
Blockchain for Forced Labour Intelligence

A Data Management Plan created using DMPonline

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Project abstract:

To exploit distributed ledger technology to gather and share forced labour intelligence both nationally and internationally. As a proof of concept, we propose to build a permission based blockchain system with nodes in Delhi, India and Manchester, UK.

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Blockchain for Forced Labour Intelligence

Data types

Specify the types of data the research will generate.

Only simulated data will be used to test the blockchain. The UK National Helplines for Modern Slavery will advise how to simulate these data so that they are realistic.

Data preservation

Specify which data will be preserved and how.

None; we use simulated data in testing the blockchain. These data can be deleted at any time.

Specify the software and metadata implications.

We are designing and writing our own software with the help of subcontractors.

Specify for how long the data will be preserved.

Two years, during the project duration.

Data sharing

Specify and justify which data will have value to others and should be shared.

The data itself has no value except for the Blockchain nodes located outside Manchester University since the same data will appear on all nodes according to the blockchain technology.

Specify and justify the length of any proprietary period.

two years

Specify how data will be shared

By blockchain connection. It is a permission chain; only authorised and invited users have access to the blockchain nodes.

Resources

Specify and justify any resources required to preserve and share the data.

Not significant.

Manchester Data Management Outline

1. Is this project already funded?

- No

2. If you will be applying for funding from multiple sources who else will you be applying to?

- Engineering and Physical Sciences Research Council

For a slightly different project but also on building blockchain.

3. Is The University of Manchester the lead institution for this project?

- No

Hartree Centre is the PI, and UoM is the Co-I.

4. What data will you use in this project (please select all that apply)?

We will simulate the data for testing the blockchain.

5. Where will the data be stored and backed-up during the project lifetime?

- Other storage system (please list below)
- University of Manchester Research Data Storage

IBM cloud might be used as one of the technology we are testing is the IBM Hyperledger.

6. If you will be using Research Data Storage, how much storage will you require?

- 1 - 8 TB

7. Will any of the data associated with this project be sourced from, processed or stored outside of the institutions and groups stated on your data sharing agreement?

- Yes

All the blockchain nodes will have the same data. The project plan is to have nodes in the UK (Manchester to start with) and India (Dalhi to start with).

8. How long do you intend to keep your data for after the end of your project (in years)?

- < 5 years

Questions about personal information

Personal information is what we call personal data and relates to living individuals. Special category data is sensitive information such as medical records, ethnic background, and sexual orientation for example. If you are not using personal data then you can skip the rest of this section.

Please note that in line with [GDPR](#) and data protection regulations, personal information should only be stored in an identifiable form for as long as is necessary for the project. You must obtain the appropriate [ethical approval](#) in order to use identifiable personal data.

9. What type of personal information will you be processing?

- Anonymised personal data
- No sensitive or personal data

The UK Helplines for Modern Slavery might give us some anonymised data to help the simulation process. Only simulated data will be used in the research.

10. Please provide details of how you plan to store, protect and ensure confidentiality of the participants' information as stated in the question above

The private and confidential information will not be passed to us. The data we have access to is anonymised.

11. If you are storing personal information will you need to keep it beyond the end of the project?

- Not applicable

12. Sharing personal information can present risks to participants' privacy, researchers and the institution. Will any personal information or sensitive data be shared with an individual or organisation outside of the University of Manchester?

- No

13. If you will be sharing personal information outside of the University of Manchester, will the individual or organisation you are sharing with be outside the EEA?

- Not applicable

14. Are you planning to use the personal information for future purposes such as research?

- No

15. Who will act as the data custodian or information asset owner for this study?

Ser-Huang Poon

16. Please provide the date on which this plan was last reviewed (dd/mm/yyyy).

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