



Long-term Preservation and Management of Electronic Health Records

April 5-6, 2011

Chris Greer

Assistant Director for Information Technology R&D
White House Office of Science & Technology Policy



Implementation of electronic health records “will cut waste, eliminate red tape, and reduce the need to repeat expensive medical tests ... It just won't save billions of dollars and thousands of jobs -- it will save lives by reducing the deadly but preventable medical errors that pervade our health care system.”

Barack Obama, January 8, 2009



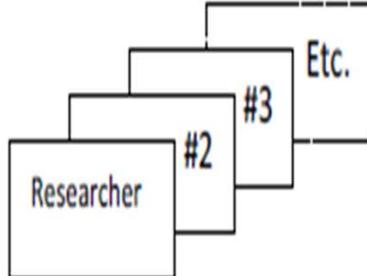
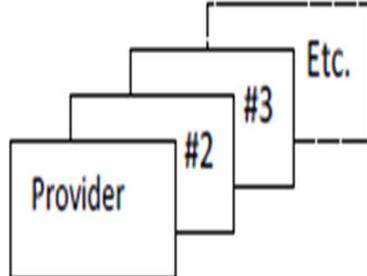
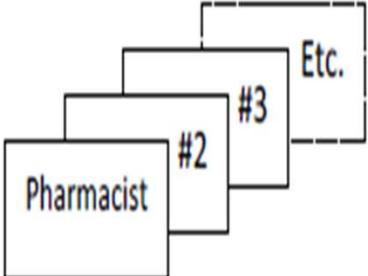
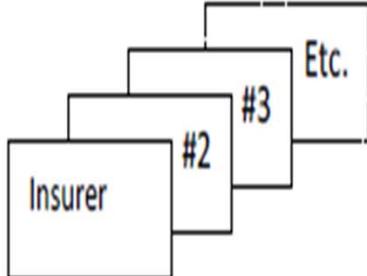
- Health Information Technology for Economic and Clinical Health Act (HITECH)
- Center for Medicare and Medicaid Innovation
- Affordable Care Act
- HHS Workforce and SHARP Awards
- Standards for Meaningful Use
- Health IT Strategic Plan

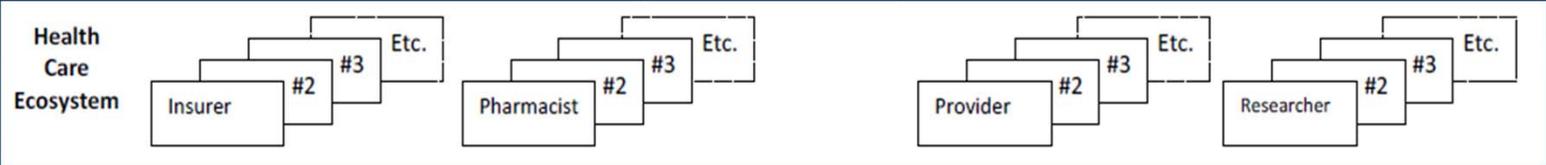


Patient



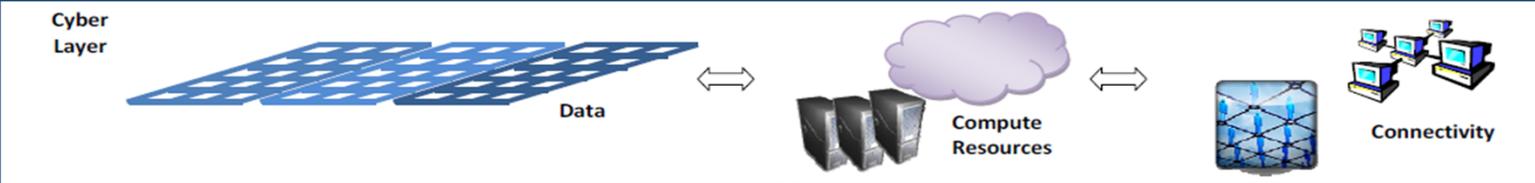
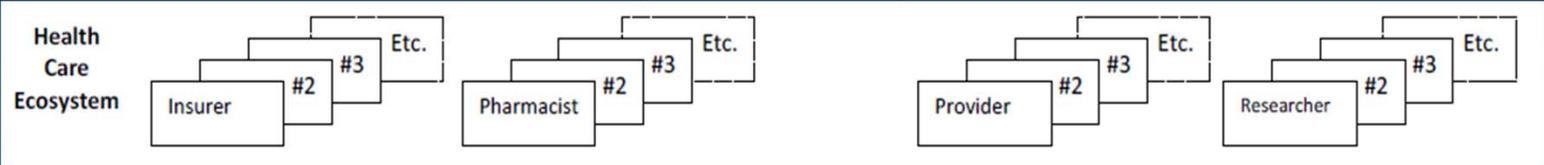
Health
Care
Ecosystem





Cyber
Layer



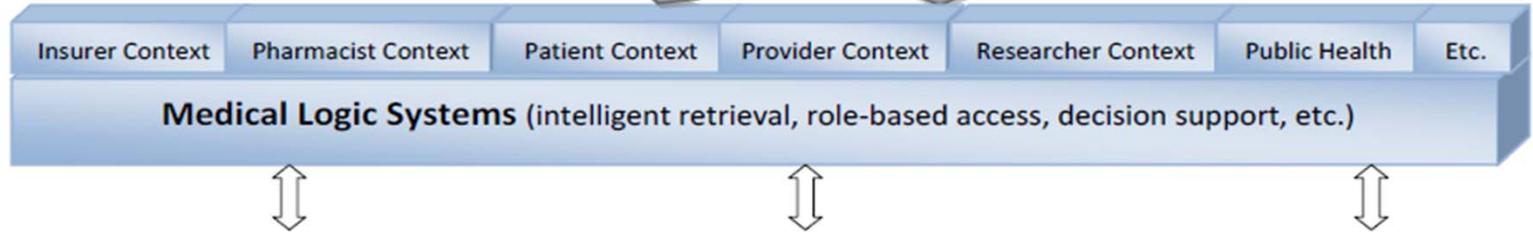


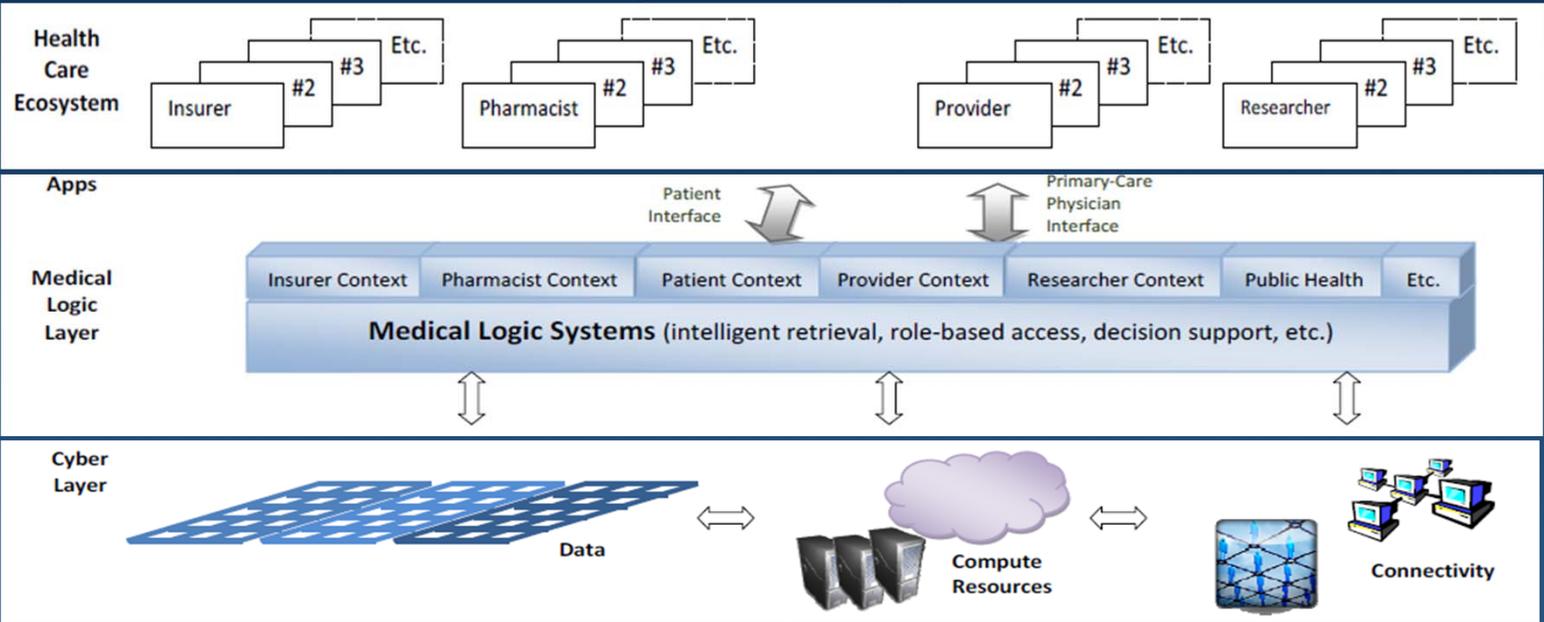
Apps

Patient
Interface

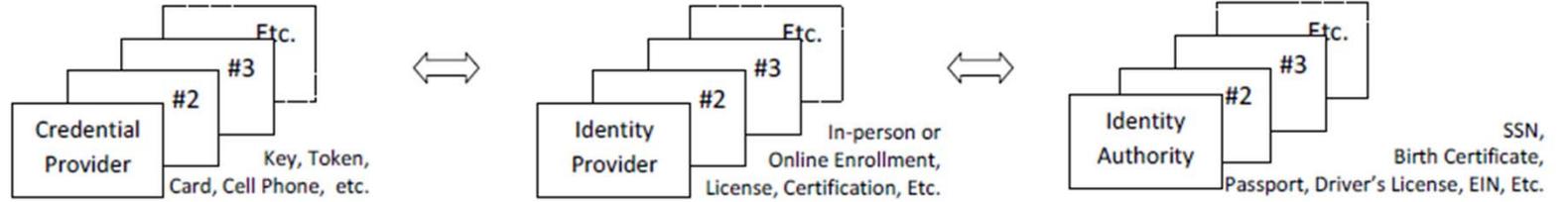
Primary-Care
Physician
Interface

Medical
Logic
Layer

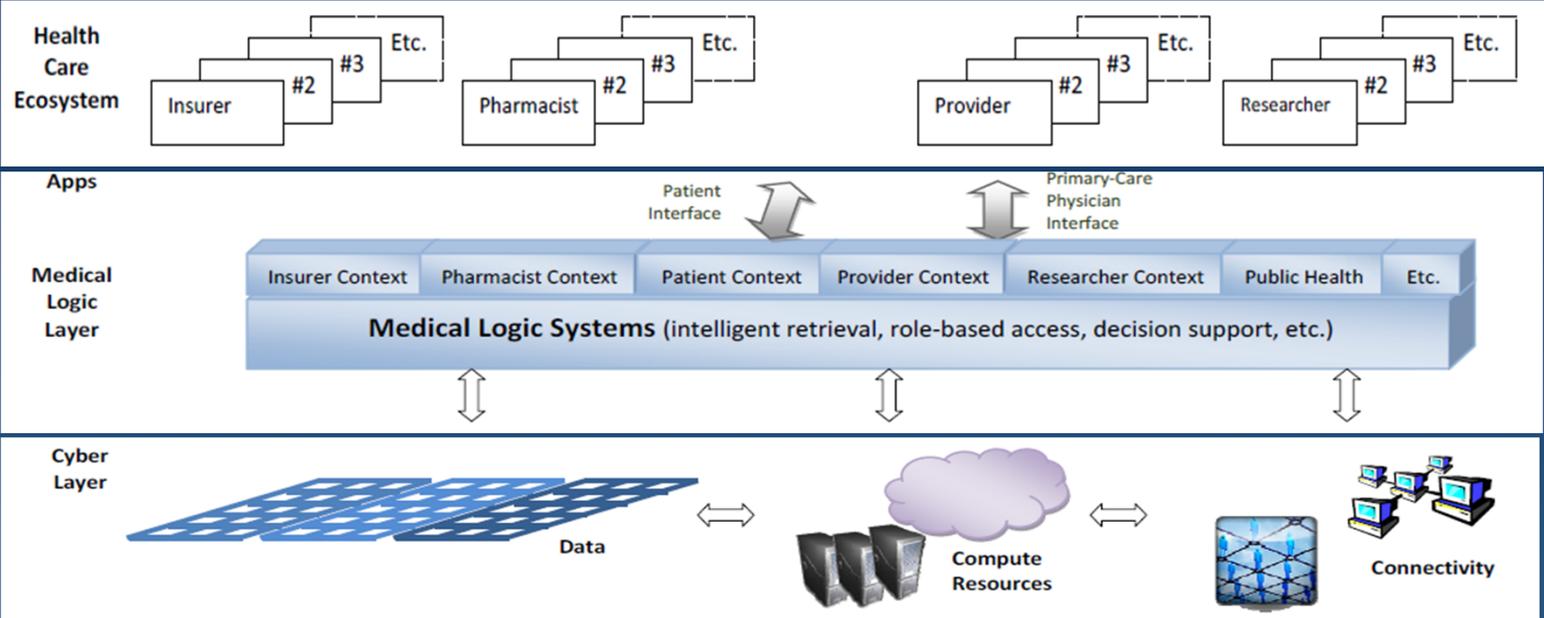
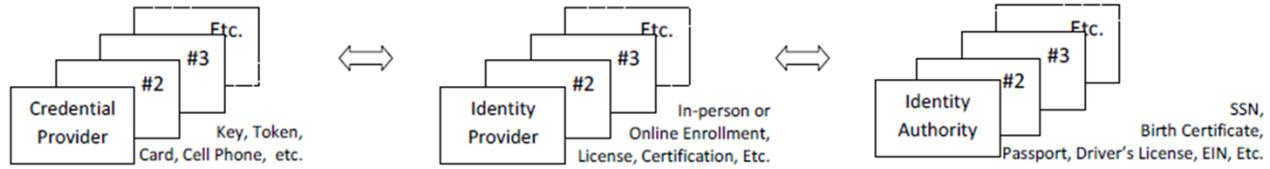




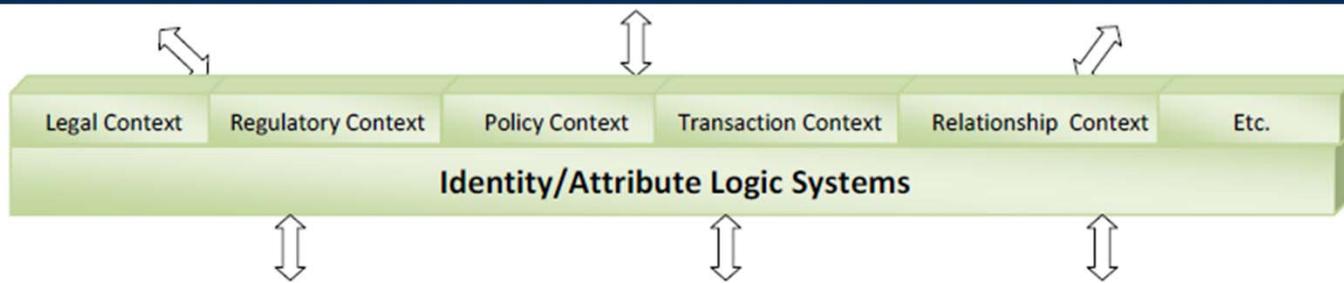
Identity Ecosystem



Identity Ecosystem



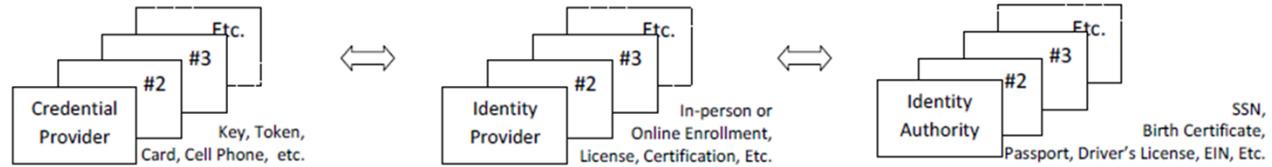
Identity
Verification/
Attribute
Providers



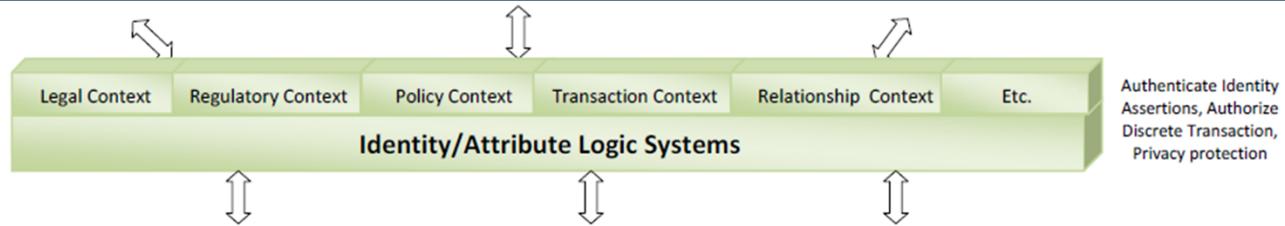
Authenticate Identity
Assertions, Authorize
Discrete Transaction,
Privacy protection



Identity Ecosystem



Identity Verification/Attribute Providers



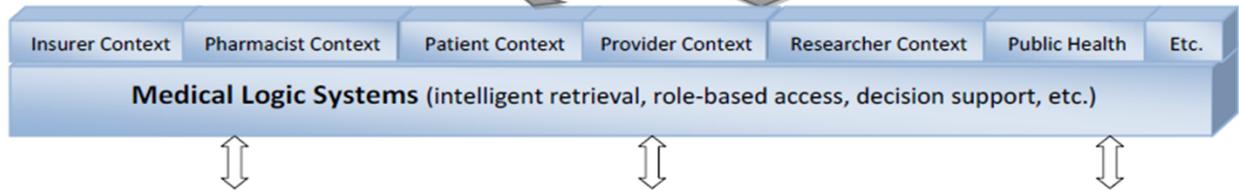
Health Care Ecosystem



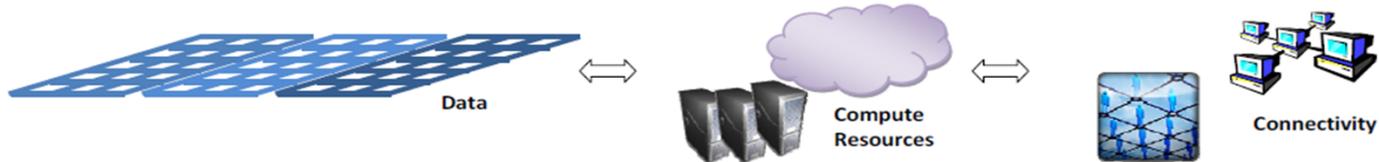
Apps



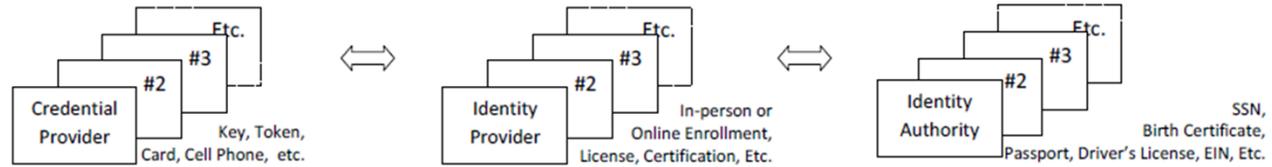
Medical Logic Layer



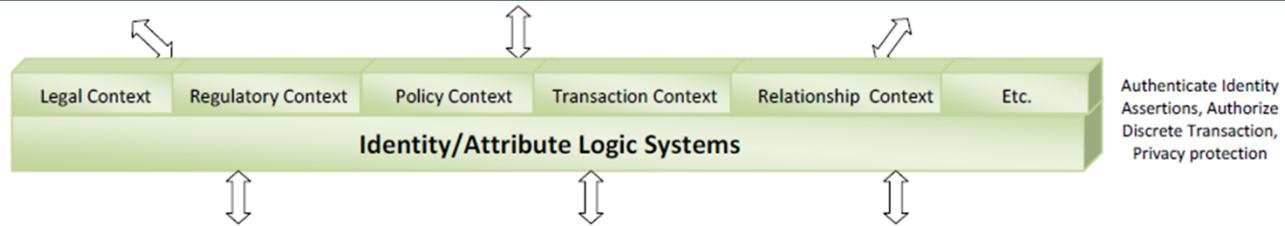
Cyber Layer



Identity Ecosystem



Identity Verification/Attribute Providers



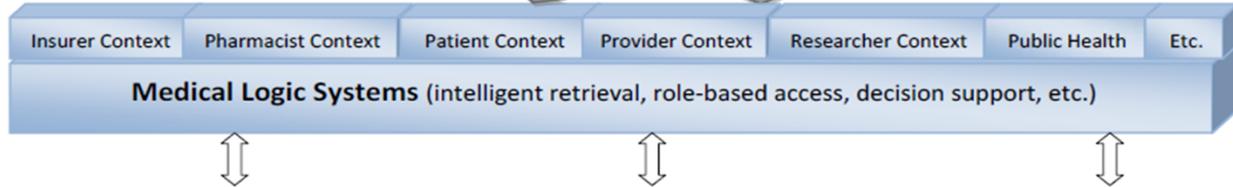
Health Care Ecosystem



Apps



Medical Logic Layer



Cyber Layer



HEALTH.DATA.GOV

WWW.DATA.GOV/HEALTH

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Welcome to the Health Data Community

You've found a public resource designed to bring together high-value datasets, tools, and applications using data about health and health care to support your need for better knowledge and to help you to solve problems. These datasets and tools have been gathered from agencies across the Federal government with the goal of improving health for all Americans. Check back frequently because the site will be updated as more datasets and tools become available.

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Special Features
Health Indicators Warehouse

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Data.gov » All Communities

Recent Blog Post



2011 County Health Rankings

Posted on: 3/30/2011

By: Todd Park

Today, the Robert Wood Johnson Foundation and the University of Wisconsin released the 2011 County Health Rankings, ranking over 3000 counties in every state on their overall health. The County Health Rankings provide measures listed by...

What's New



Learn about our newest high-value datasets and APIs.

- [CDC BioSense: Tarrant County, Texas](#)
- [Medicare Prescription Drug Benefit Dashboard BETA](#)
- [DailyMed](#)
- [CMS Community Indicator Data](#)

Challenges



Get inspired to create your own application using the data and tools made available through HealthData.gov. Challenges and contests where you can compete against other programmers to create great health-related applications can be found through the following links.

- [Challenge.gov](#)
- [Health 2.0 Developers Challenge](#)



PCAST Health IT Report



REPORT TO THE PRESIDENT
REALIZING THE FULL POTENTIAL OF
HEALTH INFORMATION TECHNOLOGY
TO IMPROVE HEALTHCARE
FOR AMERICANS:
THE PATH FORWARD

Executive Office of the President
President's Council of Advisors
on Science and Technology

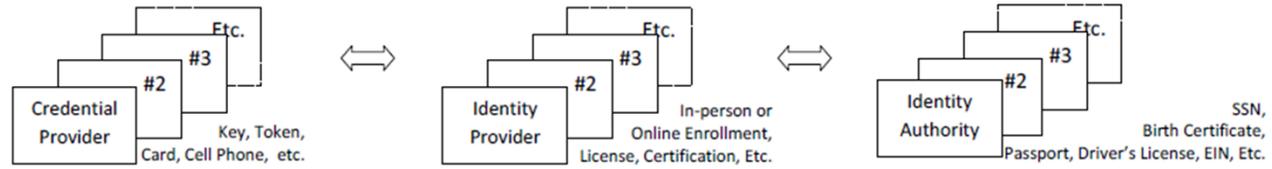
December 2010



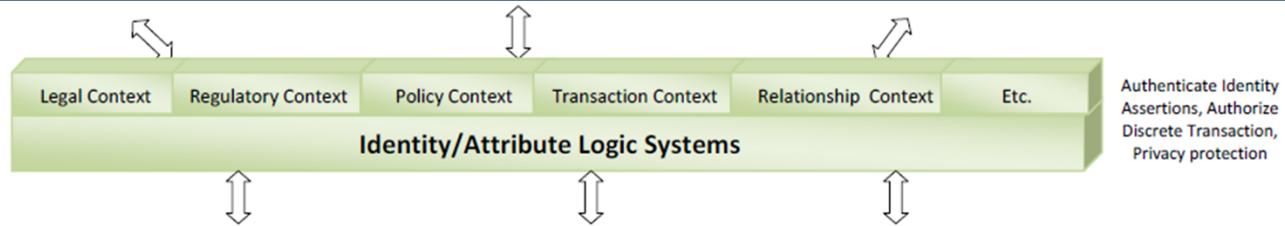
“Exchange health data in a universal manner based on metadata-tagged data elements.”



Identity Ecosystem



Identity Verification/Attribute Providers



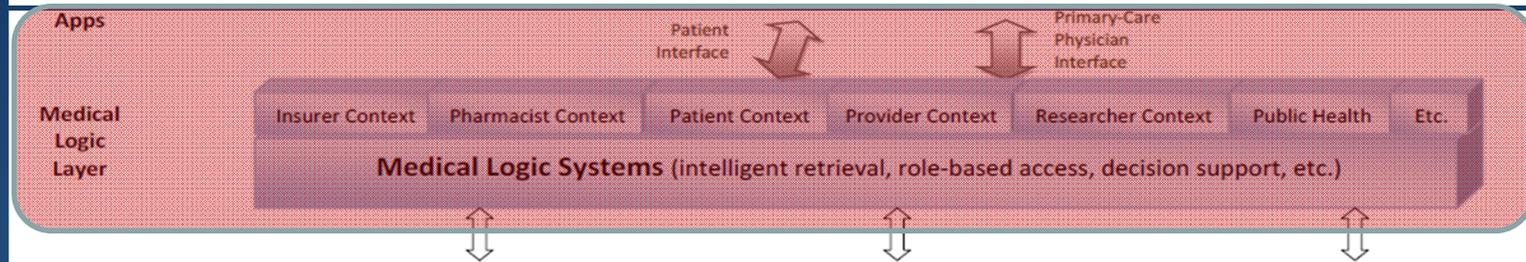
Patient

Health Care Ecosystem

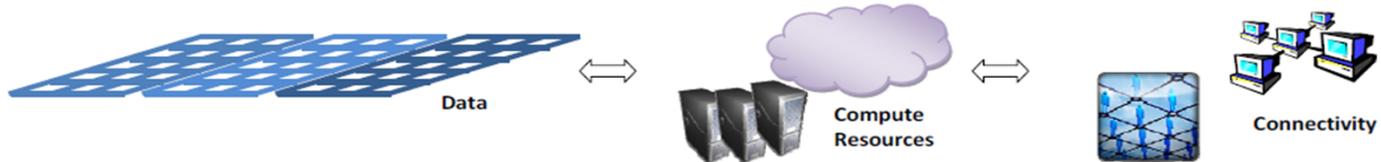


Apps

Medical Logic Layer



Cyber Layer



Department of Health and Human Services

Strategic Health IT Advanced Research Projects (SHARP)

- President and Fellows of Harvard College -
Healthcare Application and Network
Platform Architectures
- University of Illinois at Urbana-Champaign
Security of Health Information Technology
- The University of Texas Health Science Center
Patient-Centered Cognitive Support
- Mayo Clinic
Secondary Use of EHR Data



SMART Health App Challenge

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Substitutable Medical Apps, reusable technologies

A platform with substitutable apps constructed around core services is a promising approach to driving down healthcare costs, supporting standards evolution, accommodating differences in care workflow, fostering competition in the market, and accelerating innovation.



SMART Health App \$5000 Challenge

As announced by US Chief Technology Officer Aneesh Chopra on November 9, 2010, during his mHealth Summit keynote address with Bill Gates, SMART seeks to recruit and support a new generation of innovators by providing a common interface to multiple HIT platforms. The SMART Health App \$5,000 Challenge is to develop web apps that use the SMART API to provide value to patients, providers, researchers, and public health. Examples of such applications are medication management tools, health risk detectors, and e-prescribing applications. The challenge is open! Go [here](#) to support our challenge and to participate.

Strategic Health IT Advanced Research Projects (SHARP) Program

The SHARP Program funds research focused on achieving breakthrough advances to address well-documented problems that have impeded adoption of health IT and accelerating progress towards achieving nationwide meaningful use of health IT in support of a high-performing, continuously-learning health care system.

The Office of the National Coordinator for Health Information Technology (ONC) has awarded \$60 million in cooperative agreements for the Strategic Health IT Advanced Research Projects (SHARP) Program.

The SHARP program seeks to support improvements in the quality, safety, and efficiency of healthcare, through advanced information technology.

The research projects supported by the SHARP program will focus on solving current and expected future challenges that represent barriers to adoption and meaningful use of health IT. These projects will focus on areas where "breakthrough" advances are needed to realize the full potential of health IT.

News

[SMART + OPENMRS: GOOGLE SUMMER OF CODE](#)

[US CTO ANEESH CHOPRA BLOGS SMART CHALLENGE](#)

[THE SMART APPS CHALLENGE IS LIVE!](#)

[HOW SMART ADDRESSES THE PCAST REPORT ON HEALTH IT](#)

[ALLSCRIPTS IS FIRST MAJOR VENDOR TO ADOPT A PLATFORM MODEL OF EHRs](#)

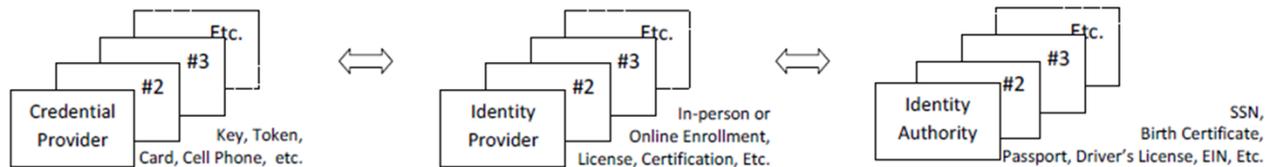
SMART Newsletter

Sign up to receive periodic email newsletters. These will include news about the SMART Health App \$5000 Challenge, upcoming events, milestones, and announcements from the

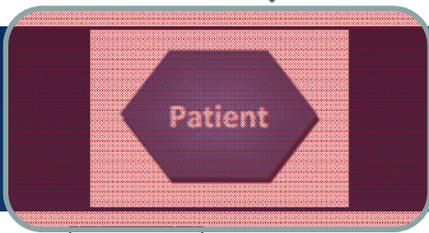
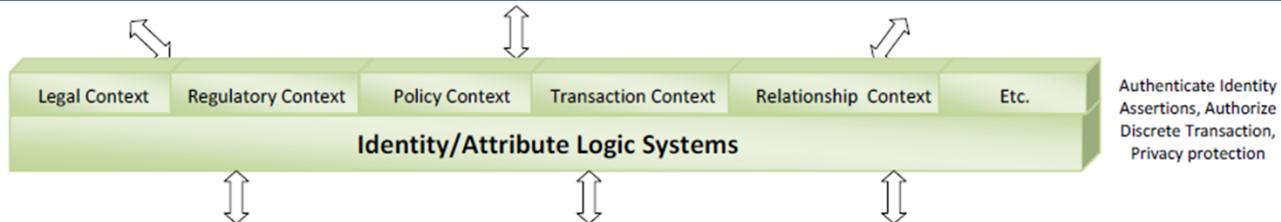
www.smartplatforms.org



Identity Ecosystem



Identity Verification/Attribute Providers



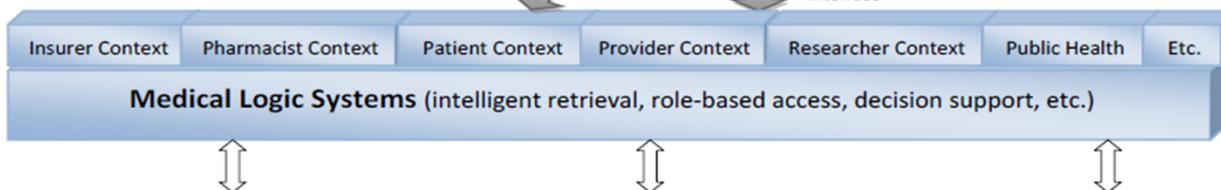
Health Care Ecosystem



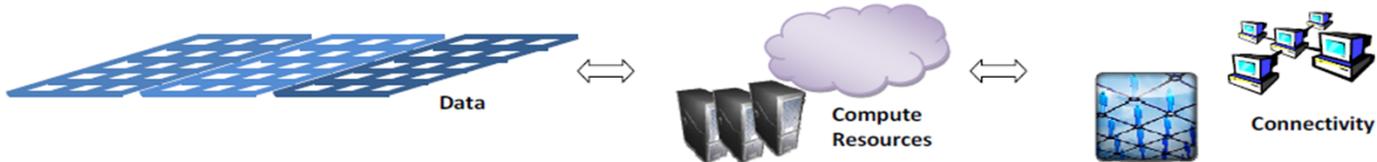
Apps

Patient Interface Primary-Care Physician Interface

Medical Logic Layer



Cyber Layer



VA - Blue Button

UNITED STATES
DEPARTMENT OF VETERANS AFFAIRS



Search All VA Web Pages
Search
Open Advanced Search

Home Veteran Services Business About VA Media Room Locations Contact Us Blue Button



Blue Button
Download
My Data SM



[President Obama Talks about the Blue Button Initiative](#)

Blue Button Initiative

On August 2, 2010, President Obama announced the "Blue Button" capability that allows Veterans to download their personal health information from their My HealtheVet account. VA developed the Blue Button in collaboration with the Centers for Medicare and Medicaid Services (CMS), and the Department of Defense, along with the Markle Foundation's Consumer Engagement Workgroup.

My HealtheVet and the VA Blue Button

The My HealtheVet Personal Health Record (PHR) is comprised of self-entered health metrics (blood pressure, weight, heart rate, etc.), emergency contact information, test results, family health history, military health history, and other health related information. The Blue Button extract that Veterans can download is a so-called "ASCII text file", the easiest and simplest electronic text format (see sample files: [all data](#), by [data class](#), or by [date range](#)).

www.va.gov/BLUEBUTTON





VAI2 US DEPARTMENT OF VETERANS AFFAIRS INNOVATION INITIATIVE

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INDUSTRY INNOVATION COMPETITION — 2011 —

Second Industry Innovation Competition

VA announces new Industry Competition with up to \$100M in awards.

Private companies, entrepreneurs, universities and non-profits are encouraged to participate.

This year, participants will submit short concept papers for a preliminary review. The deadline for submission is April 15, 2011. [Audio, slides and Q&A](#) from the webinar on February 23 are available as a resource.

[Learn more](#) | [Press release](#) | [Blog](#)

New Challenges Released for 2011 VAI2 Competition

Secretary Shinseki Announces 2010 Innovation Awards

Veterans Health Wireless Innovation Challenge

National Entrepreneurship Week

President Obama Calls on Industry for VA Innovations

OPEN FOR INNOVATIONS

Welcome

2011 Industry Innovations Competition

Welcome to VAI2, the flagship Open Government initiative for the Department of Veterans Affairs – a 300,000 person organization with a \$125 billion budget

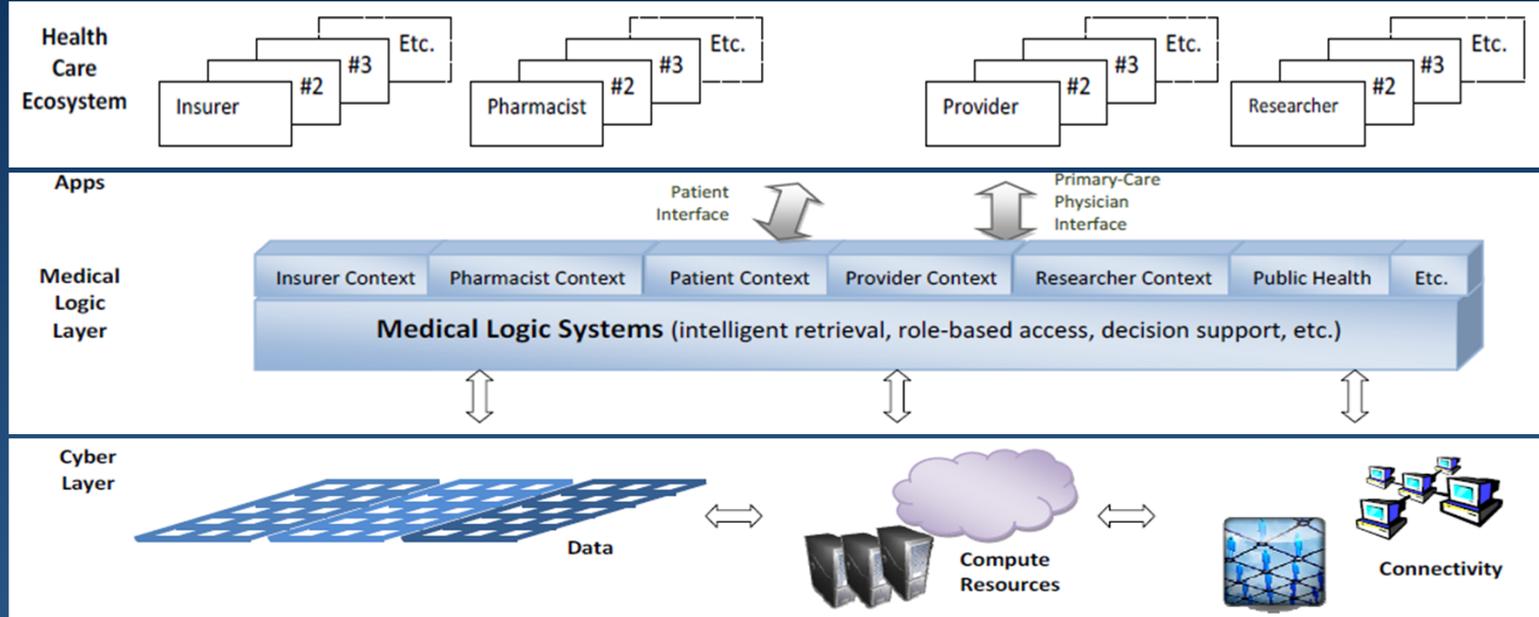
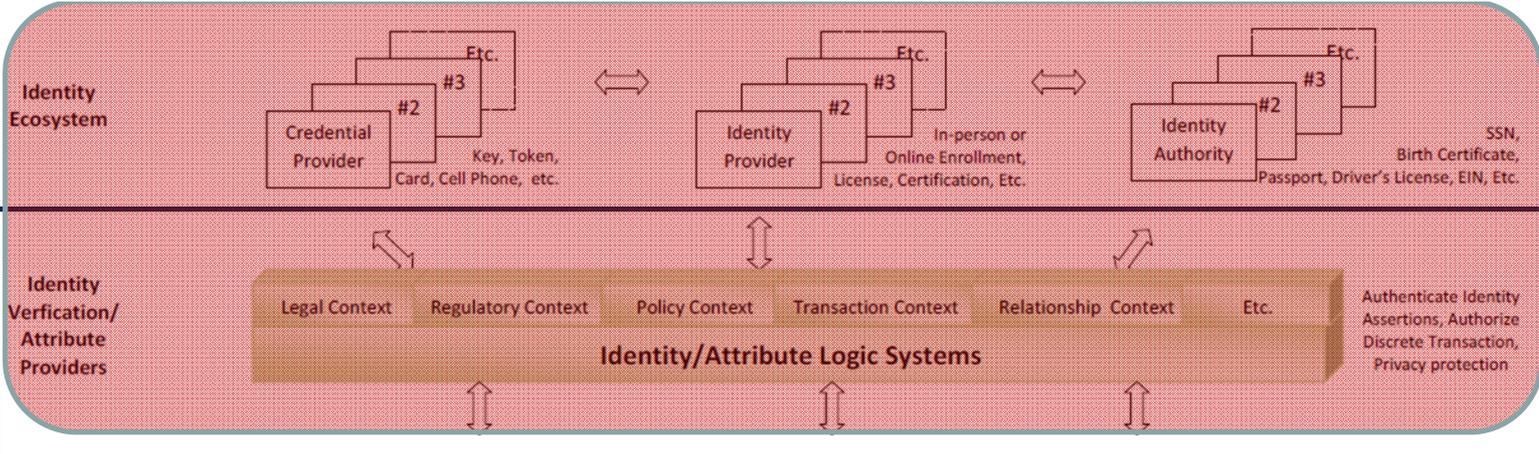


LEARN MORE

INDUSTRY INNOVATION COMPETITION — 2011 —

Challenge #2: Create enhancements or novel uses of Blue Button



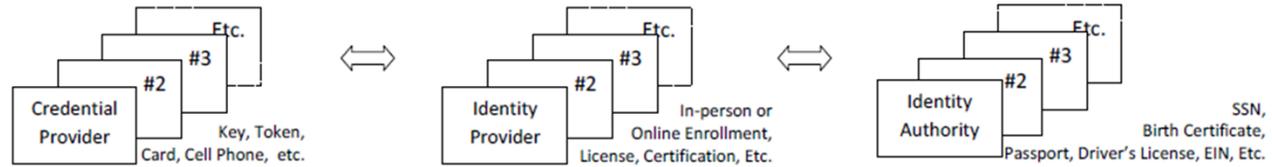


National Strategy for Trusted Identities in Cyberspace (NSTIC)

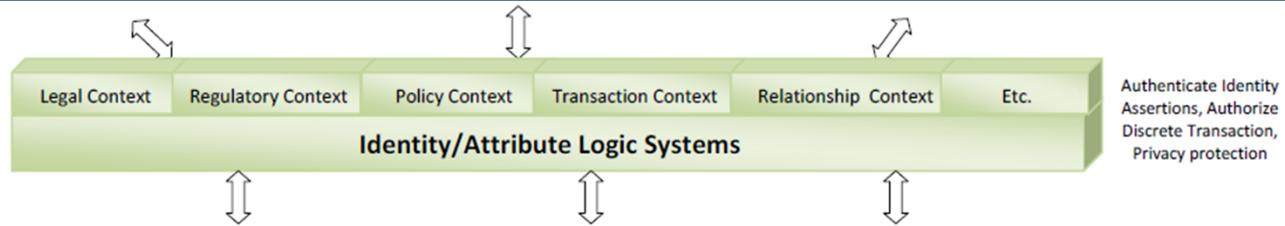
- Goals:
 - Promote private sector leadership
 - Increase privacy protection
 - Reduce identity theft and fraud
- Program Office – Department of Commerce



Identity Ecosystem



Identity Verification/Attribute Providers



Patient

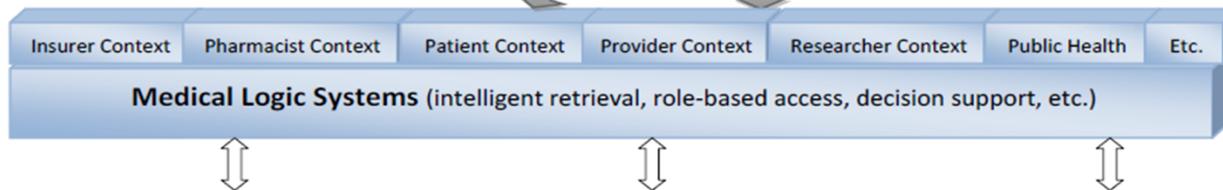
Health Care Ecosystem



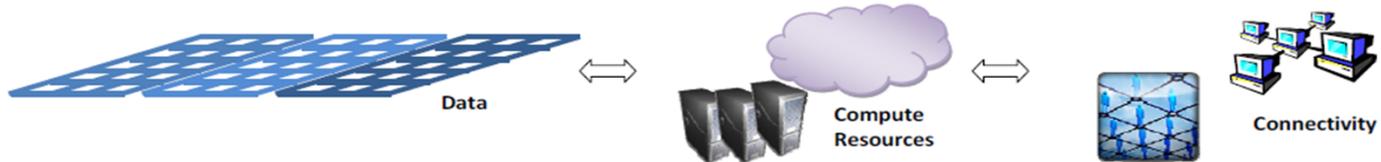
Apps

Patient Interface and **Primary-Care Physician Interface**

Medical Logic Layer



Cyber Layer



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CGreer@ostp.eop.gov

