### What is ACCORDS?

Adult and Child Center for Outcomes Research and Delivery Science

#### ACCORDS is a 'one-stop shop' for pragmatic research:

- A multi-disciplinary, collaborative research environment to catalyze innovative and impactful research
- Strong methodological cores and programs, led by national experts
- Consultations & team-building for grant proposals
- Mentorship, training & support for junior faculty
- Extensive educational offerings, both locally and nationally





### **ACCORDS Upcoming Events**

January 23, 2023	Methods and Challenges in Conducting Health Equity Research Racism as a Multilevel Construct and Linkages to Lifespan Health
Ed 2 North 1103	Presented by: Danielle Beatty Moody, PhD (UMBC)
January 25, 2023	ACCORDS/CCTSI Community Engagement Forum
	Understanding and Appreciating the Capacities of the Community:
*Virtual	Pathways to Sustainability and Community Empowerment
February 1, 2023	Hot Topics in Mixed Methods and Qualitative Research
	Applying Conversation Analysis to Healthcare Interaction
Ed 2 North 1107	Presented by: Jeffrey Robinson, PhD (Portland State University)
February 13, 2023	Methods and Challenges in Conducting Health Equity Research
	"Nothing About Us Without Us": Meaningful Engagement of Tribal Communities in Research
*Virtual	Presented by: Spero Manson, PhD
June 5-6, 2023	COPRH Con 2023
10:00 -3:00 PM MT	Reassessing the Evidence: What is Needed for Real World Research and Practice

\*all times 12-1pm MT unless otherwise noted





#### Hot Topics in Mixed Methods and Qualitative Research 2023 Seminar Mini-Series

Network Science Methods Applied to Health, Public Health, and Social Service Systems



Presented by: Danielle Varda, PhD





# Network Science Methods Applied to Health, Public Health, and Social Service Systems

#### **Visible**NetworkLabs

Danielle Varda, PhD CEO/Founder at Visible Network Labs Associate Professor, University of CO Denver, School of Public Affairs

### Agenda

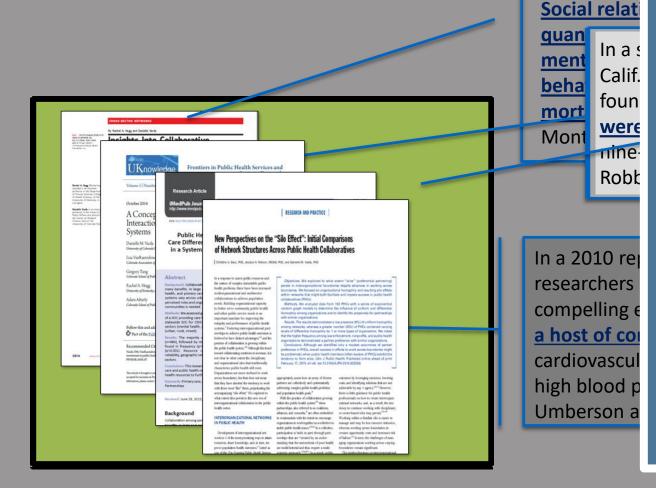
A. Problem We Are Solving:

- Social Connectedness as a SDOH

B. Network Science as a Unique Lens/Exercise

C. Mixed Methods Examples

# There is Ample Evidence That the Quality of Social Connections Influence Health Outcomes



What we know: Social connections influence mental/behavioral and health outcomes.

What We Don't Know: *How to translate that knowledge into better care coordination and treatments for people.* 

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### Social Connectedness: Impact on Health

"Socially isolated women with breast cancer have a 40% higher risk of recurrence, a
60% higher risk of dying from breast cancer, and a 70% higher risk of dying from any cause when compared with socially integrated women."

Kroenke CH, Michael YL, Shu XO, et al. Post-diagnosis social networks, and lifestyle and treatment factors in the After Breast Cancer Pooling Project [published online ahead of print December 12, 2016]. Cancer



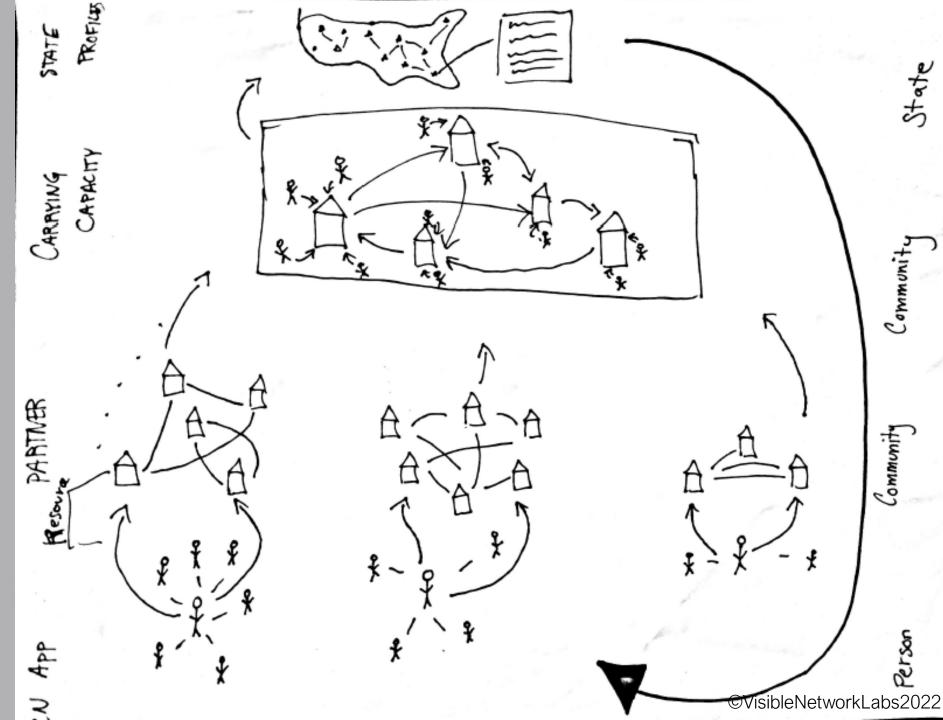
## Visible Network Labs

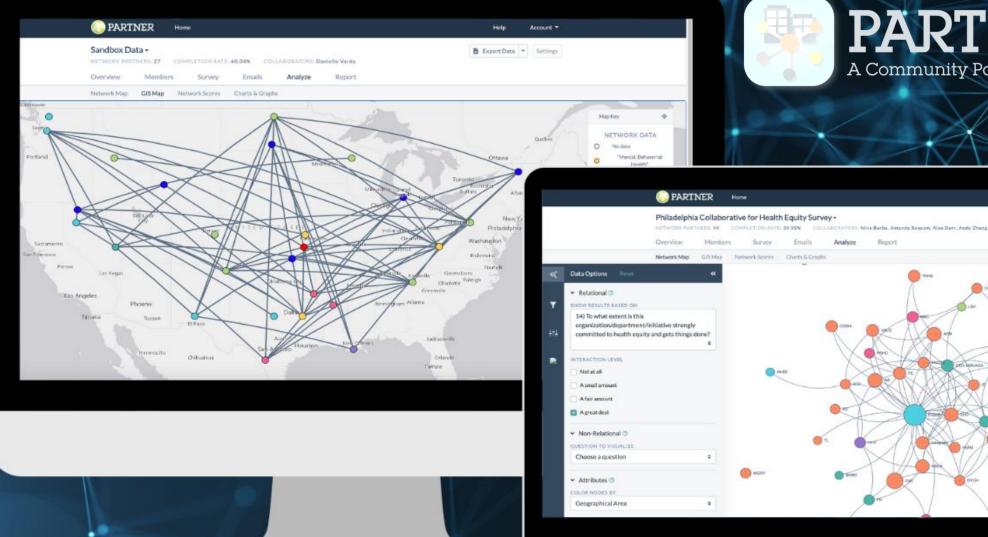
www.visiblenetworklabs.com

# Visible Network Labs

# Make Invisible Networks Visible

Network Science as a Unique Lens on Social Connectedness





#### **PARTNER**CPR A Community Partner Relationship Manc

Help

B Export Data \* Settings

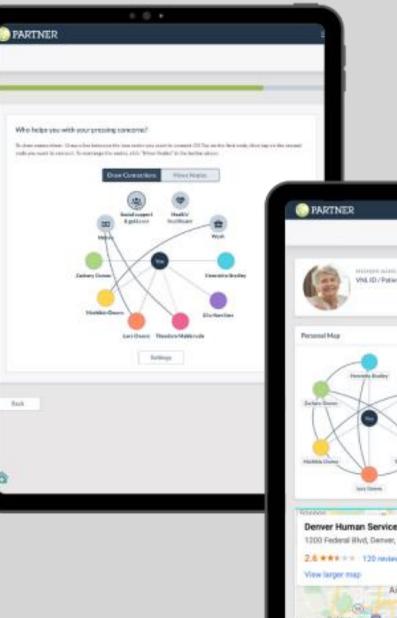
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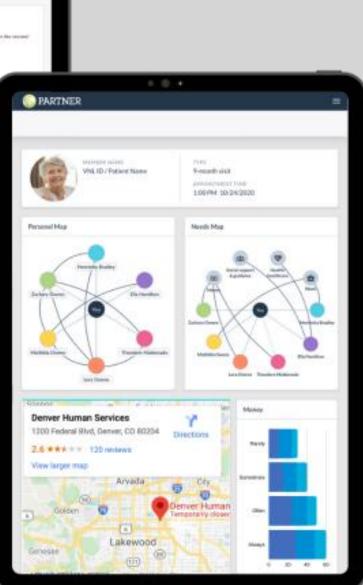
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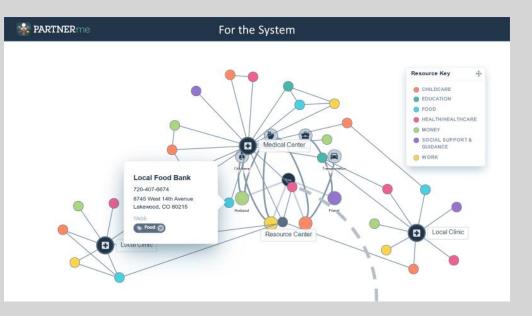






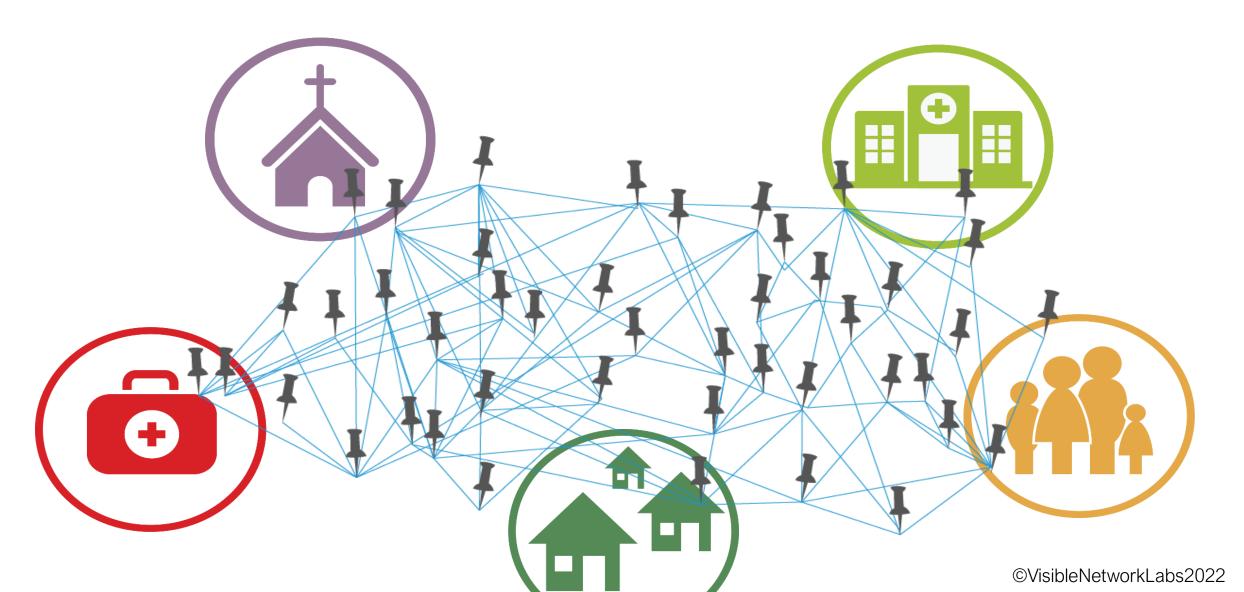
#### Social Care Platform Screener to Link People to Resources

#### www.visiblenetworklabs.com/partnerme

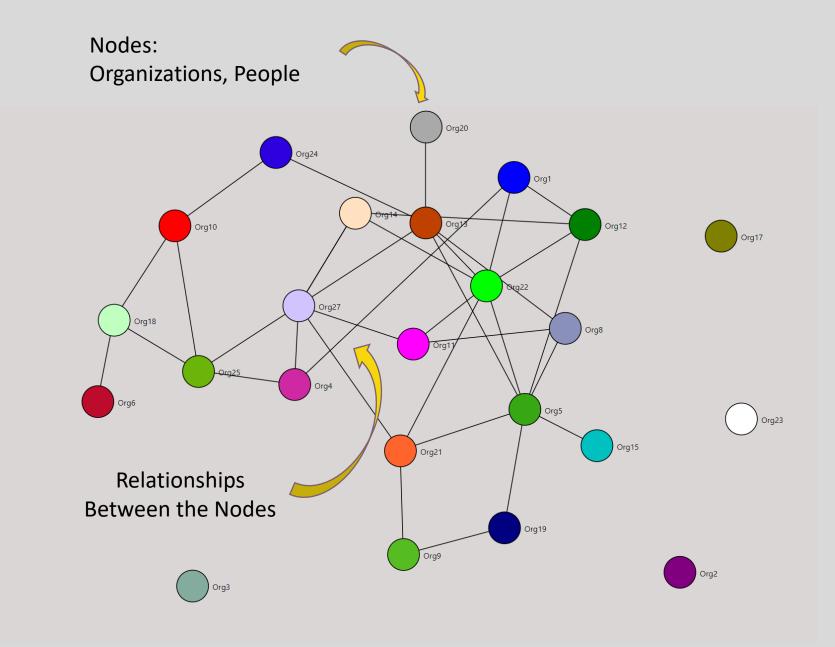


## Network Science as a Unique Lens

### The New Norm: The Network Way of Working



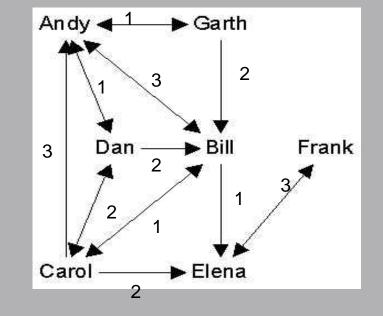
# What Are Networks?



# **Social Network Analysis**

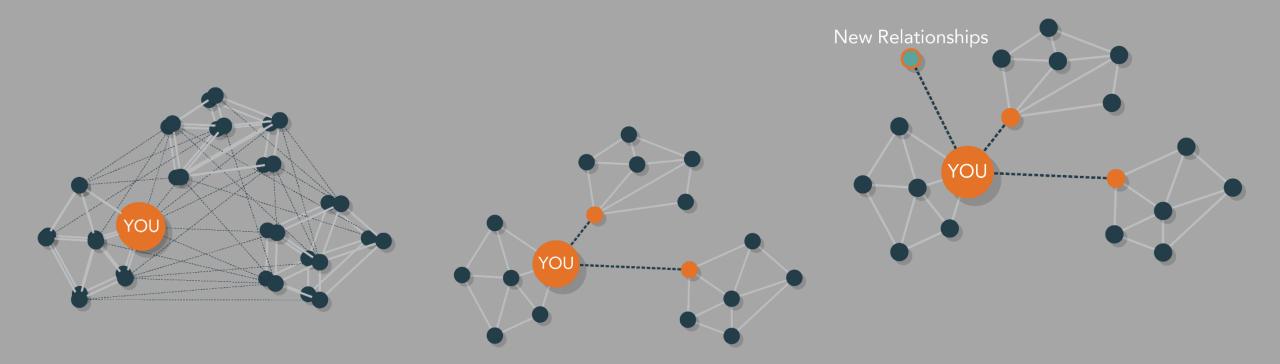
- Collects data on who is connected to whom
- •How those connections vary and change
- •Focus on patterns of relations
- •Type, Extent, Quality of Connections

- •Nodes (People, Orgs, Etc)
- •Lines (Relationships)



## Network Science as a Unique Lens

#### Basic Network Science Principle: More is Not (Always) Better



You can manage relationships to create a network strategy, but you need data to do it.

## Main Take Aways

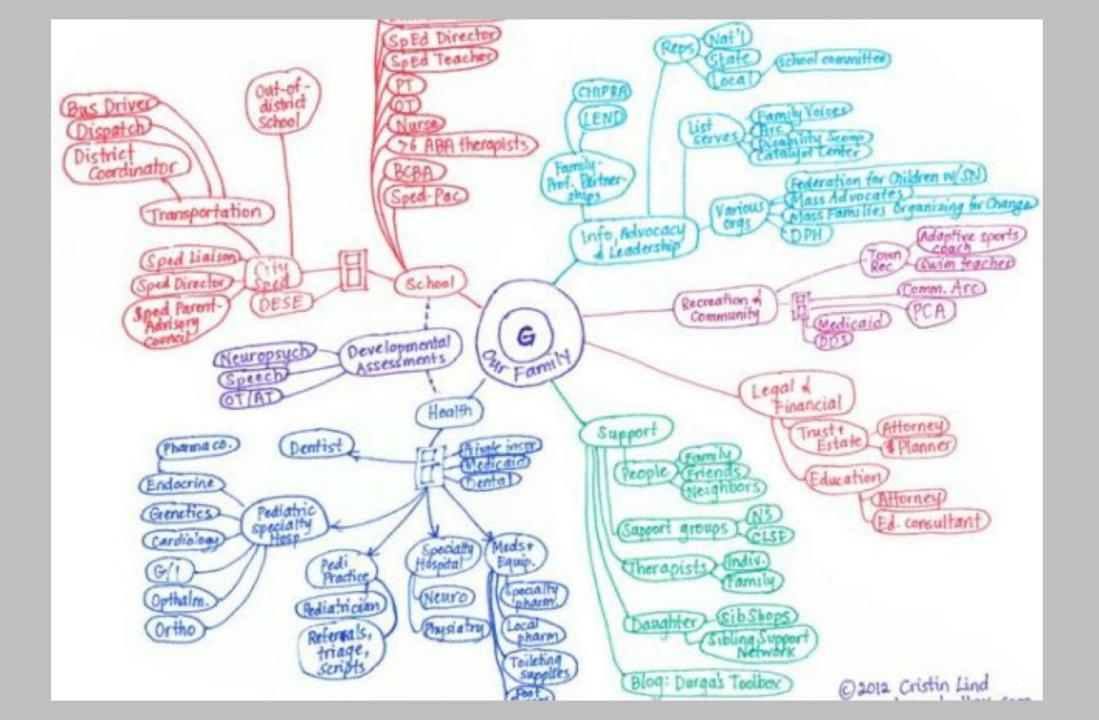
- 1. Building and managing a network doesn't have to be left to chance there is a science to help guide you.
- 2. You are already a network scientist. You use network science every day.
- 3. You can manage network relationships to develop a strategy, but you need data to do it.
- 4. More networking is not better networking.
- 5. You can identify redundancy and holes in your network, which can inform the strategy.

## Example:

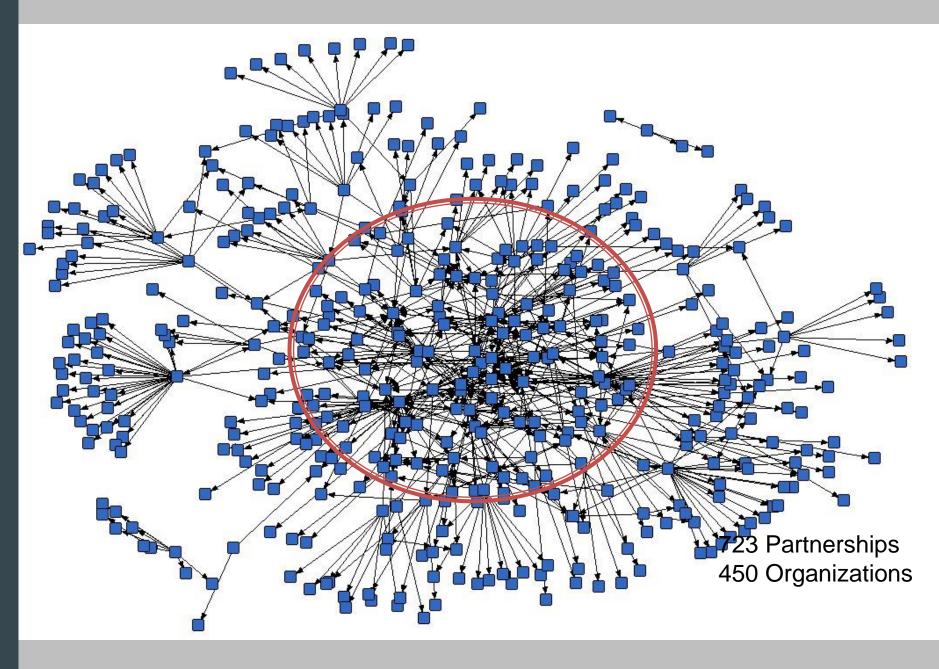
## Systems of Care for Babies and Young Children With Health and Developmental Needs



### With funding from The Colorado Trust

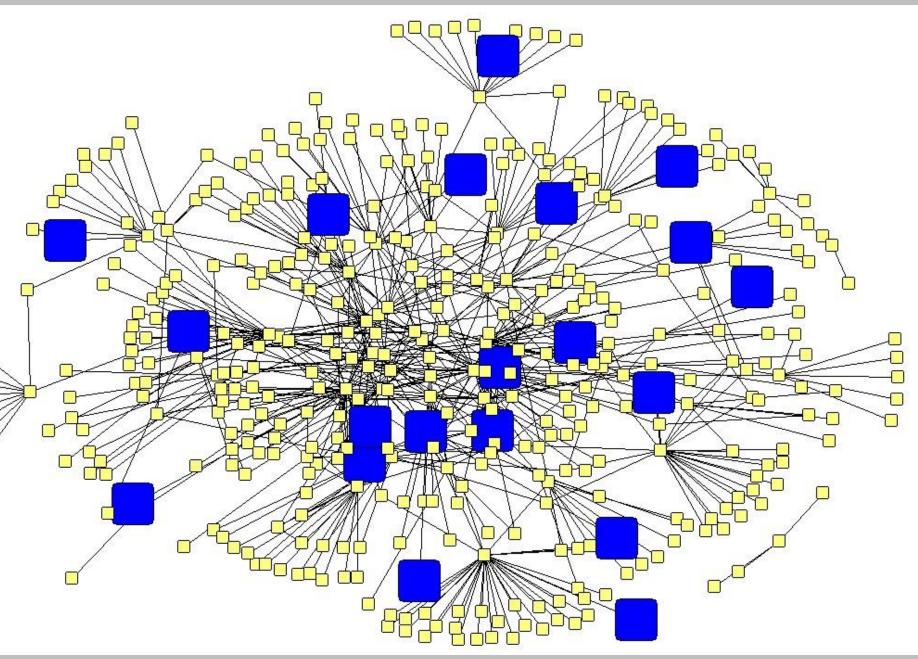


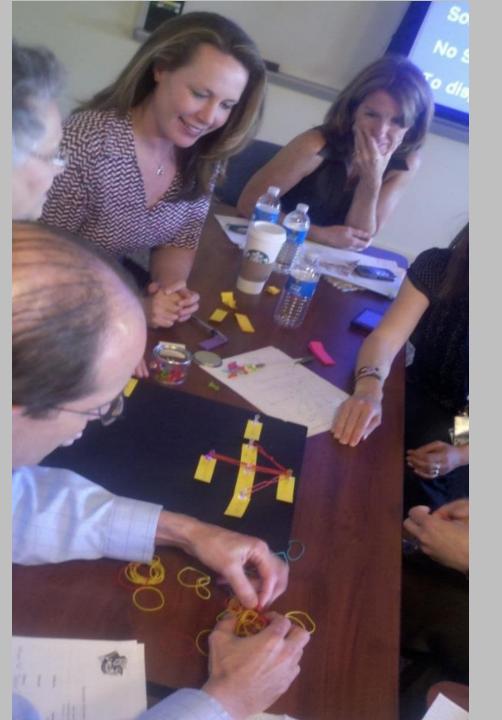
System of Care for Babies & Young Children With Special Healthcare & Developmental Needs

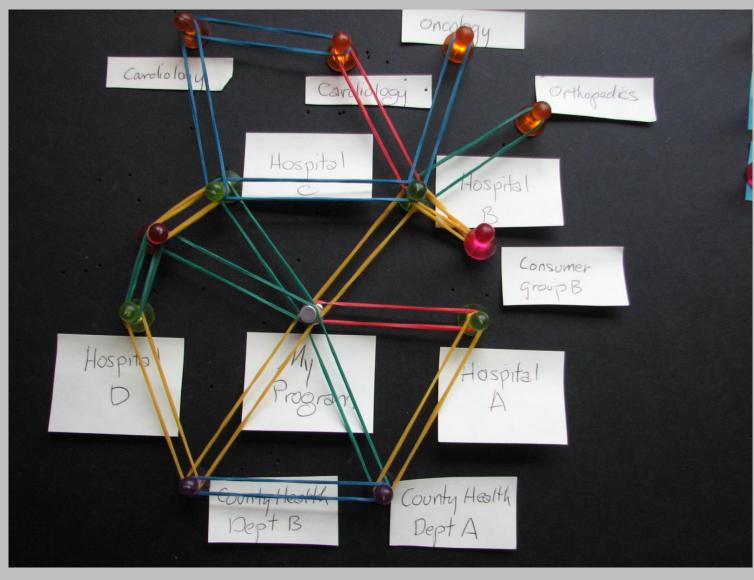


## Mental Health Agencies:

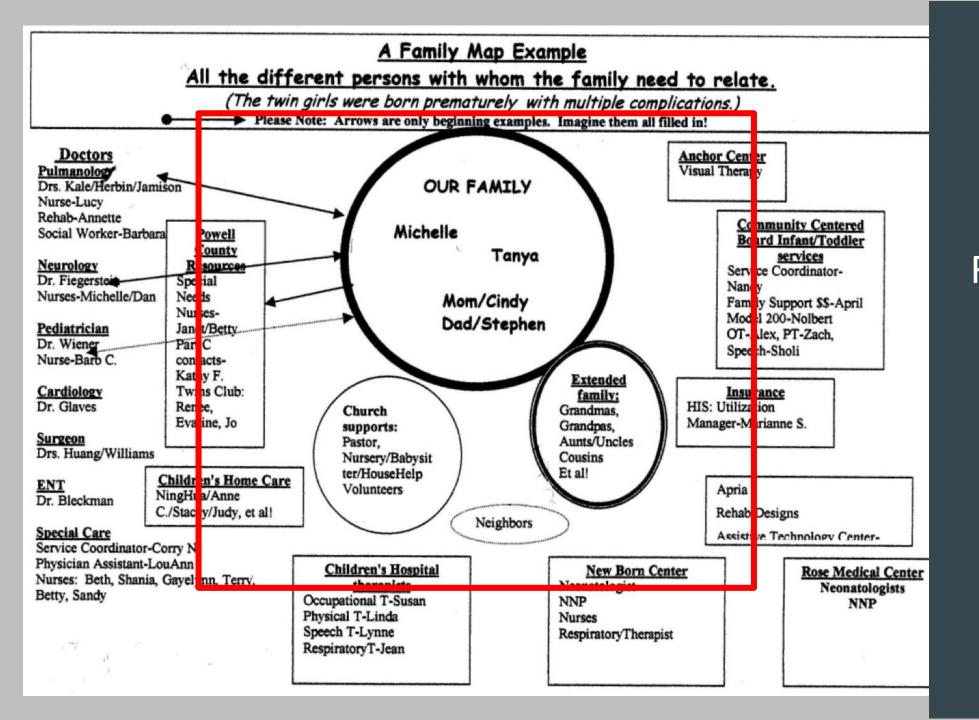
Geographically Dispersed but not Connected to Each Other







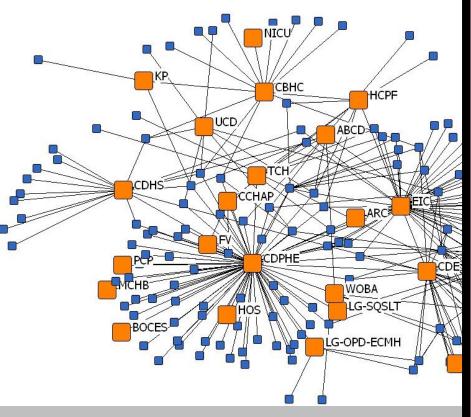




Family Blueprint Shows a Fragmented System

Slide Courtesy of Debra Paul and Ayelet Talmi

## **Systems vs. Family Networks**

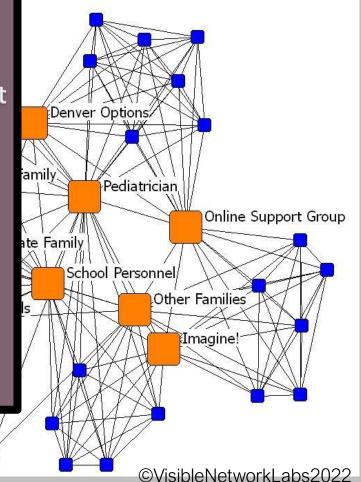


#### SYSTEM NETWORK

 1 – Families have a preference for tapping into their informal supports for help first; then they will use the system when that's not enough.

2 – People want to help themselves...they want to be resilient, not dependent or a burden.

#### MILY NETWORKS



## This is Interesting – But Can We Use This to Help People?

Question: Why do we expect people to fit into the system? Why don't we expect the system to fit

 Hypothe reflected

Outcome

personal

system i

around p

Understand personal support networks and needs Build an adaptive system to respond to variations

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# PARTNERME A Person-Centered Network Tool



# Person-Centered Network Tool





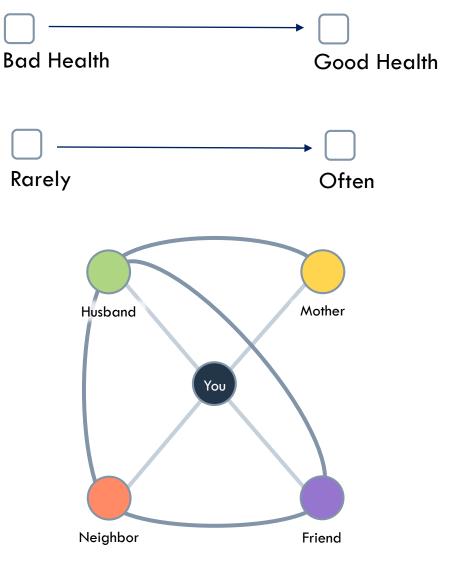
Screener

Please rate your own health?

How often do you feel lonely?

Who do you rely on when you have problems?

- To what degree do you trust this person to help you when you need it?
- To what degree do you depend on them?





#### Screener

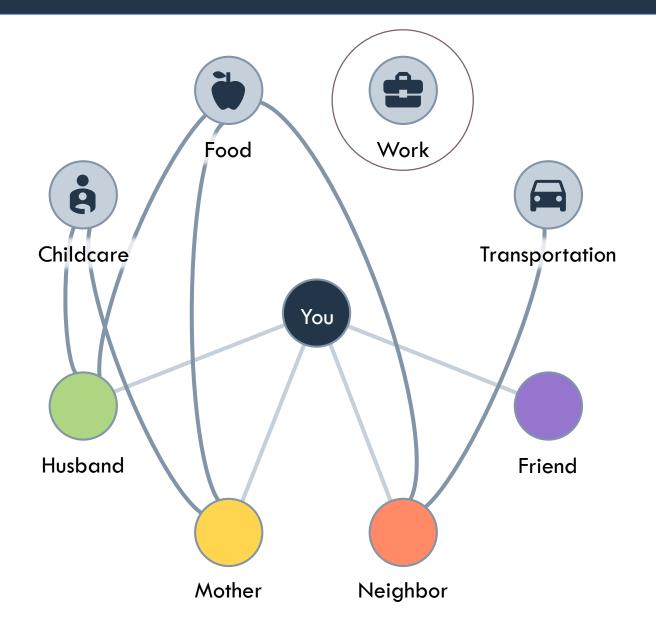
# What are your most pressing concerns?





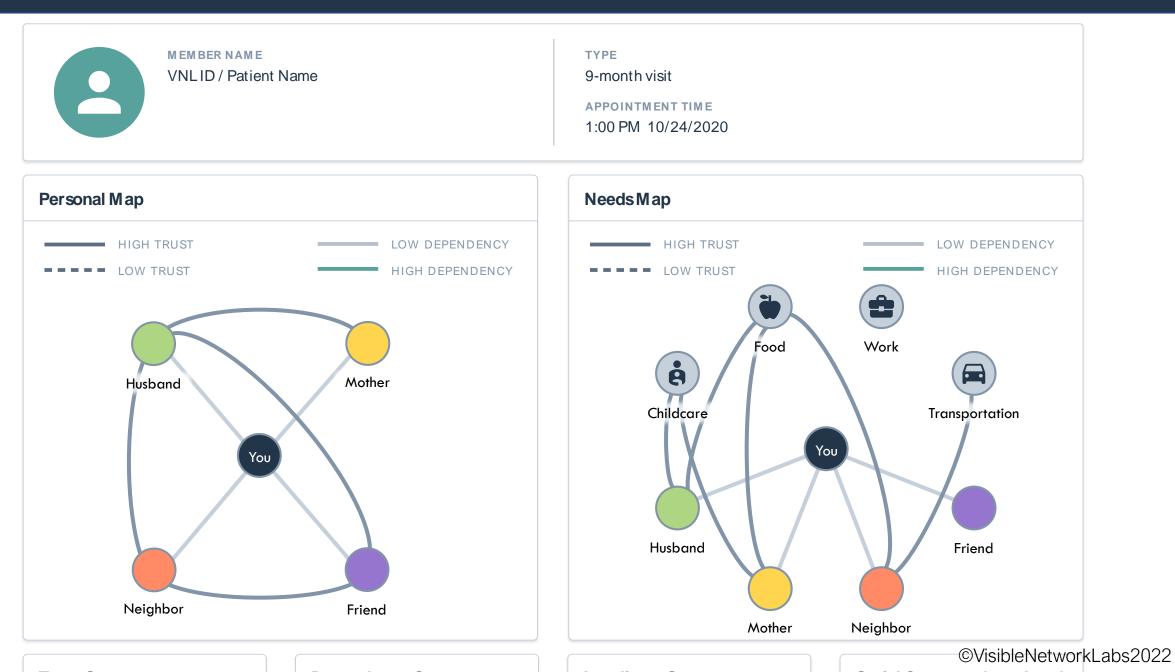
#### Screener

# Who helps you with these concerns?



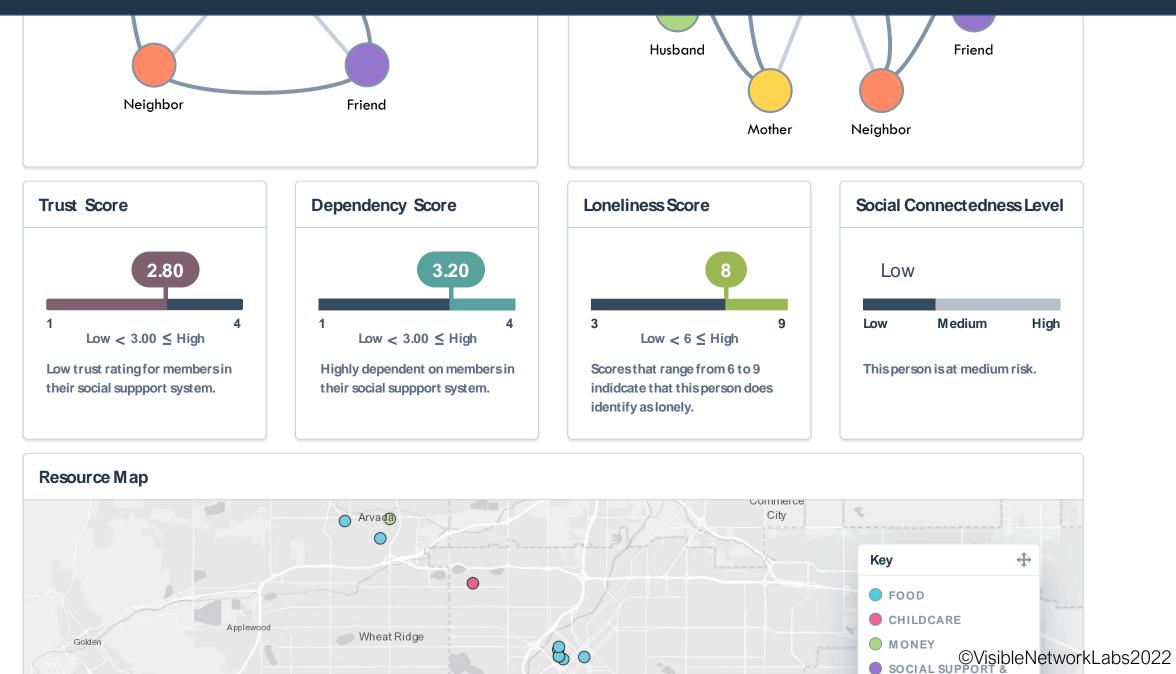


#### Social Care Plan





#### Social Care Plan





#### Social Care Plan





#### Food

# Adventist Community ServicesArrLIFT30(303) 783-3777852575 SBroadwayArvDenver, CO 80210otwww.acslift.orgForOTHER INFO

Food pantry

#### Arvada Community Food Bank 303-424-6685 8555 W. 57th Ave Arvada, CO 80002 OTHER INFO Food Assistance 12X per year

#### Aveanna

(720) 498-5045 OTHER INFO Baby formula

#### (303) 935-7389 5045 W 1st Ave Denver, CO 80219 www.bienvenidosfoodbank.org

**Bienvenidos Food Bank** 

OTHER INFO Food pantry

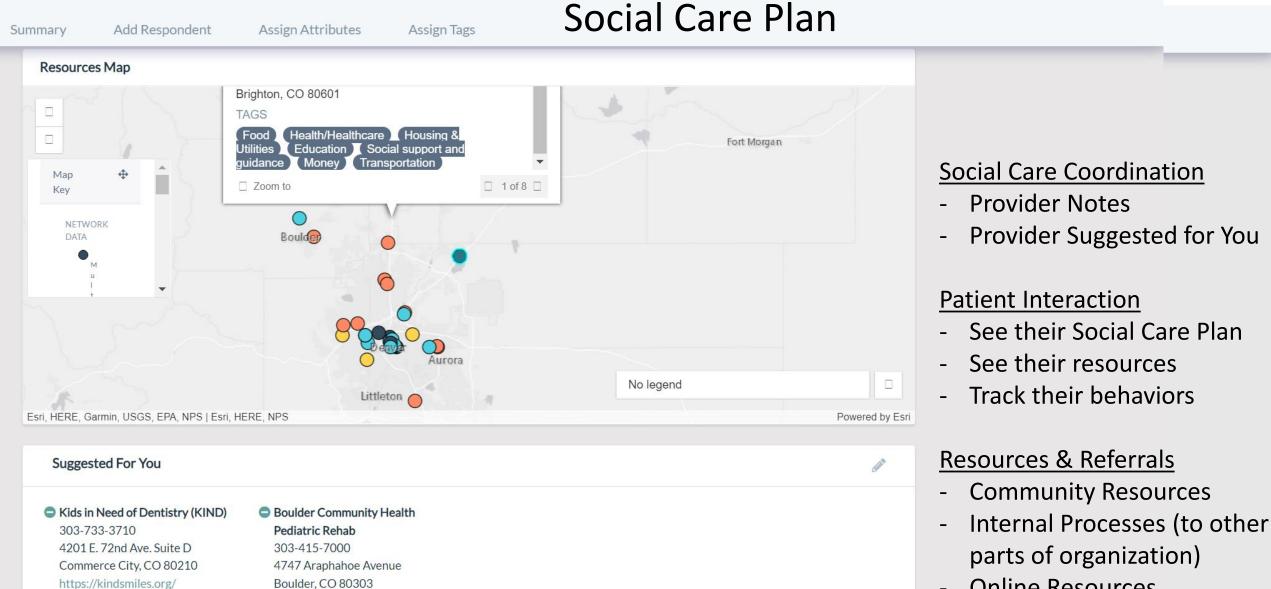
#### See More

#### A1 PARTNERme Demo | Members

https://www.bch.org/

Most major insurances and

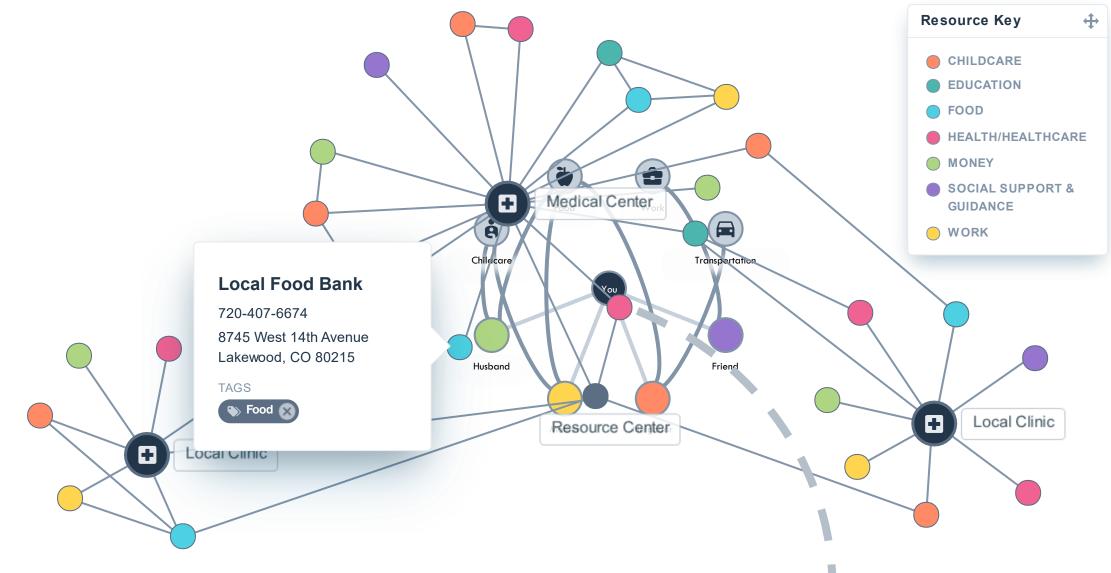
DESCRIPTION OT/ST/PT ELIGIBILITY



**Online Resources** \_

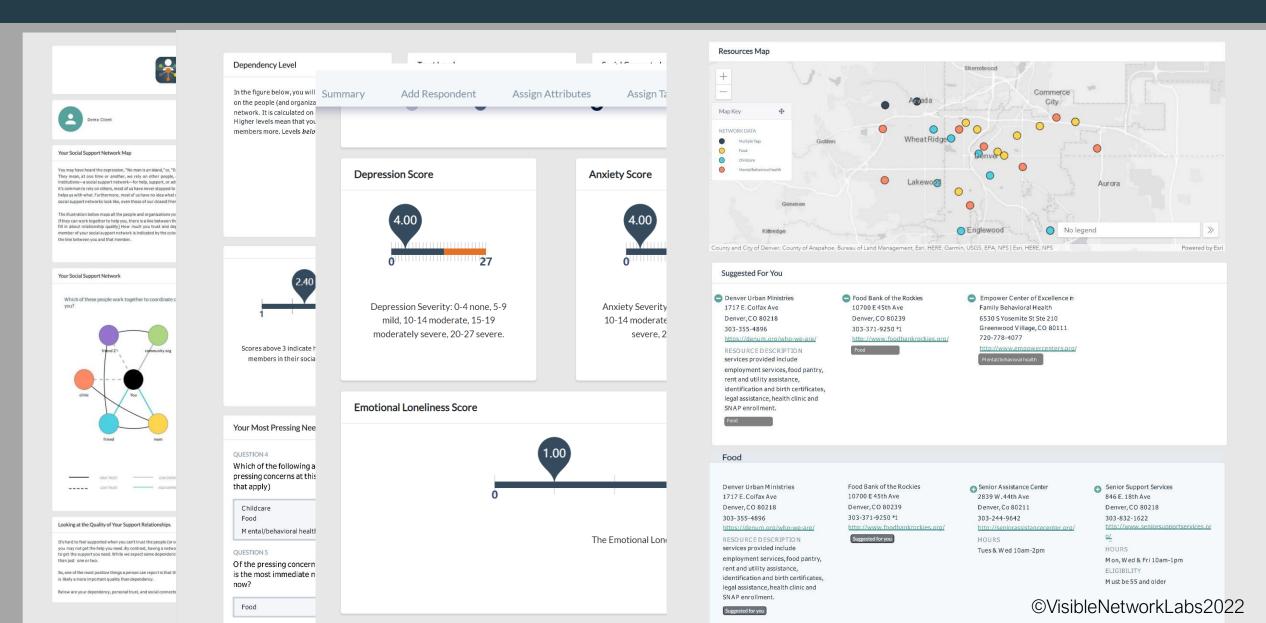


#### For the System



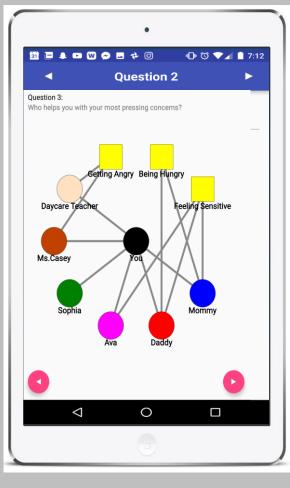


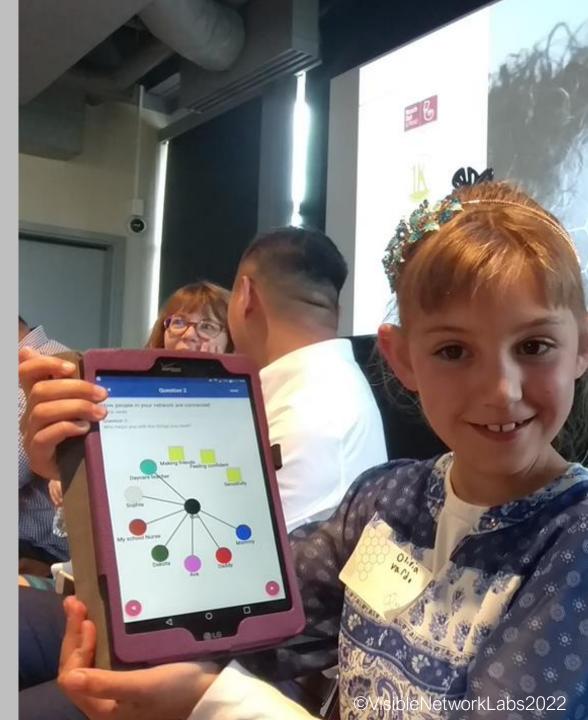
## Social Care Plan



# We are also discovering the other ways we can apply this – for kids!

uestion 2:	
Vhat are the things that you need help with?	
School Work	
Confidence	
Getting Angry	
Being Hungry	
Feeling Sensitive	
Being Bullied	
Issues at Home	
Following Rules	
Trouble Understanding Others	
Trouble Talking to Others	
Making Friends	
Talking About My Feelings	
ng Safe	







## PARTNER A Person-Centered Network Tool

An end-to-end Social Care Coordination solution to improve health and wellbeing.



#### **Visible**NetworkLabs

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## Data Considerations in Different Settings

**When in the workflow the data are collected** 

**How much time does the patient/provider have** 

Intake, At-Home, Pre-Check In

**Who sees the data and when** 

Mental health clinics/Providers: generally want to review data with their clients/patients instead of having clients/patients view data alone

Capacity to understand the data

\*Varies widely; however becomes more routine

## **Challenges and Successes**

Challenges

- Reverse the second seco
- Providers are tired and burned out reluctance to adopt new innovations
- Rectronic Health Record (EHR) integration

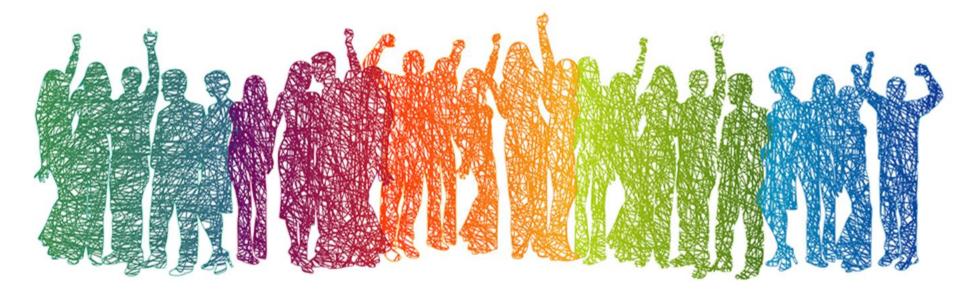
## Successes

- Replemented as a clinical screener (not a research project)
- Design thinking approach provides rapid feedback, changes, and adaptations
- Replicy and funding for Social Care Coordination increasing
- Success billing and reimbursement in clinical settings

## Example: Adolescent Youth Social Connectedness Fellowship

- Funded by the Annie E Casey Foundation -

## Adolescent Connectedness



## Youth Connectedness Is an Important Protective Factor for Health and Well-being

https://www.cdc.gov/healthyyouth/protective/youth-connectedness-important-protective-factor-for-health-well-being.htm

The Annie E. Casey Foundation develops solutions to build a brighter future for children, families and communities.

Se

#### **Visible**NetworkLabs

#### https://visiblenetworklabs.com/social-support-research-fellowship/

#### Youth Social Support Research Fellowship Resources

The Youth Social Support Research Fellowship seeks to create insights into the ways young people think about, build, and leverage support networks and relationships. By better understanding this unique perspective on social connectedness, we can build improved tools for measuring and strengthening support networks for youth. Learn more about our project, our team of fellows, and the resources we've created below.

Explore our Resources >

Meet the Fellows >

#### Fellowship Resources, Articles, & Tools

Strengthening Social Connectedness Among Young People: A Solution to the Mental Health Crisis?

This article discusses the role of social connectedness as a component of the ongoing youth mental health crisis in the United States.

#### Two-Page Project Brief: How Do Young People View Social Connectedness and Access Resources?

This short Project Brief includes a highlevel overview of our findings from our first semester of research with our Social Support Research Fellows. Full Project Summary Report: How Young Adults View Social Connectedness and Access Resources

This detailed Summary Report provides an in-depth overview of our findings from our first semester of research with our Social Support Research Fellows.

Read more >

Read more >

Read more >





## Martha Gonzalez

Youth Social Support Research Fellow

Visible Network Labs

## Zoe Crocker

Youth Social Support Research Fellow

Visible Network Labs

### Kyra Stoute

Youth Social Support Research Fellow

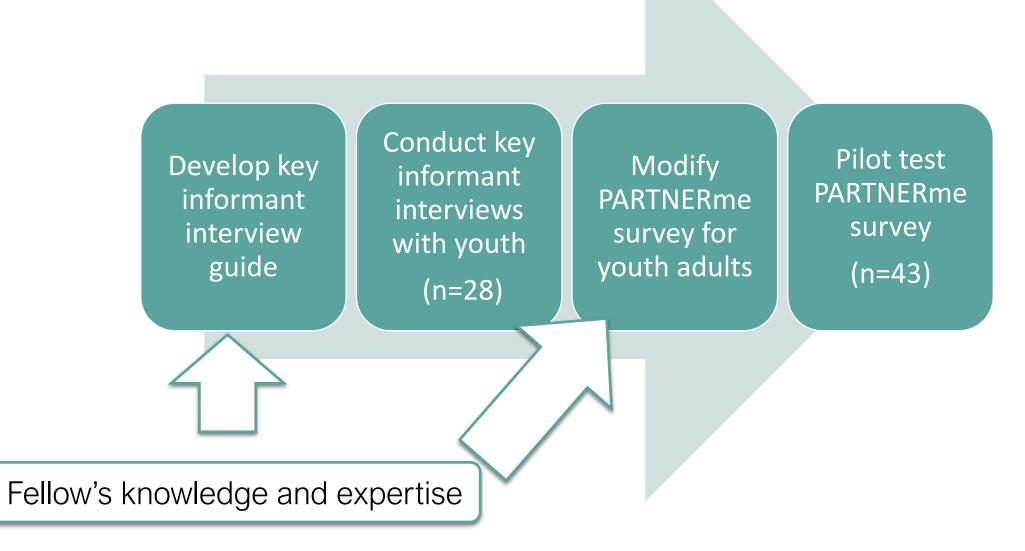
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## Kimberly Spring

Director of Research and Evaluation

Annie E. Casey Foundation

## **Overall Methods**



## Areas where white youth reported receiving more help than youth of color



Anxiety

Youth of Color White Youth 56% 72%

Image: Constraint of ColorWhite Youth6%72%

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## 35% of youth of color indicated none of these were areas they needed help with



## **Reflections and Learnings**

## **Reflections on Results**

- Youth of color socialized to not ask for help vs. their white peers
- Talking about mental health, encouragement to "be strong", sharing is not really supported
- Focus on and value financial needs, basic necessities, housing, food insecurities, as well as future, career, school
- Rising epidemic of suicide among black men; video many older black men do not have family, burned bridges, no family in their corner
- Youth tended to feel stigmatized for asking for help because they don't like feeling judged and they needed to build trust

## Learnings

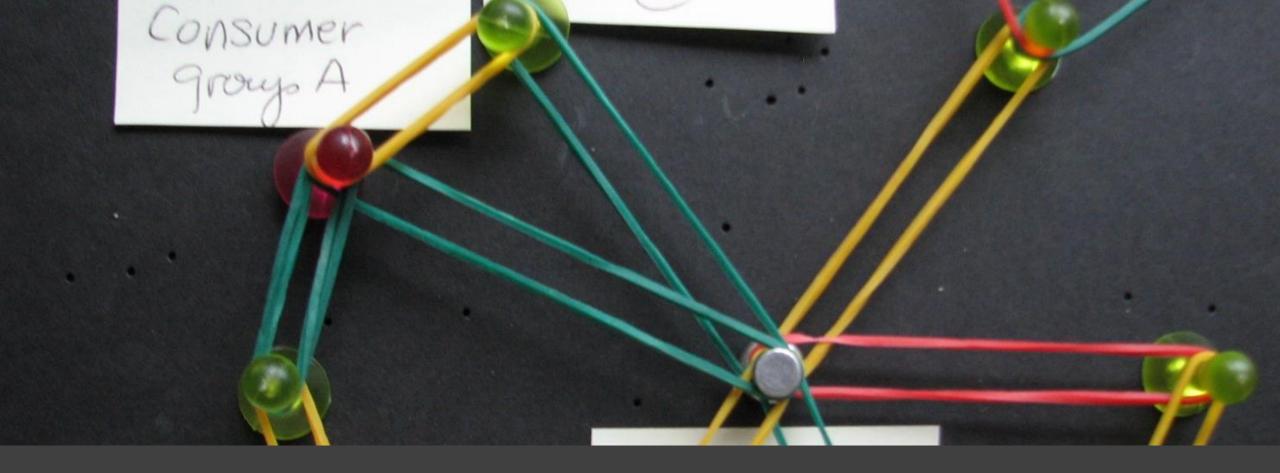
- Our assumptions are not always right
- Need to authentically ask and listen to people

## Questions/Ideas?



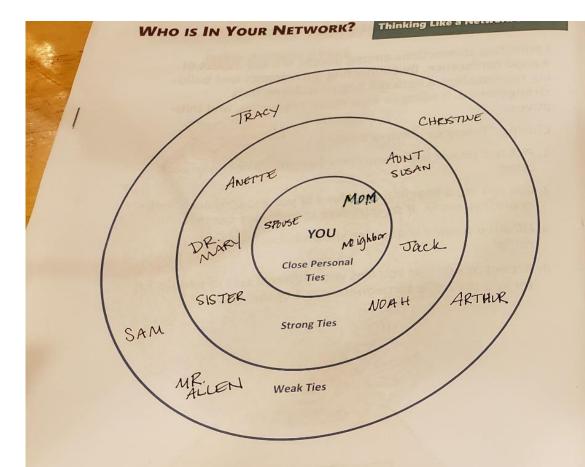
## danielle@visiblenetworklabs.com www.visiblenetworklabs.com

## A Network Mapping Tool (Resource)

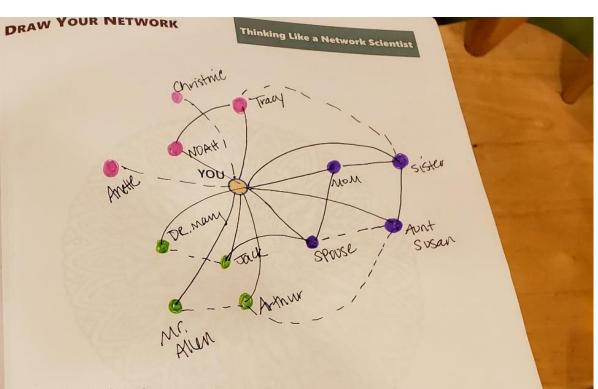


## Mapping Your Personal Network

## Mapping Your Personal Network



hinking about your networks as "nodes" and "lines" is a helpful way to quickly rualize who is connected to whom, where redundancies exist, and where there of the gaps. In this exercise we will practice drawing our personal support works. In this first worksheet, list out the people who "help you with the as you need". It is up to you to decide if you want this to be a personal or

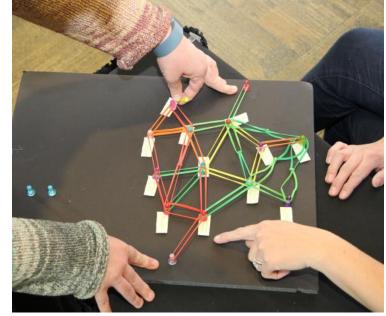


Now, take the list of people (places and things) that you listed on the previous sheet. Draw a circle (a node) for each person and then draw the lines between them to show who has a connection to each other. You might want to use colors to define different types of connections, or dotted or think/skinny lines. You might make the nodes different colors or sizes to show their differences. Keep track of your decisions in the "Key" box. Is your network more open?

Or do you have a more closed network?











## ...now you try it.

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## Personal Network Maps

If you can make one intentional change, what would it be?

