

Understanding and Improving Human Data Relations

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Contents

Abstract	1
Dedication	2
Acknowledgements	2
Lists of Tables and Figures	4
Tables in Chapter 3	4
Tables in Chapter 4	4
Tables in Chapter 5	5
Tables in Chapter 7	5
Tables in ‘Additional Reference Information’	5
Figures in Chapter 1	5
Figures in Chapter 2	5
Figures in Chapter 3	6
Figures in Chapter 5	6
Figures in Chapter 7	7
Figures in ‘Additional Reference Information’	8
Bibliography	8

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 - Context One (Civic Data & Early Help): Participants involved in Research Activities leading into Case Study One.

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 - Example Categories of Family Civic Data

Table 4.2 - Case Study One Group Design Workshops

Table 4.3 - Theme 1 - Meaningful Data Interaction for Families: Subthemes & Participant Quotes

Table 4.4 - Theme 2 - Giving a Voice to the Family: Subthemes & Participant Quotes

Table 4.5 - Theme 3 - Earning Families' Trust Through Transparency: Subthemes & Participant Quotes

Tables in Chapter 5

Table 5.1 - Types of Data Holding Organisation Targeted for GDPR Requests by Study Participants

Table 5.2 - Types of Personal Data Potentially Accessible from Data Holders via GDPR Rights

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

Table 5.4 - Participants' Hopes, Imagined Data Uses and Goals for GDPR, as well as Resultant Outcomes

Table 5.5 - Theme 1 - Insufficient Transparency: Subthemes & Participant Quotes

Table 5.6 - Theme 2 - Confusing & Unuseable Data: Subthemes & Participant Quotes

Table 5.7 - Theme 3 - Fragile Relationships: Subthemes & Participant Quotes

Tables in Chapter 7

Table 7.1 - Eight Lenses on Personal Data

Tables in 'Additional Reference Information'

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 - Poster Presentation of Case Study One

Figure 1.2 - The Structure of This Thesis

Figures in Chapter 2

Figure 2.1 - The Wisdom Curve: Making Data into Meaningful Information

Figure 2.2 - Li *et al.*'s Stage-based Model of Personal Informatics Systems

Figures in Chapter 3

Figure 3.1 - My Action Research Approach

Figure 3.2 - “Family Facts” — What is Data?

Figure 3.3 - Walls of Data — Sensitising Participants to the World of Commercially-held Data and GDPR

Figure 3.4 - Sentence Ranking — Bringing Support Workers and Families to a Shared Problem Space

Figure 3.5 - Family Civic Data Cards — Things to Think With

Figure 3.6 - Personal Data Examples — Making Data Relatable

Figure 3.7 - Home Interviewing: Card Sorting with a Family in Their Living Room

Figure 3.8 - Ideation Decks — Combining Random Design Ingredients to Generate New Ideas

Figure 3.9 - Group Poster Design — A Participant-designed Poster to Advertise Features of Imagined Data Interface Products

Figure 3.10 - Storyboarding Cards — A Collaboratively-constructed Narrative Created through Discussion from a Palette of Possible Parent and Staff Actions

Figure 3.11 - Thematic Analysis of Qualitative Data using Quirkos for Case Study One

Figure 3.12 - Spreadsheet-based Quantitative Analysis of Interview Data for Case Study Two

Figure 3.13 - Pilot Study Recruitment Poster

Figure 3.14 - How the Case Studies and Peripheral Activities Contribute to This Thesis

Figures in Chapter 4

Figure 4.1 - Participants’ Shared Values Deduced from Sentence Rankings Data

Figure 4.2 - Current Model of Data Interaction, and Proposed Model of Shared Data Interaction

Figures in Chapter 5

Figure 5.1 - A Journey Map of Each Participant’s Study Progression

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 - Sankey Overview of Participants’ GDPR Requests

Figure 5.4 - Longitudinal Distribution of Net Changes in Participants' Perceived Power and Trust Scores

Figure 5.6 - Participants' Perceived Trust in Provider at Different Stages of the GDPR/Study Process

Figures in Chapter 7

Figure 7.1 - The Two Motivations for HDR: Controlling Your Personal Data Ecosystem and Utilising Your Information About Your Life

Figure 7.2 - Mapping the Six Wants into Objectives for the HDR Opportunity Landscape

Figure 7.3 - Obstacles and Resulting Insights in the HDR Opportunity Landscape

Figure 7.4 - Life Concept Modelling

Figure 7.5 - Mock-up of a Unified TV Viewing History Interface

Figure 7.6 - SubsCrab: An Example Application for Ecosystem Detection and Visualisation

Figure 7.7 - Some of the Many Aspects of Metadata that Might Exist About a Datapoint or Dataset

Figure 7.8 - The Panopticon Structure of the Illinois State Penitentiary

Figure 7.9 - Human Values, as Identified in BBC R&D Research Funded by Nesta

Figure 7.10 - A Contact-and-Calendar-centric PDS Approach

Figure 7.11 - The Scattered Data Relating to a Vacation

Figure 7.12 - Mock-up of a Unified Interface for a Vacation

Figure 7.13 - Annotating Data with Semantic Context

Figure 7.14 - Theory of Change [ToC]: The Four Dimensions of Change

Figure 7.15 - HDR Approach 1: Discovery-Driven Activism

Figure 7.16 - HDR Approach 2: Building the Human-centric Future

Figure 7.17 - Conceptual Model for a Personal Data Store System

Figure 7.18 - High Level Data Types

Figure 7.19 - Life Information Modelled as Happenings

Figure 7.20 - A Simple PDS Life Information Presentation Model

Figure 7.21 - Mock-up of Life Information Presented in a PDS Interface

Figure 7.22 - Life Partitioning Analogy using a Cluedo™ board

Figure 7.23 - Mock-up: Browsing by Areas of Life

Figure 7.24 - Identifying Entity Associations in Data

Figure 7.25 - Facebook's World2vec Model, Semantically Modelling Human Information from Social Media Posts on Facebook

Figure 7.26 - Identifying the Attributes of Data

Figure 7.27 - Determining the Nature of a Piece of Data

Figure 7.28 - Attributes of Data

Figure 7.29 - Actions One Might Perform on Life Information

Figure 7.30 - Questions One Might Ask of Life Information

Figure 7.31 - Example Taxonomies for Life Information Navigation

Figure 7.32 - HDR Approach 3: Defending User Autonomy and Hacking the Information Landscape

Figure 7.33 - The Modern 'Black Box' View of Technology

Figure 7.34 - HDR Approach 4: Winning Hearts and Minds: Teaching, Championing and Selling the Vision

Figure 7.35 - SILVER Health Data Viewing Interface

Figure 7.36 - Summary of Generalised Change Strategies for Pursuing Better HDR, Using the ToC Model

Figures 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 - Screenshot from Quirkos During Coding Process

Figure ARI.x - Screenshot from Quirkos at End of Coding Process

Figure ARI.c - Screenshot from Workflowy During Theme Construction

Figure ARI.x - Private Data Viewing Monitor with Viewing Glasses

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