments?

---

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# Survey on Model-based Requirements Engineering in Research Projects

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The survey is anonymous and we will appreciate all your comments. We will share the results and their analysis with any interested participant. For that please manifest your interest by replying to the invitation e-mail.

In which project did you participate? \*

MegaM@Rt



Size of your organization (in personnel count) \*

1-20



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: .....

Role of your organization \*

Case study provider

Technology provider

Other: .....

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

11%-25%



Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

Ad-hoc or no predefined process for RE

Project-level conventions for RE

Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

less than 1 year





How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
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In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

convince other people, collaborating with us, on using it

In your opinion, what is the most useful aspect of the Modelio-based approach?

clearness and possibility to exchange information among people in a formal way

In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

requirements for "what to monitor and how to monitor it", to include also embedded systems target with on-chip monitors

Do you have any more comments?

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In which project did you participate? \*

MegaM@Rt



Size of your organization (in personnel count) \*

More than 1000



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: .....

Role of your organization \*

Case study provider

Technology provider

Other: .....

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

26%-50%



Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

Ad-hoc or no predefined process for RE

Project-level conventions for RE

Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

More than 10 years



How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Strongly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

No opinion

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In your opinion, what is the most useful aspect of the Modelio-based approach?

No opinion

In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

No opinion

Do you have any more comments?

Modelio was not used

This content is neither created nor endorsed by Google.

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# Survey on Model-based Requirements Engineering in Research Projects

Dear colleagues,

We kindly ask you to complete the following survey on the Modelio-based approach for Requirement Engineering in collaborative research projects. This survey is a part of a scientific study to assess the relevance and efficiency of the approach we applied in several collaborative projects.

The survey is anonymous and we will appreciate all your comments. We will share the results and their analysis with any interested participant. For that please manifest your interest by replying to the invitation e-mail.

In which project did you participate? \*

DataBio



Size of your organization (in personnel count) \*

21-250



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: .....

Role of your organization \*

Case study provider

Technology provider

Other: .....

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

less than 10% ▼

Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

- Ad-hoc or no predefined process for RE
- Project-level conventions for RE
- Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

More than 10 years ▼

How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

parallel editing with multiple persons

In your opinion, what is the most useful aspect of the Modelio-based approach?

document generation

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In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

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Do you have any more comments?

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Google Forms

# Survey on Model-based Requirements Engineering in Research Projects

Dear colleagues,

We kindly ask you to complete the following survey on the Modelio-based approach for Requirement Engineering in collaborative research projects. This survey is a part of a scientific study to assess the relevance and efficiency of the approach we applied in several collaborative projects.

The survey is anonymous and we will appreciate all your comments. We will share the results and their analysis with any interested participant. For that please manifest your interest by replying to the invitation e-mail.

In which project did you participate? \*

MegaM@Rt



Size of your organization (in personnel count) \*

251-1000



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: .....

Role of your organization \*

Case study provider

Technology provider

Other: .....



How much of working time does your team typically allocate on creating and maintaining RE documents? \*

less than 10% ▼

Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

- Ad-hoc or no predefined process for RE
- Project-level conventions for RE
- Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

1 to 3 years ▼

How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

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In your opinion, what is the most useful aspect of the Modelio-based approach?

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In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

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Do you have any more comments?

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Google Forms

# Survey on Model-based Requirements Engineering in Research Projects

Dear colleagues,

We kindly ask you to complete the following survey on the Modelio-based approach for Requirement Engineering in collaborative research projects. This survey is a part of a scientific study to assess the relevance and efficiency of the approach we applied in several collaborative projects.

The survey is anonymous and we will appreciate all your comments. We will share the results and their analysis with any interested participant. For that please manifest your interest by replying to the invitation e-mail.

In which project did you participate? \*

DataBio



Size of your organization (in personnel count) \*

21-250



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: Earth Observation

Role of your organization \*

Case study provider

Technology provider

Other: \_\_\_\_\_

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

less than 10% ▼

Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

- Ad-hoc or no predefined process for RE
- Project-level conventions for RE
- Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

More than 10 years ▼

How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration





In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

It was too complex and has a long learning curve.

In your opinion, what is the most useful aspect of the Modelio-based approach?

.....  
Connection between components and modules dependencies.

In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

.....  
I don't know.

Do you have any more comments?

.....

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Google Forms

# Survey on Model-based Requirements Engineering in Research Projects

Dear colleagues,

We kindly ask you to complete the following survey on the Modelio-based approach for Requirement Engineering in collaborative research projects. This survey is a part of a scientific study to assess the relevance and efficiency of the approach we applied in several collaborative projects.

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In which project did you participate? \*

REVAMP



Size of your organization (in personnel count) \*

21-250



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: .....

Role of your organization \*

Case study provider

Technology provider

Other: .....

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

less than 10%



Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

Ad-hoc or no predefined process for RE

Project-level conventions for RE

Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

3 to 10 years



How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project



In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

Generation of documentation (Word), resp. genertator template creation

In your opinion, what is the most useful aspect of the Modelio-based approach?

Traceability between requirements and/or system components

In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

A formal, readable structure (with checking) of requirements (more than reqIF, similar to a controlled language)

Do you have any more comments?

This content is neither created nor endorsed by Google.

Google Forms

# Survey on Model-based Requirements Engineering in Research Projects

Dear colleagues,

We kindly ask you to complete the following survey on the Modelio-based approach for Requirement Engineering in collaborative research projects. This survey is a part of a scientific study to assess the relevance and efficiency of the approach we applied in several collaborative projects.

The survey is anonymous and we will appreciate all your comments. We will share the results and their analysis with any interested participant. For that please manifest your interest by replying to the invitation e-mail.

In which project did you participate? \*

REVAMP



Size of your organization (in personnel count) \*

1-20





Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: .....

Role of your organization \*

Case study provider

Technology provider

Other: .....

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

less than 10%



Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

Ad-hoc or no predefined process for RE

Project-level conventions for RE

Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

3 to 10 years



How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

studies/pilots  
requirements versus  
framework features)

Reflections



Please indicate your opinion on Modelio-based RE approach. \*

	Strongly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

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In your opinion, what is the most useful aspect of the Modelio-based approach?

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In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

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Do you have any more comments?

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Google Forms

# Survey on Model-based Requirements Engineering in Research Projects

Dear colleagues,

We kindly ask you to complete the following survey on the Modelio-based approach for Requirement Engineering in collaborative research projects. This survey is a part of a scientific study to assess the relevance and efficiency of the approach we applied in several collaborative projects.

The survey is anonymous and we will appreciate all your comments. We will share the results and their analysis with any interested participant. For that please manifest your interest by replying to the invitation e-mail.

In which project did you participate? \*

REVAMP



Size of your organization (in personnel count) \*

More than 1000



Domain of your organization \*

automotive

airspace

railway

telecom

academic

Other: .....

Role of your organization \*

Case study provider

Technology provider

Other: .....

How much of working time does your team typically allocate on creating and maintaining RE documents? \*

26%-50%



Do you follow any specific conventions or processes for requirements engineering (RE) in your organization? \*

Ad-hoc or no predefined process for RE

Project-level conventions for RE

Organization-level conventions for RE

Your personal level of experience with Requirements Engineering (RE) \*

1 to 3 years



How often are you involved in architecture modelling, e.g. in UML, BPMN or ArchiMate? \*

Not at all

Sporadically (e.g. seldom)

Regularly (e.g. once a month, once a week)

Other: .....

Experience in the Project

In your opinion, did you find this graphical model-based approach useful in different activities of Requirements Engineering? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Requirements inception or requirements elicitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements analysis and negotiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System modeling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Requirements specification	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements validation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Requirements management	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, do you see the modeling approach as an improvement compared to other non-modelling (e.g. text-only or table-based) regarding the following aspects: \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Correctness – accurately states a customer or external need	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Clearness – has only one possible meaning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feasibility – can be implemented within known constraints	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Modifiability – can be easily changed, with history, when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Necessity – documents something customers really need	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Prioritization – requirements ranked as to importance of inclusion in product	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Traceability – can be linked to system	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



requirements, designs,  
code, and tests

Verifiability – correct  
implementation can be  
determined by testing,  
inspection, analysis, or  
demonstration



In your opinion, did you find the following Modelio tool features useful in different Requirements Engineering activities ? \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Initiating the RE model from textual and table sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Changing/adding dependencies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability visualisation in a diagram view	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gap Analysis (e.g. visualisation of omissions in mapping requirements to architectural components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Roadmapping (e.g. setting up expected delivery dates and completion stage for designed components)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Documentation generation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traceability matrix generation (e.g. matrix tables for case	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

studies/pilots  
requirements versus  
framework features)

Reflections

Please indicate your opinion on Modelio-based RE approach. \*

	Stronly disagree	Disagree	Agree	Strongly agree	No opinion
Was the proposed approach appropriate for the given size and scope of the project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the tool support for the approach useful for guiding RE process and enforcing project conventions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to learn?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you find the approach easy to apply?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would you apply a similar approach in future?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In your opinion, what was the most challenging aspect of the Modelio-based approach?

Collaborative work was for me the trickiest thing. Updates by different partners would often lead to inconsistencies, and often that would be detected when the documentation was generated. In scenarios when my organization was leading the work on the deliverable, there was need for a significant amount of work outside of Modelio.

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In your opinion, what is the most useful aspect of the Modelio-based approach?

The fact that all these different types of models exist in the same environment and that working with them simultaneously was quite easy.

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In your opinion, which additional Modelio tool features would have been useful for the Requirements Engineering in the project?

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Do you have any more comments?

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