

# Netsmart Technologies

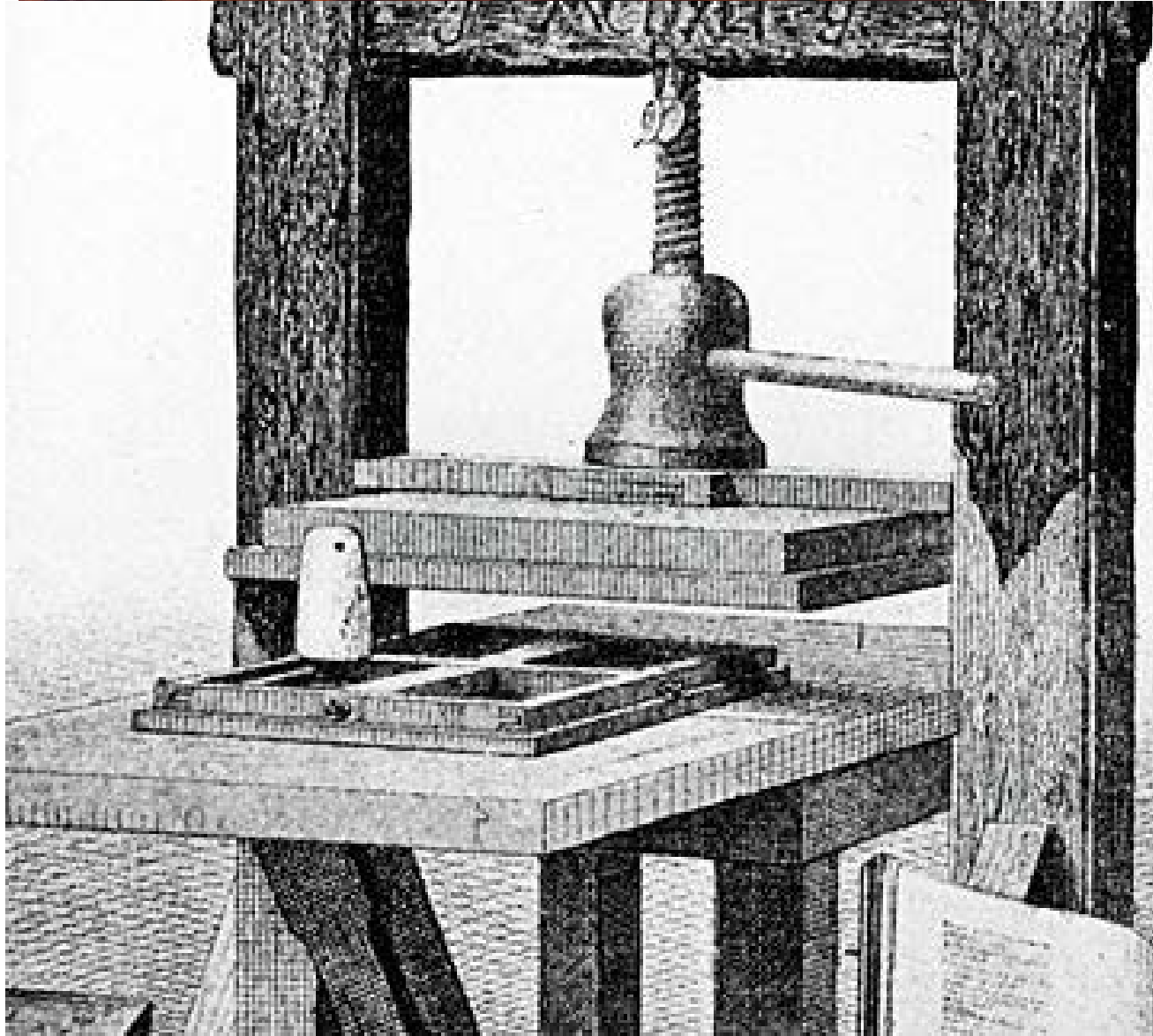


## Disruptive Innovation

Dennis Morrison, PhD  
Chief Clinical Officer  
@DrDennyM

What will be the most pressing problem in New York in 2000?







"Printed books will never be the equivalent  
of handwritten codices..."

In "In Praise of Copying" by 15th-century monk  
Trithemius



# Disruptive Innovation



"Clayton Christensen has done it again, writing yet another book full of valuable insights . . .  
*The Innovator's Prescription* might just mark the beginning of a new era in healthcare."  
—MICHAEL BLOOMBERG, Mayor, New York City

## The **Innovator's Prescription**

*A Disruptive Solution for Health Care*



**Clayton M. Christensen**  
BESTSELLING AUTHOR OF *THE INNOVATOR'S DILEMMA*  
Jerome H. Grossman, M.D. & Jason Hwang, M.D.

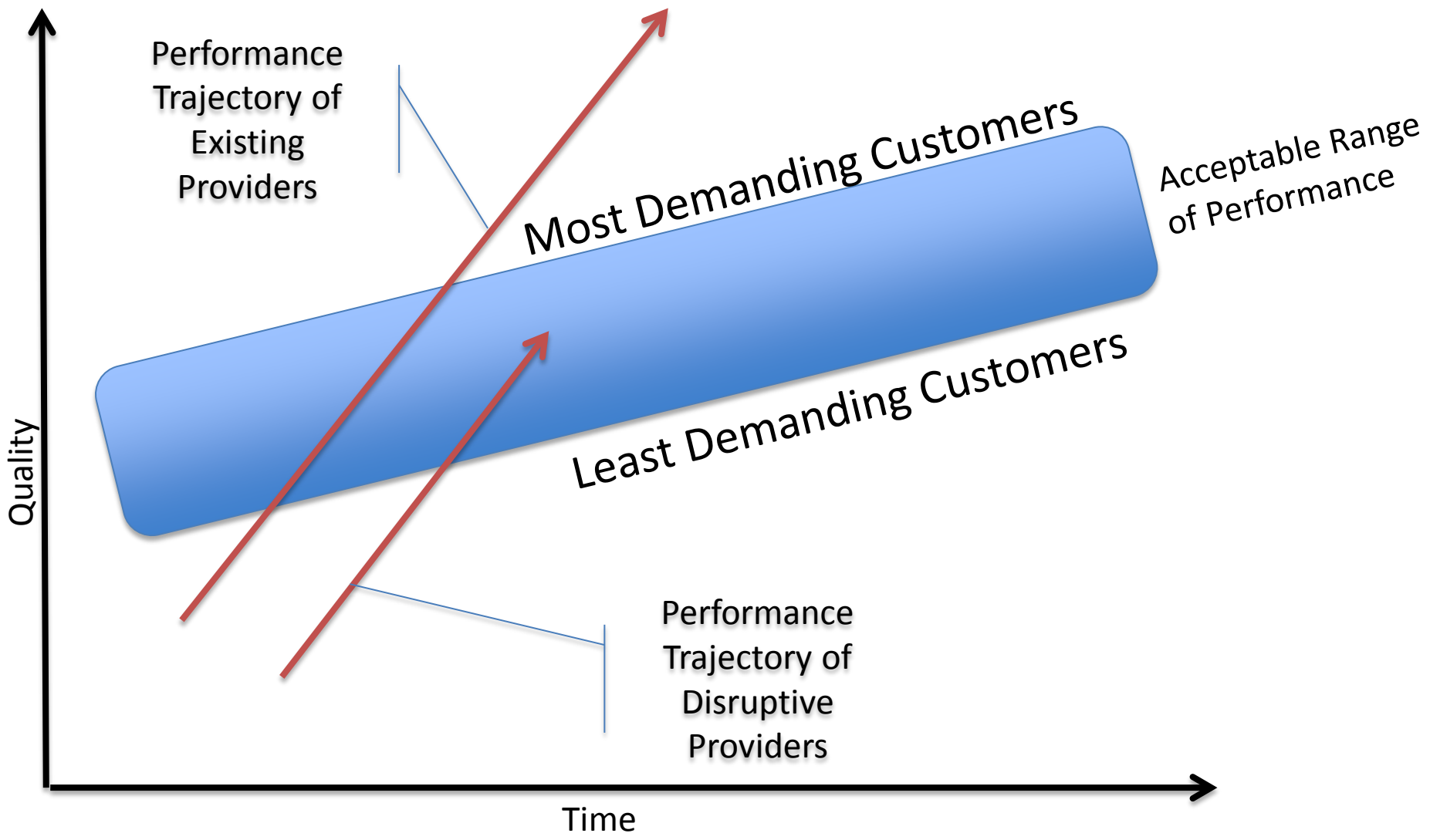


Dominant players focus on improving products  
or services

Yields over-engineered solutions

Simpler offerings are missed.

Will Disruptive Innovations Cure Health Care? CM Christensen, R Bohmer, and J Kenagy  
<http://hbr.org/web/extras/insight-center/health-care/will-disruptive-innovations-cure-health-care>







Incumbents feel threatened

These ~~Ward~~ activities keep the existing when  
in ~~Disruptive~~ structure is on ~~planning~~

Point out that quality is subpar

# Radio



"The wireless music box has no imaginable commercial value.

Who would pay for a message sent to nobody in particular?"



Heads of RCA in response to David Sarnoff's pitch for investment in radio



"TV will never be a serious competitor for radio because people must sit and keep their eyes glued on a screen; the average American family hasn't time for it."



[The New York Times](#), 1939



## What use could this company make of an electrical toy?



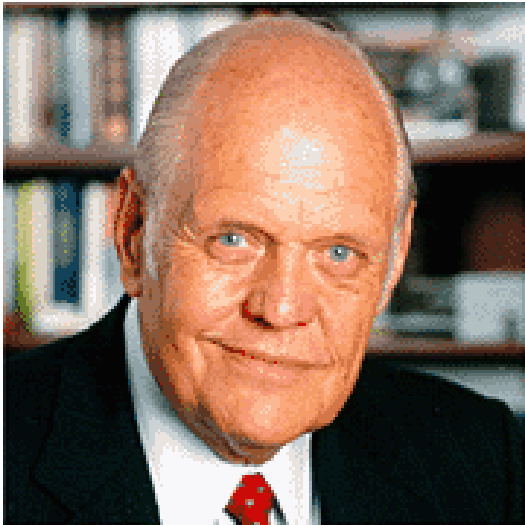
William Orton, President, Western Union  
when asked by Alexander Graham Bell  
to buy his struggling telephone company  
for \$100,000



# Personal Computers



There is no reason for any individual to have a computer in their home.



Kenneth Olsen, founder  
Digital Equipment Corp.  
1977

# iPhone



"There's no chance that the iPhone is going to get any significant market share.  
No chance."



Steve Ballmer, CEO,  
Microsoft  
April 30, 2007

# Resistance to Quantitative Methods in Medicine

*Not surprisingly, outraged [practitioners] questioned Louis's methods.*

*[One], for example, warned that mathematical calculations threatened to substitute "a uniform, blind and mechanical routine for the action of the spirit and individual genius of the [practitioners] artist."*

*-Research on the Effects of Bloodletting (1835) (in Millenson (1997))*







*Enabling less expensive people to do things that  
and the established health care institutions have  
were previously unimaginable has been one of  
the fundamental engines of economic progress*

Will Disruptive Innovations Cure Health Care? CM Christensen, R Bohmer, and J Kenagy  
<http://hbr.org/web/extras/insight-center/health-care/will-disruptive-innovations-cure-health-care>

Health care needs to be transformed



Less expensive professionals  
to do  
more sophisticated things  
in  
less expensive settings.

# Today's Disruptive Technologies



- Infomated Consumer
- E-Therapies
- PHRs and Portals
- Genomic
- Care Coordination and Health Homes



# The Least Expensive Provider Is No Provider





# Informed Health becomes Infomated Health



# Seeking Information

Health A-Z

Drugs &amp; Supplements

Living Healthy

Family &amp; Pregnancy

News &amp; Experts



WebMD Home &gt; Mental Health Center &gt; Depression Health Center

Save Email

Depression Trends: Depression Tests | Seasonal Affective Disorder | Panic Disorder | Postpartum Depression | Depression Symptoms | Childhood Depression

## Depression Health Center

### Getting Help for Depression

When you have depression, it's more than feeling sad. Intense feelings of sadness and other symptoms, like losing interest in things you enjoy, may last for a while. Depression is a medical illness, not a sign of weakness. And it's treatable.

To find out more, answer these questions.

Step 1

Are you:

- Feeling depressed, but haven't talked to a doctor?
- Just recently diagnosed and don't know what to do?
- Currently treating your depression?
- Stopped your depression treatment?

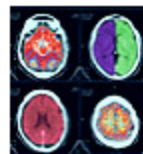
Step 2

Step 3

Next &gt;



### Today on WebMD



ARTICLE

[Negative Thoughts Dragging You Down?](#)

ARTICLE

[What Your Smile Says About You](#)

ASSESSMENT

[Easily Distracted? Check Your ADHD Symptoms](#)

ARTICLE

[Are You Getting Enough Sleep?](#)

QUIZ

[Why You Need Your ZZZs](#)

SLIDESHOW

[Can Exercise Boost Mental Health?](#)[I Think I'm Depressed >](#)

How to get help.

[I Just Got Diagnosed >](#)

Your next steps.

[I'm Getting Help >](#)[I've Stopped My Treatment >](#)



*You're going to be okay, we're here to help.*

**Alcoholism**  
**Anxiety & Panic**  
**Attention Deficit (ADHD)**  
**Bipolar Disorder**  
**Child Disorders**  
**Depression**  
**Eating Disorders**  
**Personality**  
**PTSD**  
**Schizophrenia**  
**Sexual Issues**  
**Sleep Problems**  
**Something Else...**

[Alzheimer's](#)  
[Autism](#)  
[Grief & Loss](#)  
[Parenting](#)  
[Psychotherapy](#)  
[Relationships](#)  
[Stress Management](#)

[DSM-5 Resource Guide](#)  
[Book Reviews](#)  
[Encyclopedia of Psych](#)  
[Internet addiction](#)  
[Mental Health Library](#)  
[Sanity Score](#)  
[Suicidal?](#)



[Technology](#) [Child's Relationship](#) [Committed Couples](#)

### News Headlines

- ♦ [ADHD Risk in Children Linked to Allergies, Asthma](#)
- ♦ [Close Grandparent-Adult Grandchild Bond Brings Mental Health Benefits](#)
- ♦ [Abused Girls May Have Obesity Issues in Adulthood](#)
- ♦ [Perception of Online Strangers Varies Depending on Circumstance](#)
- ♦ [Big Family Can Reduce Risk of Divorce](#)
- ♦ [Empathy Linked to Age Rather than Species](#)

### WHAT'S POPULAR

- ♦ [The Psychology of Workplace Leadership: Strong, Steady Transformation](#)
- ♦ [10 Tips to Cultivate Your Creativity](#)
- ♦ [Dr. Phil and Brian Williams: Will They Apologize?](#)
- ♦ [Common mistakes when arguing](#)
- ♦ [15 Hints for Effective Communication](#)
- ♦ [3 Ways that Technology Interrupts our Minds](#)
- ♦ [Paying For Treatment: Barriers And 4 Ways Around Them](#)
- ♦ [ADHD And The Self Fulfilling Prophecy Of Self Doubt](#)

### WHAT'S NEW

- ♦ [6. "Ain't Nobody Got Time For That!"- A...](#)
- ♦ [It's Not That You Fight, but How You Fight...](#)
- ♦ [ADHD And The Self Fulfilling Prophecy Of Self Doubt](#)
- ♦ [10 Tips to Cultivate Your Creativity](#)
- ♦ [Paying For Treatment: Barriers And 4 Ways Around Them](#)
- ♦ [Common mistakes when arguing](#)
- ♦ [Poem: Difference](#)
- ♦ [15 Hints for Effective Communication](#)

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[Mental Health Newsletters Archive](#)





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National Alliance on Mental Illness

- Mental Illnesses
- Treatment
- Support & Programs
- How You Can Help
- Find Your Local NAMI
- NAMIWalks
- Search  GO

- Research
- Advocacy
- Publications
- Events
- Convention
- Discussion Groups
- Newsroom
- STAR Center
- NAMI Store

username:

password:

**REGISTER** **SIGN IN**

myNAMI Account  
Forgot Login?  
Log Out

About Mental Illness  
Mental Illnesses  
**Treatments & Services**  
About Recovery

Home → Inform Yourself → About Mental Illness → Treatments & Services

SHARE | PRINT | E-MAIL | SAVE



# Treatment and Services



Most people diagnosed with mental illness can experience relief from their symptoms by actively participating in an individual treatment plan. Numerous treatments and services for mental illnesses are available. The choice and combination of treatment and services selected depends in most cases on the type of mental illness, the severity of symptoms, the availability of options and decisions determined by the individual, often in consultation with their health care provider and others. Most people with mental illness report that a combination of treatments, services and supports works best to support their recovery.

For more in-depth information about NAMI's views on policy topics check out [NAMI's advocacy page](#).

## Medications

Mental health medications do not cure mental illness. However, they can often significantly improve symptoms and help promote recovery and are recognized as first-line treatment for most individuals.

### Specific Medications

A list of information regarding specific medications.

### Long-acting Injectable Antipsychotic Medications (LAIs)

LAIs are an alternative to oral administration of medications.

### Ask the Psychiatric Pharmacist

NAMI is pleased to be working with the College of Psychiatric and Neurologic Pharmacists to bring you a new series called Ask the Psychiatric Pharmacist.

### National Institute of Mental Health

Information about psychotropic medication from NIMH.

### U.S. Food and Drug Administration Center for Drug Evaluation and Research

This federal agency's website has consumer information on drugs approved by the FDA since January 1998.

### Prescription Drug Assistance

Information on government programs, non-profit organizations and pharmaceutical companies offering free or low-cost medication.

## Services

An array of mental health services and supports are important to ensure recovery for most people living with mental illness.

### Case Management

A **case manager** coordinates services and supports to help you live successfully in the community.

### Employment

#### Supported Employment

NAMI's fact sheet on supported employment.

### Hospitalization

**Psychiatric hospitals** are designed to be safe settings for intensive mental health treatment.

### Housing

Lack of safe and affordable housing is one of the most significant barriers to recovery for people living with mental illness; a safe place to live is essential to recovery.

**The Continuum of Housing** refers to a full range of housing options, from supportive housing for the homeless to traditional homeownership and everything in between.

### Appropriate Housing: Four Criteria

Regardless of the type of housing option chosen, it must meet four criteria in order to appropriate and effective.





# Home Testing and Measurement



[EN ESPAÑOL](#)

[Products](#) | [Answers from Experts](#) | [Pregnancy Planning](#) | [Online Tools](#) | [YouTube](#)



## We Tell You First™ 6 days before your missed period.

A healthy pregnancy for you and your baby begins with early care. The sooner you know, the better.

[Learn More](#)



Our Products



Interactive Calculators



Expert Videos



Know Sooner



**SAVE \$2** on any **FIRST RESPONSE™** product

[CLOSE](#) (X)

## Tools & Resources



## All-in-one. Whole-hearted.

The Smart Body Analyzer measures weight, body composition, heart rate, and air quality.

[Learn More](#)

### Wireless Scale WS-30

Effortless weight tracking for everyone.



### Smart Kid Scale

First ever internet-connected baby and toddler scale.



## Blood Pressure Monitor

Easy and precise self-measurement of your blood pressure with your iPhone, iPad or iPod touch.



Intro Video

Discover

\$129.95



Blood pressure and heart rate

The Withings Blood Pressure Monitor offers all the information and insights you need to take control of your blood pressure.

[Learn more »](#)



Tailor-made for iOS

Specially created for iPhone, iPad and iPod touch, just plug it in and press to launch the measurement.

[Learn more »](#)



Your history, on hand

It automatically saves and displays your results for easy tracking and evaluation. Keep your history in your pocket and access it anywhere, anytime.

[Learn more »](#)



Share for greater care

Email your measurements history with a tap to keep your doctor in the know and seek professional advice.

[Learn more »](#)

# Propeller Health



The Propeller sensor keeps track of your medication use for you, with a record of the time and place you have used your inhaler.

# Proteus Smartpill



The system includes ingestible sensor-enabled tablets which relay information to a patch worn on the body.





Home

Scanadu Scout™

Scanaflo™

Blog



## Send your smartphone to med school.

Scanadu is building a suite of products using the elegance of science and the power of technology that will empower you to monitor your health – anytime, anywhere. Each product wirelessly and effortlessly connects to your smartphone, providing you with analytics and intelligence to live a healthier life.

Coming Soon to an app store near you.



# Mirror, mirror on the wall



Mirror automatically measures heart rate



# Physical Fitness and Training

BLACK

WHITE ICE

BLACK ICE

# NIKE+ FUELBAND LIFE IS A SPORT. MAKE IT COUNT.

See how active you are and get motivated to move more.

BUY



TRACK YOUR DAY



SET A GOAL



CONNECT AND GO

Like 42k

Tweet 3,857

+1 3k

Pinterest 2K+

## BAND + APP + YOU = THE UP SYSTEM

UP™ is a system that takes a holistic approach to a healthy lifestyle. The wristband tracks your movement and sleep in the background. The app displays your data, lets you add things like meals and mood, and delivers insights that keep you moving forward.



# Jawbone



## YOU, AT A GLANCE

Know what's happening with you, instantly: Your sleep, your activity, what you're eating. The Home Screen is your daily dashboard. A way to quickly check in with your progress and see what your friends are up to.



# Fitbit Aria

Tracks weight, body fat & more. It's one smart scale.



Dashboard

Log

Community

Premium

STORE



**!** Have questions about the new dashboard? [Learn More](#)

**TODAY** August 14

SYNCED: JUNE 18

Activity ?

STEPS CALORIES FLOORS



Steps



Friends



Fitbit is more fun with friends!

FIND FRIENDS

Calories ?



Distance / Miles



Very Active Mins ?





**Explore**  
Discover Features

**Shop**  
Buy Devices

**Maps**  
Find Content, Services & More

**Support**  
Get Help



**THERE'S A COACH  
IN EVERY WATCH.**





## Heart Rate

Avg HR: 137 bpm  
Max HR: 174 bpm  
Training Effect: 4.5

## Laps 1

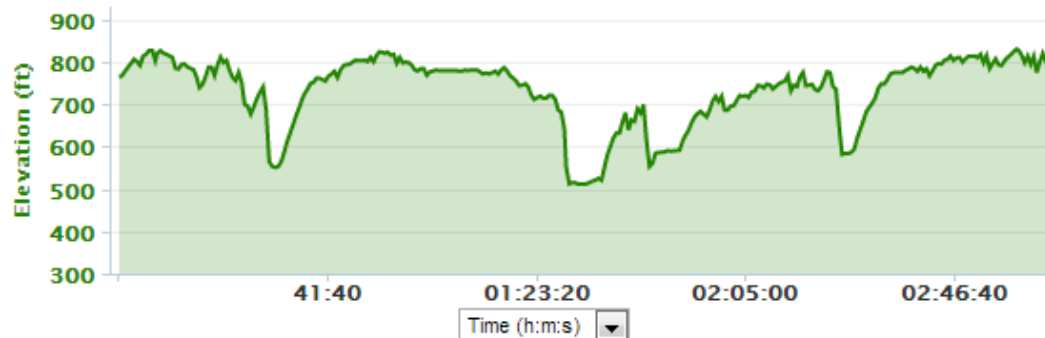
View Splits

## Weather

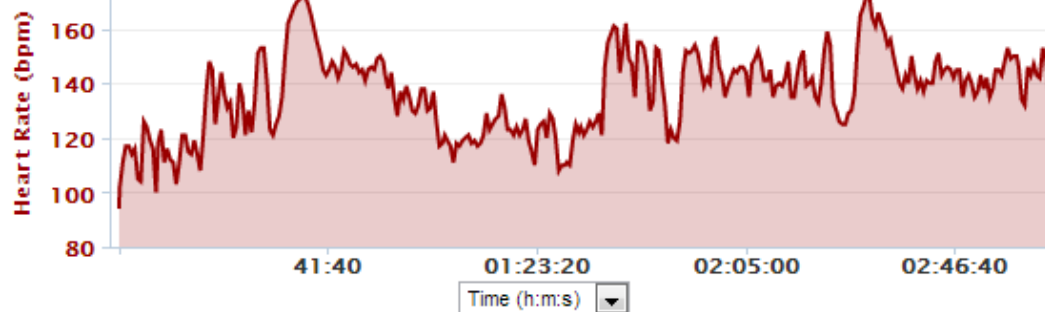
## Additional Information

## Timing

## Elevation



## Heart Rate



## Timing





# Never eat more than you can lift

- Miss Piggy





# Brain Fitness and Training

## HOW MYSTRENGTH WORKS

myStrength™ offers a range of resources to improve mental health and overall well-being: personalized eLearning programs to help overcome depression and anxiety supported by simple tools, weekly exercises, and daily inspiration in a safe and confidential environment. You can trust myStrength to provide proven resources based on the latest scientific research and clinical advice.

Sign up and get started today

Sign Up Today

## Getting Started

myProfile myJourney myInspirations Goals Mood Wellness Community Explore

### Complete the confidential Wellness Assessment.

Please read each statement and select the number (1 – 5) that best describes how much the statement applied to you OVER THE LAST WEEK. No need to spend a lot of time on any statement; just select your first response.

**Rating Scale:**

- 1 Did not apply to me at all
- 2 Applied to me to some degree, or some of the time
- 3 Applied to me a considerable degree, or a good part of the time
- 4 Applied to me very much, or most of the time
- 5 Applied to me very much, or most of the time

**Why We Are Asking?**

By taking 5 minutes to complete this 21 question Wellness Assessment, you will have:

- Helped yourself to receive the right wellness program.
- Set up your profile to receive personalized, effective exercises.
- Begun the process of strengthening yourself by establishing a baseline reference point.

I found it hard to wind down

I was aware of dryness of my mouth

I couldn't seem to experience any positive feeling at all

I experienced breathing difficulty (eg, excessively rapid breathing, breathlessness in the absence of physical exertion)

## Quick Wellness Assessment

With myStrength, you receive a free Wellness Assessment. This clinically-based tool, for rating depression and anxiety, will guide the selection of eLearning programs and personalized resources.



Brain products for everyday life

- [Online Assessments >](#)
- [Customer Account >](#)
- [Contact Us >](#)

- [About Us](#)
- [Brain Health & Fitness](#)
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# Brain Training Platform



My Brain Solutions

[Latest News](#)

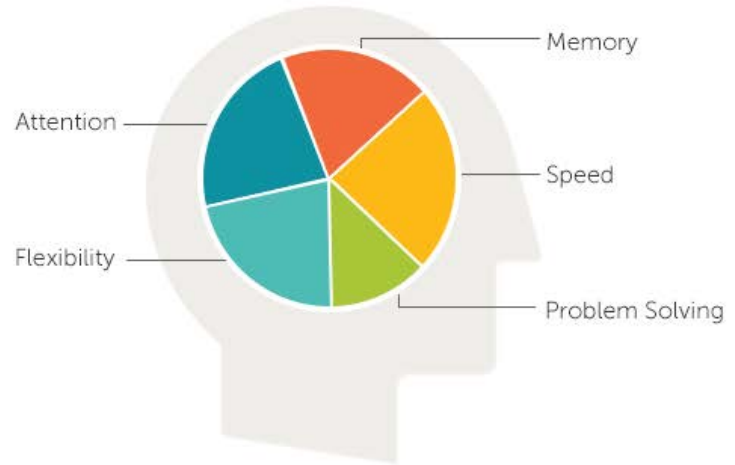
[Brain Videos](#)

# Improve your brain performance and live a better life

## Build your Personalized Training Program

- Enhance memory and attention
- Web-based personalized training program
- Track changes in your performance

**Get Started Now →**



## The Science Behind Lumosity



Lumosity exercises are designed by neuroscientists to improve core cognitive functions.



Researchers have measured improvements in working memory and attention after training.



Dozens of research collaborators help us to improve the Lumosity training program and its effectiveness.

**LEARN MORE ABOUT THE SCIENCE**



## What's the new role of health care providers when patients have more data?





# Eric Topol, MD

“...[the doctor’s] role will be progressively morphed into providing guidance, wisdom, experience on how to transform data and information to knowledge and judgment.”





# E-therapies



# What Can We Learn From These Guys?



Digital Natives... want it their way



# Adult use of social networking sites and Twitter—change over time

*% of adult internet users who use social networking sites or Twitter, over time*

## Social networking site use by age group, 2005-2012

*% of internet users in each age group who use social networking sites*

# Smartphones = Smart kids?



- 77% 12-17 yo
- 56% 8-12 yo
- 63% text daily
- 75% text while driving
- 28% inappropriate pics



<https://www.lookout.com/resources/reports/smartphone-family-guide>

# Amazingly...



- 25% of children ages 2-5 have a smartphone
- 40% of children 6-9 own one



<http://foxnewsinsider.com/2013/08/05/new-study-25-percent-kids-two-and-under-own-smartphones#ixzz2eM7Ze4J3>

# The sort of bad news



*Teens and young adults are frequently using social networking sites and mobile technology to express **suicidal thoughts and intentions** as well as to reach out for help.*

<http://psychcentral.com/news/2013/07/27/suicidal-teens-reach-out-through-social-media-not-suicide-hotlines/57679.html>

# The Bad News



When asked how they seek help

Least common responses:

- Talking to a health-care provider
- To a blog
- Calling a suicide prevention hotline
- Posting to an online suicide support group.

*Isn't this what we do?*





# CCBT and Clinical Social Media

Existing members login

Email or member name

Password

Forgotten your password?

Login

What's on your mind?

I feel afraid to say this to anyone I know

I can't put my feelings into words

I want to understand the way I feel

I want to talk with others who feel like me

I want to feel better

# What's on your mind?

Get through your troubles on Big White Wall. Be safe, open and anonymous. 95% of members say they feel better as a result.



What's on others' minds?

trauma



Sign up to wallpaper

Email address:

What is wallpaper?

Signup

Four ways to join

1. Enter your code

What's a code number?

Join

2. Or check if free in your area

Enter your full postcode

Free for your health service area?

Check

3. Or join for £24 a month

Join

4. Or free for

- Serving personnel
- Veterans
- Their families

Select one option and join

Join

Announcements



## The Leading Healthcare Behavior Change Platform Company



### Members

Join support communities to achieve your health goals.  
[How it works ▶](#)



### Employers

Reduce healthcare costs, improve productivity, and accelerate return to work.



### Health Plans

Create market differentiation and boost participation in programs.



### Providers

Maintain engagement, support patients and alumni, and reduce readmissions.



Buy Now

More Information



Download Leaflet

Find Out More

Videos



Overview

Demo

Feeling down or anxious? Beating the Blues 24/7 can help...



Beating the Blues® is an effective treatment for people feeling stressed, depressed, anxious or just down in the dumps. Based on Cognitive Behavioural Therapy, the course is made up of 8 online sessions which last approximately an hour and help you to understand the link between how you think and how this influences your feelings and behaviours. The program teaches strategies to help you cope better in the short term and workable skills for life so that you can face the future with confidence.

## An Effective Treatment

### You Are Not Alone

Depression and anxiety are extremely common. In fact, one in every five people is affected at some time in their lives. Depression and anxiety often go hand in hand, but they can occur alone too.

### An Effective Treatment Method

Cognitive Behavioural Therapy (CBT) has been used successfully for many years to treat anxiety and depression. Results are quick and extremely effective if people work through the program and carry out weekly projects in between sessions.

“

*Definitely give it a go; I think it's been really useful.*

”

Technology » Science & Space ■ Shop for Gadgets

## Depressed astronauts might get computerized solace

Posted 10/25/2008 12:29 AM | Comment | Recommend

E-mail | Print |



Enlarge

By Jim Cole, AP

Dartmouth psychologist Dr. Mark Hegel poses in his office Oct. 24 with his laptop in Lebanon, N.H. Hegel is working on a computer program, "The Virtual Space Station," that will guide astronauts through treatment for depression and other problems while in space.

BOSTON (AP) — Your work is dangerous and your co-workers rely on you to stay alive. But you can never get far from those colleagues. You can't see your family for months, even years. The food isn't great. And forget stepping out for some fresh air.

No wonder the adventure of space flight can also be stressful, isolating and depressing. So scientists are working on giving a computer the ability to offer some of the understanding guidance — if not all the warmth — of a human therapist, before psychological problems or interpersonal conflicts compromise a mission.

Clinical tests on the four-year, \$1.74 million project for NASA, called the Virtual Space Station, are expected to begin in the Boston area by next month.

The new program is nothing like science fiction's infamous HAL, the onboard artificial intelligence that goes awry in "2001: A Space Odyssey." The Virtual Space Station's interaction between astronaut and computer is far less sophisticated and far more benevolent.

In the project, sponsored by the National Space Biomedical Research Institute, a recorded video therapist guides astronauts through a widely used depression therapy called "problem-solving treatment."

The recording helps astronauts identify reasons for their depression. Then the program helps them make a plan to fight the depression, based on the descriptions the astronauts type in about their problems.

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CONTACT

Enter search term(s)

SEARCH

## HEALTHY BEHAVIOR THROUGH TECHNOLOGY

Inflexion® develops scientifically-based, interactive technologies that help people improve their lives through behavioral change. Pharmaceutical and biotechnology companies, healthcare professionals, and educational institutions rely on Inflexion for online interactive programs that: reduce health-related risks, enhance clinical outcomes, and positively influence quality of care.



### PHARMACEUTICAL RISK MANAGEMENT



Inflexion offers a comprehensive array of pharmaceutical risk management programs and consulting services to companies that develop and market opioids and stimulants. Our services help pharmaceutical companies meet the FDA's risk management requirements.

We assist in the planning and implementation of strategies for balancing the inherent risks of these drugs with their valuable benefits. Our interactive, scientifically-validated programs can be customized to meet your needs. [more...](#)

STUDENT HEALTH

SUBSTANCE ABUSE


CONSUMER HEALTH



# PHRs and Portals

# Microsoft HealthVault

**Dennis**



Edit  
Add a person +  
Switch person v

Home > Health information

## Dennis's health information

More actions ▼

### Conditions

- Allergy +
- Condition (2) +
- Medical Device +

### Measurements

- Blood Glucose Measurement +
- Blood Pressure Measurement +
- Cholesterol Measurement +
- Height Measurement (1) +
- Lab Test Results +
- Peak Flow Measurement (100+) +
- Sleep Session (40)
- Weight Measurement (3) +

### Custom Data

- Application-Specific Information (100+)

### Files

- Continuity of Care Document (CCD) (1) +
- Continuity of Care Record (CCR) +
- Documents (File) (4) +
- Medical Image Study +

### Fitness

- Dietary Intake +
- Exercise (100+) +

### Medications

- Medication (4) +

### Personal Profile

- Basic Demographic Information (1)
- Emergency or Provider Contact (1) +
- Insurance Plan +

#### HEALTH VIEWS

- Emergency profile
- Weight management

- Home
- Health information
- Apps & Devices
- Sharing



# Netsmart myHealthPointe

mHP Wednesday August 14, 2013 | Feedback | Help | Logout



Home Messages Appointments Medications Forms Insurance Statements My Health Record Accounts

Mark Smiley



Switch Account

- Add to Homepage
- View My Account
- View My Chart
- Print My Chart
- Generate CCD
- Setup Notifications

Practice Pages

- NW Human Services
- IntelliChart

## Quick Links

- Request an Appointment
- Refill a Medication
- Send a Message

## Medications

Name	Start Date	Prescribed By	Source
IBUDONE	5/10/2013	John Bailey	Community Physician Group
AMOXICILLIN	5/7/2013	Ricki Riddle	Community Physician Group
LIPITOR	5/7/2013	Ricki Riddle	Community Physician Group
LIPITOR	6/3/2010	James Smith	Community Physician Group
PRINIVIL	6/3/2010	James Smith	Community Physician Group

## 9 Appointments

Date / Time	Location	Provider	Patient
Wed, Aug 14 2013 @ 1:30 PM	Main Street	Brenda Dianos	Mark Smiley
Wed, Aug 21 2013 @ 1:30 PM	Main Street	Brenda Dianos	Mark Smiley

## Statements

Date	Provider	Balance
4/26/2010	Community Physician Group	\$15.38
9/18/2008	Community Physician Group	\$53.00
9/4/2007	Community Physician Group	\$8.08
8/6/2007	Community Physician Group	\$85.82
4/9/2007	Community Physician Group	\$35.00

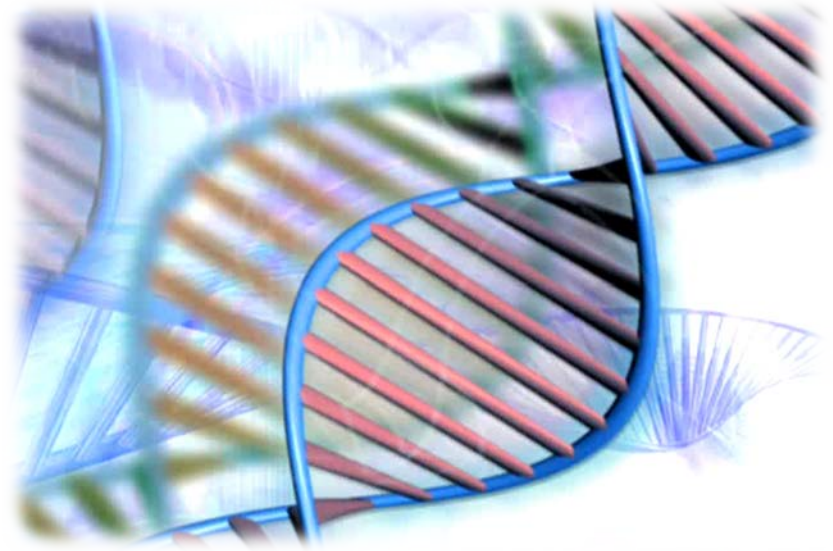
WebMD Health via MedWorm.com

### How Much Of A Subsidy Will You Get In Obamacare? Here's An Estimate

- 4 hours ago  
(Source: WebMD Health)

### Alzheimer's Research Takes a New Turn

- 22 hours ago  
Study suggests that gummed-up synapses -- not plaque -- may be at the root of aging brain diseases (Source: WebMD Health)



# Genomics



# Personalized Care

Entire genetic sequence can be run in one day for \$1,000.

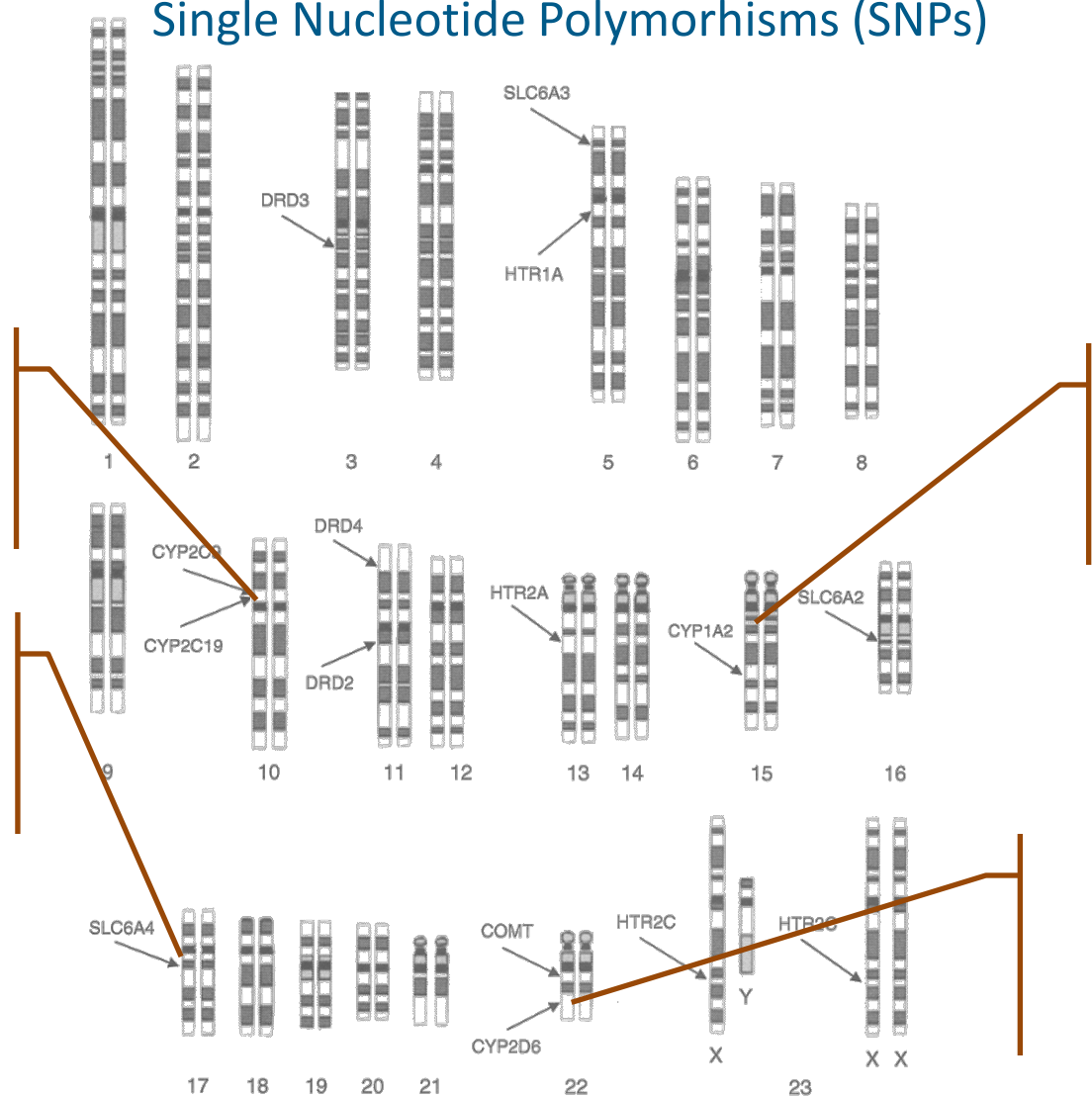


Sequencers (Credit: Life Technologies Corporation)

# Fourteen Genes Relevant to Mental Health



## Single Nucleotide Polymorphisms (SNPs)



**CYP2C19:** Citalopram,  
TCA, PPI, Plavix

**CYP1A2:** clozapine,  
olanzapine,  
fluvoxamine

**SLC6A4:** Various  
antidepressant  
medications

**CYP2D6:**  
Risperidone,  
narcotics  
(codeine,  
hydrocodone,  
tramadol),  
Tamoxifen, Effexor

From: Mrazek, DA. Psychiatric Pharmacogenomics. Oxford University Press (2010)



HOME

MY RESULTS

FAMILY & FRIENDS

RESEARCH & COMMUNITY

## HEALTH OVERVIEW

23andMe Discoveries were made possible by 23andMe members wh

SHOW RESULTS FOR

### Health Risks (122, 1 locked report) ?

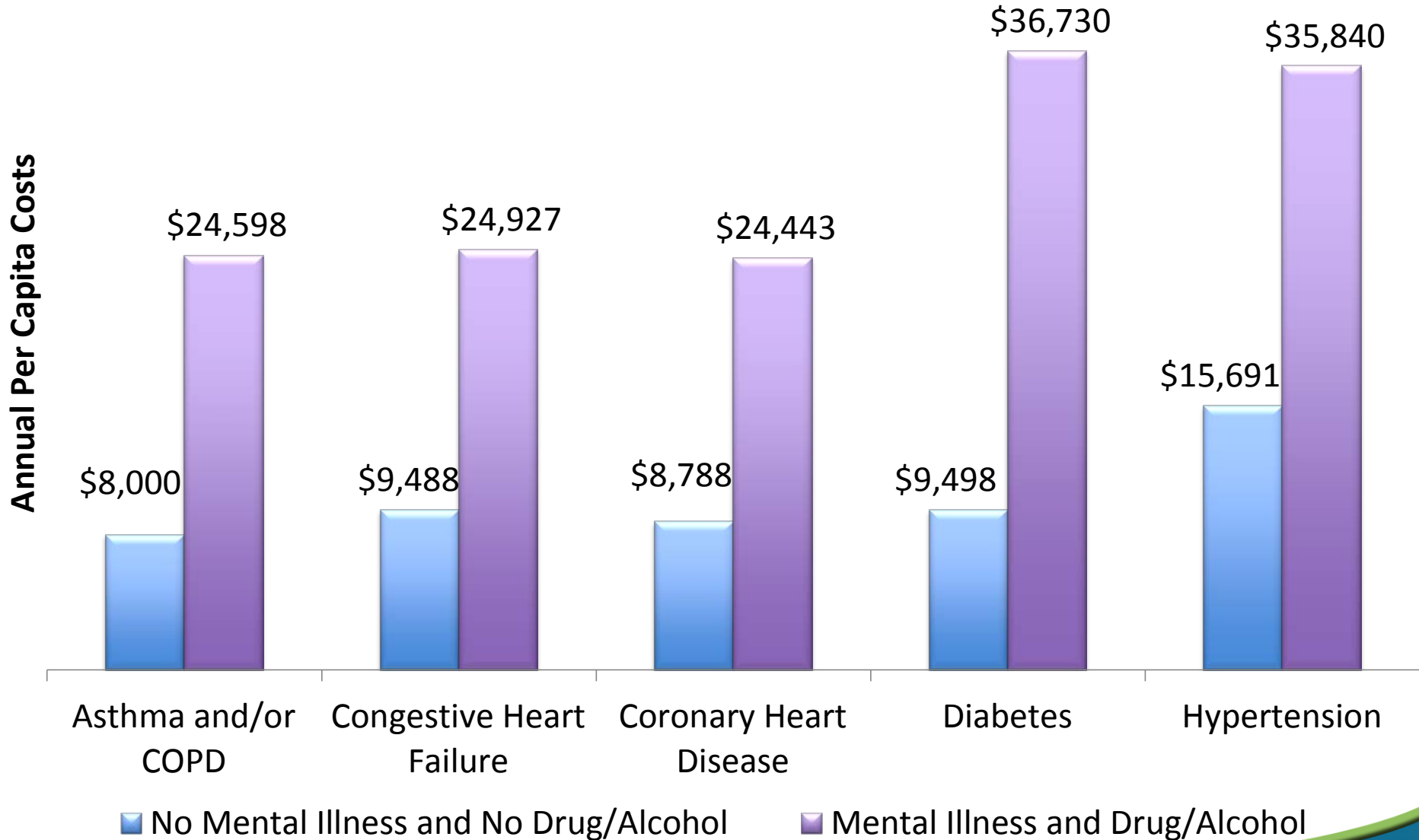
ELEVATED RISKS	YOUR RISK	AVERAGE RISK
Gout <span>new</span>	30.7%	22.8%
Ulcerative Colitis	1.3%	0.8%
Crohn's Disease	0.84%	0.53%
Esophageal Squamous Cell Carcinoma (ESCC)	0.56%	0.36%
Stomach Cancer (Gastric Cardia Adenocarcinoma)	0.42%	0.23%

[See all 122 risk reports...](#)

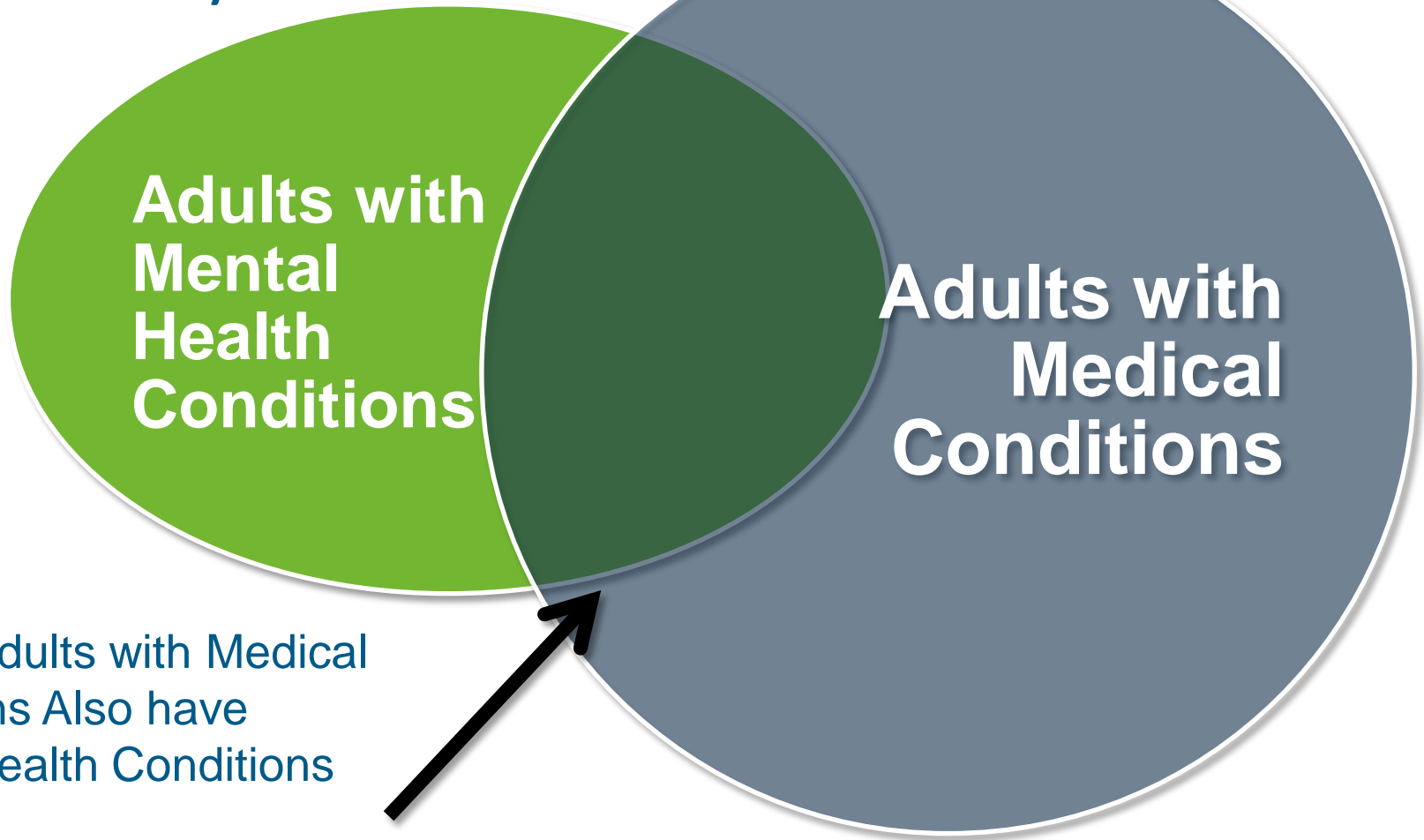


# Care Coordination and Health Homes

# Impact of Behavioral Health Co-Morbidities on Medicaid Costs



# Opportunity



29% of Adults with Medical Conditions Also have Mental Health Conditions

68% of Adults with Mental Health Conditions Also Have Medical Conditions

Robert Wood Johnson, 2011 –Mental Health Comorbidity



# Innovations Designed To Improve Care & Reduce Costs



- Health Homes
- Integrated Care Organizations
- Dual Eligibles
  - BH
  - Elderly
  - Physically disabled
- I/DD Care Coordination
- Managed Foster Care



# Fundamental Change in Orientation



Needs of the patient



Needs of the population

Support of the individual provider at the point of care



All providers across the spectrum of care

Treatment of chronic disease



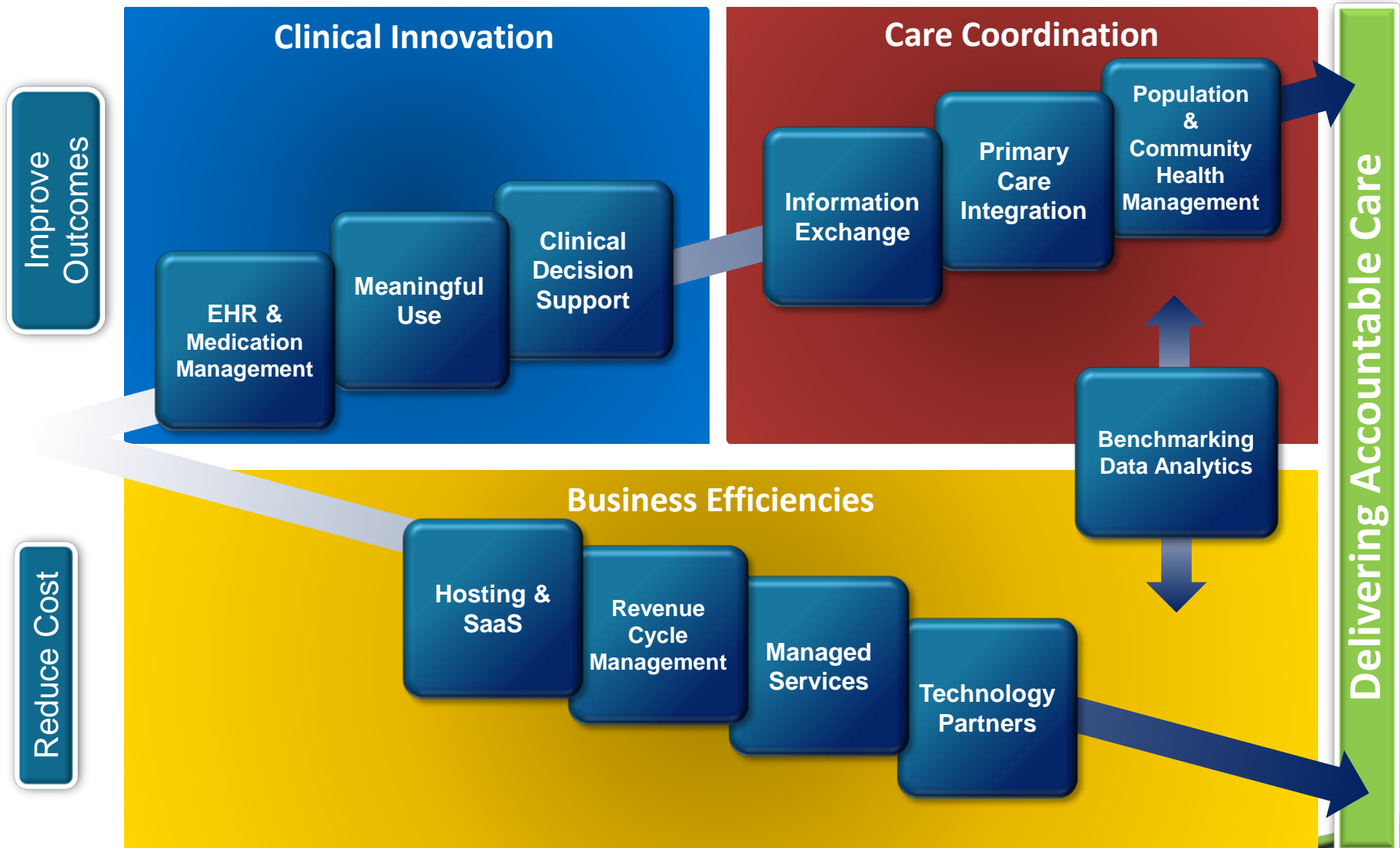
Management of chronic disease

Islands of automation

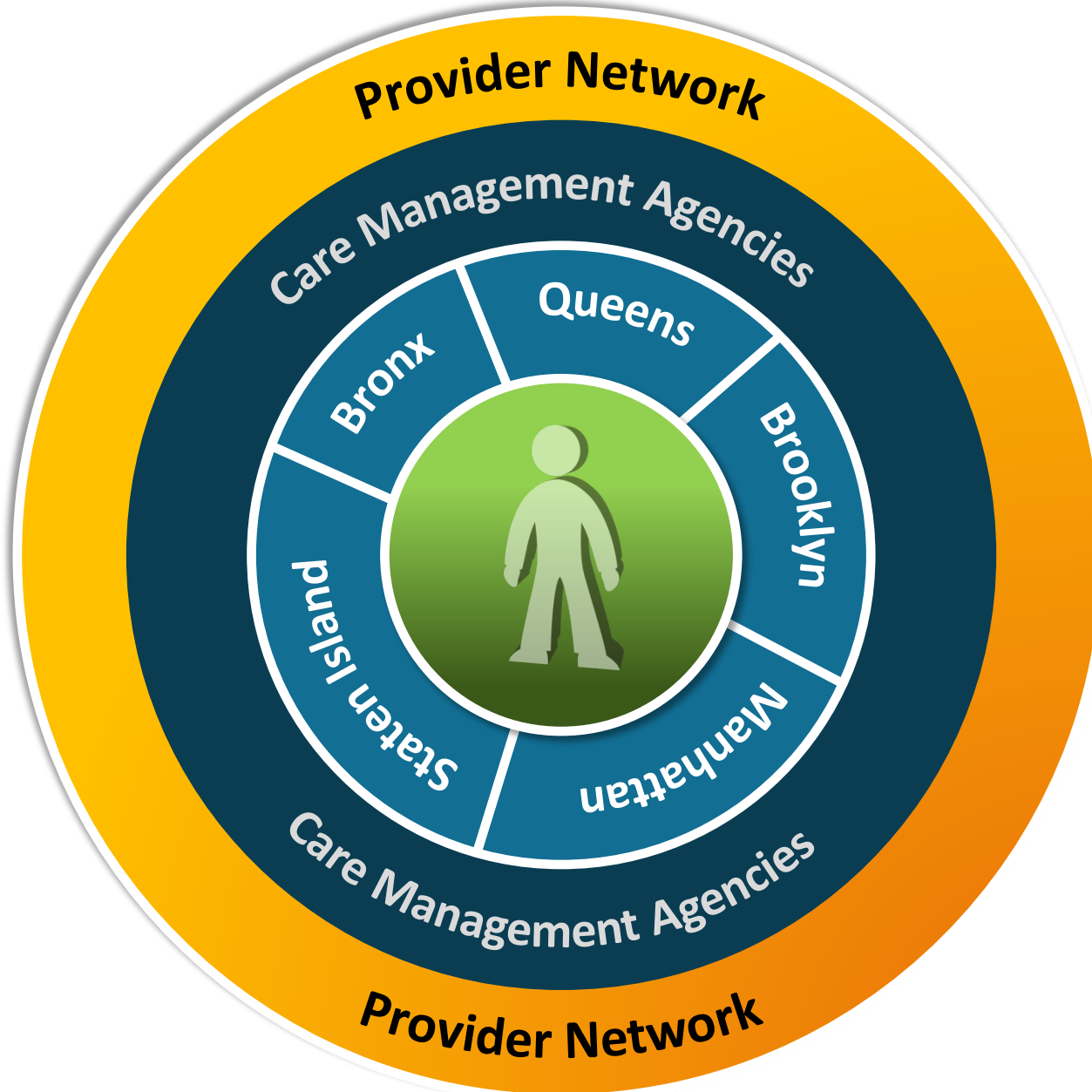


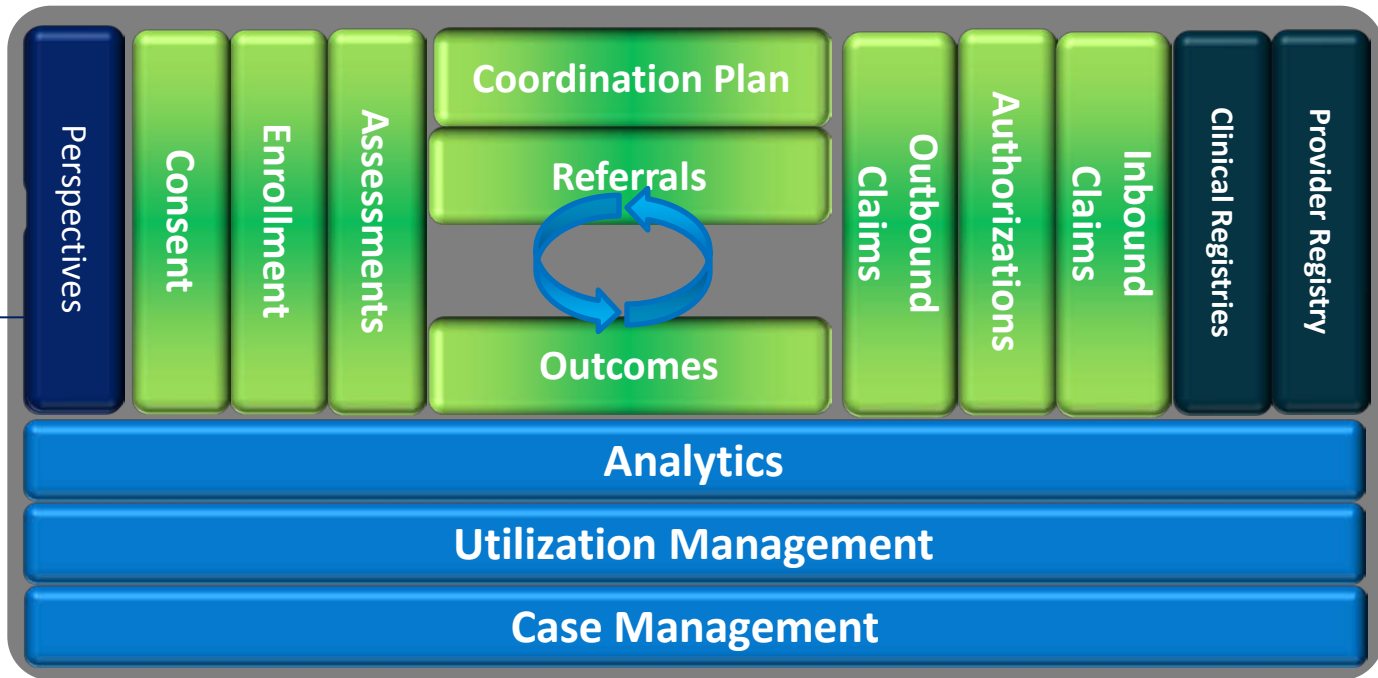
Integrated information access across providers, settings & activities

# Steps to Driving Accountable Care

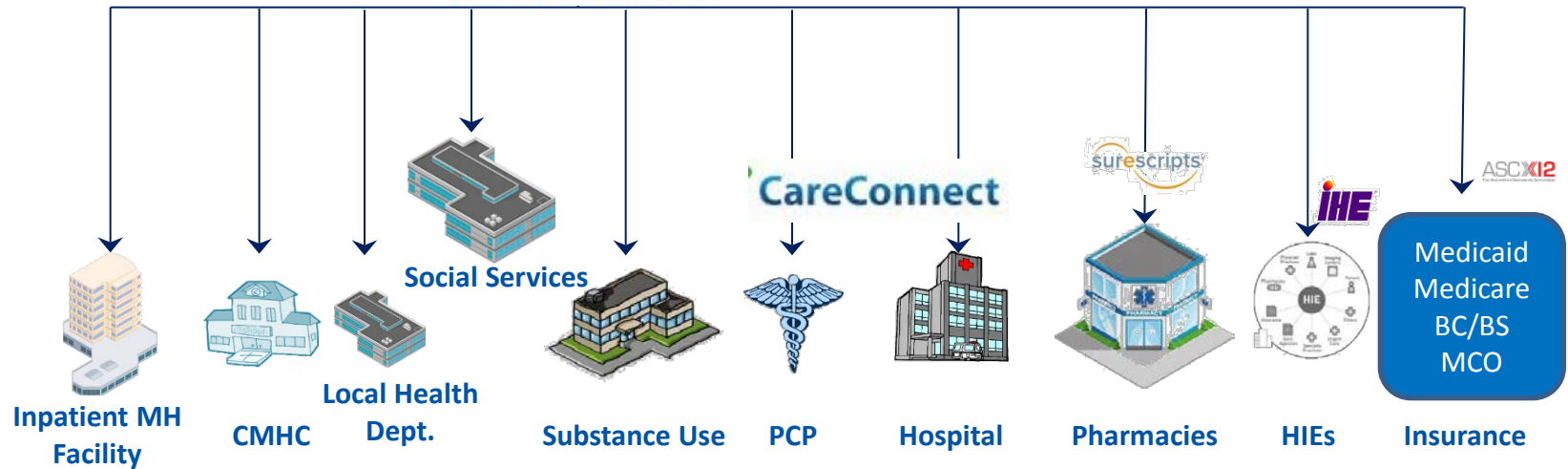


# Coordinated Behavioral Care





CareConnect



Consumer

Inpatient MH Facility

CMHC

Local Health Dept.

Social Services

Substance Use

CareConnect



PCP



Hospital

surescripts



Pharmacies



HIEs






Medicaid  
Medicare  
BC/BS  
MCO

Insurance

**Dashboard**

- Alerts
- Missed Medication Refills
- Missed Appointments
- Arrests

Client List + New Client

- Search all clients...
- Filter by: **Completed** Recent Search Client
-  **Colter, Michelle**  
ID: A57842541258968 DOB: 8/15/1979 ↑  
Chart Notes
  -  **Darwinovinch, Michael**  
ID: A57842541258968 DOB: 8/15/1979 ↑  
Chart Notes
  -  **Edmunson, Charles**  
ID: A57842541258968 DOB: 8/15/1979 ↑  
Chart Notes
  -  **Frankfurter, Francine**  
ID: A57842541258968 DOB: 8/15/1979 ↓  
Chart Notes
  -  **Gershon, Daniel**  
ID: A57842541258968 DOB: 8/15/1979 ↓  
Chart Notes

Dashboard

**Alerts**

- 2 ER Visits
- 2 Missed Medication Refills
- 0 Arrests
- 1 Missed Appointments
- 7 Potential Gaps in Care/Other Health Factors

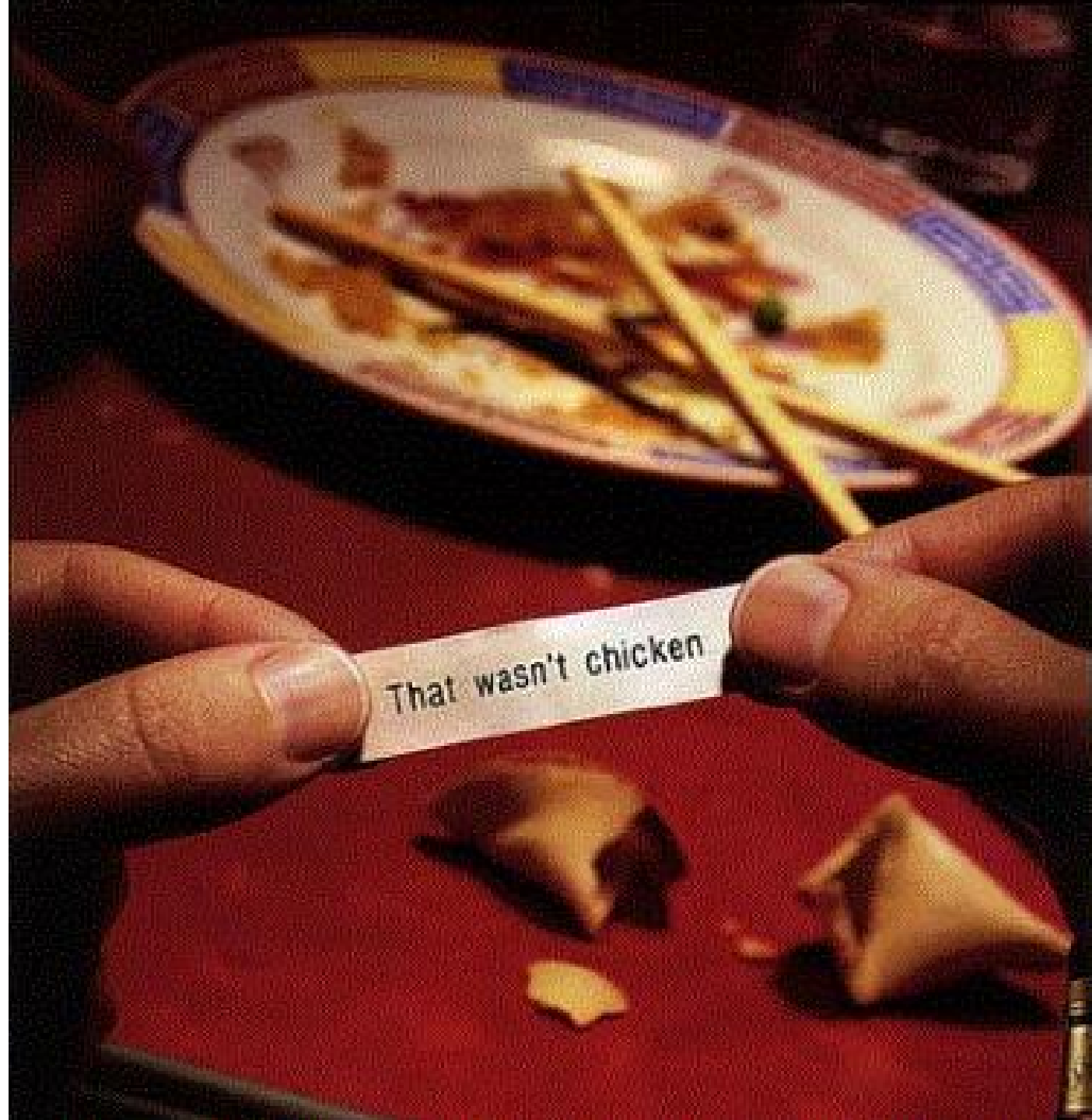
Client Name	Med Name	Refill Date	Alert Date	Actions
Williamson, Samantha	Prometrium	02/14/2012	03/14/2012	<span>+</span> New Task <span>×</span> Dismiss
Smith, John J.	Albuterol	02/19/2012	10/30/2012	<span>+</span> New Task <span>×</span> Dismiss

Appointments

**Tasks** + New Task

Filter by: Last 7 Days, Overdue, In Progress

Due Date	Task	Contact(s)	Activity	Status	Actions
10/24/2012	Contact ER for documentation and Jeremy Bond's follow-ups	Daniel Johnson, James Smith, Jery Thompson	Add Contact Note	Waiting on Contact	<span>🔗</span> Edit
10/24/2012	Face-to-face meeting	Frank Timerando	Add Care Note	In Progress	<span>🔗</span> Edit
11/09/2012	Follow-up with Primary Care Physician	Janic Hycheck	Add Contact Note	In Progress	<span>🔗</span> Edit
11/30/2012	Update Demographics	Timothy Green	Update Demogra...	Completed	<span>🔗</span> Edit



That wasn't chicken



“In the midst of chaos,  
there is also opportunity”

— Sun-Tzu





## Americans

I love the American people, they always  
do the right thing  
after they have tried everything else.

Winston Churchill







Pivot  
(piv·ot /'pivət)

Verb:

Pivots i *Turn on or as if on a pivot. ace as you shift the other in a new direction.*

New ventures capitalize on what they know and value and apply these insights in new areas.



# It's time to pivot

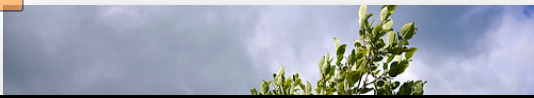


*The best time to plant a tree was  
20 years ago.*

*The second best time is now.*

*– Proverb*





"If at first, the idea is not absurd, then there is no

# STEVE JOBS



"I want to put a ding in the universe."

mead

great idea that inspires no one." -

Mary Kay Ash



# Thank You

Dennis Morrison, PhD

Chief Clinical Officer

Netsmart

[dmorrison@ntst.com](mailto:dmorrison@ntst.com)

Twitter: @DrDennyM



[YouTube TEDxBloomington](https://www.youtube.com/watch?v=zQbtDaJCi0M)

<http://www.youtube.com/watch?v=zQbtDaJCi0M>