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| **Cases**  **questions** | **2** | **3** | **4** |
| **What data will be created or collected (type, size, format, etc.)** | text, spreadsheets and audio files all in digital form | **Excel**  **CSV** |  |
| **What licenses apply to the data** |  |  |  |
| **What facilities and equipment will be required (hard disk space, backup**  **server, central repository, off-site repository, etc.)** | master copy / backup on a USB key which he takes with him in his briefcase at all times for safekeeping. |  |  |
| **What data management practices (backups, storage, access control,**  **archiving etc.) will be used** | Zotero (for documents) and Dropbox (for audio files) and Google Docs (for transcriptions) |  |  |
| **Who will own and have access to the data** | Dr. Green is unwilling to let others use it since he did all of the work. | **Professor is willing to share her data with anyone** |  |
| **Which data will retain value after the life of the project** |  |  |  |
| **What metadata and linked open data strategies will be employed** |  |  |  |
| **How will its reuse be enabled and long-term preservation ensured after**  **the original research is completed** |  |  |  |
| **How much will the storage of this data cost (cloud and/or hard drives)** |  |  |  |
| **My Comment** | -Stored in a Zotero database (size unknown).  -audio file size  - |  |  |

**Case-2:turki**

**Brains on Board**

A Data Management Plan created using DMPonline

Creator: James Marshall

Affiliation: University of Sheffield

Template: University of Sheffield

Grant number: EP/P006094/1

Last modified: 12-03-2018

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

**Data Collection**

In this case, three data collection tools are used during the experiment:

1- Text documents:

383 individual documents in different format PDF, MS word, and plain text describing the team, their outcome and practices obtained from healthcare organization and transcription of the interview in MS word format.

2- Spreadsheet:

Quantitative data about these documents is saved in Excel spreadsheet.

3- Audio file

15 Interviews is saved in mp3 format which will be transcribed in word document.

[ We will make a copy of the original documents and import all the data in spreadsheet for easy use. also each transcription will be given ID for identification and saved, cleared and organized in spreadsheet.]

**Documentation and Metadata**

For private data repositories, DataCite metadata will be generated via Figshare based on the compulsory fields, plus a brief textual description field.

For public data repositories, metadata will be generated as above, and accompanying documentation will be published in the appropriate form for the medium (e.g. Readme.md file for Github repositories, online supporting information file for publications associated with data respositories).

**Ethics and Legal Compliance**

No ethical issues (no human subject data collected)

In consultation with patent attorneys commercialisable methods will be protected by patent before or after publication. At time of publication supporting data will be made available freely, or under requested licence, according to sensitivity.

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**Storage and Backup**

Software will be stored and backed-up on Github

Research data will be stored on appropriate cloud storage services (e.g. Sheffield Google Drive for project data, Figshare (Sheffield and Sussex) and Open Science Framework (QMUL) for repositories), or institutionally-provided, safeguarded internal storage services

Sensitive data will be stored on private repositories required authenticated access

**Selection and Preservation**

Model and controller structures

Empirical robot data

Behavioural and neural data from animal experiments

Archiving of freely available data on recognised stable long-term repositories (e.g. GitHub, etc.)

Archiving of non-public raw data via institutional storage services.

Archiving of non-public processed data via private online repositories (Figshare (Sheffield and Sussex), OSF (QMUL))

**Data Sharing**

Freely at time of publication in case of no commercial / research advantage considerations

Under licence at researchers' request in other cases

Yes - experimental data from robots, neural and behavioural recordings are all costly to collect and can be exploited long-term by the team as a unique research resource

Experimental data and aspects of models developed and tested during robotic experiments may be commercially sensitive

**Responsibilities and Resources**

PI and Project Manager (brainsonboard-coordinator@sheffield.ac.uk)

Resources as already provided by open-source providers and institutional partners

**Case-3: Naz**

**Brains on Board**

A Data Management Plan created using DMPonline

Creator: James Marshall

Affiliation: University of Sheffield

Template: University of Sheffield

Grant number: EP/P006094/1

Last modified: 12-03-2018

Copyright information:

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**Data Collection**

Neural and behavioural data on behaving honeybees in closed-loop VR flight simulator

Behavioural data on free-flying bees over short and long ranges Neural network simulation data (input, output, internal state)

Telemetry from various robotic platforms (ground-based, 3-d gantry, free-flying robot)

Virtual reality flight simulator with torque meter and single-cell electrophysiology apparatus

High-speed camera (short range bee flight) and harmonic radar (long range bee flight)

Neural network simulation on virtual and real sensor input, in control of virtual or real robot platform

Vicon motion capture data (ground-based and free-flying robots indoors), on-board robot sensors (e.g. IMU), controller input and output

**Documentation and Metadata**

For private data repositories, DataCite metadata will be generated via Figshare based on the compulsory fields, plus a brief textual description field.

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**Ethics and Legal Compliance**

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**Selection and Preservation**

Model and controller structures

Empirical robot data

Behavioural and neural data from animal experiments

Archiving of freely available data on recognised stable long-term repositories (e.g. GitHub, etc.)

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**Responsibilities and Resources**

PI and Project Manager (brainsonboard-coordinator@sheffield.ac.uk)

Resources as already provided by open-source providers and institutional partners

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**Case-4: Ychele**

**Brains on Board**

A Data Management Plan created using DMPonline

Creator: James Marshall

Affiliation: University of Sheffield

Template: University of Sheffield

Grant number: EP/P006094/1

Last modified: 12-03-2018

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**Data Collection**

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Behavioural data on free-flying bees over short and long ranges Neural network simulation data (input, output, internal state)

Telemetry from various robotic platforms (ground-based, 3-d gantry, free-flying robot)

Virtual reality flight simulator with torque meter and single-cell electrophysiology apparatus

High-speed camera (short range bee flight) and harmonic radar (long range bee flight)

Neural network simulation on virtual and real sensor input, in control of virtual or real robot platform

Vicon motion capture data (ground-based and free-flying robots indoors), on-board robot sensors (e.g. IMU), controller input and output

**Documentation and Metadata**

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**Ethics and Legal Compliance**

No ethical issues (no human subject data collected)

In consultation with patent attorneys commercialisable methods will be protected by patent before or after publication. At time of publication supporting data will be made available freely, or under requested licence, according to sensitivity.

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**Storage and Backup**

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**Selection and Preservation**

Model and controller structures

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**Responsibilities and Resources**

PI and Project Manager (brainsonboard-coordinator@sheffield.ac.uk)

Resources as already provided by open-source providers and institutional partners

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