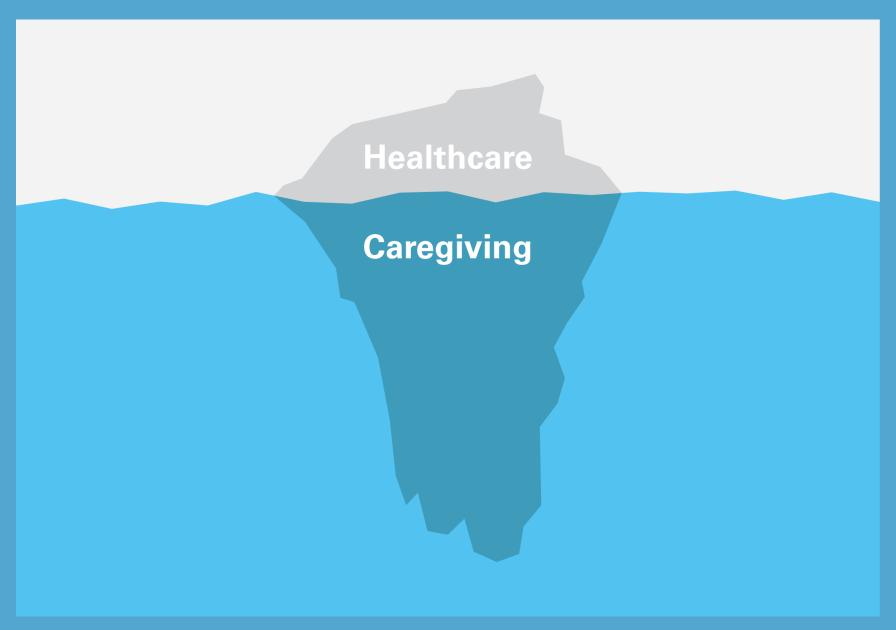


Rajiv Mehta
Current and Future Challenges in Caregiving, Concordia University, Montreal
10 November 2016



We can't value what we don't see
We don't improve what we can't value







How many American adult caregivers?

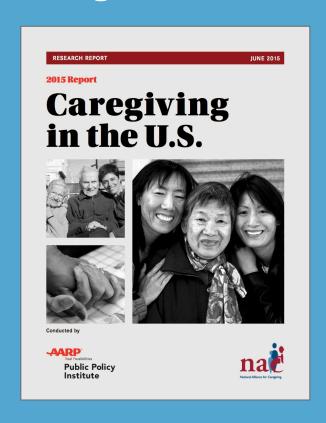
Caregiving in the U.S. 2009

Caregiving in the U.S. 2009

National Alliance for Caregiving in collaboration with AARP

November 2009
Funded by MetLife Foundation





65.7 million

~100 million

43.5 million



What is the lived reality of day-to-day family caregiving?





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Ethnography
Self-tracking
  Sensors
Data analytics
Visualization
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Atlas of Caregiving 2015 Pilot Study

Overview



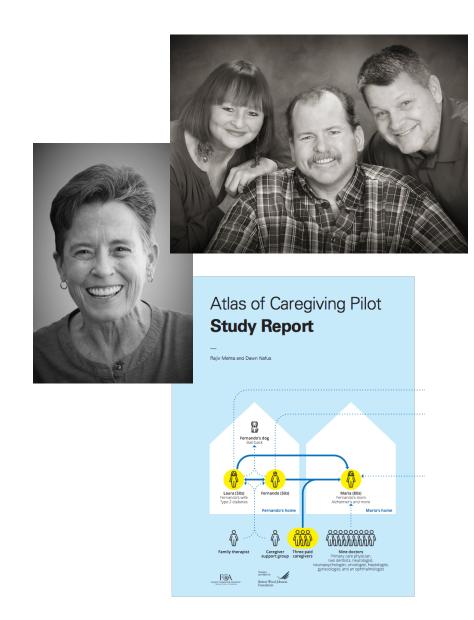
14 families, diversity of care situations and conditions

Data collected for ~30 hours using multiple methods

New visualizations developed

Insights into family caregiving & implications for advocates and supporters

Results published April 2015



Collaborators



Caregiving

- Family Caregiver Alliance
- United Hospital Fund
- Caring Across Generations
- ReACT

Technology

- Intel Labs
- Empatica
- Narrative
- Quantified Self Labs
- Sapient

Healthcare

- Cincinnati Children's Hospital
- Cystic Fibrosis Foundation
- Dartmouth Medical School
- Health 2.0
- Mount Sinai Health System
- SmartPatients

Design

Dubberly Design Office

Data Collection



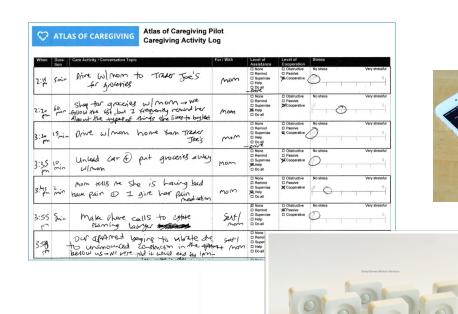
Interviews

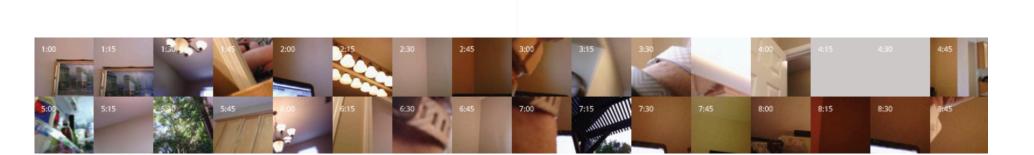
Activity Logs

Clip camera

Wearable sensors

Environmental monitors

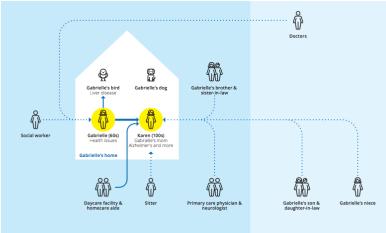


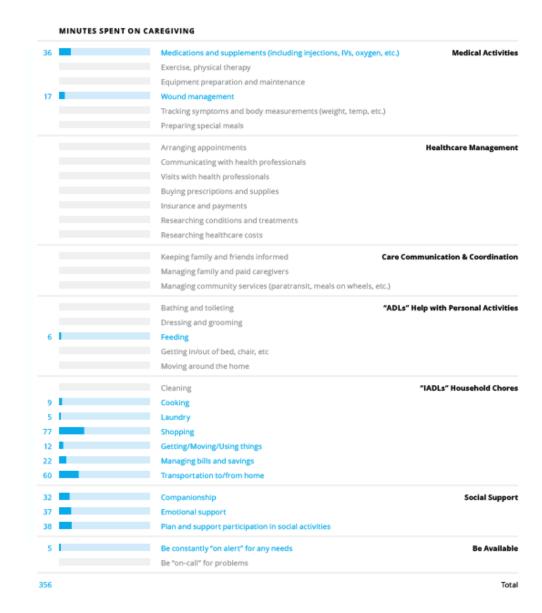


Visualizations



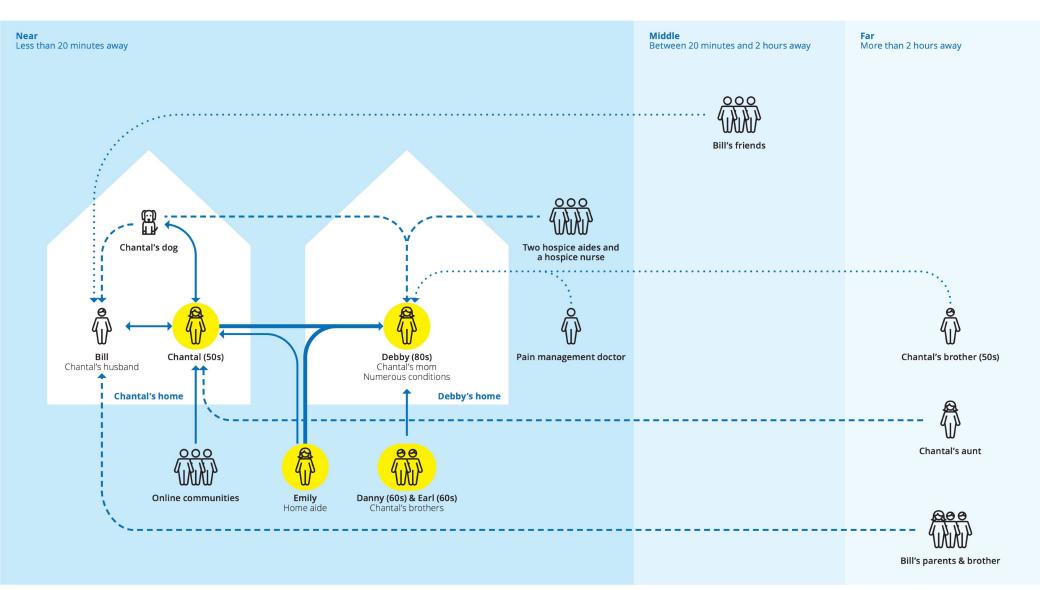






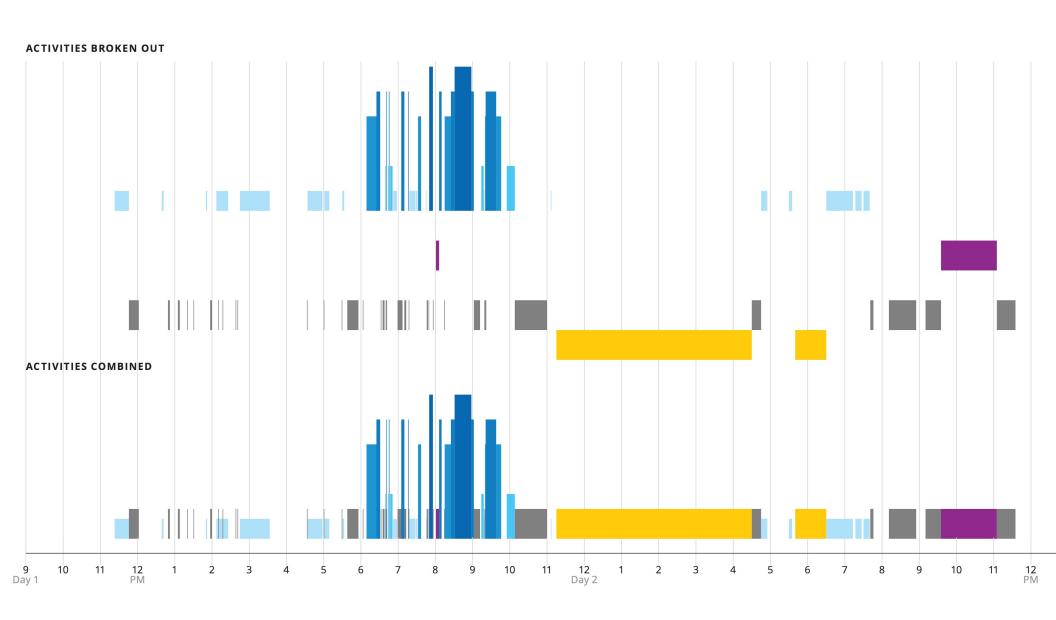
Care Map | Chantal





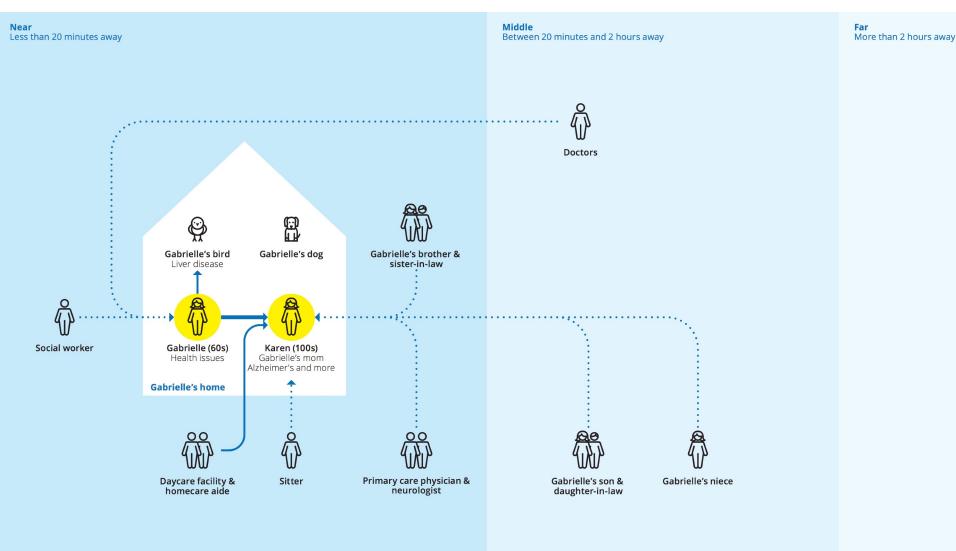
Activities | Chantal





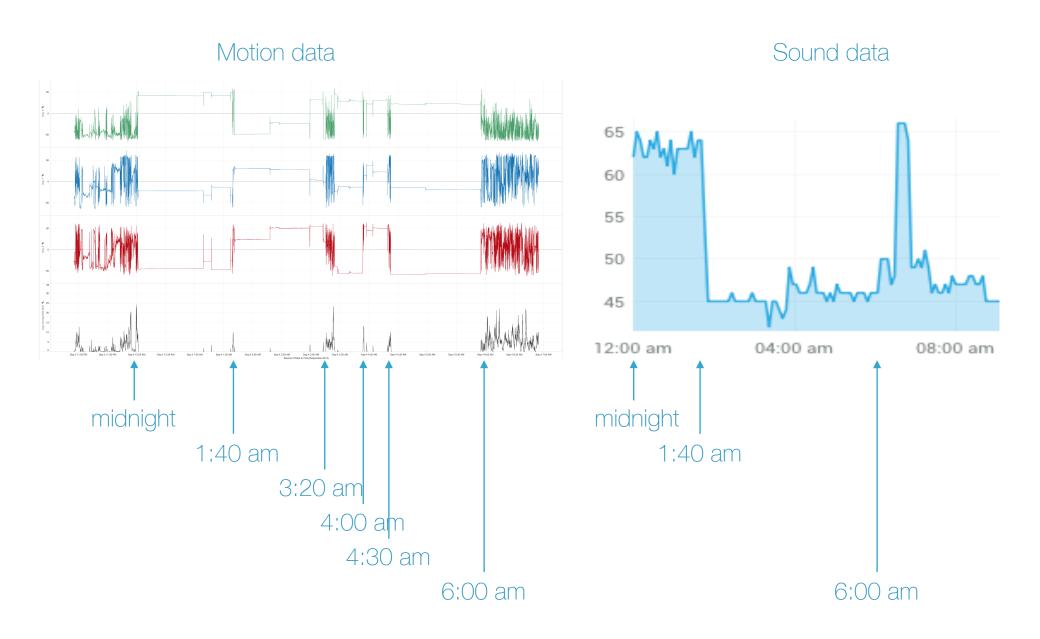
Care Map | Gabrielle





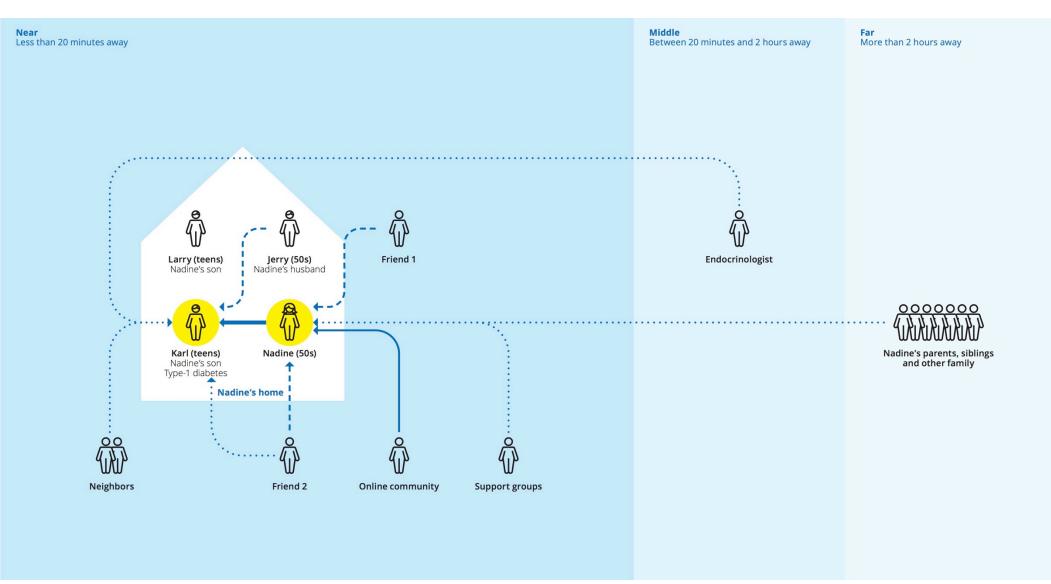
Motion & Sound | Gabrielle





Care Map | Nadine

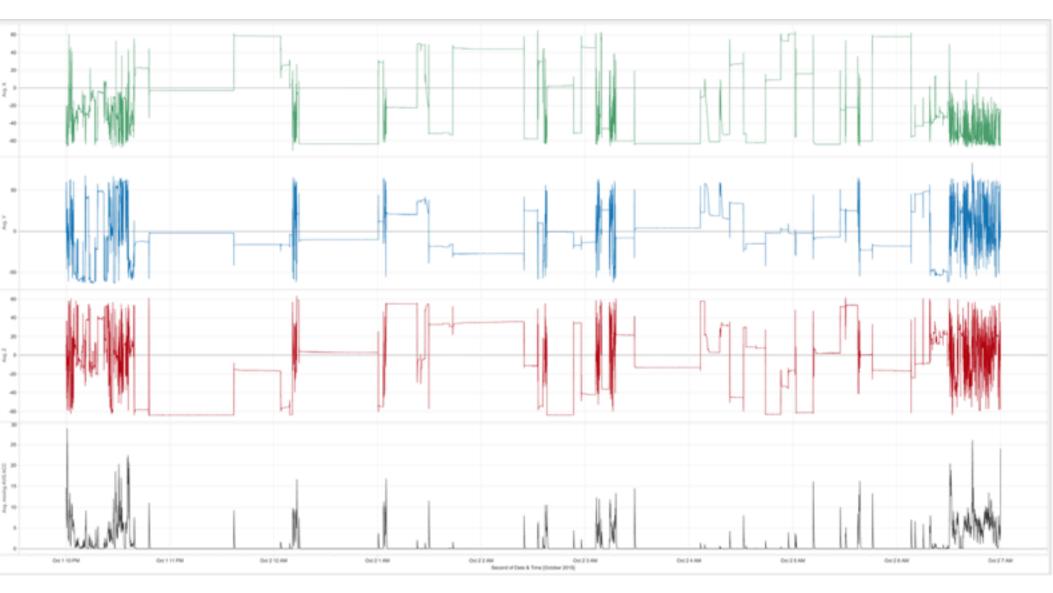




Motion | Nadine

12:15



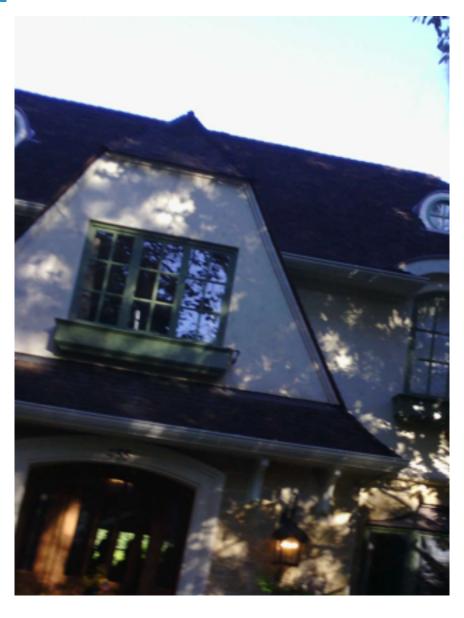


2:30 3:10 3:20

6:30

Images | Nadine





Assist caregivers in developing self-knowledge



Participation increased self-knowledge, leading to direct benefits

- Led to "what if ...?"
- Better self-efficacy
- Better self-advocacy

Incomplete self-awareness is a problem worth addressing

- More complete / accurate information to professional providers
- Improved ability to recognize potentially useful products and services

Healthcare and social services organizations can encourage and assist improved patient/family self-discovery

Understanding complexity and variation in caregiving critical to good support



Even "light caregiving" can significantly impact productivity

Complex care makes respite both necessary and difficult

Defining the caregiving experience by disease / condition / age is myopic

- Very different needs though same health conditions
- Common needs though seemingly very different contexts
- Need better ways to define common-need sub-groups

Support must be personalized for each care ecosystem



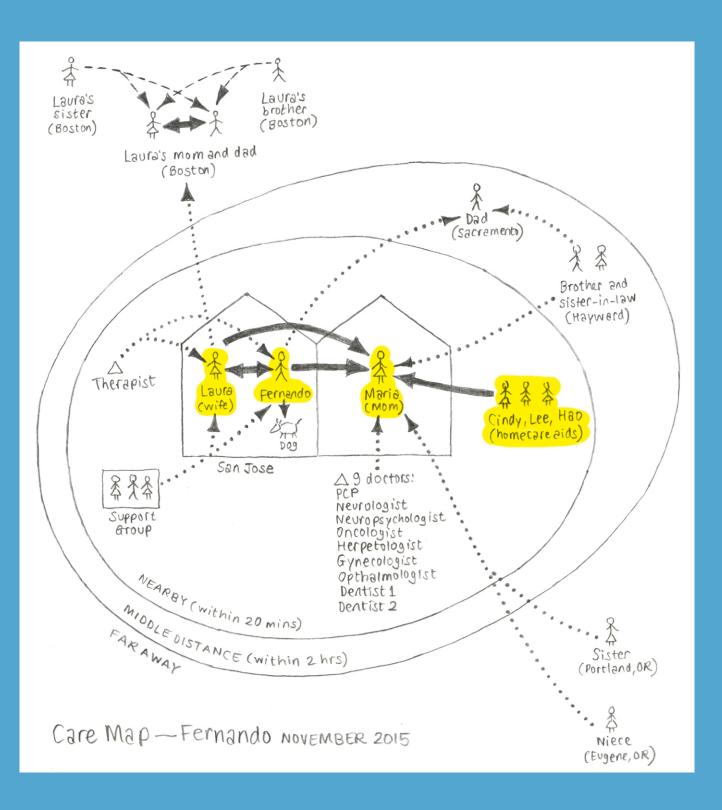
Dyad of "caregiver" and "care-recipient" too simplistic

- Multiple caregivers and multiple care-recipients
- People can be caregivers and care-recipients simultaneously
- Involvement and importance of specific caregivers can vary by topic and timing
- ... complex, living networks

Seemingly simple requests of "primary family caregiver" may involve unexpected network dynamics, making difficult situation much more difficult

Multiple family members may benefit from education and training

Knowledge and authority may be dispersed



















Community-based Action-Research

Pioneering research, combining ethnography and technology, in close collaboration with communities



Community-based Action-Research

Practical Tools

Pioneering research, combining Core Research ethnography and technology, in close collaboration with communities

Developing practical tools

Practical for for self-discovery and community awareness



Thank You!

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