

# AGING IN PLACE

2022 DATATHON

KICKOFF



We will start at **6:05pm** to allow everyone to join

**Live-tweet:** @RLadiesPhilly, @DataPhilly, @ElderNet1976 **Q&A:** [www.sli.do](http://www.sli.do) #596690

# 2022 Datathon Kickoff - Agenda

- 6:05 - 6:15 Intro & Announcements
- 6:15 - 6:45 ElderNet: Why this work matters
- 6:45 - 6:55 Q&A with ElderNet
- 6:55 - 7:00 Break
- 7:00 - 7:30 Logistics & Data Overview, Q&A
- 7:30 - 8:00 Breakout into rooms, work kickoff



**Worldwide** organization that promotes **gender diversity** in the **R community** via **meetups** and **mentorship** in a **friendly** and **safe** environment



**Local** group of **data** professionals and enthusiasts who **learn** about the latest technologies and models in **data science** via speaker events, workshops, and networking.

# Announcements



- We are recording this meetup!

## RLadies:

- Mentor/Speaker directory: [rladiesphilly.shinyapps.io/mentorship/](https://rladiesphilly.shinyapps.io/mentorship/)
- Our Youtube channel: [youtube.com/c/RLadiesPhilly](https://youtube.com/c/RLadiesPhilly)
- Slack: [tiny.cc/rladies-phl-slack](https://tiny.cc/rladies-phl-slack)
- Upcoming R-Ladies Philly events: [meetup.com/rladies-philly/](https://meetup.com/rladies-philly/)
  - ▶ Looking for speakers (April)
  - ▶ Lightning talks ([sign-up](#))

## DataPhilly:

- Past speakers and talks: <https://dataphilly.github.io/>
- Our YouTube channel: <https://www.youtube.com/c/DataPhilly>
- Slack: [dataphilly.slack.com](https://dataphilly.slack.com)
- Upcoming DataPhilly events: <https://www.meetup.com/DataPhilly/>

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# About our datathons

- Hands-on work with real data
- Serving a good cause and making a real impact
- Every contribution is valuable
- Everyone can learn something
- We all figure it out together
- Everyone volunteers as often and as much as they are comfortable
- This is not a competition (but we are serious about delivering value to our community partner)
- We prioritize a supportive, respectful and collaborative environment

# *Elder* **NET**

OF LOWER MERION-NARBERTH



# ElderNet of Lower Merion & Narberth

## **Mission:**

ElderNet provides a safety net for older and disabled adults to help them remain in their homes, and strengthens the food and financial security for all community members in need of assistance.

## **Vision:**

Older and disabled adults will feel cared for, respected, and connected to our community. Those facing food and financial insecurity will find comfort and resources to meet their basic needs. As a result, no one will feel isolated. ElderNet will continue to be a highly regarded service provider, a place for meaningful volunteer service, and a source of dignity and hope.

# Our History

- Founded in 1976
- Expansion in 1985
- 2nd Expansion 2009
- Present Day





# Volunteer Services



## VOLUNTEER OPPORTUNITIES

- Escort Driver
- Odd Jobs
- Friendly Visitor/Friendly Caller

# Care Management

- Support
- Information
- Referrals
- Guidance



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# Community Resource Center and Food Pantry



- Choice Food Pantry
- Care Coordinator
- Ask A Nurse Program
- Emergency Financial Assistance

# ElderNet's History with Data

- Number of People Served
- Number of Volunteers
- Volunteer Hours
- Food Distributed
- Financial Assistance  
Provided



# Why DATATHON?

## Why Now?

- We Are Changing
- We Are Growing
- We Are Evolving
- But We Are Missing an Important Piece

What I Am Hoping For



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# Audience Q&A Session

① Start presenting to display the audience questions on this slide.



## Datathon Logistics

- Datasets
- Teams
- Timeline

# Datathon Leads



- Karla Fettich (she/her)
- Sybil Andrieux (she/her)
- Mitch Maltenfort (he/him)



DATAPHILLY

- Ramaa Nathan (she/her)
- Anne Beeman (she/her)
- Chris Grannan (he/him)



# Datasets: client\_info\_anonymized.csv

Anonymized lookup table of ElderNet's clients

Variable	Values (examples)	Notes
anon_ID	531	Primary key, can be merged with other datasets (except donations)
county	Montgomery, Other	Client residence
poverty	Yes/No	Client is impoverished
minority	Yes/No	Client is in a minority group
age_group	T, D, P, G	Blinded variable for age group

# Datasets: care\_management\_anonymized.csv

Detailed, historical account of ElderNet's care management interactions between 2019/01 and 2021/09

Variable	Values (examples)	Notes
anon_ID	531	Primary key, can be merged with other datasets (except donations)
Assistance Date	2019-01-04 10:35:00	Date and time of assistance
Assistance Category	Social Work: Community	
Amount	25	Numeric value of assistance granted
Unit	Minutes	Unit of assistance provided
CommType	Call, Email, Voice Message, etc.	Communication Type
Party	Client, Family, etc.	Other person in communication
InitiatedBy	ElderNet, Other Party	Who initiated communication first
Benefit	Food, Housing, Medical, etc.	Type of benefit addressed in interaction
Assistance	Coordination, Information, etc.	Type of assistance provided in interaction

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# Datasets: pantry\_anonymized.csv

Detailed, historical account of ElderNet's food pantry interactions between 2019/01 and 2021/09

Variable	Values (examples)	Notes
anon_ID	531	Primary key, can be merged with other datasets (except donations)
Assistance Date	2019-01-04 10:35:00	Date and time of assistance
Assistance Category	Food Pantry Poundage, etc.	
Amount	25	Numeric value of assistance granted
Unit	Boxes/Bags, Dollars, Pounds	Unit of assistance provided

# Datasets: volunteer\_services\_anonymized.csv

Detailed, historical account of ElderNet's volunteer services (rides involving clients) between 2019/01 and 2021/09

Variable	Values (examples)	Notes
anon_ID	531	Primary key, can be merged with other datasets (except donations)
rider_last_ride_date	01/25/2021	Date of latest ride received
rider_first_ride_date	05/26/2015	Date of first ride received
rider_num_rides	0	Total number of rides taken
appt_date	09/20/2021	Date of ride
appt_duration	2.50	Number of hours during ride rounded to nearest 15 minute duration
Category	Doctor Appt, etc	Reason for ride

# Datasets: donations\_anonymized.csv

Details about donations to Eldernet

Variable	Values (examples)	Notes
anon_donor_id	92	Unique donor identifier
zip	19072	
status	Active	
do_not_mail	0/1	donor does not want to be contacted by mail
do_not_call	0/1	donor does not want to be contacted by phone
organisation	TRUE/FALSE	Flag indicating if donor is an organization or not
date	MM/DD/YYYY	Date of donation
amount	150	Amount donated in dollars
form	Cash, Check, InKind	Type of donation
campaign	Clients, United Way, etc	Campaign Type

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# Teams

Team 1:  
ElderNet's impact in the community

- How has ElderNet helped clients remain in their home longer?
- How well is ElderNet connecting participants to the public benefits they need?

Team 2:  
Decision-making insights dashboard

- Develop an interactive dashboard that will help ElderNet leadership make better informed decisions (e.g. volume of work, population served, assistance provided, donations, volunteer time, etc.)

Team 3:  
Growth opportunities & other analyses

- What things should ElderNet focus on in the future? What are ElderNet's growth trends?
- Any other analyses that would be interesting for ElderNet to know about

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# Audience Q&A Session

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# Timeline

Questions to datathon leads/other participants: #datathon2022

There will be informal zoom calls throughout the datathon - stay tuned on slack!

Questions for ElderNet: [Google doc](#)



	Week of	To Do
1	2/16/2022	Set up a plan of action
2	2/21/2022	Run descriptives to get to know the datasets and use RMarkdown/Jupyter to document your observations (this also gets you started on the report early!)
3	2/28/2022	Wrap up data cleaning; explore data in more depth, documenting your process and observations; decide with your team on the story you want to tell with your findings
4	3/7/2022	Run analyses towards your data story and write up the conclusions and observations as you go along; for data viz, develop a dashboard with your story in mind
5	3/14/2022	Draft a combined RMarkdown/Jupyter report that brings together your team's most interesting findings and tells your data story; refine your analyses/dashboard
6	3/21/2022	Polish your report/dashboard, create slide deck for presentation
7	3/30/2022	Present results to ElderNet & Other Participants; incorporate any feedback from the presentation, and submit your final report



We are here

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Make sure you have  
Zoom v. 5.3 or  
higher!



# Breakout Rooms

Group checklist:

[https://github.com/rladiesPHL/2022\\_datathon/blob/main/administrative/group\\_checklist.md](https://github.com/rladiesPHL/2022_datathon/blob/main/administrative/group_checklist.md)