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# Evaluating the sustainability and nutritional benefits of alternative production systems and foods - focusing on vertical farming systems

*A Data Management Plan created using DMPonline*

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## **Project abstract:**

Literature review looking at emerging trends, developments and innovations in the field of urban farming and vertical farming. Literature review of the social, environmental and economic risks and opportunities posed by vertical farming systems.

**ID:** 75990

**Start date:** 01-03-2021

**End date:** 01-06-2021

**Last modified:** 20-05-2021

## **Copyright information:**

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# **Evaluating the sustainability and nutritional benefits of alternative production systems and foods - focusing on vertical farming systems**

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## **Data areas and data types**

**Outline the volume, type and content of data that will be generated e.g. experimental measurements, models, records and images**

Literature review is to be conducted for research paper, dataset to be created is a reference list. A reference list will be compiled of publicly available research papers, online newspapers, online market reports, business websites and online books for use in literature review paper. Reference list consists of approximately 116 references.

## **Standards and metadata**

**Outline the standards and methodologies that will be adopted for data collection and management, and why these have been selected**

A broad horizon scanning methodology has been developed to gather, organise and rank insights on the subject of vertical farming, these insights are then to be used to identify key drivers of development and innovation in the field of vertical farming.

All horizon scans conducted use publicly available research papers, online newspapers, online market reports, business websites and online books.

Metadata will be provided and added to a repository (CORD).

Information gathered from publicly available literature will be organised into a reference list and all work relating to the project will be securely stored on Cranfield University secure cloud storage system (Onedrive).

File will be saved in folder named 'Vertical Farming', file name will consist of date in following format: day, month, year, file name 'vertical farming literature review' file will be saved in pdf and .doc format on both harddrive and Cranfield University secure onedrive cloud system.

## **Relationship to other data**

**State the relationship to other data available in public repositories**

Dataset in the form of reference list will be compiled. A reference list consisting of publicly available research papers, online newspapers, online market reports, business websites and online books will be made. Approximately 116 references will be included. The reference list (dataset) will provide the source of the data (references) to the reader and give sufficient information for how the reader can find the source of the data (references) to further inform their understanding of the subject matter.

## **Secondary Use**

### **Outline the further intended and/or foreseeable research uses for the completed dataset(s)**

Horizon scans will be made using publicly research papers, online newspapers, online market reports, business websites and online books. Insights will be developed based on this information and this will help identify key drivers of development and innovation in the field of vertical farming.

The paper and reference list will be made publicly available for transparency.

## **Methods for data sharing**

### **Outline the planned mechanisms for making these data available, e.g. through deposition in existing public databases or on request, including access mechanisms where appropriate**

Data will be retained securely in Cranfield's institutional data repository, CORD, which uses the figshare platform and preserves data for at least 10 years after project end, with datasets assigned a DOI for long-term accessibility, in accordance with Cranfield's Management of Research Data Policy. A CC BY license will be used.

## **Proprietary data**

### **Outline any restrictions on data sharing due to the need to protect proprietary or patentable data**

Entire literature review and reference list will be shared, no barriers to sharing. It is foreseen that information gathered in reference list of publicly available research papers, online newspapers, online market reports, business websites and online books could be

accessed by other users looking for further information on the subject of vertical farming.

## **Timeframes**

### **State the timescales for public release of data**

All information gathered for this literature review and the literature review itself will be published and made publicly available. It is hoped that the timeframe for publishing work will be by autumn 2021, this is dependent on editor approval and successful publishing.

It is foreseen that information gathered in reference list of publicly available research papers, online newspapers, online market reports, business websites and online books could be accessed by other users looking for further information on the subject of vertical farming.

## **Formats**

### **State the format of the final dataset**

Literature review paper and reference list will be published in compatible PDF/A non-proprietary format.