Understanding and Improving Human Data Relations

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Table of Contents

# Abstract

Technologies including PCs, smartphones, and cloud computing have transformed the world: In our daily lives we interact with many businesses and public services who (to reduce costs) increasingly seek to rely on data collection and processing rather than face-to-face user interactions to inform their decisions. This creates an *imbalance of power* between those who hold data and the individuals about whom data is stored, who cannot easily see their personal data or how it is used. This *Digital Civics* PhD research explores, from a pragmatic, individualist, constructivist perspective, the topic of ***Human Data Relations***. Through two qualitative case studies across public and private sectors, it answers the question, *‘What relationship do people need with their personal data?’*. Case Study One focuses on *Early Help* social care: Through four workshops with supported families, social workers and staff, a deep understanding of the individual perspective on civic personal data use is established. *Shared data interaction* is explored as a means to shift the balance of power towards the individual while maintaining an effective care relationship. Case Study Two is a three-month study exploring 10 participants’ experience of using *GDPR data access rights* to view their own data, resulting in insights into individual needs and the challenges of data-centric service relationships, and recommendations for improvement of policies and practices. With reference to literature from the fields of *Personal Information Management*, *Human Data Interaction* and *MyData* personal data ecosystems, these case studies contribute to a unified understanding of *six core needs* that people have in Human Data Relations. In the final chapter, the thesis discusses the *practical pursuit* of these goals, drawing on first-hand knowledge acquired from expert participation in industrial research projects at BBC R&D and Hestia.ai/SITRA, *mapping out the landscape for future research and innovation*.

# Dedication

*For my children Rosie, Joey, and Zach; my nephew Elliott; and my nieces Amy and Lyla. My wish is that that you and your generation might soon experience a future where technology can truly help people and empower them to thrive, and where personal data drives human flourishing more than corporate profit. I hope that this research can in some small way contribute to a better future for you all.*

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# Lists of Tables and Figures

## Lists of Tables by Chapter

### Tables in Chapter 3

[Table 3.1](#table-3.1) - Context One (Civic Data & Early Help): Participants involved in Research Activities leading into Case Study One.

[Table 3.2](#table-3.2) - Context Two (Digital Life): Participants Involved in Digital Life Research Activities Leading into Case Study Two.

### Tables in Chapter 4

[Table 4.1](#table-4.1) - Example Categories of Family Civic Data

[Table 4.2](#table-4.2) - Case Study One Group Design Workshops

[Table 4.3](#table-4.3) - Theme 1 - Meaningful Data Interaction for Families: Subthemes & Participant Quotes

[Table 4.4](#table-4.4) - Theme 2 - Giving a Voice to the Family: Subthemes & Participant Quotes

[Table 4.5](#table-4.5) - Theme 3 - Earning Families’ Trust Through Transparency: Subthemes & Participant Quotes

### Tables in Chapter 5

[Table 5.1](#table-5.1) - Types of Data Holding Organisation Targeted for GDPR Requests by Study Participants

[Table 5.2](#table-5.2) - Types of Personal Data Potentially Accessible from Data Holders via GDPR Rights

[Table 5.3](#table-5.3) - Presence and Quality Assessments of GDPR Responses by Data Type (as Percentages)

[Table 5.5](#table-5.5) - Participants’ Hopes, Imagined Data Uses and Goals for GDPR, as well as Resultant Outcomes

[Table 5.6](#table-5.6) - Theme 1 - Insufficient Transparency: Subthemes & Participant Quotes

[Table 5.7](#table-5.7) - Theme 2 - Confusing & Unusable Data: Subthemes & Participant Quotes

[Table 5.8](#table-5.8) - Theme 3 - Fragile Relationships: Subthemes & Participant Quotes

### Tables in Chapter 7

[Table 7.1](#table-7.1) - Eight Lenses on Personal Data

### Tables in Additional Reference Information

[Table ARI.1](#table-ARI.1) - Best and Worst Data Holders for GDPR, according to Participants’ Judgements

## Lists of Figures by Chapter

### Figures in Chapter 1

[Figure 1.1](#figure-1.1) - Poster Presentation of Case Study One

[Figure 1.2](#figure-1.2) - The Structure of This Thesis

### Figures in Chapter 2

[Figure 2.1](#figure-2.1) - The Wisdom Curve: Making Data into Meaningful Information

[Figure 2.2](#figure-2.2) - Li *et al.*’s Stage-based Model of Personal Informatics Systems

### Figures in Chapter 3

[Figure 3.1](#figure-3.1) - My Action Research Approach

[Figure 3.2](#figure-3.2) - “Family Facts” – What is Data?

[Figure 3.3](#figure-3.3) - Walls of Data – Sensitising Participants to the World of Commercially-held Data and GDPR

[Figure 3.4](#figure-3.4) - Sentence Ranking – Bringing Support Workers and Families to a Shared Problem Space

[Figure 3.5](#figure-3.5) - Family Civic Data Cards – Things to Think With

[Figure 3.6](#figure-3.6) - Personal Data Examples – Making Data Relatable

[Figure 3.7](#figure-3.7) - Home Interviewing: Card Sorting with a Family in Their Living Room

[Figure 3.8](#figure-3.8) - Ideation Decks – Combining Random Design Ingredients to Generate New Ideas

[Figure 3.9](#figure-3.9) - Group Poster Design – A Participant-designed Poster to Advertise Features of Imagined Data Interface Products

[Figure 3.10](#figure-3.10) - Storyboarding Cards – A Collaboratively-constructed Narrative Created through Discussion from a Palette of Possible Parent and Staff Actions

[Figure 3.11](#figure-3.11) - Thematic Analysis of Qualitative Data using Quirkos for Case Study One

[Figure 3.12](#figure-3.12) - Spreadsheet-based Quantitative Analysis of Interview Data for Case Study Two

[Figure 3.13](#figure-3.13) - Pilot Study Recruitment Poster

[Figure 3.14](#figure-3.14) - How the Case Studies and Peripheral Activities Contribute to This Thesis

### Figures in Chapter 4

[Figure 4.1](#figure-4.1) - Participants’ Shared Values Deduced from Sentence Rankings Data

[Figure 4.2](#figure-4.2) - Current Model of Data Interaction, and Proposed Model of Shared Data Interaction

### Figures in Chapter 5

[Figure 5.1](#figure-5.1) - A Journey Map of Each Participant’s Study Progression

[Figure 5.2](#figure-5.2) - An Example Life Sketch from Interview 1, with Data Handling Companies in Red, Data Types in Blue, and Feelings in Green

[Figure 5.3](#figure-5.3) - Sankey Overview of Participants’ GDPR Requests

[Figure 5.4](#figure-5.4) - Longitudinal Distribution of Net Changes in Participants’ Perceived Power and Trust Scores

[Figure 5.6](#figure-5.6) - Participants’ Perceived Trust in Provider at Different Stages of the GDPR/Study Process

### Figures in Chapter 7

[Figure 7.1](#figure-7.1) - The Two Motivations for HDR: Controlling Your Personal Data Ecosystem and Utilising Your Information About Your Life

[Figure 7.2](#figure-7.2) - Mapping the Six Wants into Objectives for the HDR Opportunity Landscape

[Figure 7.3](#figure-7.3) - Obstacles and Resulting Insights in the HDR Opportunity Landscape

[Figure 7.4](#figure-7.4) - Life Concept Modelling

[Figure 7.5](#figure-7.5) - Mock-up of a Unified TV Viewing History Interface

[Figure 7.6](#figure-7.6) - SubsCrab: An Example Application for Ecosystem Detection and Visualisation

[Figure 7.7](#figure-7.7) - Some of the Many Aspects of Metadata that Might Exist About a Datapoint or Dataset

[Figure 7.8](#figure-7.8) - The Panopticon Structure of the Illinois State Penitentiary

[Figure 7.9](#figure-7.9) - Human Values, as Identified in BBC R&D Research Funded by Nesta

[Figure 7.10](#figure-7.10) - A Contact-and-Calendar-centric PDS Approach

[Figure 7.11](#figure-7.11) - The Scattered Data Relating to a Vacation

[Figure 7.12](#figure-7.12) - Mock-up of a Unified Interface for a Vacation

[Figure 7.13](#figure-7.13) - Annotating Data with Semantic Context

[Figure 7.14](#figure-7.14) - Theory of Change [ToC]: The Four Dimensions of Change

[Figure 7.15](#figure-7.15) - HDR Approach 1: Discovery-Driven Activism

[Figure 7.16](#figure-7.16) - HDR Approach 2: Building the Human-centric Future

[Figure 7.17](#figure-7.17) - Conceptual Model for a Personal Data Store System

[Figure 7.18](#figure-7.18) - High Level Data Types

[Figure 7.19](#figure-7.19) - Life Information Modelled as Happenings

[Figure 7.20](#figure-7.20) - A Simple PDS Life Information Presentation Model

[Figure 7.21](#figure-7.21) - Mock-up of Life Information Presented in a PDS Interface

[Figure 7.22](#figure-7.22) - Life Partitioning Analogy using a Cluedo™ board

[Figure 7.23](#figure-7.23) - Mock-up: Browsing by Areas of Life

[Figure 7.24](#figure-7.24) - Identifying Entity Associations in Data

[Figure 7.25](#figure-7.25) - Facebook’s World2vec Model, Semantically Modelling Human Information from Social Media Posts on Facebook

[Figure 7.26](#figure-7.26) - Identifying the Attributes of Data

[Figure 7.27](#figure-7.27) - Determining the Nature of a Piece of Data

[Figure 7.28](#figure-7.28) - Attributes of Data

[Figure 7.29](#figure-7.29) - Actions One Might Perform on Life Information

[Figure 7.30](#figure-7.30) - Questions One Might Ask of Life Information

[Figure 7.31](#figure-7.31) - Example Taxonomies for Life Information Navigation

[Figure 7.32](#figure-7.32) - HDR Approach 3: Defending User Autonomy and Hacking the Information Landscape

[Figure 7.33](#figure-7.33) - The Modern ‘Black Box’ View of Technology

[Figure 7.34](#figure-7.34) - HDR Approach 4: Winning Hearts and Minds: Teaching, Championing and Selling the Vision

[Figure 7.35](#figure-7.35) - SILVER Health Data Viewing Interface

[Figure 7.36](#figure-7.36) - Summary of Generalised Change Strategies for Pursuing Better HDR, Using the ToC Model

### Tables in Additional Reference Information



Figure ARI.1: Extract of Sample Scenario Storyboarding Exercise walkthrough



Figure ARI.2: Example Backing Mat for Storyboard Decks

[Figure ARI.x](#figure-ARI.x) - Screenshot from Quirkos During Coding Process

[Figure ARI.x](#figure-ARI.x) - Screenshot from Quirkos at End of Coding Process

[Figure ARI.c](#figure-ARI.x) - Screenshot from Workflowy During Theme Construction

[Figure ARI.x](#figure-ARI.x) - Private Data Viewing Monitor with Viewing Glasses

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