Coordinating action on shared goals to improve the health of ALL people in SC

April 25, 2016
General Meeting
Agenda

9:30am  – Networking Time
10:00am – Welcome and Introductions
10:15am – Bill Kirkland:
   How can Health IT, Higher Education, and Watson Improve Health Outcomes?
   Discussion; Q & A
11:15am – Chairman Updates
11:25am – Member Updates
11:55am – Final Thoughts
12:00pm – Networking Time
Health Equity Commitment
For all people in SC
Strive to attain the highest level of health for all people, independent of gender, race, sexual orientation, neighborhood, disability, ethnicity, education level, or socioeconomic status

Healthy Babies
Improve the health of moms and babies from preconception through the first year of life

Healthy Children
Improve the health and educational outcomes of children

Healthy Bodies
Improve physical health through good nutrition, physical activity, and increased access to high quality primary care

Healthy Minds
Improve access to appropriate behavioral health services and other necessary critical and support services

At a lower per-capita cost
Reduce the cost of care for every individual in the state
COLLECTIVE IMPACT

No Strategic Alignment

Execution Gap

GOALS

Alignment of LHDs, Non-profit Social Service Agencies, Hospitals, Employers, Schools, Community Groups, Faith Communities, Families, Individuals & Government Agencies

Adapted from a graph by Bill Barberg from Insightvision.
With IBM in Horizon II, OEE is pursuing partnership opportunities. The Carolina Model, Center for Applied Innovation, Watson Internet of Things, and Watson Health Businesses are providing USC and its faculty and students with new opportunities to develop talents and skills in real world applications.
IBM Partnership: The Carolina Model

- Partner Agreement
- AMS Contract
- USC System
- McN AIR
- Other Higher Ed Institutions
- SC Cyber
- SC Logistics Center
- CPM
- DMSB
- Partners
Application Management Services
- Application Development
- Application Support
- Internships (applied computing minor)
- Solutions for High Education
  - People Soft Human Capital Management
  - Financials
  - Web Application Support

Watson “Internet of Things” Center of Competency
Design, build, implement, and support differentiated advanced analytics solutions for:
- Connected Equipment Health
- Manufacturing 4.0
- Connected Supply chain
- Healthcare
- Legal

IBM Applied Innovation & Analytics Center Advanced

Watson Foundation for Education
- Academic and curricular assessment
- Career pathway
- Faculty activities
- Validation for student and faculty for individual academic progress
- Collaboration with faculty and administrators for reviewing technological assets to Watson advanced analytics in education

Collaboration across research areas
Center for Applied Innovation  
For Internet of Things, Advanced Analytics and Watson

**Leverage Local to go Global**

**Connected Equipment Health**
Stream equipment operational data via IoT to enable predictive insight providing early warning for component failure, best repair strategy, optimized maintenance plans and operational issues to achieve most efficient and effective utilization of the asset.

**Manufacturing Industry 4.0 IoT**
Industry 4.0 facilitates the vision and execution of a "Smart Factory". Within the modular structured Smart Factories of Industry 4.0, cyber-physical systems monitor physical processes, create a virtual copy of the physical world and make decentralized decisions. Over the Internet of Things, cyber-physical systems communicate and cooperate with each other and with humans in real time.

**Connected Supply Chain**
Leveraging IoT, collect the physical movements of product across the supply chain in real-time, employ cognitive plus predictive analytics to gain insight in how to maximize customer satisfaction by having the right product available at the right time while minimizing work in process and delivery costs.
Watson Health Businesses

- **Life Sciences**
  - Real World Evidence
  - Discovery Advisor
  - Clinical Trials

- **Oncology/Genomics**
  - Oncology Advisor
  - Genomic Advisor
  - EMRA

- **Imaging**
  - Radiology
  - Cardiology
  - Oncology
  - Ophthalmology

- **Continuum of Care**
  - Chronic Diseases
  - Population Health
  - Care Management
  - Social Programs
  - Wellness

- **Payments and Value**

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**IBM Watson Health Cloud**

**Data**
- Analytics / Insights Platform

**Knowledge**
- Image Analytics
- Cognitive Knowledge Platform

Enabled through a platform that has data, knowledge, analytics and industry specific solutions supported on a secure Cloud.
Open Platform supporting Ecosystem to further accelerate Innovation

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75+ clients and partners

350+ Watson ecosystem collaborators

8,000 new IBM Bluemix platform users per week

77,000+ developers Global IBM Watson Developer Cloud Services users

Watson ecosystem collaborators:
- Best Doctors
- Nutrino
- iDavatars
- Tiatros
- Curely
- Welltok

Regional examples:
- Hangzhou Cognitive Care China
Watson Health + Medtronic
Addressing the biggest needs in Diabetes Care
Utilizing a Patient Engagement App and Care Management Protocols

Personalized Diabetes Mobile Companion
Integrated Evidence Based Diabetes Care Management Program
Population Health Ecosystem

- **Pop Health Analytics**
  - Performance Management
  - Centralized Data Repository
  - Clinical Decision Support

- **Consumer Engagement**
  - Mobile
  - Automated Outreach
  - Care Planning

- **Care Management**
  - Care Management
  - Social Assistance
  - Community Health Services

- **Distance Monitoring**
  - Telehealth/Devices
  - Remote Patient Monitoring

- **Claims and Cost**
  - Provider Performance
  - Employer Group Reporting

- **Others who supply/require information and coordination**
  - Specialty Care
  - Hospitals
  - Post Acute
  - Radiology, Lab, Rx
  - Referral Tracking/HIEs
Proven Success in the Market – 100+ clients
State of OH providers leveraging a common platform

**Enabling cohort discovery across populations for research and clinical trial initiatives**

- Fully implemented solution to support VBC initiatives and end-to-end PHM capabilities
- Includes 9 integrated clinical EMRs and 270 billing / other feeds (e.g. Epic, eClinicalWorks, Cerner, Allscripts, and NextGen)
- Enables risk and performance management with 200+ measures and multiple risk models across nearly 5,000 providers

**Cleveland Clinic**

**OhioHealth**

- Platform to enable Clinical Integration and Performance Measurement strategies
- Support 7 commercial payer pay-for-performance-contracts
- Enabling cohort discovery for research purposes.

**MERCYHEALTH**

- Enabling clinically integrated network with practice management workflow across multiple clinical EMRs including Epic and 42 data sources
- Providing risk and performance management with 800+ measures, 8 risk models, dashboards and reporting across 1,500+ providers
- Achieved $6.5m shared savings during program’s first year and named top 5% of ACOs in 2014
- Resulted in 11% improvement in comprehensive measure of diabetes management since 2013
Technology Commercialization Office

TCO provides service to USC faculty and students to manage intellectual property invented at USC. TCO connects industry partners with disruptive technologies by providing straightforward licenses for USC innovations. For the third straight year, USC is ranked as a top worldwide institution for the number of patents that have been issued to USC.
In 2016, TCO launched a clustering project to improve marketing of early stage technologies. PatSnap, a leading software, allows us to identify 5-10 companies that are highly active in the patent landscape around each issued USC patent. This analysis provides a more efficient and knowledgeable way to target potential licensees.
IdeaLabs

OEE manages IdeaLabs to offer wet lab space in Horizon I to USC-affiliated small businesses.
When OEE was created, IdeaLabs was at 10% capacity. It is now completely filled.

Three years ago, IMCS began as a startup formed out of the lab of Dr. Qian Wang in the Chemistry department. Receiving early support and office space from the Incubator, IMCS experienced rapid growth. Facing a need for wet lab space, IMCS moved operations to IdeaLabs and quickly expanded to rent almost the entire available space. Now, owing to the flexibility and resources of IdeaLabs, the company has annual revenue of over $5 million and is preparing to relocate to a large, custom facility in Irmo to support its continued growth.

IMCS credits USC and particularly OEE, with its ease in working with startups, deep knowledge of startups’ needs, and constant support of startups’ growth, for its rapid success.

IdeaLabs is recruiting new faculty-led startups to move into IdeaLabs upon IMCS’ vacancy, setting the stage for the next high-growth story.
We help innovative businesses grow through education, mentoring, and an established sense of community in an incubation facility that serves the Midlands of South Carolina.
USC and the USC/Columbia Technology Incubator are building a new 50,000 sq. ft. facility located in the Innovista Research District thanks in part to a $1.91 million award from the U.S. Economic Development Administration.
The facility is carefully planned to meet the current and future needs of the Incubator and USC. We received valuable input from the Olympia community to design a façade that is modern yet still fits the character of the neighborhood.
Incubator: New Facility

The building’s first floor houses the Incubator staff, support services, open collaboration space, and a large classroom. The second and third floors are a mix of flexible individual offices for startups, as well as space for Incubator graduates and/or anchor tenants.
Incubator: Community Impact

- Forty-eight Incubator member companies earned a total of $35.3 million in revenue in FY2016 and currently employ 223 people.

- Since January 2016, the Incubator has hosted over 500 attendees across 35 seminars and events, providing educational and networking opportunities to SC’s entrepreneurial ecosystem.

- In 2015, the Incubator led efforts to organize Global Entrepreneurship Week activities. This effort included 9 community partners and 15 separate events drawing over 1,000 attendees. Plans are again underway for Global Entrepreneurship Week, to be held November 11-20, 2016.
Chairman Updates

- Dues Reminder
Member updates

- Graham Adams – Rural Health Action Plan
- Dr. Lillian Peake – DHEC Strategic Planning
- Thornton Kirby/Tricia Richardson – DHHS Director Search
- Schipp Ames – Communications Team Update
- Child Health and Wellbeing Coalition Update
2nd Annual SC Population Health Summit

• Beaufort
• Charleston
• Columbia
• Easley
• Florence
• Georgetown
• Greenville
• Rock Hill
• Walterboro

SAVE THE DATE
June 14, 2017
9:00 a.m. to 3:30 p.m.

The Summit aims to convene grassroots community leaders and organizations that can have an impact on population health for the purpose of streamlining efforts to make a Healthier SC for all. SC AHEC’s South Carolina Health Occupations Outreach Learning System (SCHOOLS) will host nine simultaneous meetings in different regions throughout the state.

AMA PRA Category 1 Credit™ will be provided.
Upcoming Meetings

General Meetings

• June 20
• October 24

Team Meetings:

• May 5 – Communications
• May 23 – Alignment
• June 6 – Health Equity (Location Change – SCPHCA)
• May 31 – Policy and Advocacy