
Leveraging Blockchain & Distributed Ledger Technologies for a Sustainable Economy and Society

A Data Management Plan created using DMPonline

Creator: Ser-Huang Poon

Affiliation: University of Manchester

Funder: Economic and Social Research Council (ESRC)

Template: ESRC Template Customised By: University of Manchester

ORCID iD: 0000-0002-7297-9401

Project abstract:

Modern slavery is a complex crime and there are many organisations, viz. charities, NGOs, law enforcement agencies etc., involved in tackling it. This, when combined with the extreme sensitivity of the data, in turn poses major challenges in coordinating the communication between these organisations. We believe that a trusted decentralised network, based on the blockchain distributed ledger technology, has the potential to greatly facilitate such communication making their collaboration more effective. This is particularly true in the worldwide case, where the challenges of international communication become harder. In particular the way in which the system permits organisations to freely join it with minimal barriers, will allow an initially established network to organically expand its reach. Creating such a self-sustaining network of information exchange to fight the scourge of modern slavery is the underlying drive behind the proposed work in this project. Our vision is to put in operation this trusted decentralised network in five key countries on the modern slavery map in five years, and to reach 193 countries ultimately. To this end, we have been actively developing partnerships with appropriate organisations locally in Manchester. The relationship and connections with the Greater Manchester Police has been valuable due to its proximity and the Programme Challenger, GMP's specialist anti-slavery unit, comprehensive coverage of services to support modern slavery victims. We propose to use this project to conduct a series of discussions with potential users within GMP to produce a specification for a realistic deployable prototype. Outside the UK, we have forged a relationship with MeKong Club who has a significant presence in East Asia and has already teamed up with Diginex using blockchain to enhance labour contract transparency, and ACET (Analytical Center of Excellence on Trafficking). Teaming up with MeKong club will help to extend our work to East Asia quickly.

Last modified: 16-07-2019

Copyright information:

The above plan creator(s) have agreed that others may use as much of the text of this plan as they would like in their own plans, and customise it as necessary. You do not need to credit the creator(s) as the source of the language used, but using any of the plan's text does not imply that the creator(s) endorse, or have any relationship to, your project or proposal

Leveraging Blockchain & Distributed Ledger Technologies for a Sustainable Economy and Society

Manchester Data Management Outline

- None of the above
- Yes - Part of a collaboration and not handling data
- Generate textual supporting information only

will use simulated cases

- University of Manchester Research Data Storage Service (Isilon)
- 1 - 8 TB
- No
- 0-4 years
- No sensitive or personal data

Not applicable

- Not applicable
- Not applicable
- Not applicable
- No

Myself, PI

2019-07-16

Assessment of existing data

simulated cases for testing the blockchain distributed ledger which is installed on client's server.

no gap; use simulated data only

Information on new data

modern slavery cases, not no data that will be subject to GDPR

Quality assurance of data

simulated data based on data fields suggested by practitioners

Backup and security of data

Back up not necessary as one can always re-simulate

Management and curation of data

we plan to consult the stakeholders regarding the fields needed on the blockchain. Then we simulate artificial records to test the blockchain.

Difficulties in data sharing and measures to overcome these

Not applicable

Consent, anonymisation and strategies to enable further re-use of data

Not applicable

Copyright and intellectual property ownership

Not applicable

Responsibilities

Not applicable