iVERSE: Inclusive Virtual Education

A Data Management Plan created using DMPonline

Creators: Nicholas Fair, Michael Boniface, First Name Surname

Affiliation: University of Southampton

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Project abstract:

The iVERSE project will lower the barriers to adoption of VR for education by teachers, ensure equal access to VR learning spaces through open source provision to schools, and design accessibility and inclusivity into the VR spaces from the outset to further the acceptance of VR by all students (especially SEND students) and ensure that no students are disadvantaged in the education of the future.

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Data Collection

What data will you collect or create?

iVERSE will collect raw data in the following areas:

1. the functions and requirements teachers need to easily annotate commonly-used teaching materials (e.g. ppt) to enable them to be displayed and used in VR learning environments (needs requirements data). This will be qualitative and quantitative data in both digital and non-digital forms.

2. the accessibility and appearance functions and requirements that students, including SEND students, need to enable them to accept and easily use a VR learning environments (needs requirements data). This will be qualitative and quantitative data in both digital and non-digital forms.

How will the data be collected or created?

In both cases, the data will be collected via a Living Labs methodology, which will consist of in-person, audio recorded (MP3 format) workshop sessions involving discussion (stakeholder opinion), work groups (co-design), technology testing (end-user feedback) and surveys (online/digital feedback). Non-digital, paper-based data will also be generated during Living Labs sessions, especially those with SEND students.

Audio recordings will be transcribed and anonymised. Non-digital data and digital data will be analysed. The anonymised transcription data and the combined data analysis will be made available for other researchers.

Documentation and Metadata

What documentation and metadata will accompany the data?

README file or similar documentation to explain the organisation of the data, together with the appropriate metadata, will be made available on the iVERSE project website within 12 months of collection where appropriate. Research publications will include a link to any open datasets where appropriate.

Ethics and Legal Compliance

How will you manage any ethical issues?

iVERSE will establish an Ethics and EDI Board to meet regularly throughout the project. The Board will be lead by the Chair of the Electronics and Computer Sciences Faculty Research Ethics Committee. IVERSE will gain full ethics approval prior to beginning any data collection.

How will you manage copyright and Intellectual Property Rights (IPR) issues?

The majority of the iVERSE output will be Open Source, and wherever possible/permitted the fully anonymised datasets will be open to other researchers online.

Storage and Backup

How will the data be stored and backed up during the research?

All digital data will be securely held on the University of Southampton secure servers in accordance with GDPR regulations.

How will you manage access and security?

All digital data will be password protected on University of Southampton secure servers with access available only to those with institutional and project logins.

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

The anonymised analysis data resulting from the Living Labs raw data will be of long-term value and will be made available via the iVERSE website as password-protected downloadable datasets where appropriate for up to ten years after the end of the project.

What is the long-term preservation plan for the dataset?

All digital data will be stored on the University of Southampton secure institutional data repositories for the duration of the project and beyond.

Data Sharing

How will you share the data?

Anonymised analysis datasets will will be shared via the iVERSE website. Specific 'priviledged access' requests to the project managers would need to be made by other researchers in order to access the datasets. Post-project it is anticipated that the infinityVERSE social enterprise spin-out website would become the new host of such datasets, and similar access requests would need to be made to the company's directors.

Are any restrictions on data sharing required?

No restrictions on data sharing are anticipated.

Responsibilities and Resources

Who will be responsible for data management?

Data management during the data collection and analysis phases will reside with iVERSE Early Career and Researcher Co-Investigators. Thereafter, data management will be the responsibility of the iVERSE project management work package lead (WP6). Post-project data management will be taken over by the InfinityVERSE company directors.

What resources will you require to deliver your plan?

iVERSE will require the use of University of Southampton servers and data repositories, which are costed in the project as 'hosting'.