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# Apparel Advance: towards a sustainable apparel manufacturing ecosystem

*A Data Management Plan created using DMPonline*

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**Funder:** Engineering and Physical Sciences Research Council (EPSRC)

**Template:** EPSRC Data Management Plan Customised By: University of Manchester

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## Project abstract:

Our impact goal is to provide Textile and Apparel sector stakeholders with evidence to inform an economic case for investment in the creation of a circular ecosystem: comprising the design, manufacture, and re-use of apparel items. We will contribute to UKMSN+ by: • Mapping the Textile and Apparel sector's current manufacturing capabilities within Greater Manchester and the East Midlands. We will communicate current manufacturing capabilities through an industry-facing website, including an interactive map-mashup. Our map-mashup will communicate – to different Textile & Apparel stakeholders - information about available manufacturers, products, components, by-products, and waste. Stakeholders will include industry in the northwest (for example NBrown, Private White), key bodies representing the textile industry (Textile Institute) and groups looking to support innovation in onshore manufacturing (Make it British). Presenting these data on a map, we allow stakeholders to reflect on relationships, strengths, and opportunities within their industry that are invisible without the geographic context. • Developing a comprehensive skills matrix focused on existing skills and necessary areas, and sources of, development. Our skills matrix will identify areas a strength and opportunity for growth. Government investors and UK Textile Manufacturers can use the skills matrix to enable the creation of a circular ecosystem for design, manufacture, and re-use of apparel items by connecting suitably skilled and motivated stakeholders. This will further support research focus to explore potential for bids to target key skills, training and adoption of new technologies. For continuation funding, we will apply to EPSRC's Manufacturing the Future and Sustainable Industries calls. Mass customisation is one avenue for the manufacture of bespoke garments for a population. Bespoke garments can reduce the waste inherent in the existing ready-to-wear ecosystem because garments are thrown away due to lack of purchase or ill-fit. To achieve a circular ecosystem for design, manufacture, and re-use of apparel items, manufacturers must be able to mass produce, or adjust to achieve bespoke garments. We will address this problem. This UKMSN+ grant's outcomes will facilitate building trust and relationships with key UK Textile & Apparel stakeholders. We will partner with those UK Textile & Apparel stakeholders to achieve grant work packages and facilitate impact activities in the creation of a circular ecosystem for design, manufacture, and re-use of apparel items.

**Last modified:** 24-02-2020

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## Manchester Data Management Outline

- Funder
- Yes - Part of a collaboration and owning or handling data

A small contribution from a colleague at L'boro University

- Re-use existing data (please list below)
- Generate textual supporting information only

PhD research data from current student.

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

No personal information will be recorded or retained. We will be collecting text as we write it of opinions and ideas.

All other details will be business details and available in the public domain.

- No
- Not applicable
- No
- No

Steven Hayes

2020-02-24

## Data Collection

Text-based statements of ideas for how the industrial sector can address the aims of the Sustainable Manufacturing network.

Conversation. Notes take. Visuals created.

## Documentation and Metadata

Sector position. Employment and Economic Data. Geographical Location.

## **Ethics and Legal Compliance**

There are no ethical issues according to our ethical decision tool.

Through the Universities centralised system.

## **Storage and Backup**

Text will be recorded on a secured HD and then stored in our secure data storage area.

Only myself as PI has access to the storage area. This will be extended to my Col's

## **Selection and Preservation**

n/a

n/a

## **Data Sharing**

Mendeley data set. Institutional repository.

n/a

## **Responsibilities and Resources**

Steven Hayes - UoM

n/a