



Trends in Health Technology: the Data and Digital Convergence

Indu Subaiya, MD, MBA
Co-Founder & CEO

Health 2.0 

So what is **Health 2.0**



adaptable technology



adaptable technology

user experience

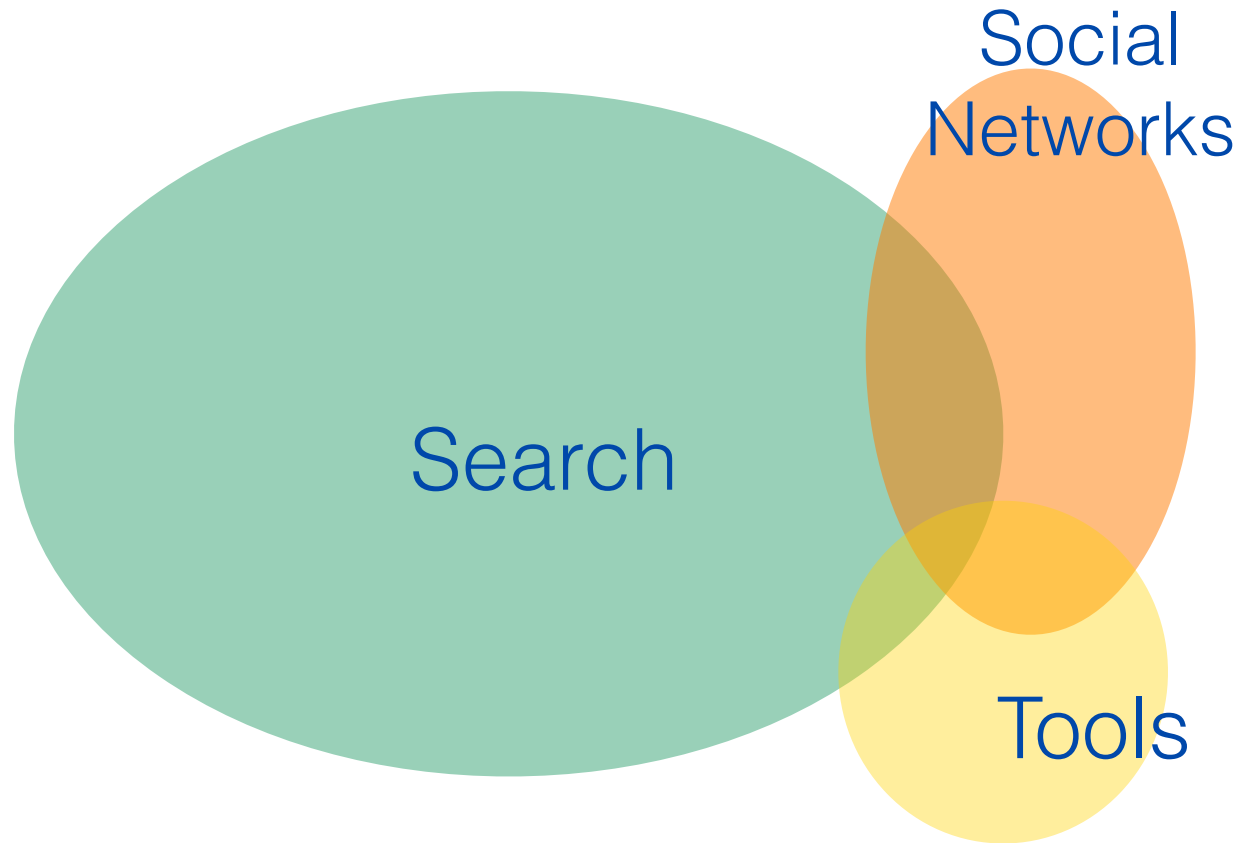


adaptable technology

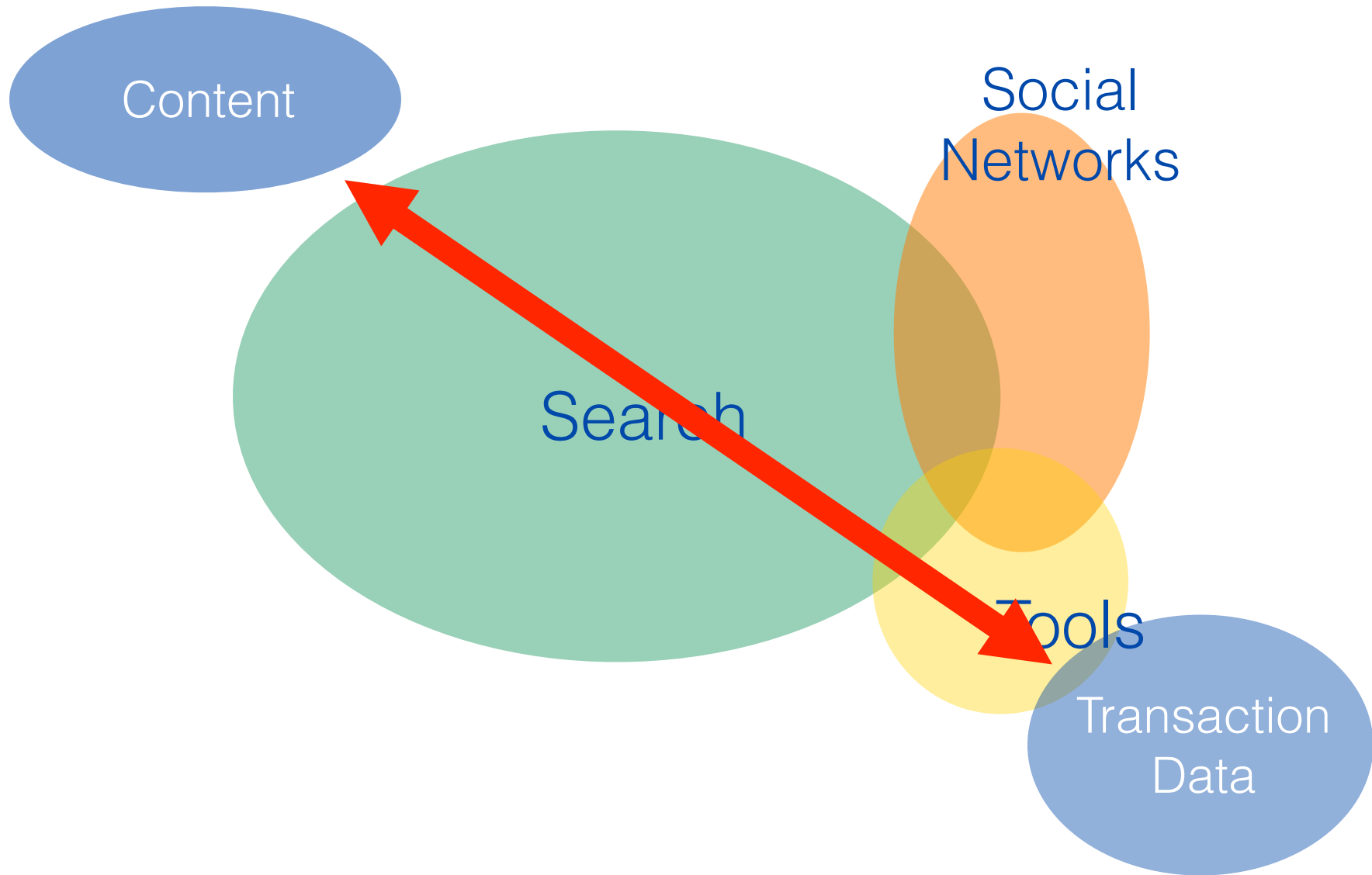
user experience

data drives-decisions

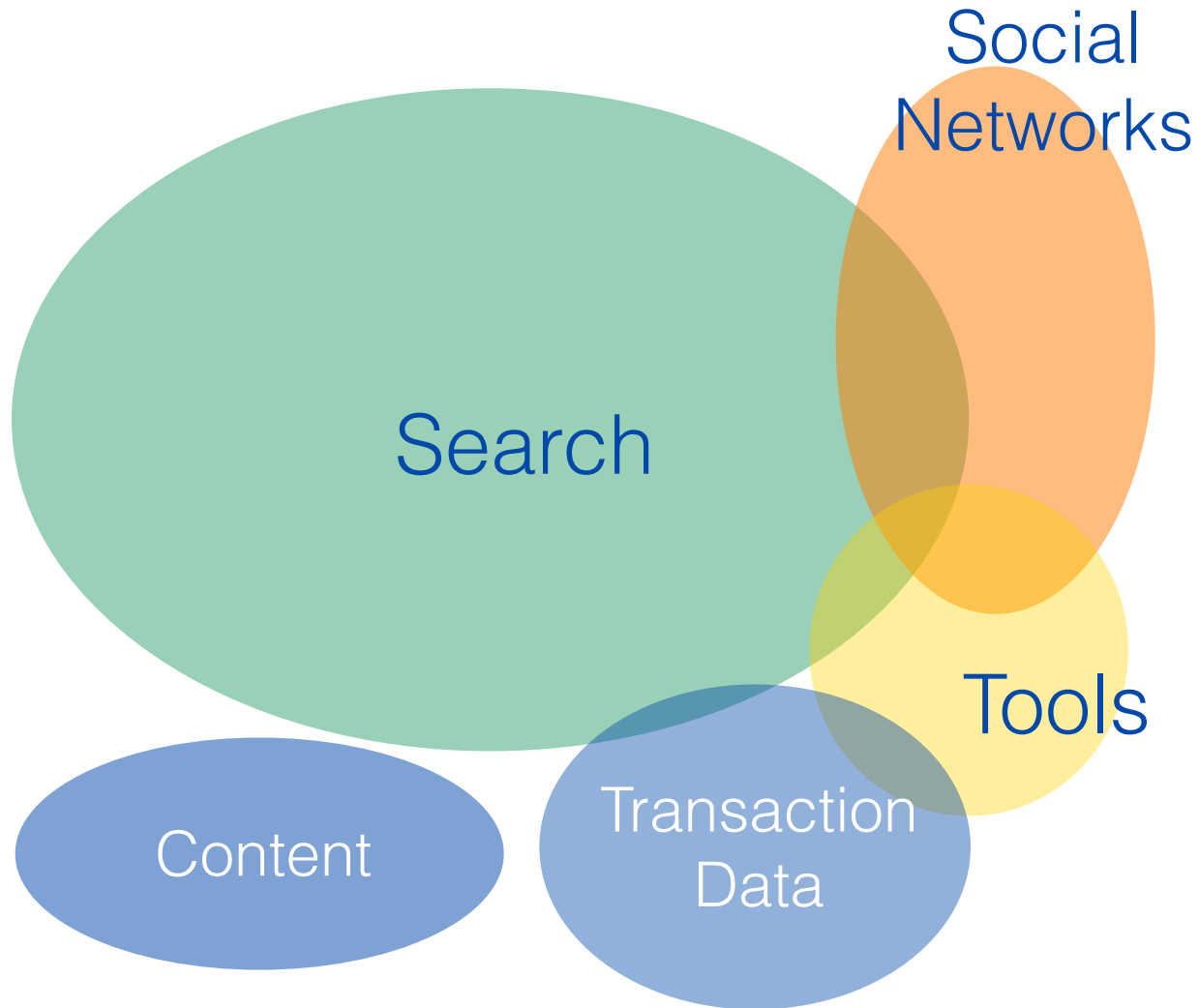
Health 2.0: User-Generated Healthcare



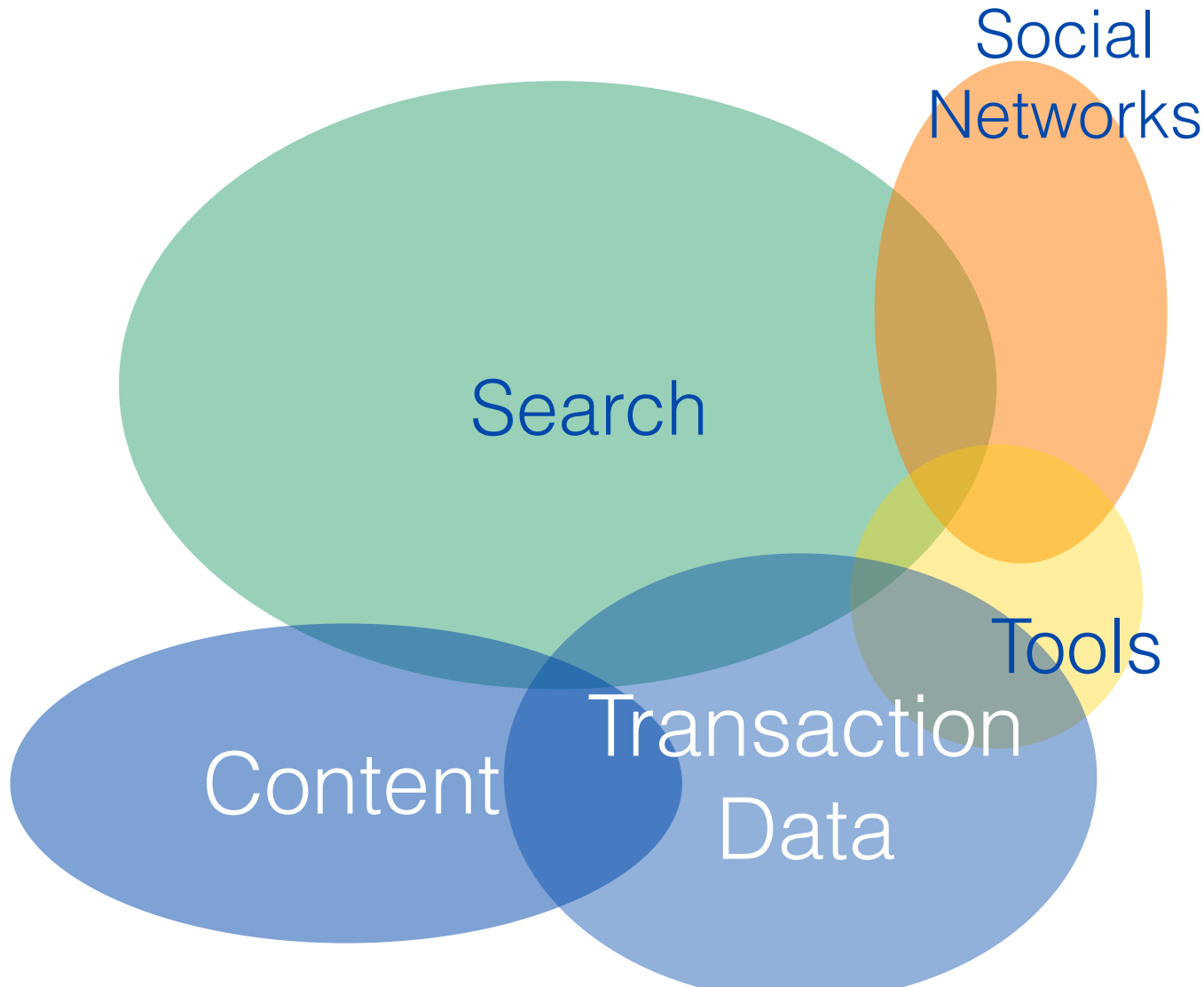
Health 2.0: User-Generated Healthcare



Health 2.0: User-Generated Healthcare



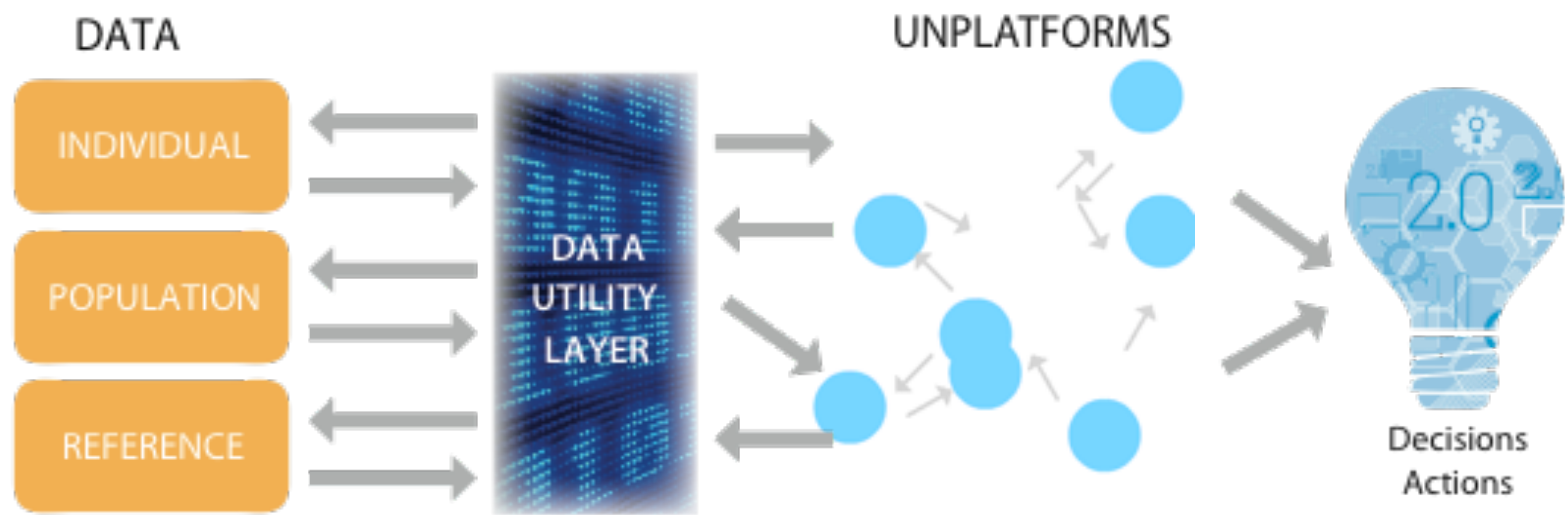
Health 2.0: User-Generated Healthcare



A continuum of Health 2.0?







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HIV (Human Immunodeficiency Virus)

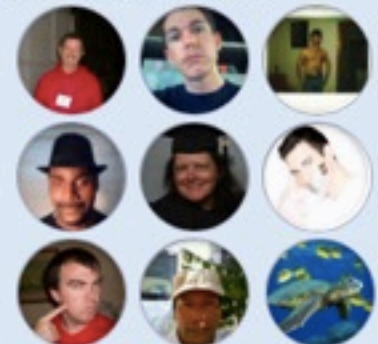
What is HIV (Human Immunodeficiency Virus)?

HIV infection refers to the spectrum of human immunodeficiency virus infections that range from asymptomatic seropositivity, thru AIDS-related complex (ARC), to acquired immunodeficiency syndrome (AIDS).

What is it like to have HIV (Human Immunodeficiency Virus)?

Common symptoms	How bad it is	What people are taking for it
Depressed mood		Bupropion , Citalopram , Escitalopram
Swollen glands		Kaletra , No treatments , Combivir/Nevirapine
Anxious mood		Clonazepam , Alprazolam , Lorazepam
Chills/fever		Efavirenz , Acetaminophen (Paracetamol) , Ibuprofen
Night sweats		Abacavir-Lamivudine , Ibuprofen Prescription
Decreased appetite		Dronabinol , Megestrol , Promethazine

Find patients like you with HIV

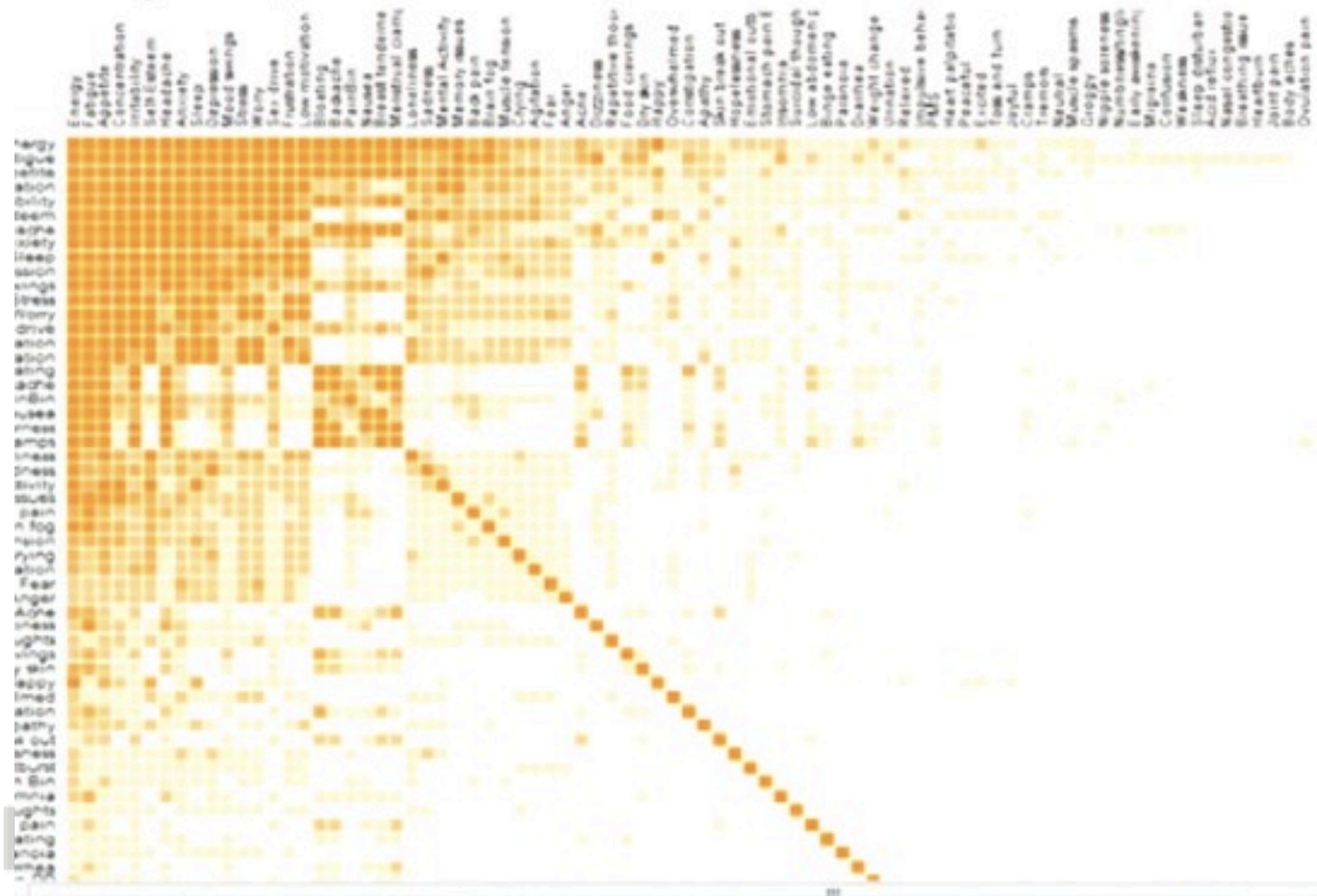


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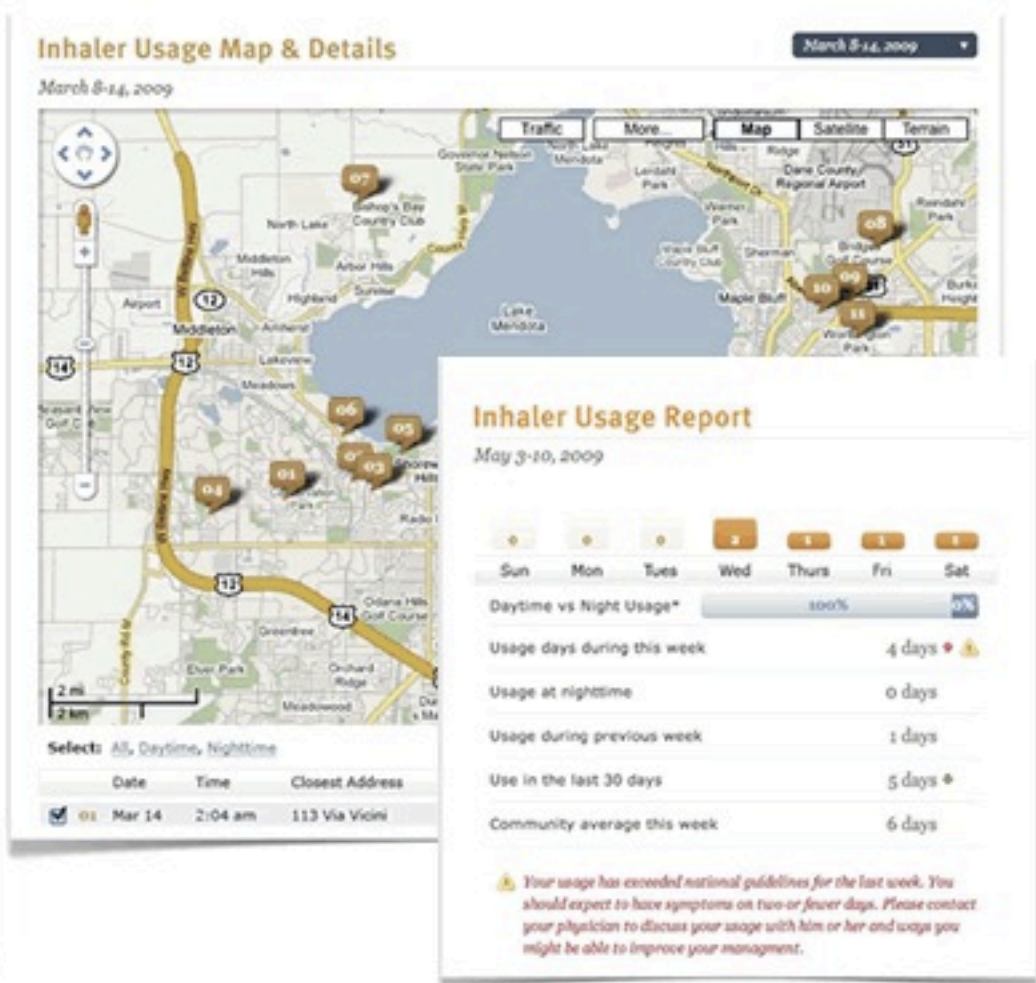
to see all 3,531 members

Data

Symptom Co-occurrence



Data



Data





Trend 1

myfitnesspal

Summary Daily Weekly

SATURDAY / Jul 14, 2012

Your Daily Summary

1207 CALORIES REMAINING [Add to Diary](#)

Goal	Food	Exercise	Net
2450	+ 1364	- 121	1243

News feed

Diet with friends and lose up to 3x more. [Learn more.](#)

 **eprometheus** burned 121 calories doing 30 minutes of "Strength training (weight lifting, weight training)" [+](#)

Home My Diary Progress Friends More

Diary Edit Add

Goal	Food	Exercise	Net	Remaining
2450	1325	370	955	1495

FRIDAY / Jul 13, 2012

Shipley, 1 donut 217

Greek Yogurt, Strawberry on the... 120
Dannon Oikos, 5.3 oz

High Protein Chocolate Shake 160
Premier Nutrition- Net Carb, 1 shake

Lunch 450 cal

Penne Pasta With Chicken and Wh... 450
1.5 cup

Snacks 378 cal

Peanuts - All types, dry-roasted,... 166
1 oz

High Protein Chocolate Shake 160
Premier Nutrition- Net Carb, 1 shake


Pear 52
Garden of Eatin' - 1 medium

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myfitnesspal

Summary Daily Weekly

FRIDAY / Jul 13, 2012

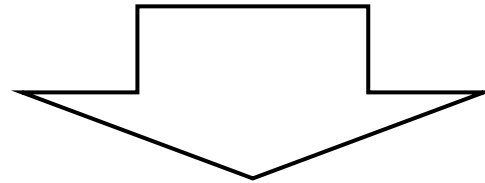
Total	Goal	Left
		

Trend 1

60% of U.S. adults track weight, diet, or exercise routine.

33% track health indicators or symptoms.

12% track a health indicator on behalf of someone they care for.

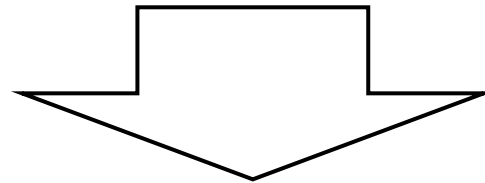


**7 in 10 U.S. adults
track for health**

@PewResearch @SusannahFox



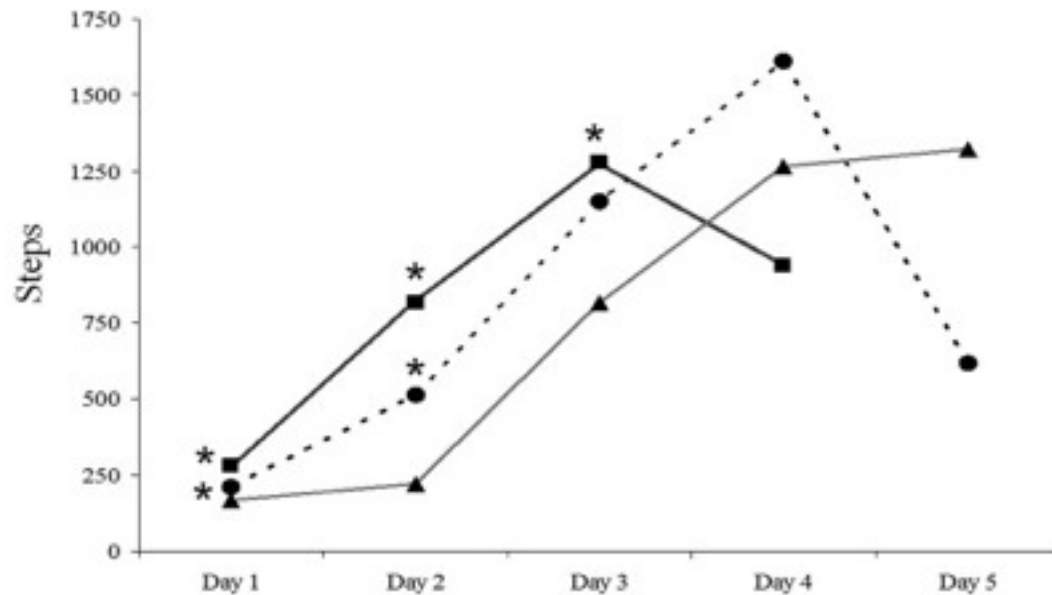
45% of U.S. adults are living with at least one chronic disease.



**7 in 10
track for health**

@PewResearch @SusannahFox

Mayo: Fitbit data predicts surgical recovery time



Recovery Day		1	2	3	4	5
Short (n=64)	Median	284	818	1279	939	
	IQ Range	381	843	1241	947	
Intermediate (n=44)	Median	213	514	1151	1613	620
	IQ Range	298	886	1304	1149	629
Long (n=41)	Median	167	223	817	1267	1323
	IQ Range	248	624	1130	1419	1805

LOS <5 days	■
LOS 5-6 days	●
LOS >6 days	▲

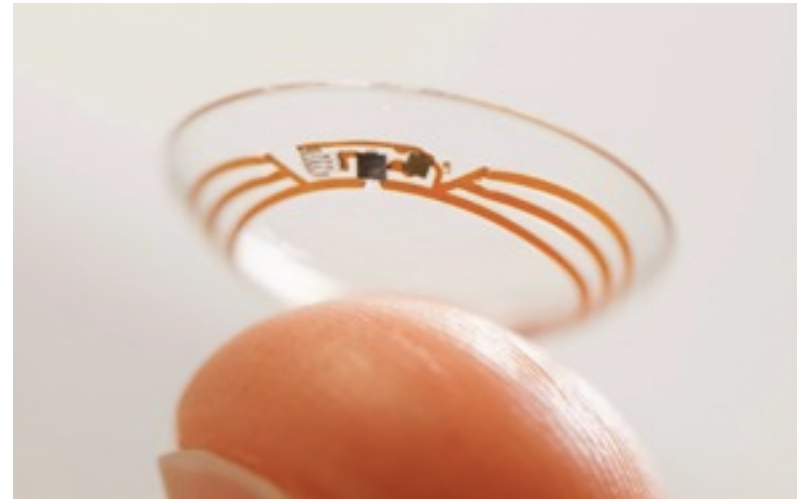
Trend 1



Trend 1



Trend 2



Trend 2



Trend 3

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More than Forty Percent of U.S. Consumers Willing to Switch Physicians to Gain Online Access to Electronic Medical Records, According to Accenture Survey

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September 16, 2013

More than Forty Percent of U.S. Consumers Willing to Switch Physicians to Gain Online Access to Electronic Medical Records, According to Accenture Survey

Majority of patients have taken ownership of records by self-tracking personal health information

ARLINGTON, Va; Sept. 16, 2013 – Supporting the growing trend toward patient engagement, a

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Trend 3

A word cloud of various stressors in blue, bold, sans-serif capital letters. The words are arranged in a roughly rectangular shape in the center of the slide. The words include: FINANCIAL STRESS, RELATIONSHIP ISSUES, CAREGIVING, JOB STRESS, SAD OR WORRIED, TROUBLE SLEEPING, SEX, SUBSTANCE USE, SOCIAL SUPPORT, SPIRITUALITY, and EXERCISE. The words vary in size, with 'JOB STRESS' and 'SEX' being the largest.

FINANCIAL STRESS
RELATIONSHIP ISSUES
CAREGIVING
JOB STRESS
SAD OR WORRIED
TROUBLE SLEEPING
SEX
SUBSTANCE USE
SOCIAL SUPPORT
SPIRITUALITY
EXERCISE

Trend 4

Mindful Schools

Engaging children. Supporting educators.
Transforming schools.

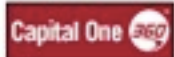


Trend 4

The New York Times

Business Day

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Hospital Billing Varies Wildly, Government Data Shows

By BARRY MEIER, JO CRAVEN McGINTY and JULIE CRESWELL

Published: May 8, 2013 | 708 Comments

A hospital in Livingston, N.J., charged \$70,712 on average to implant a pacemaker, while a hospital in nearby Rahway, N.J., charged \$101,945.

Enlarge This Image



C.J. Gunther for The New York Times

In Saint Augustine, Fla., one hospital typically billed nearly \$40,000 to remove a gallbladder using minimally invasive surgery, while one in Orange Park, Fla., charged \$91,000.

In one hospital in Dallas, the average bill for treating simple pneumonia was \$14,610, while another there charged

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What's Popular Now

The Art of Presence



Encore, for the Norwegian Curlers and Their Pants



Trend 5



Trend 5



The Health Insurance Marketplace is coming soon

A new way to get affordable coverage launches October 1.

Answer a few questions to learn if you qualify for lower costs.

[SEE YOUR OPTIONS »](#)

PLAN &
COST INFO
COMING
OCT 1

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What is the Health
Insurance
Marketplace?

How do I get help
enrolling in the
Marketplace?

What if I have job-
based insurance?

How can I get
coverage at lower
costs?

What do small
businesses need to
know?



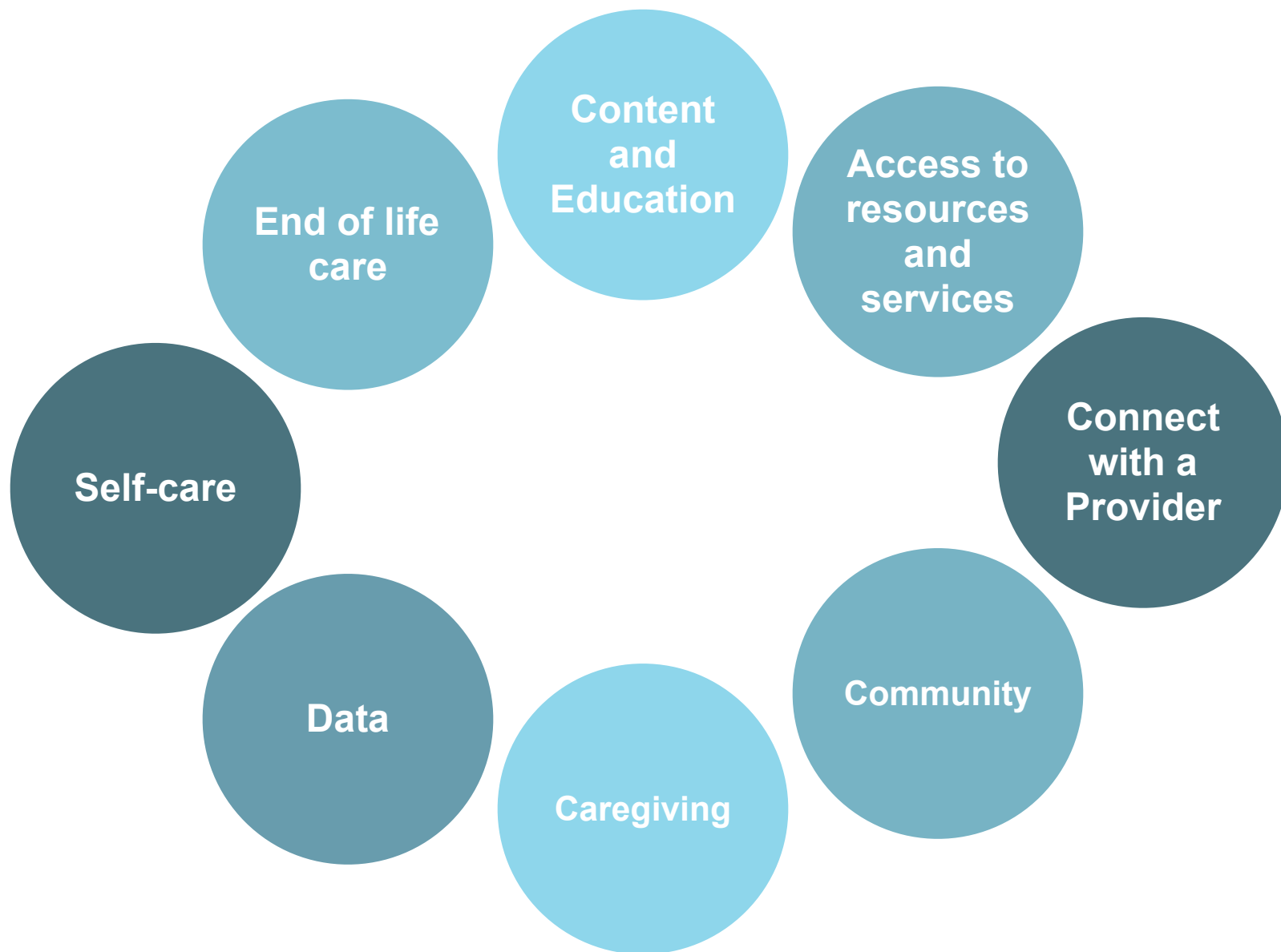
2 DAYS LEFT UNTIL
OPEN ENROLLMENT

OCT
1 Open
Enrollment
Begins


JAN
1 Coverage
Begins

MAR
31 Open
Enrollment
Closes

Trend 5



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HIV Is...

HIV is the abbreviation for Human Immunodeficiency Virus, which causes Acquired Immune Deficiency Syndrome, or AIDS. HIV is spread through sex or contact with blood, or it can be transmitted to a baby through breast milk. Symptoms may not appear for years. Fortunately, treatment can slow or prevent some of HIV's worst damage.


[Learn More About HIV >](#)

[What is AIDS? >](#)

[How to Avoid Infection >](#)

[Blood Transfusions: Still a Risk? >](#)

Who's Most at Risk for HIV?
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Protect and Prevent
3 Rules to Follow for Safe Sex

20%
The percentage of people with HIV
who don't know they're infected
Centers for Disease Control and Prevention (CDC)

Content and Education



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Access to Resources and Services

Hula

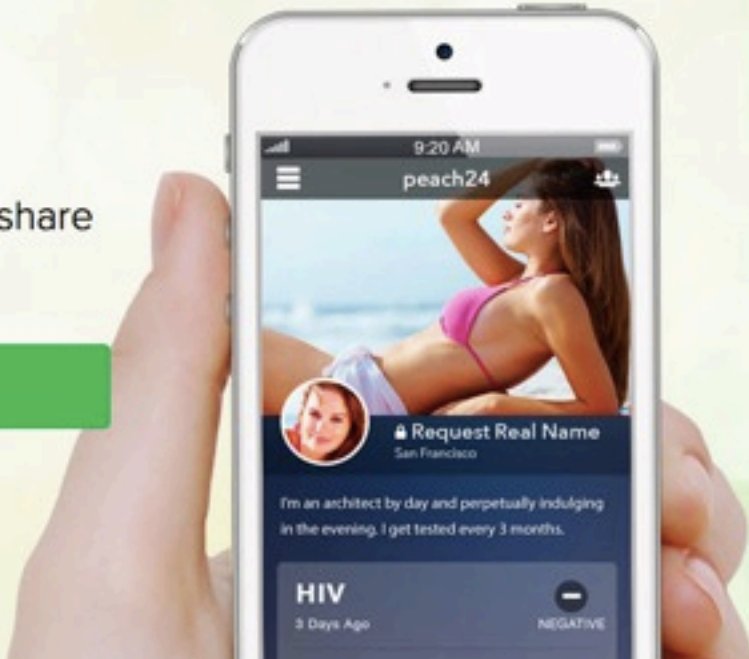
FIND STD TESTING

STD Testing Made Easy

Find an STD test center, get your results online, and share your verified STD status.

Get Started for Free →

Download on the App Store



The image shows a hand holding a smartphone displaying the peach24 app. The app interface includes a header with the time 9:20 AM and the username peach24. Below the header is a profile picture of a woman and a bio: "Request Real Name San Francisco I'm an architect by day and perpetually indulging in the evening. I get tested every 3 months." Under the bio, there is a section for HIV test results, showing "HIV 3 Days Ago" and a "NEGATIVE" result.

Access to Resources and Services



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ANNOUNCEMENTS

We present **Private Results** at the Health 2.0 conference in Santa Clara. See the presentation [here](#).

Baltimore Innovation Week celebrates our founder, Jessica Ladd, as the **"Hacker of the Year"**.

[So They Can Know](#) turns one year old, with over 15,000 users and over 80 clinics promoting.

A Sexual Health Innovations initiative to help the Baltimore City Health Department deliver STD test results online, **wins "Most Likely to Make a Difference"** at the [Baltimore Hack for Change](#). View our presentation [here](#).



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share.

share your story, write a blog, start a forum, create a poll, and join a group.

create

connect

share

JOIN
the tribe

Username

Password

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testimonials

"I've found nothing but support and acceptance, I actually look forward to waking in the morning to log on and say: Good Morning Tribe!" Positively_dazed, MI

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Caregiving



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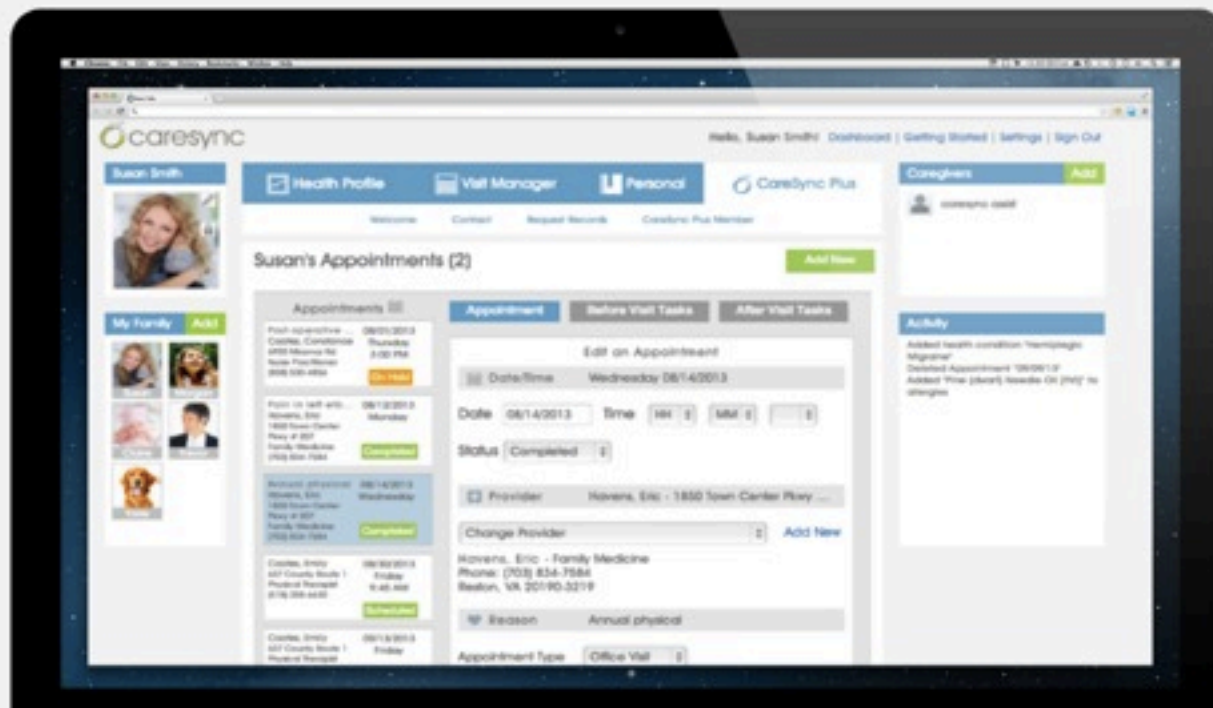
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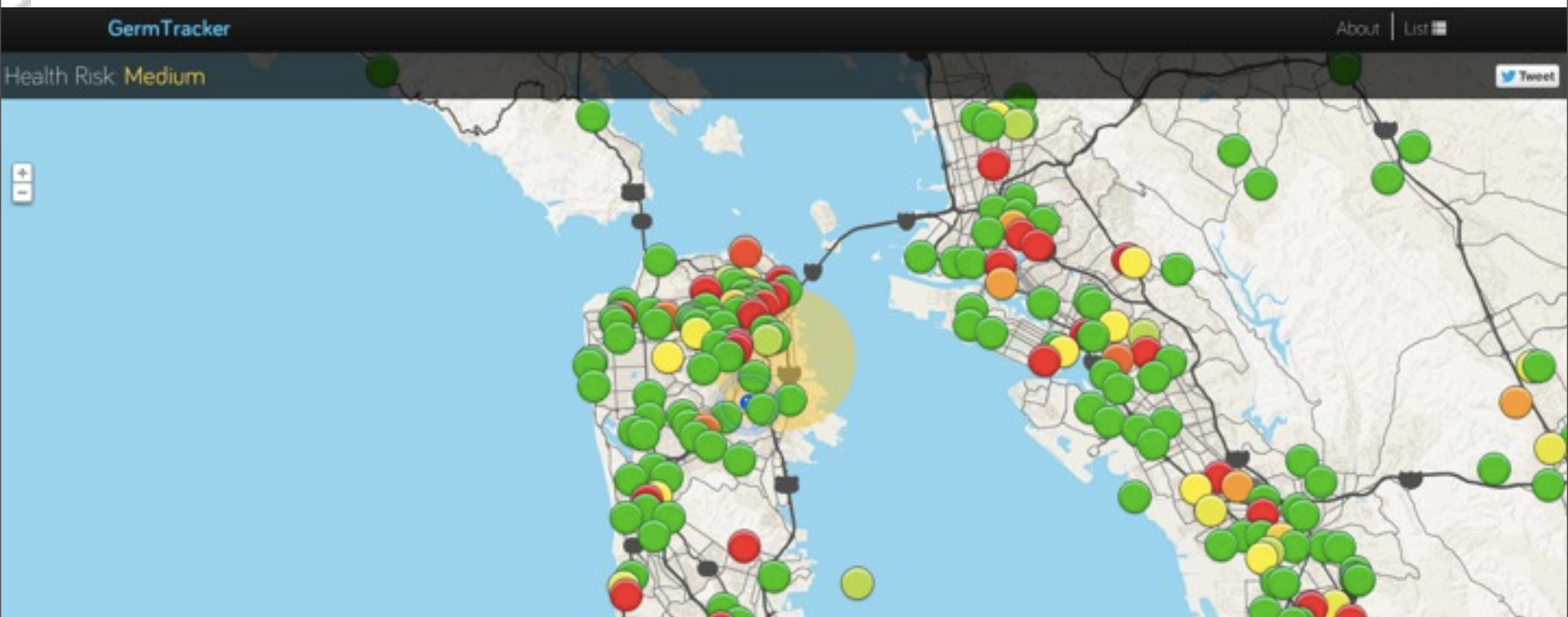
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Data



Data

