

# Building a Digital Health Ecosystem

HIMSS Healthcare IT in Kansas City  
Kansas City  
January 19, 2017



<http://kcdigitaldrive.org> • @kcdigitaldrive

# KC Digital Drive Overview

# Mission: Make Kansas City a Digital Leader

We have ***gigabit-speed technology*** in place. Now it's time to ***secure our economy's future and improve the quality of life for all Kansas Citians*** by...



- Closing the Digital Divide



- Driving Digital Innovation

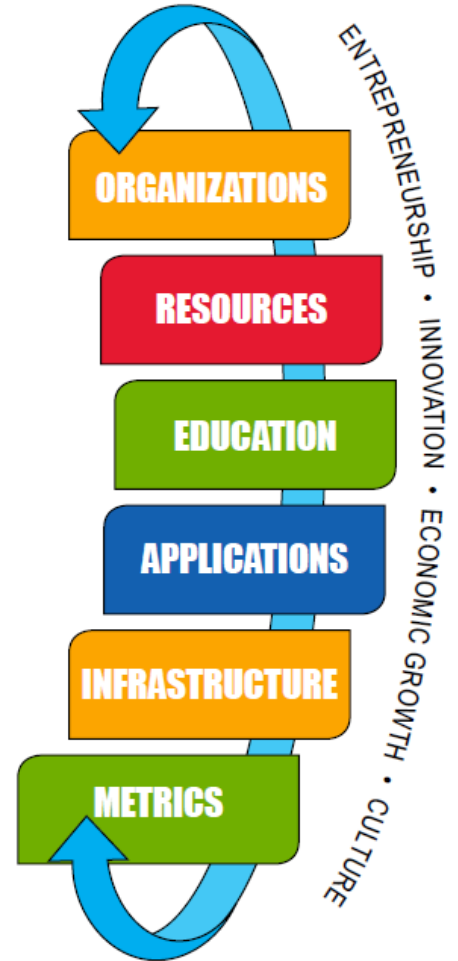


- Building Kansas City's Reputation



# KCDD: Building an Ecosystem

- 10% technology, 90% sociology
- Addresses problems of:
  - Amazing but underutilized infrastructure
  - Unclear ROI (chicken & egg)
  - Resources not being shared
  - Who's doing what?
- Issues pervasive in emerging tech



DIGITAL DIVIDE:

Workforce pipeline

Stable society

Quality of life

Engaged citizens



## PILOT PROJECTS:

Health care

Civic

tech/government

Education

Digital access

Smart city





GLOBAL LEADERSHIP:  
Talent  
attraction/retention  
Business attraction  
Global markets

# Our approach

## Build Community

- Leverage relationships
- Create work-groups

## Identify Opportunity

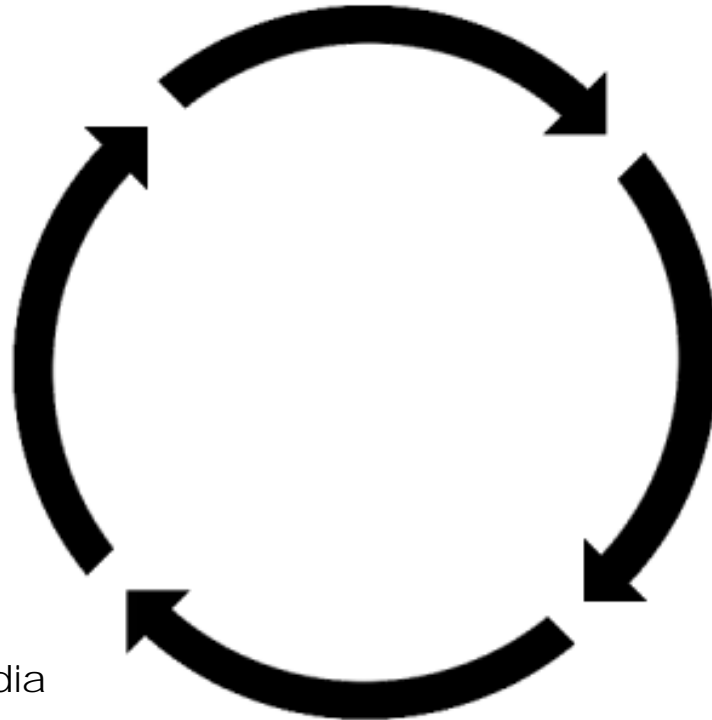
- Follow the energy
- Evaluate need
- Measure interest
- Fill gaps

## Track Results

- Storytelling
- Public outreach
- Social/digital media

## Pilot Projects

- Launch projects
- Manage workflows
- Obtain funds







Health Innovation Team



# Building community

- Monthly meetings, 15-30 people, targeting health stakeholder communities
- Community forums, 40-75 people, spurring broader conversations
- Startups/entrepreneurs
  - iShare Medical (HISP, personal health records)
  - Pathfinder, SmartSteps (coordination of programming/care, decision tree)
  - SORA Medical Solutions (critical diagnostic accuracy)
- Health care providers
  - iCare: HPN Mobile Distance Connections Research/KU Med (home care)
  - Community Health Council of Wyandotte County (design thinking, ecosystem)
  - Swope Health Services (EMRs in safety net setting)
  - Valley Hope (synchronous & asynchronous remote support for recovery)
  - Cedarwood Senior Cottages (home monitoring, aging in place)



# Identify opportunities

- Connectivity in safety net clinics
  - REACH Foundation grant to support research ... which led to connectivity
- Mental/behavioral telehealth
  - Hackathon → StartTalking
- Telemedicine codes workshop
  - March/April 2017
- Telehealth grants



# Identify opportunities: Cross-vertical alignment

- Code for KC
  - SafeAssist
  - I Got Mine
  - Street Medicine KC/Joyn
- Digital Inclusion
  - HCF Grant working
- Smart city
  - NSF Smart + Connected Cities / Eldertech, smart parks
- Education



# Pilot projects

- Among team members
  - Telehealth grant opportunities
  - StartTalking
  - Collaborations
- KCDD led
  - Telemedicine coding workshop
  - Using computer labs for better health care
  - Smart Healthy Campus



# Downtown Central Parkway

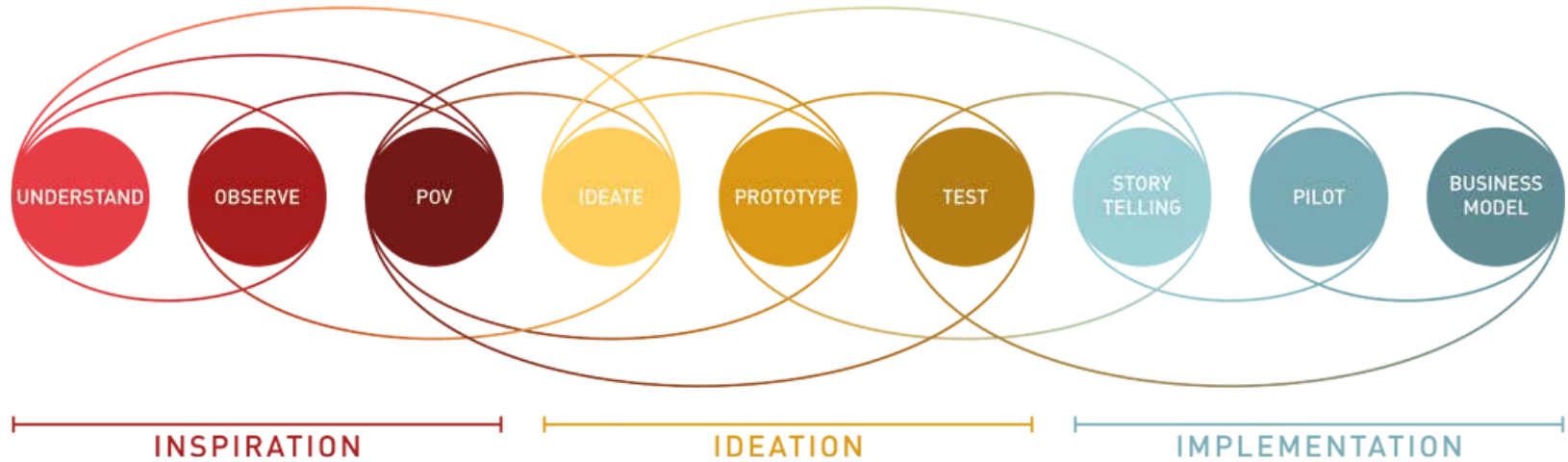
The Healthy Community Vision for Downtown Kansas City, Kansas.



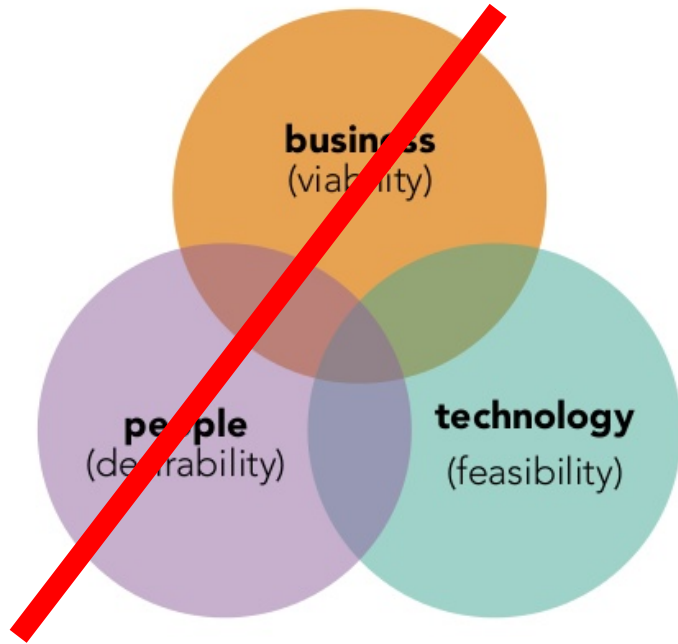
- Recreation Fields
- JFK Center
- Parking with Solar Sheds
- Park Expansion
- Street Improvements
- Community Center
- Entry / Event Plaza
- Mixed Use Infill at 10<sup>th</sup> and Minnesota
- Renovated Granada Theater
- Grocery Store
- Commercial Buildings
- Multi-family Housing
- Farmers Market
- Urban Orchards and Gardens

2014

## THE DESIGN THINKING PROCESS



# design thinking integrates...



This is  
what we're  
doing today

Adapted from Brown (2008).





## DIGITAL CITY ECOSYSTEM COMPONENTS



### SMART SERVICES

EDUCATION



SAFETY, SECURITY  
ENVIRONMENT



ENERGY AND  
UTILITIES



ENTERTAINMENT  
AND RETAIL



HEALTH



TRANSPORTATION



GOVERNMENT



### NEXT-GEN INFRASTRUCTURE



CITY CONNECTIVITY INFRASTRUCTURE



CITY DIGITAL INFRASTRUCTURE



CITY DIGITAL SECURITY INFRASTRUCTURE

### DIGITAL ENABLING LEVERS

GOVERNANCE



OPEN GOVERNMENT  
AND ANALYTICS



INNOVATION AND  
ENTREPRENEURSHIP



HUMAN CAPITAL



CYBERSECURITY



POLICIES AND  
STANDARDS



STRATEGIC  
COMMUNICATION



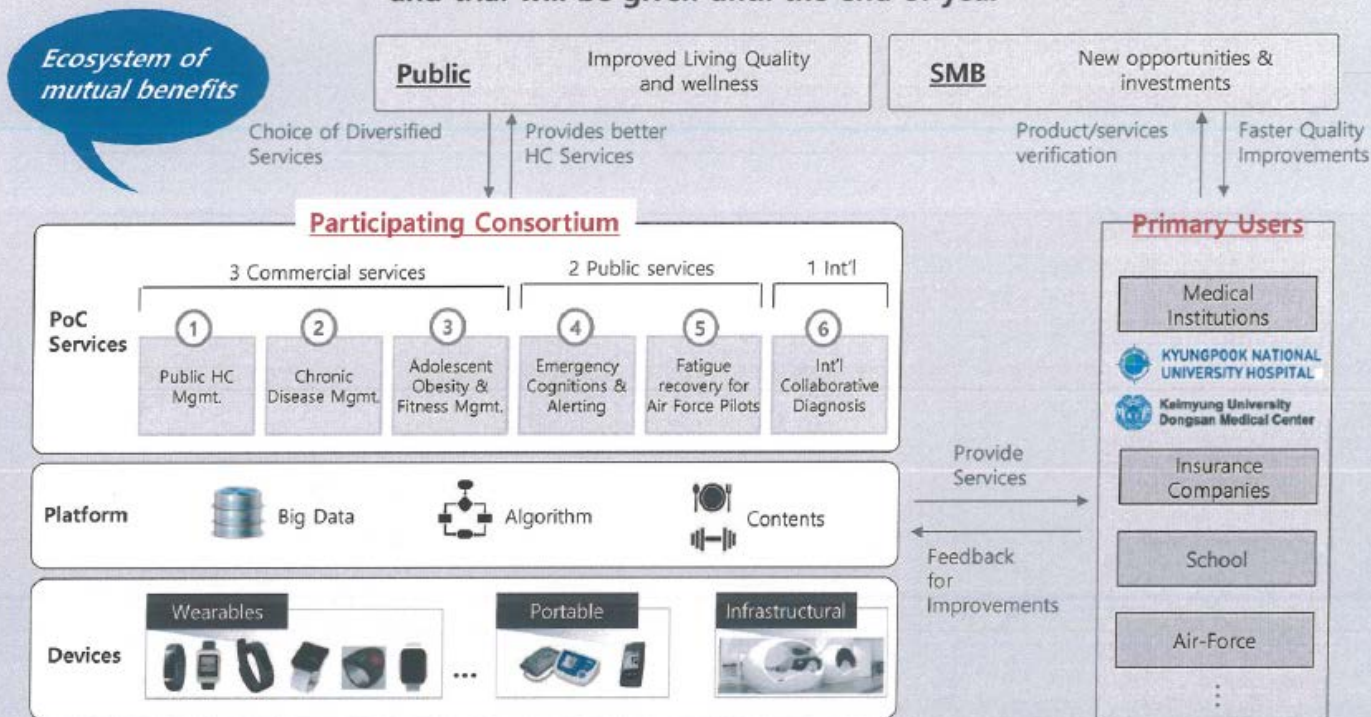
PUBLIC-PRIVATE  
PARTNERSHIPS



## II. Healthcare Services

### 1. Healthcare Service Overview

Developing 6 services in accordance with demands identified from various primary users and trial will be given until the end of year

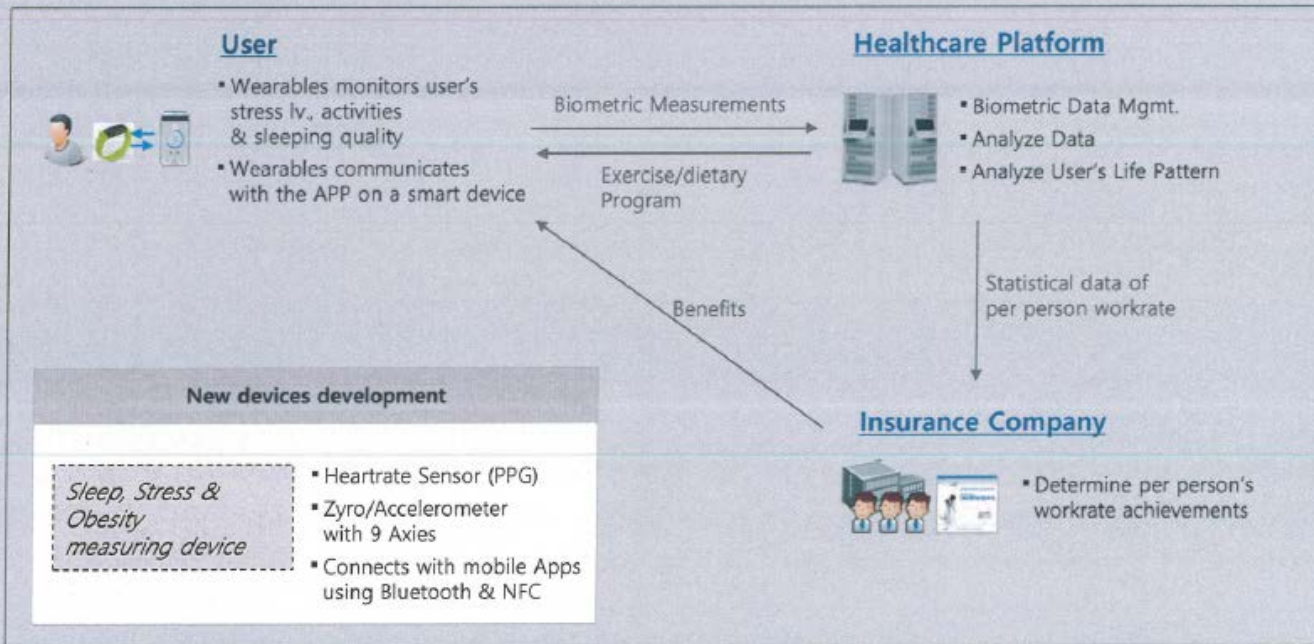


## II. Healthcare Services

### 2. Public Healthcare Management Service

This service provides personalized exercise/dietary plan to users, monitors/measures how they follow such program and rewards users for their accomplishment.

#### Public Healthcare Management Service



# Track results and tell the story

- Blog posts
- Project pages (need screen shot)
- Improving metrics
  - Anecdotal to quantitative
  - Activity-based, stakeholder impact, end user impact
- Within and beyond KC
- Health newsletter



# Technology-enhanced Aging in Place homes now open in Lawrence

by Katy Schamberger | Nov 22, 2016 | Next-Generation Home, Telehealth Pilot



The numbers tell a compelling—even overwhelming—tale.

Currently, the number of people worldwide 65 years and older is estimated at 506 million, [according to information shared by Greg Corpier](#), principal/vice president of technology solutions and strategy, [Telecare Global, LLC](#). This number is expected to surge to 1.3 billion by 2040. And within just *one* decade, there will be more people 65 years and older than children under the age of 5—for the **first time** in human

history.

There's no doubt that the time for improved elderly care, including aging in place, is now. And with the opening of



<http://www.kcdigitaldrive.org/project/usignite>



# Building community (virtuous cycle)

- Regional workgroups
  - KCALSI Health IT and Outcomes Research
  - Blue Ribbon Advisory Panel
- Global City Teams Challenge
- MetroLab Network: Big Data and Human Services Workshop

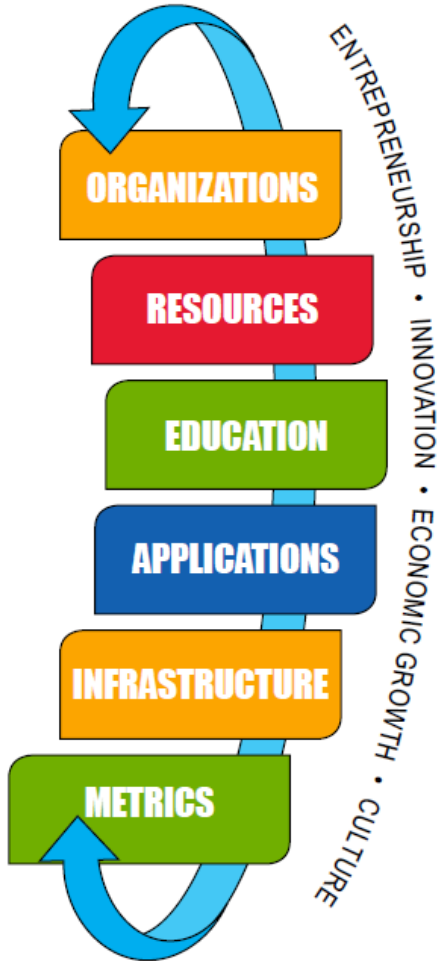




# Identify opportunity (virtuous cycle)

- Grant opportunities
  - REACH Foundation
  - Health Care Foundation of Greater KC
  - National Science Foundation
- Smart Healthy Campus
- Health and Environment “SuperCluster”
- HIT membership





- Health team members
- Grants, donations, talent contributions
- Meetings, forums, speaking, workshops
- Presenters, hackathons
- Connectivity work, platforms
- Project pages, tracking, storytelling



# Get Involved

- Join our monthly meetings
- Join our mailing list at [kcdigitaldrive.org](http://kcdigitaldrive.org)
- Twitter
  - @kcdigitaldrive
  - @codeforkc
  - @gigabitcities





**HEART OF AMERICA** *Chapter*

THANK YOU

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