

## Questionnaire 2

# *Cybersecurity Risk Management and Evaluation Framework for BC-IdM Systems in HIoT*

Dear Participant,

I would like to thank for your valuable inputs from the previous phase and for your willingness to contribute in this final phase of the development of the Evaluation and Cybersecurity Risk Management Framework for Blockchain (BC) based Identity Management (IdM) systems in Health Internet of Things (HIoT).

This questionnaire is dedicated to validate the developed framework by using it in your undergoing BC-IdM application project. The expected time to finish this questionnaire is around 10 minutes.

The ethics form for this project is already approved by the Faculty of Science and Engineering Ethics Committee, and the privacy notice document can be provided at your request. If you have concerns about this study and wish to contact someone independent, you may contact: The Chair, Faculty of Science & Engineering Research Ethics Committee, University of Limerick, Limerick. Tel: 061 237719

Thank you in advance for your time and co-operation. If you have any questions, please do not hesitate to email me or my supervisors, Prof. Ita Richardson, at [Ita.richardson@lero.ie](mailto:Ita.richardson@lero.ie) and Dr Katie Crowley at [katie.crowley@ul.ie](mailto:katie.crowley@ul.ie).

Yours sincerely,

**Bandar Alamri**

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\* Indicates required question

The implications of using the developed framework in your project

Please answer the following question concerning the evaluation factors of BC-IdM in your project.

1. What is your BC application project focus? \*

*Mark only one oval.*

- ☐ General BC-IdM systems
- ☐ BC-IdM for healthcare systems
- ☐ BC-IdM for HIoT
- ☐ Other

2. Please specify if the answer to the previous question is other.

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3. What are the evaluation factors considered in your project?

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Note: "Not applicable" choice can only be used with evaluation factors number 19, 20, and 21 as they are related to HIoT applications

*Tick all that apply.*

	Yes	No	Not Applicable
1. Integrity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. confidentiality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Authentication	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Privacy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Recovery plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Performance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. IdM functional requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Scalability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Sustainability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Interoperability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Suitability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Safety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Agility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. BC support community	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

16. resilience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. BC-IdM principles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. End-user experience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. HIoT-related regulations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. HIoT technical standardization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. HIoT considerations (constraints)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Regulations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Governance and compliance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24. Solution acceptance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25. Cost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26. Awareness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. To what extent does considering the whole evaluation factors increase the reliability of your project products? \*
- Note: 5 is the highest and 1 is the lowest

Mark only one oval.

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

5. To what extent do you think the cybersecurity risk management process will help you to mitigate Cybersecurity risks? \*
- Note: 5 is the highest and 1 is the lowest

Mark only one oval.

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

6. To what extent will you encourage a similar project to use the final product of our framework? \*

Note: 5 is the highest and 1 is the lowest

Mark only one oval.

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

7. Could you please assess the framework in terms of the following: \*

Note: 5 is the highest, and 1 is the lowest

Note: you need to scroll horizontally to see the full list of options (1 to 5)

Tick all that apply.

	1	2	3	4	5
<b>Applicability</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Effectiveness</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Comprehensibility</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Comprehensiveness</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. Do you have any suggestions on how to improve our product? \*

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9. Thank you very much for your contribution to this project. We would appreciate your comments and feedback:

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