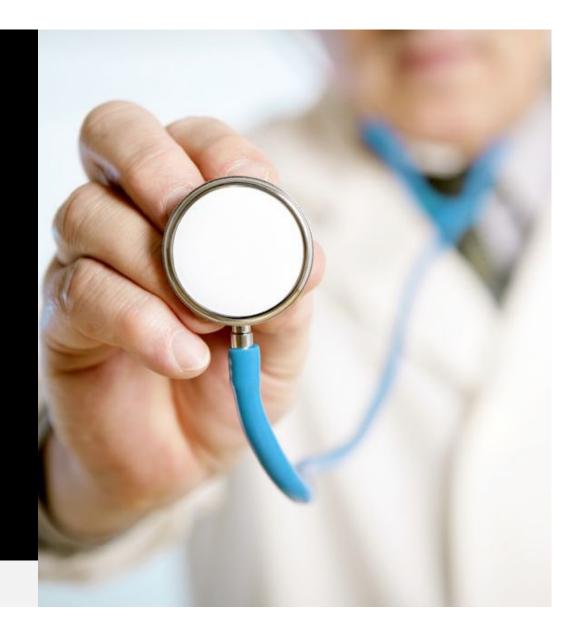
Whole Health

PREVENTION IS THE CURE



Family Medicine & Public Health

Risk Management: 1990-2003



Det Norske Veritas

Founded: 1864

HQ: Høvik Norway

Offices: 100 countries

Customers: 100,000

Government - Industry services to regulate safety, improve processes & to protect natural resources

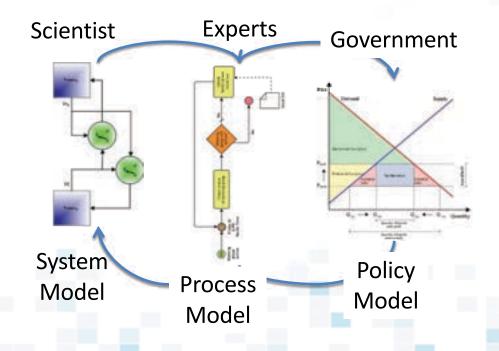
Advocates Social Responsibility

Risk, Process & Regulatory Policy

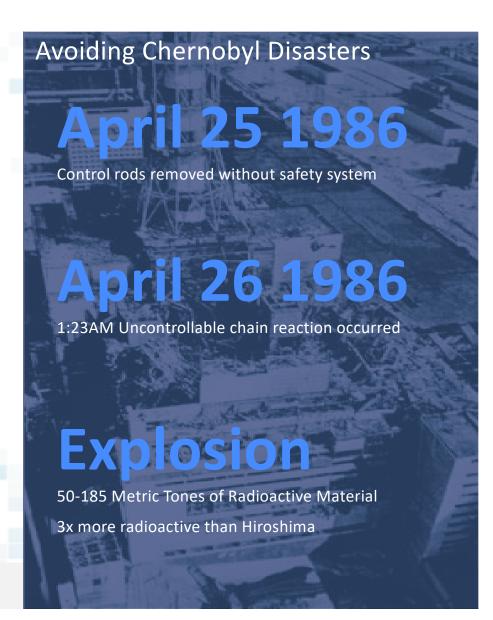
Passion for modeling systems and their connection to other systems... outcomes & risk

Dynamic System Modeling

SYSTEM-SYSTEM MODELS



Regulatory Policy & Industry Best Practice



Expert in Healthcare Utilization



Broken Bones

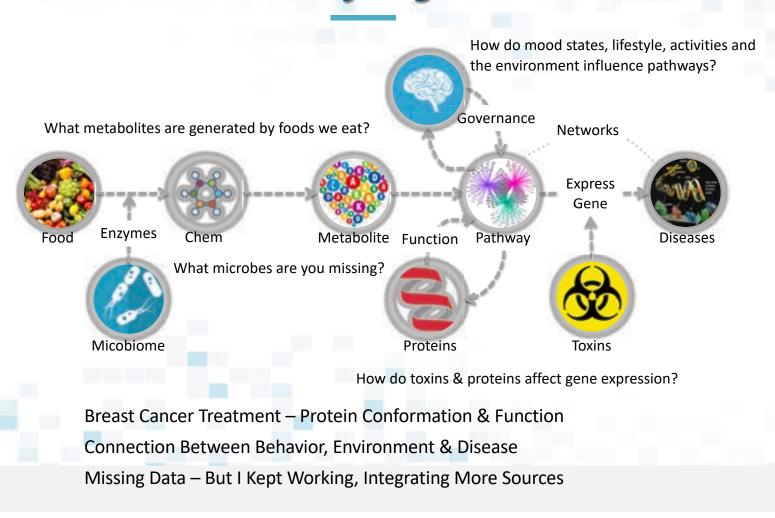






Sea Creature Injuries

Healthcare Journey Begins: 2004-2007



Various Projects: 2008-2015





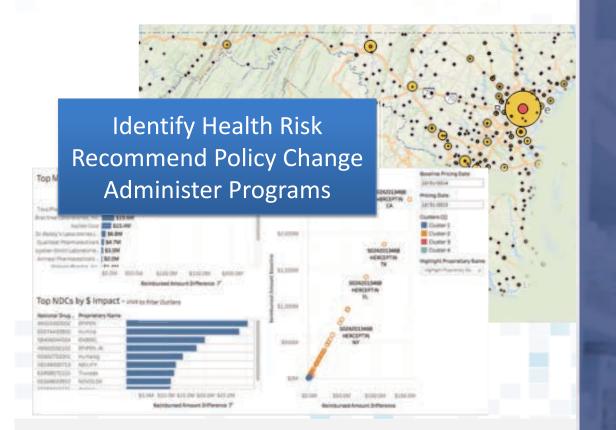




Institutional Care

Community Care

Xerox Government Healthcare Services



Health Informatics

26 States

Health & Social Services and Medicaid

48 million

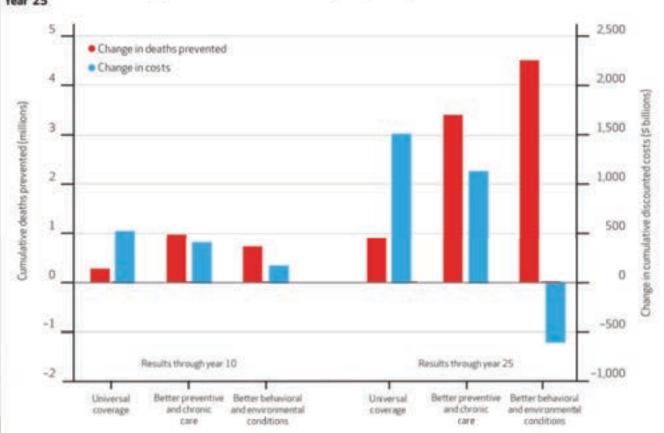
Medicaid & Medicare Beneficiaries

1.3 petabytes

Medical & Pharmacy Claims Data

Healthcare Policy Strategies





Milstein, et al. (2011) https://www.healthaffairs.org/doi/full/10.1377/hlthaff.2010.1116

Government Healthcare Strategy

The Federal Government's Plan for Healthcare is ???... No one knows



46 States Are Using Waiver Programs to Innovate Locally

Source: Osher Wheel of Health - https://www.oshercollaborative.org/clinical-care

BP 2 ½ Years Ago

Max 148 mm Hg

Systolic Pressure Under Stress



135 mm Hg

Systolic Pressure

BP Now

Max 128 mm Hg

Systolic Pressure Under Stress



112 mm Hg

Systolic Pressure

My Experience

Surf daily as needed

SECURITY FEATURES LISTED ON BACK

METER LIST AND

SECURITY FEATURES LISTED ON BACK

METER LIST AND

GENCIEN

ACCORDESS

PH. NO.

Quantity

11-24 175-100

125-48 1101-150

150-74 1151 and over

Unit

Reflix: 0-1-2-2-4-5

1 Do for Substitute

Install

Disperses At:

1 First Time Fill Reflix

Bellix: 0-1-2-2-4-5

1 Do for Substitute

Install

Disperses At:

1 First Time Fill Reflix

Bellix: 0-1-2-2-4-5

1 Do for Substitute

Install

Bellix: 0-1-2-2-4-5

Install

Bellix: 0-1-

Some Impact
Whole Food Diet
CrossFit Exercise

Big Impact
Downhill Bike
Surfing
Yoga & Meditation
Ashwagandha
Probiotic

Back-to-Basics Community Health

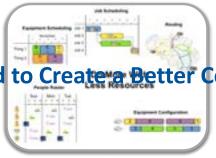
Health Risk Identification Resources Utilization

Optimize Treatments

Options for Sustainability

Data Science









Freatments



Community Sustainable Agriculture Community Wellness



Integrative



Integrative Medicine



Environmental Toxin Reduction

Whole Health Project Begins: 2018

Holistic Screening & Diagnostics

Health Works

System Physiology Behavioral Environmental Holistic Treatment Optimization

Primary Care

Enjoyable Activity Missing Nutrients Remove Toxins Manage Stress Healthcare Policy Simulation

Government

Better Utilization Local Care Gaps Policy Strategy Cost Saving

Better Community Health Delivery System

Whole Health Partnerships

Kentucky Medicaid - Avoidable Hospital Admissions (5yr. prediction)



\$1.06B Diabetics Med Costs Modifiable Complications Saving 5% = \$53M yr.

Patients with +7 yr. history ~2M CMS diabetic patients Survival Analysis +25% Population

Depression – Top Predictor

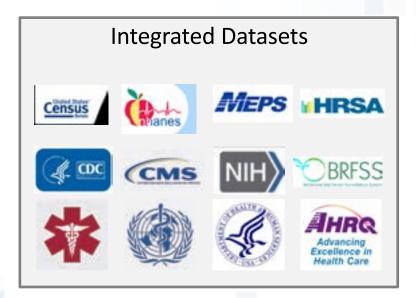


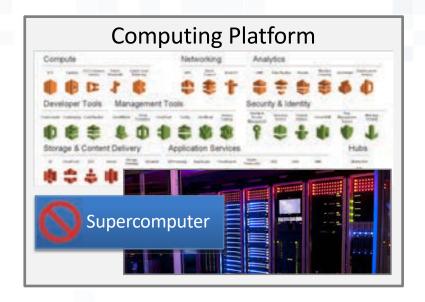
Added Holistic Dimensions

Stress & Mood Disorders
Relationships & Community
Environmental Conditions
Access to Nutrients & Food

The Whole Health Platform

Focused on Community Health Delivery Innovation





~\$2.5 – \$5.0 Million Cloud Platform State Partnership Studies University Innovate Partnerships

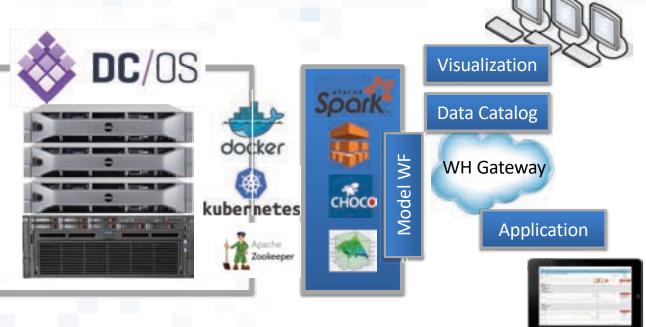




Counter-Offer

Technology Architecture

\$\$,\$\$\$



Researchers

Health Works

- - -

PDB

hmdb

CMS

Meta Data

Database

Raw Data



Research IT Help

- They helped us come up with a technology architecture
- helped us put in place the security approvals we needed for our datasets
- connected us to SGCI to help us manage the technology work and get
 CS resources to write code
- connected us to SDSC data center to host our servers for the project
- connected us to IT people and helped move the process along for
 network setup

And They did this all for FREE

Current Status











- Building the Platform SDSC Center
- AHRQ Grant Community + Behavioral Health
- Working on Industry Partnerships
- Planning to Approach State DHSS for POC
- Planning to Add University Collaborators

Creating new standards for **Integrated Primary Care** that connect community health to the primary care system. Partnered to develop distributed decision support models that improve **community based screening & diagnostics**.

Developed a **community based public healthcare system** that uses community health workers & clinics to deliver preventive care. Partnered to improve the technology available to CHW for **better preventive delivery**.

The simple idea of preventing chronic disease

"An ounce of prevention is worth a pound of cure."

Benjamin Franklin

Imagine such a simple concept in healthcare "keep people healthy so they use the high cost healthcare services less"



Michael Goldsby, Ph.D.

Health Informatics

& Surfer



Tamara Goldsby, Ph.D. Behavioral Medicine



Paul Mills, Ph.D.
Family Medicine
& Surfer



Madison Haines
Informatics Student



Mona Wong-Barnum, M.S.
Computer Scientist



Mark Fleischman

Computer Scientist

& Surfer