

**Streetcoin:**  
integrating place-based social landscape with  
healthcare risk models through the electronic  
health record

Alan Waxman, MLA  
Chethan Sarabu, MD

Healthy City International 2019  
Monday October 14<sup>th</sup>, 2019



**Alan Waxman, MLA**  
**Landscape Architecture**  
**Urban Design**



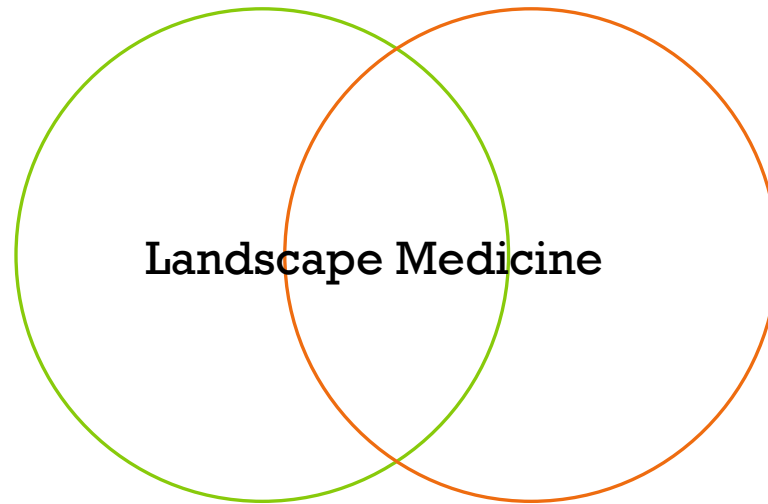
**Chethan Sarabu, MD**  
**Paediatrics**  
**Clinical Informatics**



Municipalities  
City Planning  
Landscape Architecture  
Streets, Parks, Buildings  
Maps



Healthcare system  
Doctors  
Nurses  
Hospitals & clinics  
Electronic health records

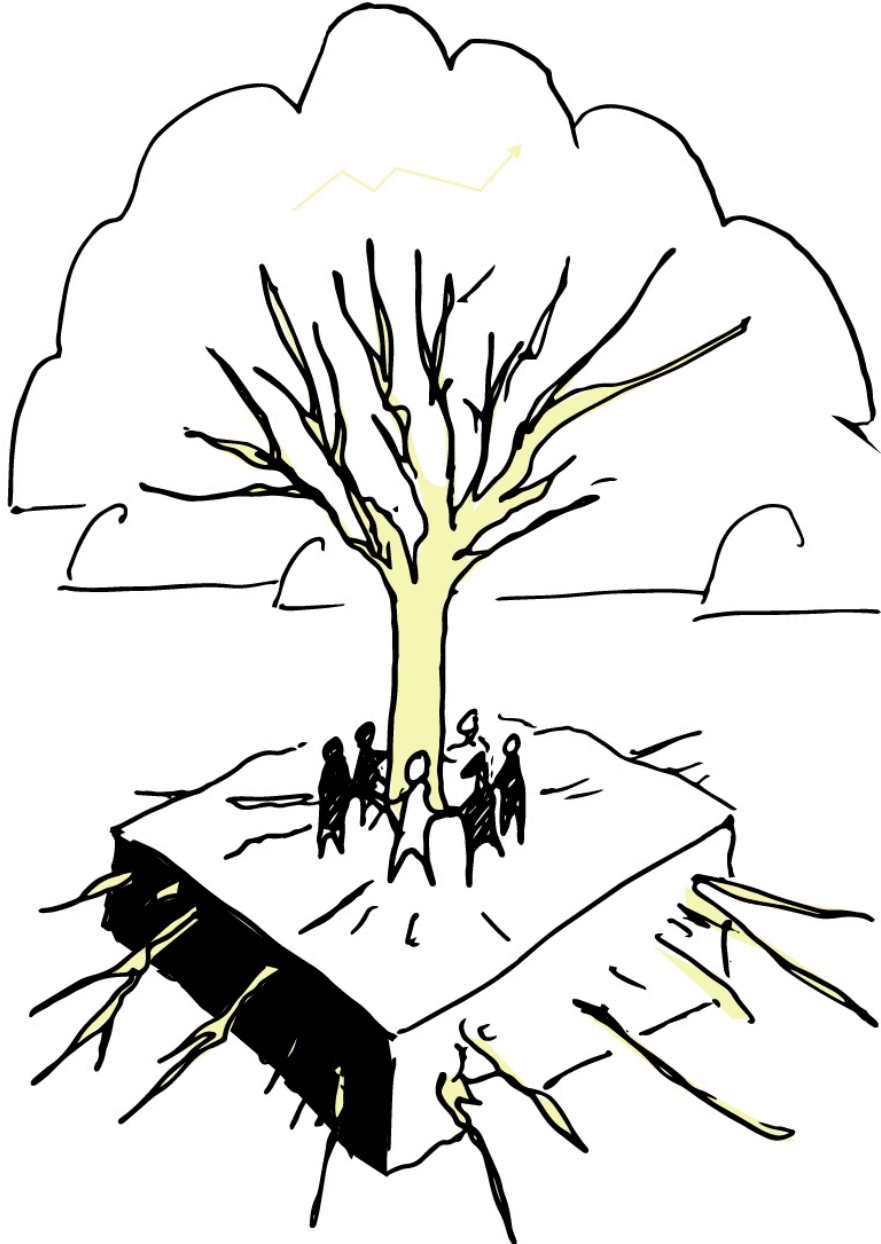


**Landscape medicine:**

**A place-based framework for valuing community assets through the healthcare system**

# Landscape Medicine

A place-based framework for valuing community assets through the healthcare system



Electronic Health Records/Maps

Cipher/streetcoin

Patients/Community

Social determinants of health/Environment

## Why now?

The time is ripe to connect landscape and medicine; particularly in the United States but globally as well.

As costs have escalated, all health systems are looking to invest in upstream preventive measures to decrease costs.

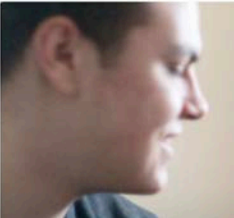
We also now have the technology and data layers to link the urban landscape, people, and health systems.

This is giving rise to a new type of healthcare/insurance system known as Accountable Care Organizations (ACOs).



### Health is local.

Cityblock was founded on the premise that health starts at the neighborhood level, and that everyone should have good care for what matters to them. We saw firsthand how healthcare has fallen short in providing adequate care for people living with complex health and social needs—and knew there was room for improvement.

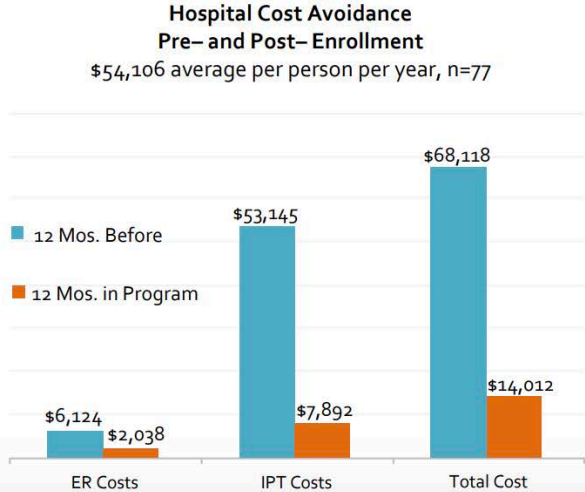


 A screenshot of the Cityblock mobile app interface. The top navigation bar includes "Search", "Members", "My Tasks", and "My Calendar". The user profile is "Lucielle Mendoza, Community Health Partner". The patient profile for "Thomas L. Jordan" (67 years old, Enrolled - Medicaid) is shown. A note mentions a dog named Rex. The "Active" tab is selected, showing a concern: "Currently does not receive adequate food services". Below this are two goals with associated tasks and due dates.
 

| Goal   | Task   | Due Date     |
|--|--|--------------|
| Goal 1: Assess eligibility for SNAP (Supplemental Nutrition Assistance Program) benefits | Accompany to grocery store   | Jan 24, 2019 |
|  | Assist in gathering needed documents for the application   | Feb 10, 2019 |
|  | Provide Health Bucks and accompanying information  | Jan 10, 2019 |
| Goal 2: Assess eligibility for food delivery service                                     | Be present for initial food delivery to ensure a smooth transition                               | Feb 26, 2019 |
|  | Speak to care team about restrictions that should be incorporated into food delivery application | Mar 14, 2019 |
|  | Refer member to food delivery service  | Mar 14, 2019 |

Cost Avoidance

Figure 6: Cost Avoidance



Net Cost Avoidance: Amount saved after accounting for 10th Decile Program Costs

\$34,306—\$39,556

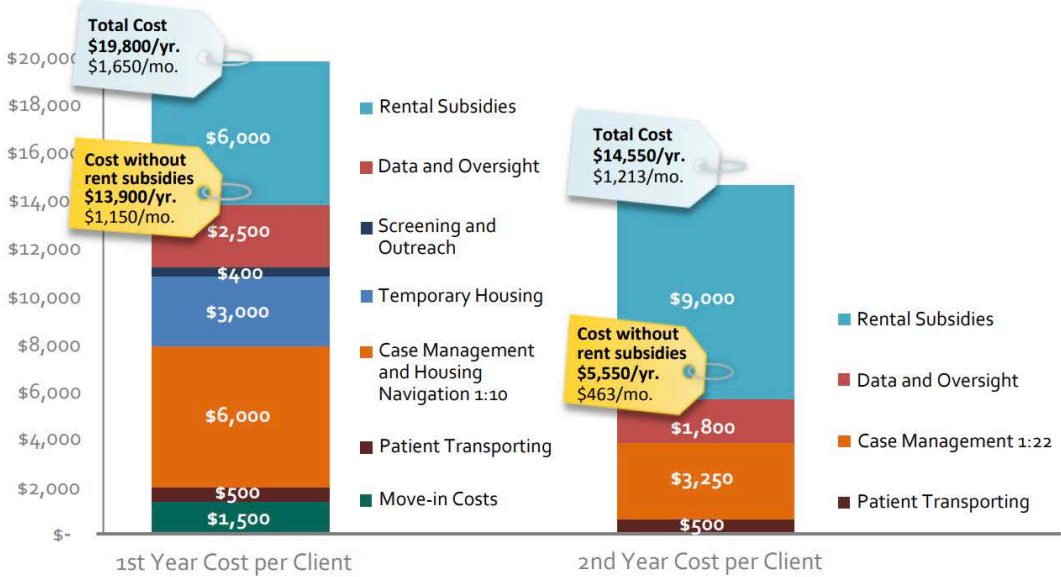
ER Costs Down 67%

Inpatient Costs Down 85%

Total Costs Decreased 79%

# 10th Decile Project

Los Angeles, CA | September, 2015





## Health Benefits

### The Benefits of Nature are Mental

There are currently more than 400 studies that demonstrate the numerous health benefits that nature provides. Below we've highlighted a few key resources that give an overview of the findings. You can also find relevant infographics in the [ParkRx toolkit](#).



Literature Reviews



Databases



Prescribe Parks What is Park Rx America?

Resources

Media

Contact

PRESCRIBER LOGIN

### For Health Professionals

Have you ever prescribed Nature before? As a provider, are you ready to try something new?

How much time do you spend outside in a natural setting during YOUR free time?

Take the opportunity to capitalize on the provider burnout that has to do with prescribing the same medications and doing the same things we do every day without considerable change in our patients' lives.



CREDIT: National Park Service

Learn More »

### For Park Agencies

We work closely with managers of public lands to ensure patient access to therapeutic time in nature.

Park Rx America has collected data on thousands of parks and green spaces, searchable by location, with results filterable by standard park attributes and features, and viewable as printable one-page Park Summaries.

We have demonstrated scalability by replicating the park prescription model in diverse park agencies and health provider organizations across the country.



Learn More »

**Table 1.** Summary of evidence-based health benefits of nature contact.

| No. | Health/well-being benefits   | References  |
|-----|--|---|
| 1   | Reduced stress   | Berto 2014; Fan et al. 2011; Nielsen and Hansen 2007; Stigsdotter et al. 2010; van den Berg and Custers 2011; van den Berg et al. 2010; Ward Thompson et al. 2016   |
| 2   | Better sleep   | Astell-Burt et al. 2013; Grigsby-Toussaint et al. 2015; Morita et al. 2011  |
| 3   | Improved mental health:<br>Reduced depression                              | Astell-Burt et al. 2014c; Beyer et al. 2014; Cohen-Cline et al. 2015; Gascon et al. 2015; Kim et al. 2009; Maas et al. 2009b; McEachan et al. 2016; Nutsford et al. 2013; Sturm and Cohen 2014; Taylor et al. 2015; White et al. 2013 |
|     | Reduced anxiety  | Beyer et al. 2014; Bratman et al. 2015a; Maas et al. 2009b; Nutsford et al. 2013; Song et al. 2013; Song et al. 2015  |
| 4   | Greater happiness, well-being, life satisfaction                           | Ambrey 2016; Fleming et al. 2016; Larson et al. 2016; MacKerron and Mourato 2013; Van Herzele and de Vries 2012; White et al. 2013  |
| 5   | Reduced aggression   | Bogar and Beyer 2016; Branas et al. 2011; Kuo and Sullivan 2001a, b; Troy et al. 2012; Younan et al. 2016   |
| 6   | Reduced ADHD symptoms  | Amoly et al. 2014; Faber Taylor et al. 2001; Faber Taylor and Kuo 2009; Faber Taylor and Kuo 2011; Kuo and Faber Taylor 2004; Markevych et al. 2014b; van den Berg and van den Berg 2011  |
| 7   | Increased prosocial behavior and social connectedness                      | Broyles et al. 2011; Dadvand et al. 2016; de Vries et al. 2013; Fan et al. 2011; Holtan et al. 2015; Home et al. 2012; Piff et al. 2015; Sullivan et al. 2004   |
| 8   | Lower blood pressure   | Duncan et al. 2014; Markevych et al. 2014a; Shanahan et al. 2016  |
| 9   | Improved postoperative recovery  | Park and Mattson 2008; Park and Mattson 2009; Ulrich 1984   |
| 10  | Improved birth outcomes  | Reviewed by Dzhambov et al. 2014  |
| 11  | Improved congestive heart failure  | Mao et al. 2017   |
| 12  | Improved child development (cognitive and motor)                           | Fjørtoft 2001; Kellert 2005   |
| 13  | Improved pain control  | Acutely (Diette et al. 2003; Lechtzin et al. 2010) and chronically (Han et al. 2016)  |
| 14  | Reduced obesity  | Bell et al. 2008; Cleland et al. 2008; P. Dadvand et al. 2014a; Lachowycz and Jones 2011; Sanders et al. 2015; Stark et al. 2014  |
| 15  | Reduced diabetes   | Astell-Burt et al. 2014a; Bodicoat et al. 2014; Brown et al. 2016; Thiering et al. 2016   |
| 16  | Better eyesight  | French et al. 2013; Guggenheim et al. 2012; He et al. 2015  |
| 17  | Improved immune function   | Li et al. 2006; Li et al. 2008a; Li et al. 2008b; Li et al. 2010; Li and Kawada 2011  |
| 18  | Improved general health:<br>Adults   | Brown et al. 2016; de Vries et al. 2003; Kardan et al. 2015; Maas et al. 2006; Maas et al. 2009b; Stigsdotter et al. 2010; Wheeler et al. 2015  |
|     | Cancer survivors   | Ray and Jakubec 2014  |
|     | Children   | Kim et al. 2016   |
| 19  | Reduced mortality  | Coutts et al. 2010; Gascon et al. 2016b; Hu et al. 2008; James et al. 2016; Takano et al. 2002; Villeneuve et al. 2012  |
| 20  | Asthma and/or allergies (studies show both improvements and exacerbations) | Andrusaityte et al. 2016; Dadvand et al. 2014a; Fuertes et al. 2014; Fuertes et al. 2016; Lovasi et al. 2013; Lovasi et al. 2008; Ruokolainen et al. 2015   |

Note: ADHD, attention-deficit hyperactivity disorder. The references in Table 1 are illustrative rather than exhaustive; they include both recent reviews and research reports and older, widely cited publications.

Parks are a huge asset, and we need to value them for the 21st century

*Alison Benjamin*

Our green spaces are shrinking, despite all the benefits they give us. If we want to save them, we need to value the ecosystem and health and wellbeing services they offer



▲ Angel Meadow park, Manchester. Many small but vital 'green lungs' are being lost to development. Photograph: Ian Canham/Alamy

THE  TIMES

## Newcastle uses public health cash to save city parks

Jon Ungeod-Thomas

February 26 2017, 12:01am,  
The Sunday Times

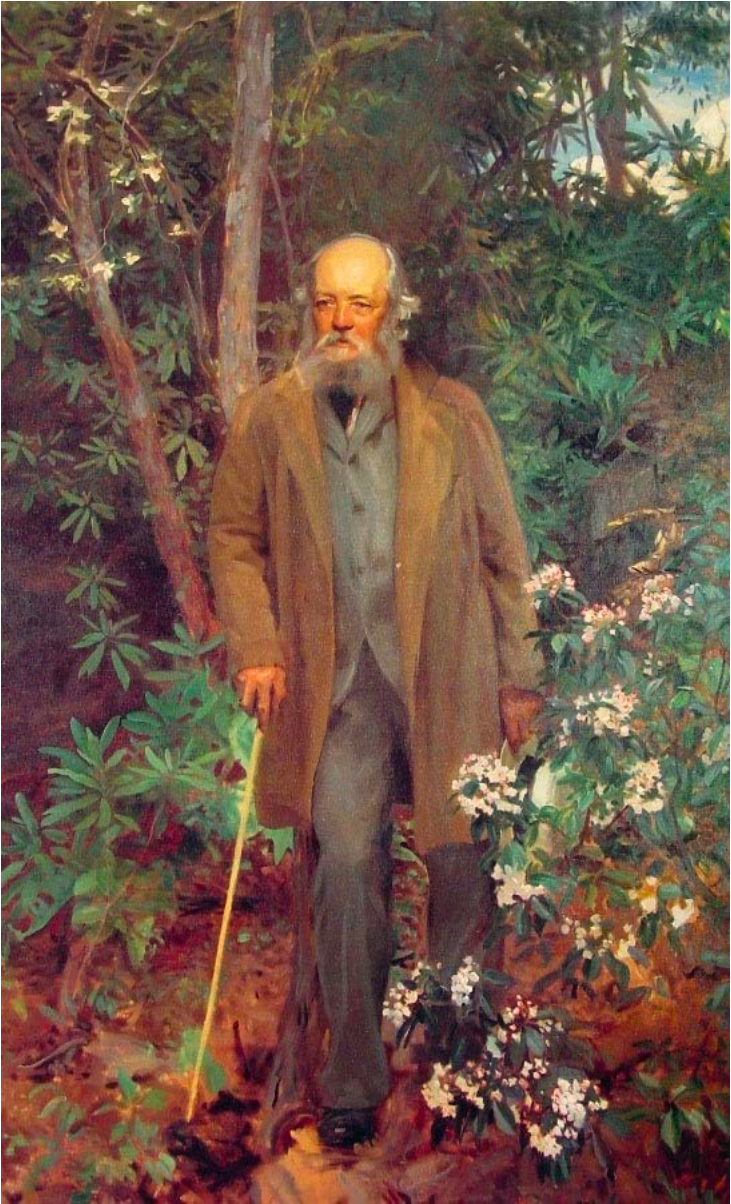


Leazes Park, Newcastle: the council says open spaces provide huge health benefits  
ALAMY

Newcastle city council has become one of the first local authorities in Britain to use millions of pounds from its public health budget to help keep open its public parks.

The council says health budgets and NHS funds should be used to fund cash-strapped parks as such open spaces provide huge health benefits.

Precedent



Frederick Law Olmsted



Smohalla

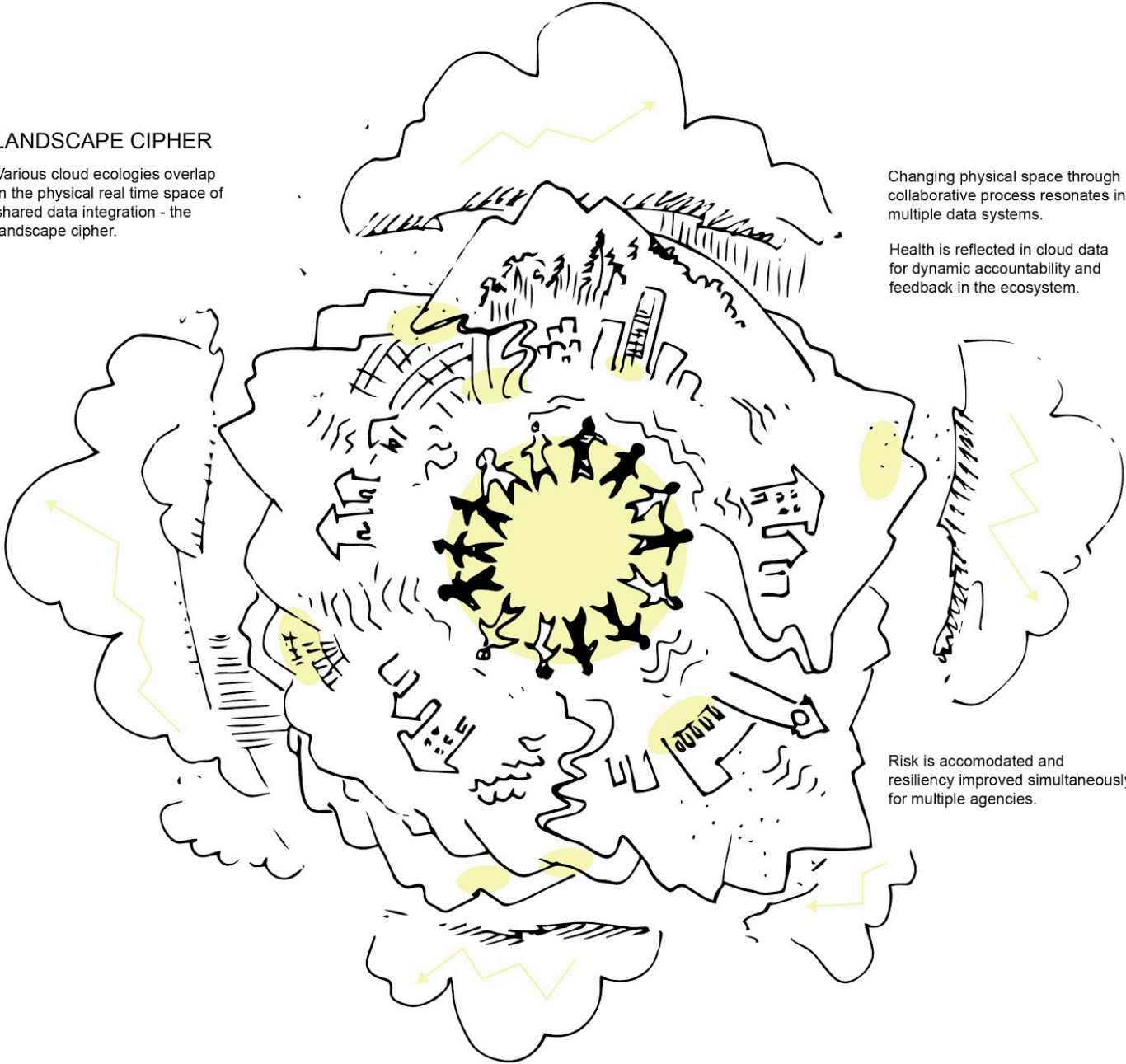
# Olmsted.health

<https://www.olmsted.health>

# Stewardship

## LANDSCAPE CIPHER

Various cloud ecologies overlap in the physical real time space of shared data integration - the landscape cipher.

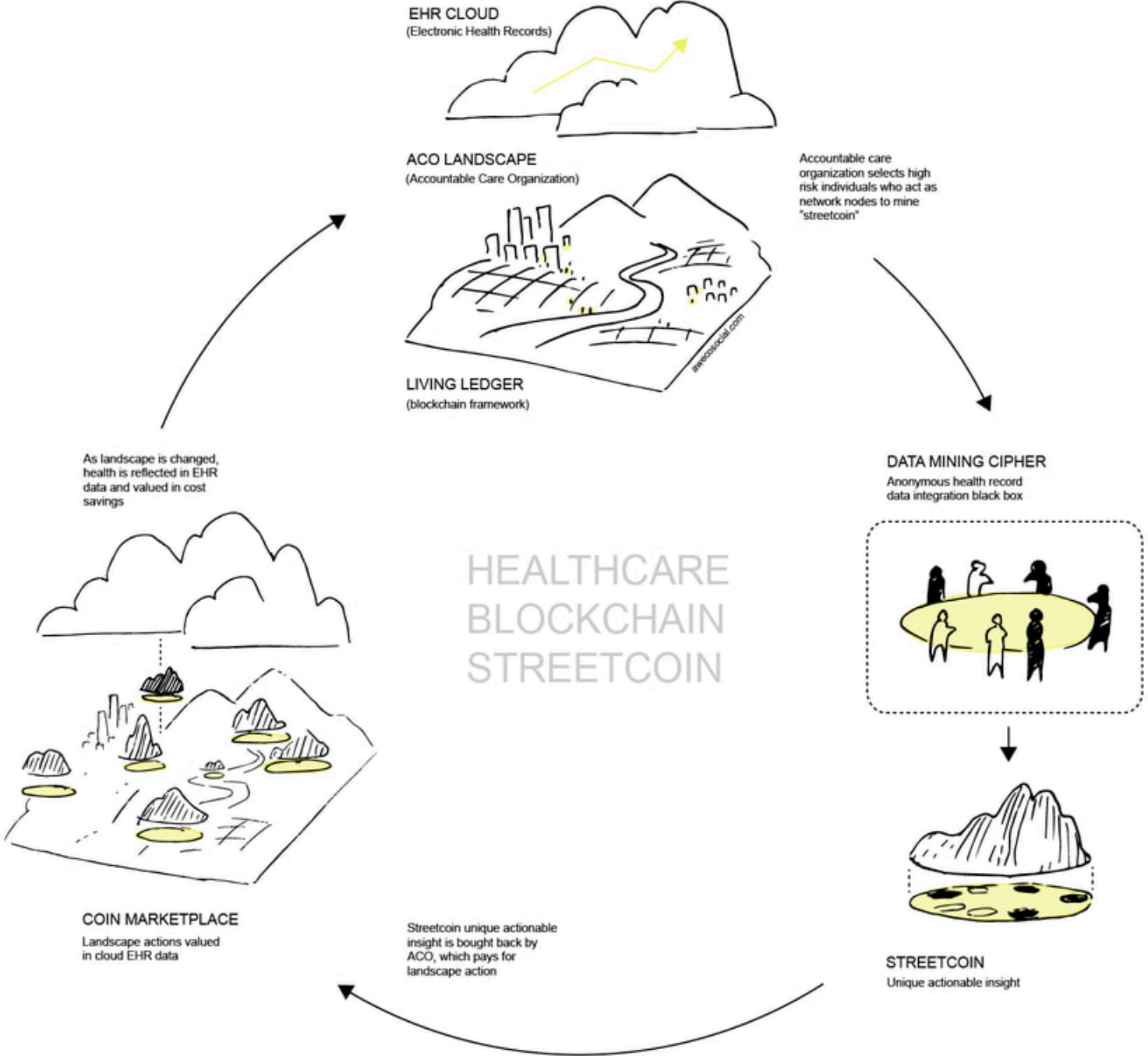


Changing physical space through collaborative process resonates in multiple data systems.

Health is reflected in cloud data for dynamic accountability and feedback in the ecosystem.

Risk is accommodated and resiliency improved simultaneously for multiple agencies.

# Accountability



**EHR CLOUD**  
(Electronic Health Records)

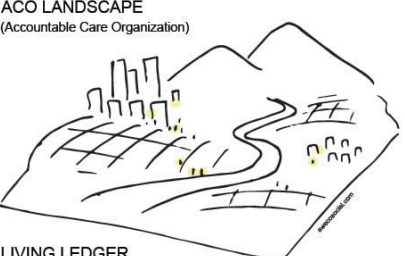
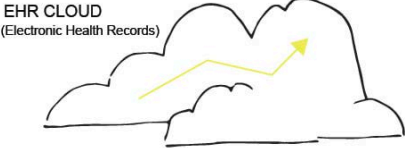


**ACO LANDSCAPE**  
(Accountable Care Organization)



**LIVING LEDGER**  
(blockchain framework)

# Patient – Clinician View





# Physician view: patient story

BROOKLYN ACO

CLINIC

**BETH**

Demographics

**Symptoms/Diagnoses**

Therapies

## Symptoms/Concerns

Options ▾

Active diagnosis

**Anxiety**

Since 2015

Has had long standing anxiety that seems to be getting worse increasingly due to pressures at school exacerbated by social media based peer pressure.

Concern

**Family history of Type 2 diabetes**

Since 2015

Multiple family members have been diagnosed with type 2 diabetes, wonder what steps can be taken to prevent or delay condition.

Concern

**Excessive Screentime**

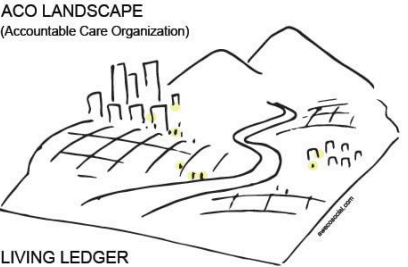
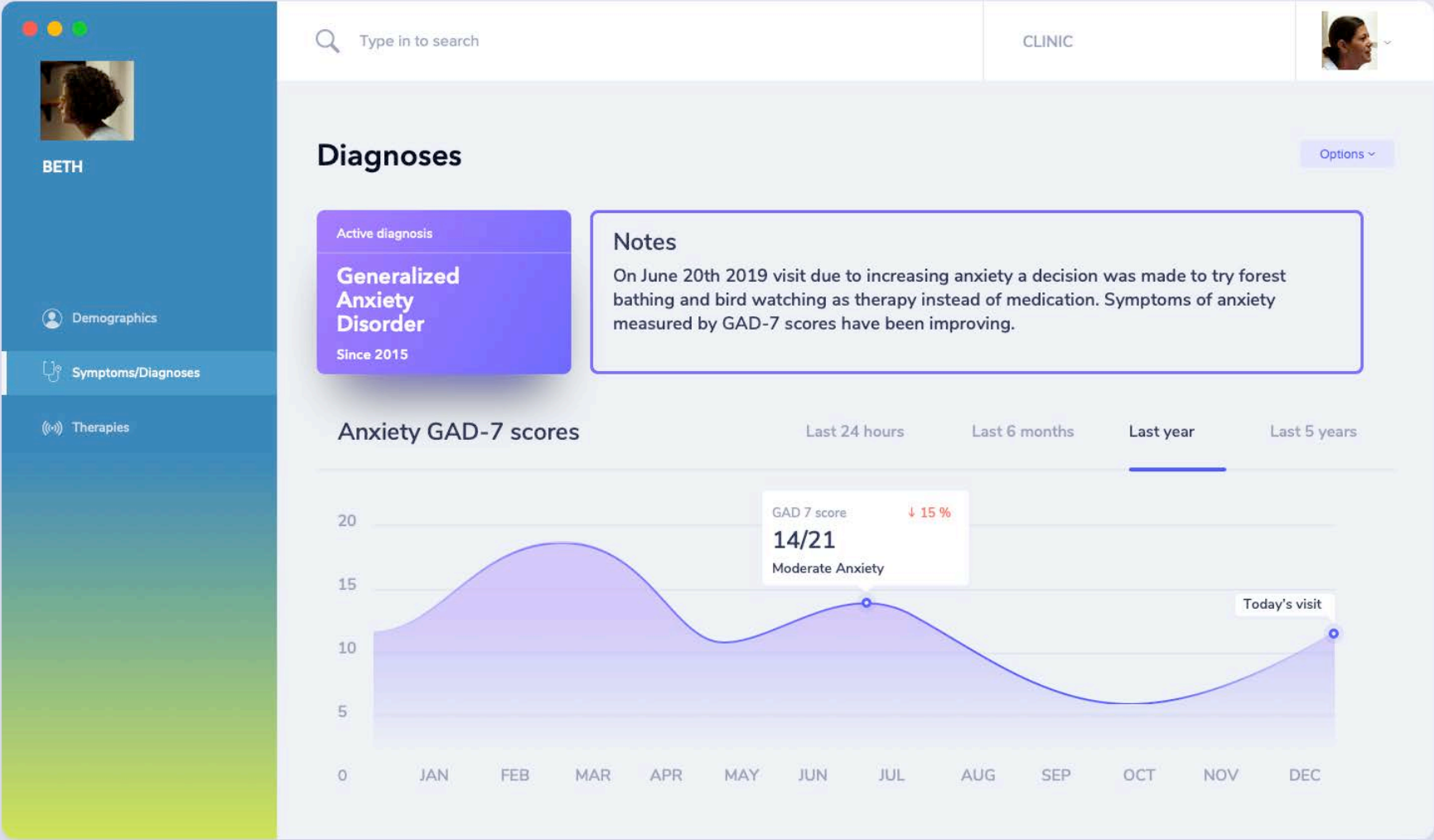
Since 2015

Patient and mother are concerned about her excessive time on her phone and feels that this is disrupting her sleep and other activities.



**LIVING LEDGER**  
(blockchain framework)

# Monitoring patient condition over time



**LIVING LEDGER**  
(blockchain framework)

# Physician view: therapy selection

**BROOKLYN ACO**

Search: Type in to search

CLINIC

**BETH**

- Demographics
- Symptoms/Diagnoses
- Therapies**

### Therapies

Options ▾

Active diagnosis

**Generalized Anxiety Disorder**

Since 2015

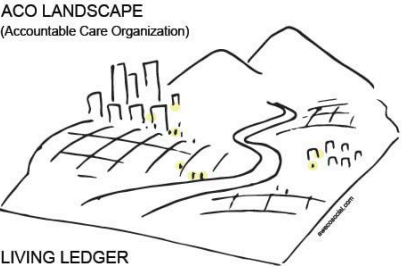
**Notes**

On June 20th 2019 visit due to increasing anxiety a decision was made to participate in a nearby park stewardship group. This was effective for a few months but now her anxiety seems to be rising.

**Medication**

**Digital Therapeutics**

**Landscape Medicine**



**LIVING LEDGER**  
(blockchain framework)

# Physician view: place selection

**BROOKLYN ACO**

**BETH**

Demographics

Symptoms/Diagnoses

Therapies

Search: Type in to search

**CLINIC**

**Landscape Medicine**

Active diagnosis

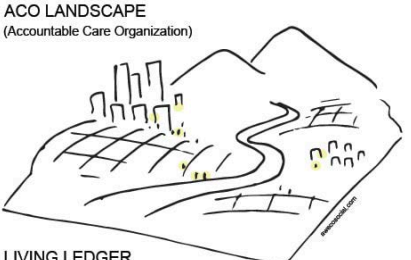
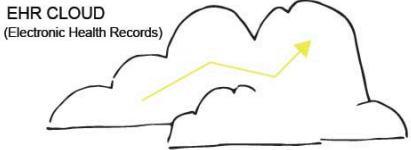
**Generalized Anxiety Disorder**

Since 2015

Stewardship Groups

Place: Betsy Head Park  
Condition: Anxiety prevention  
2019 Activities: rap cipher, yoga group, birdwatching, tree planting

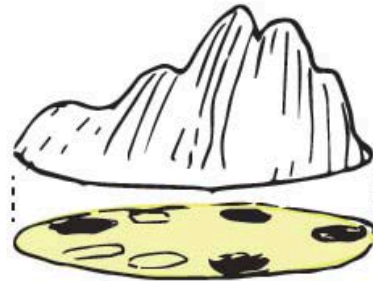
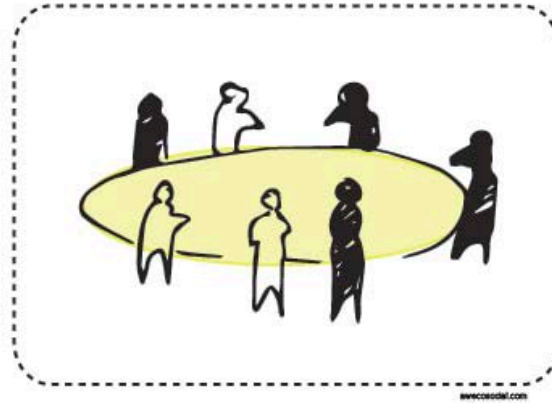
Map labels: WEEKSVILLE, BROOKLYN, BROWNsville, Kingsbrook Jewish Medical Center, Brookdale Hospital Medical Center, Linden Blvd, Eastern Pkwy, Pitkin Ave, Atlantic Ave, Pacific St, Lincoln Terrace / Arthur S. Somers Park, E New York Ave, Rockaway Pkwy, E 99th St, Clarkston Ave, Church Ave, Linden Blvd, Avenue D, Avenue E, Avenue F, Avenue G, Avenue H, Avenue I, Avenue J, Avenue K, Avenue L, Avenue M, Avenue N, Avenue O, Avenue P, Avenue Q, Avenue R, Avenue S, Avenue T, Avenue U, Avenue V, Avenue W, Avenue X, Avenue Y, Avenue Z, Avenue AA, Avenue AB, Avenue AC, Avenue AD, Avenue AE, Avenue AF, Avenue AG, Avenue AH, Avenue AI, Avenue AJ, Avenue AK, Avenue AL, Avenue AM, Avenue AN, Avenue AO, Avenue AP, Avenue AQ, Avenue AR, Avenue AS, Avenue AT, Avenue AU, Avenue AV, Avenue AW, Avenue AX, Avenue AY, Avenue AZ, Avenue BA, Avenue BB, Avenue BC, Avenue BD, Avenue BE, Avenue BF, Avenue BG, Avenue BH, Avenue BI, Avenue BJ, Avenue BK, Avenue BL, Avenue BM, Avenue BN, Avenue BO, Avenue BP, Avenue BQ, Avenue BR, Avenue BS, Avenue BT, Avenue BU, Avenue BV, Avenue BW, Avenue BX, Avenue BY, Avenue BZ, Avenue CA, Avenue CB, Avenue CC, Avenue CD, Avenue CE, Avenue CF, Avenue CG, Avenue CH, Avenue CI, 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Stewardship group  
Landscape doctor

DATA MINING CIPHER

Anonymous health record  
data integration black box

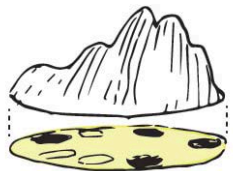
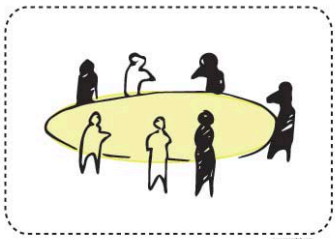


STREETCOIN

Unique actionable insight

# Landscape doctor – Stewardship group

**DATA MINING CIPHER**  
Anonymous health record  
data integration black box



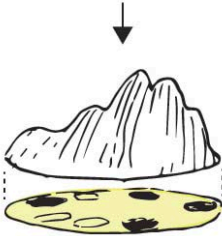
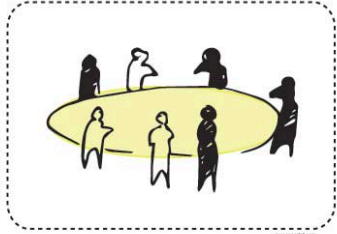
**STREETCOIN**  
Unique actionable insight



Frampton sees the architecture  
of the gang beef in person

# Landscape doctor view: Stewardship groups

DATA MINING CIPHER  
Anonymous health record  
data integration black box



STREETCOIN  
Unique actionable insight

**BROOKLYN ACO**

STEWARDSHIP GROUP

Demographics

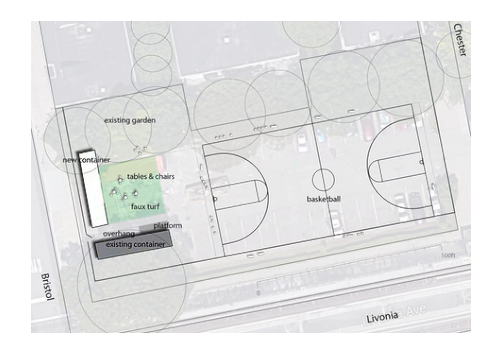
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CLINIC

Type in to search

### Community anxiety mapping

Options ▾



Olmsted.health:  
Landscape  
doctor –  
stewardship  
group



Olmsted.health:  
Landscape  
doctor –  
stewardship  
group



# Streetcoin Accountable Care Organization

As landscape is changed,  
health is reflected in EHR  
data and valued in cost  
savings



**COIN MARKETPLACE**  
Landscape actions valued  
in cloud EHR data

# Accountable Care Organization view

Streetcoin  
Dashboard

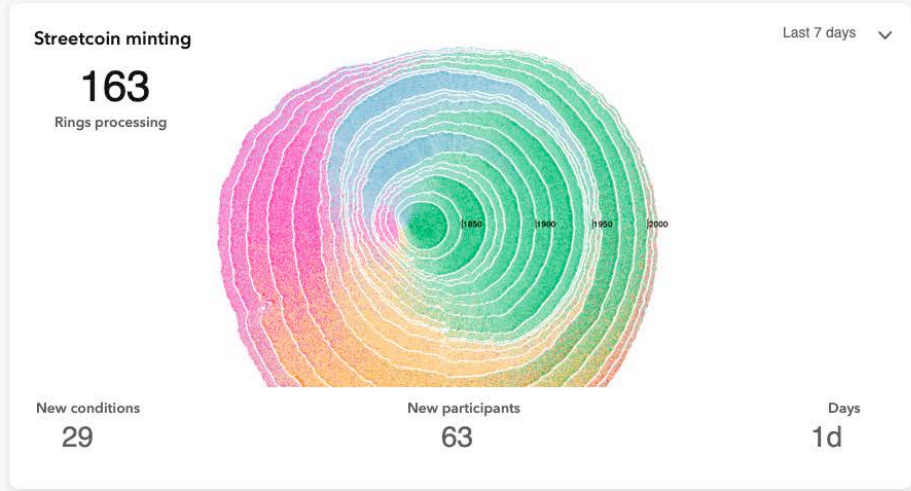
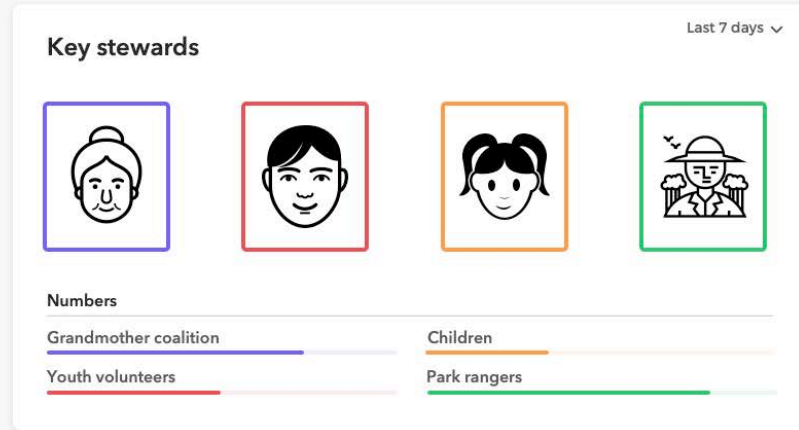
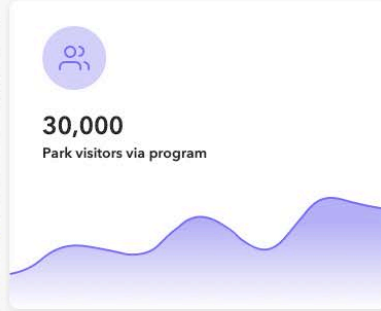
As landscape is changed,  
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savings



**COIN MARKETPLACE**  
Landscape actions valued  
in cloud EHR data



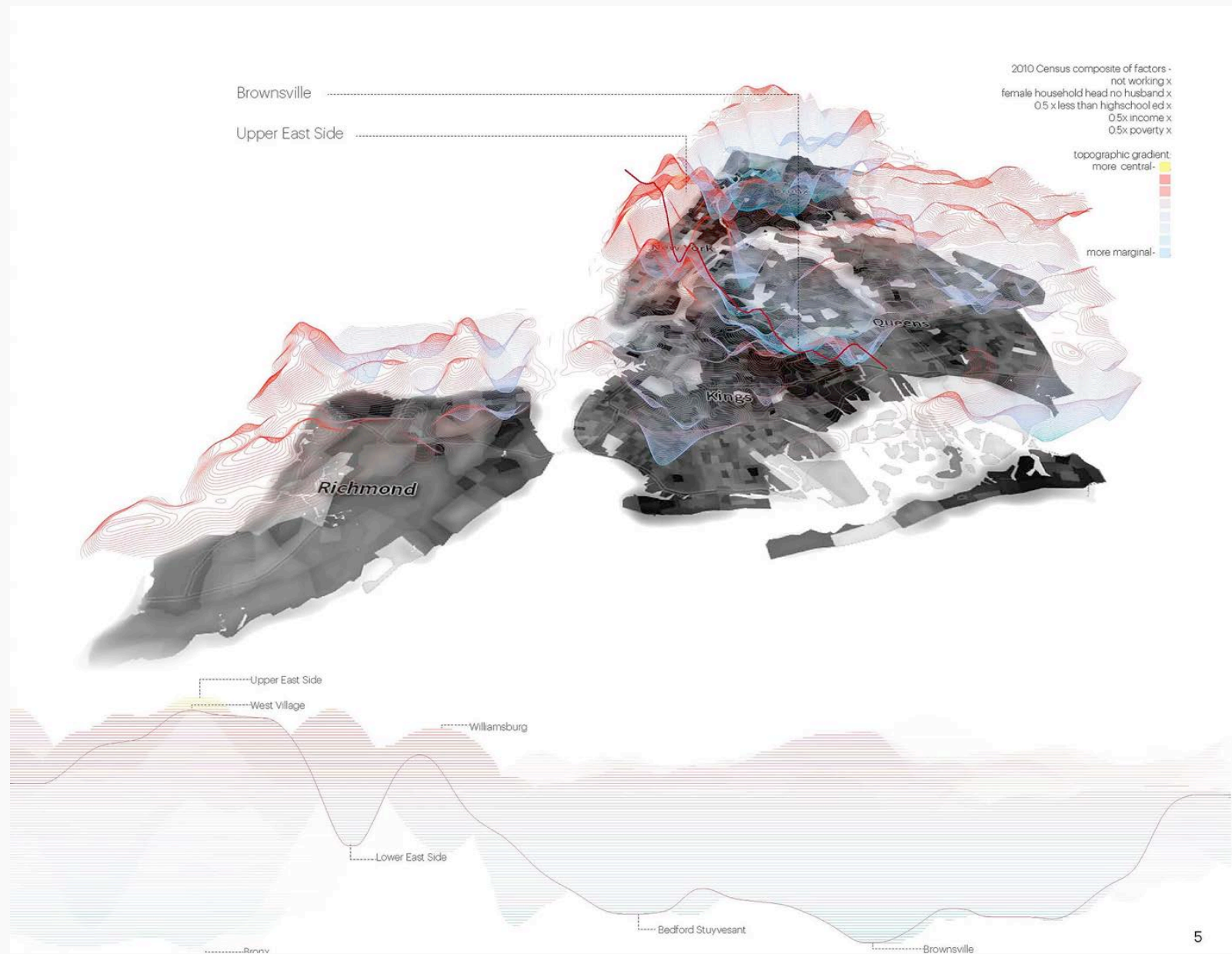
English John Doe Available

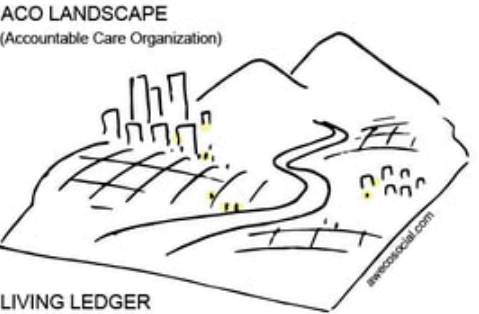
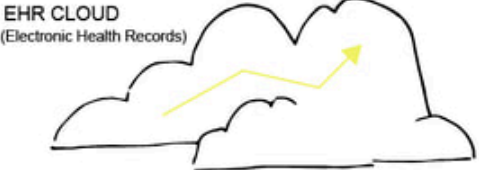


# Accountable Care Organization view



**COIN MARKETPLACE**  
Landscape actions valued  
in cloud EHR data





Accountable care organization selects high risk individuals who act as network nodes to mine "streetcoin"

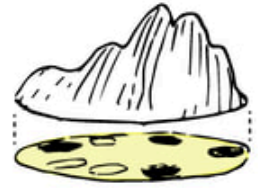
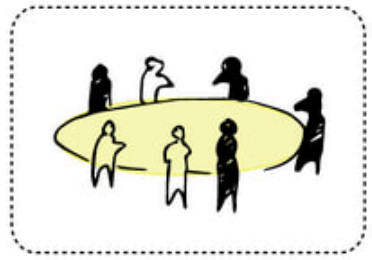
As landscape is changed, health is reflected in EHR data and valued in cost savings



**COIN MARKETPLACE**  
Landscape actions valued in cloud EHR data

HEALTHCARE  
BLOCKCHAIN  
STREETCOIN

**DATA MINING CIPHER**  
Anonymous health record data integration black box



**STREETCOIN**  
Unique actionable insight

Streetcoin unique actionable insight is bought back by ACO, which pays for landscape action



OLMSTED.HEALTH  
landscape medicine

improving health outcomes with  
patient led adaptive management

STEWARDSHIP

ACCOUNTABILITY

PRECEDENT

PEOPLE



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