



Department of Health & Human Services
Office of the National Coordinator for
Health Information Technology

San Diego Beacon Community Collaborative

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Overview

- **National perspective**
 - Office of the National Coordinator (ONC)
 - ARRA & HITECH Act
 - Beacon Communities project
- **Local perspective: San Diego Beacon Collaborative**
 - Goals & Objectives
 - Features
 - Opportunities

National Perspective

THE RECOVERY ACT: TRANSFORMING THE AMERICAN ECONOMY THROUGH INNOVATION

1. Modernizing transportation, including advanced vehicle technology and high-speed rail;
2. Jumpstarting the renewable energy sector through wind and solar energy;
3. Building a platform for private sector innovation through investments in broadband, Smart Grid, and health information technology; and
4. Investing in groundbreaking medical research.





“Health IT & Exchange has the potential to improve health care quality, prevent medical errors, increase the efficiency of care provision and reduce unnecessary health care costs, increase administrative efficiencies, decrease paperwork, expand access to affordable care, and improve population health.”

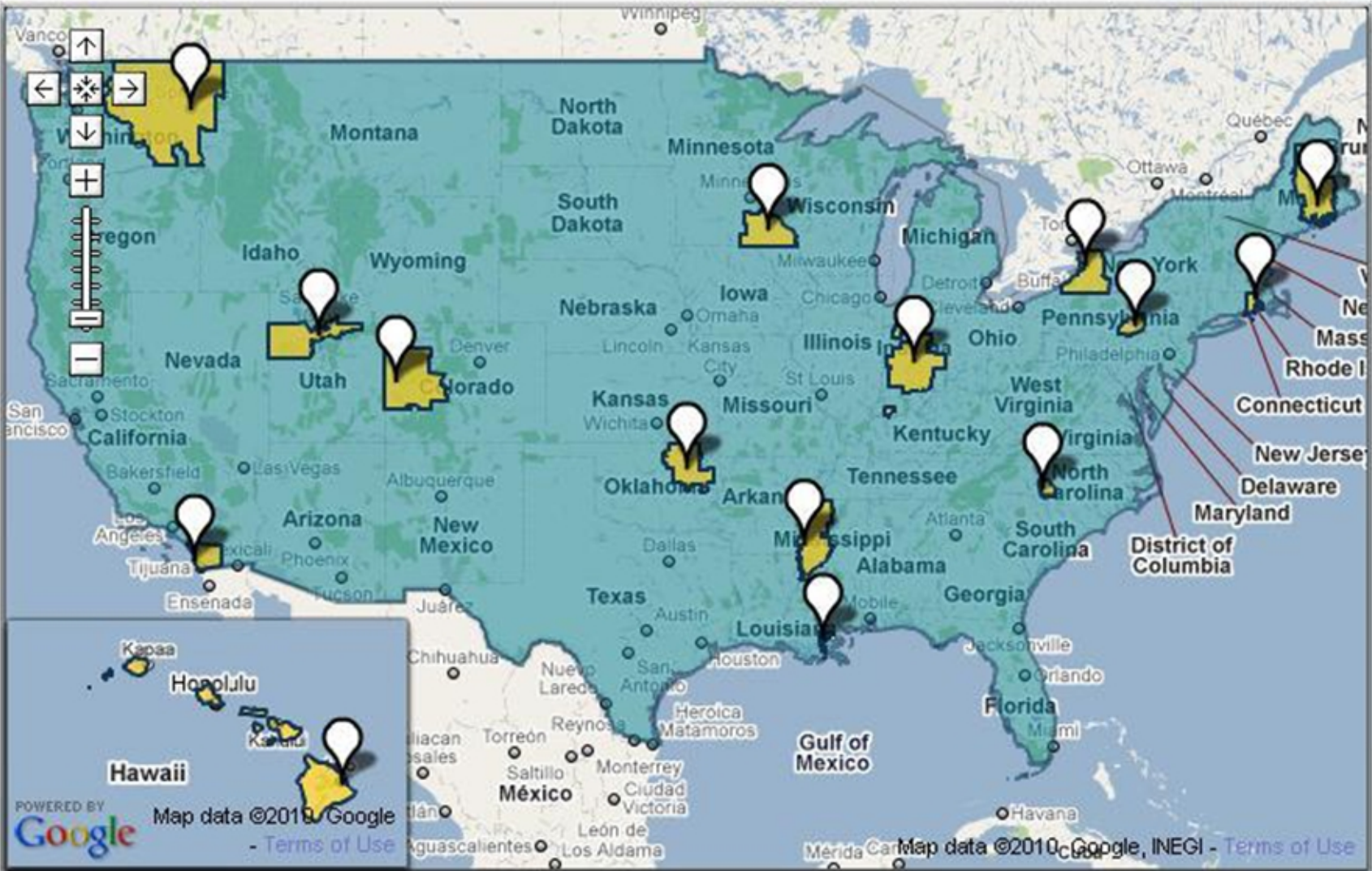
ARRA & HITECH Act

- **HITECH Priority Grant Programs → nationwide meaningful use**
 - Medicare and Medicaid Meaningful Use Incentive Payments
 - Health IT Regional Extension Center Program
 - Grants to states and state-designated entities for Health Information Exchange (HIE)
- **Beacon Community Program → strengthen the health IT infrastructure to achieve strategic goals**
 - \$250m in funding to strengthen the health IT infrastructure in the US to achieve strategic goals
 - *Higher quality, more cost-efficient, patient-focused healthcare*
 - *Improvements in population health*
 - Pilot communities to make marked & sustainable improvements in health care quality, safety, and efficiency

Beacon Priorities

- **Health IT and Exchange Infrastructure**
- **Integration of Health IT into Care Delivery**
 - Instituting relevant clinical decision supports
 - Improving medication management
 - Improving care coordination
 - Engaging patients and families
- **Evaluation, Monitoring and Feedback**
 - Establishing systems for measurement and feedback of health systems quality, safety, and costs relevant to project goals

Beacon Community Programs



Local Perspective

SAN DIEGO BEACON eHEALTH COMMUNITY

Search Site >

ABOUT DOWNLOAD RFP RFP Q & A LINKS MEDIA NEWS GET THE FACTS

"These pioneering communities are going to lead the way in bringing smarter, lower-cost health care to all Americans" VP Joe Biden

SAN DIEGO BEACON COMMUNITY

San Diego is one of only 17 communities across the country chosen as a Beacon community to lead the nation in advancing health information technology (health IT). Our community has been awarded a three-year, \$15.3 million federal grant from the Office of the National Coordinator for Health Information Technology to spur improvements in our community by fostering innovation and adoption of health IT.

Health IT has the potential to improve healthcare quality, prevent medical errors, increase the efficiency of care provision while reducing unnecessary health care costs, increase administrative efficiencies, and expand access to affordable care and improve population health. These advances should lead to better, more effective medical care by improving health IT for patients, providers, clinics and hospitals, resulting in better health for all San Diegans.

ABOUT US >

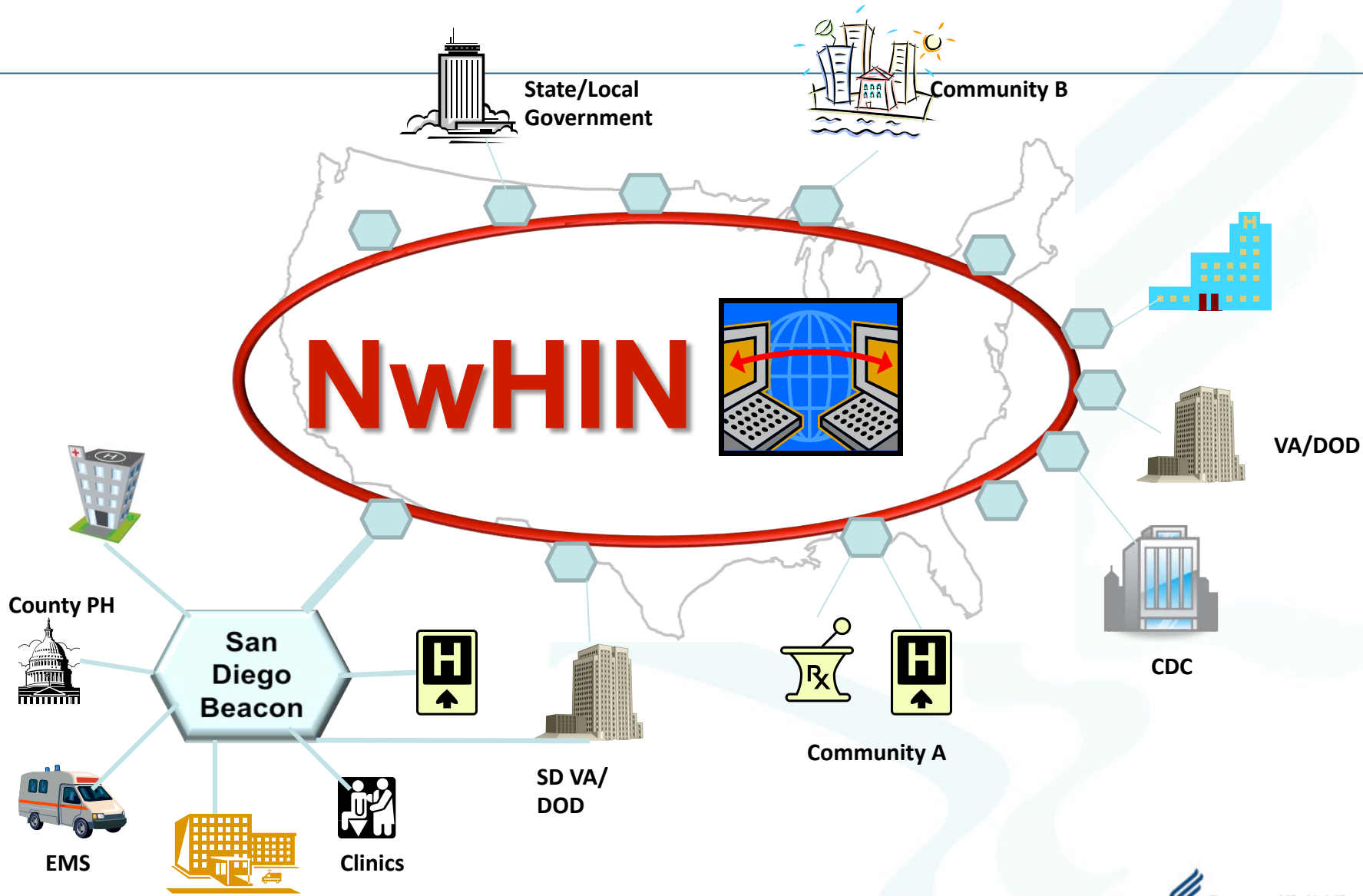
WORKING TOGETHER

As the only Beacon community selected in California, there is great excitement and attention focused on San Diego. Our collaborative includes a wide variety of partners including:

- Rady Children's Hospital
- Council of Community Clinics
- County of San Diego
- Naval Medical Center San Diego
- Hospital Association of San Diego & Imperial Counties
- Kaiser Permanente
- UC San Diego Health System
- San Diego City/Fire EMS
- Scripps Health
- Sharp Healthcare
- VA San Diego Healthcare System

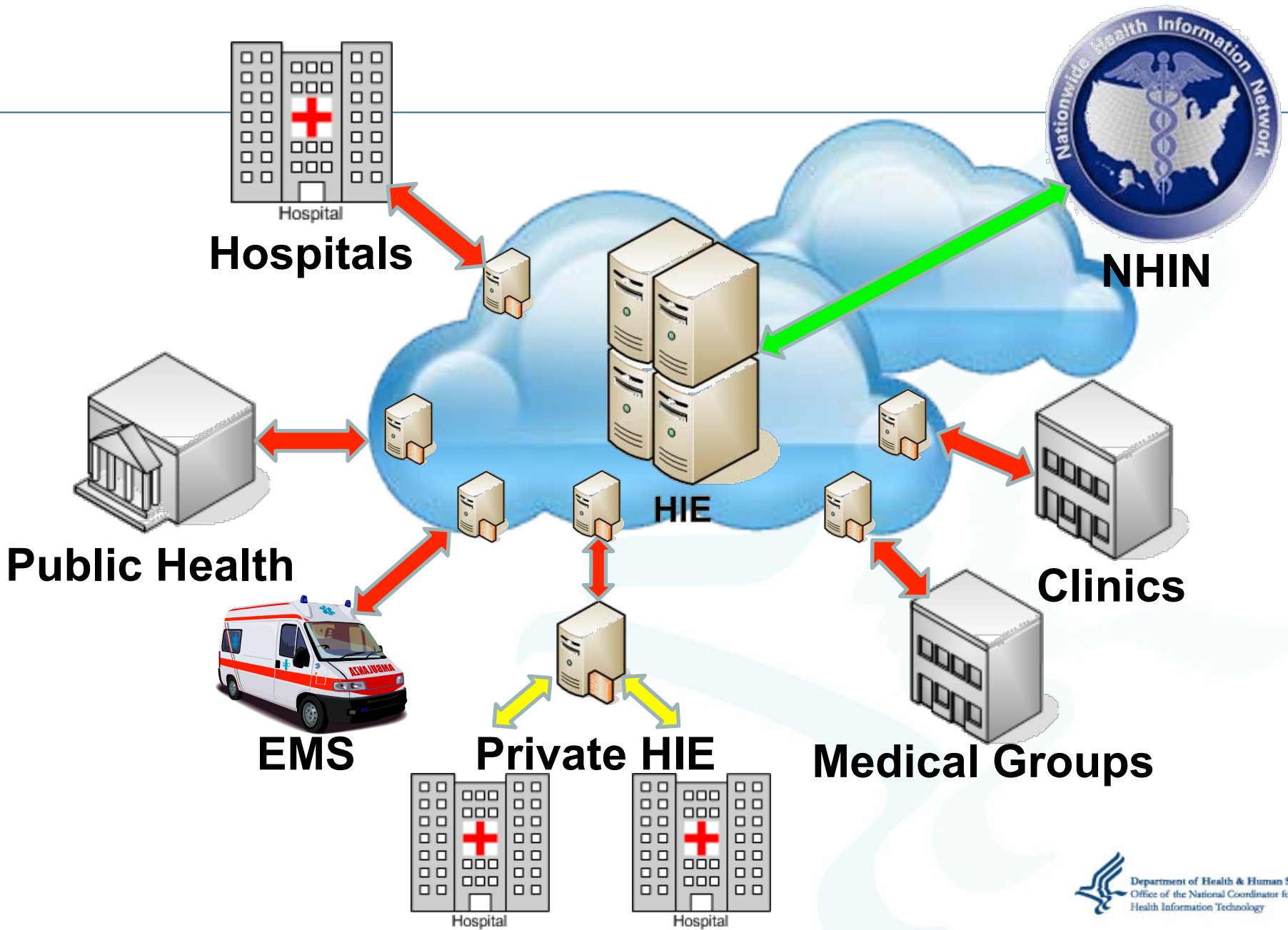
San Diego Beacon Goals & Objectives

- **Build Regional HIE Infrastructure**
- **Integrate Health IT into Care Delivery**
 - Coordinate clinical improvement efforts across the community
 - Improve care coordination among providers
 - Engage patients and families
- **Quality: Cardiovascular disease**
 - Acute care: EKG transmission from EMS to Hospitals for acute Myocardial Infarctions
 - *Reduce Time to Catheterization*
 - *Reduce False Positive Rates*
 - Chronic care: *Reduce 30 day re-admissions*
- **Population Health**
 - *Improve Immunization* rates for children & at-risk adults
 - Improve Syndromic Surveillance
- **Cost Efficiency**
 - Reduce repeat ED visits and hospital admissions
 - *Reduce repeat Radiologic Imaging tests*



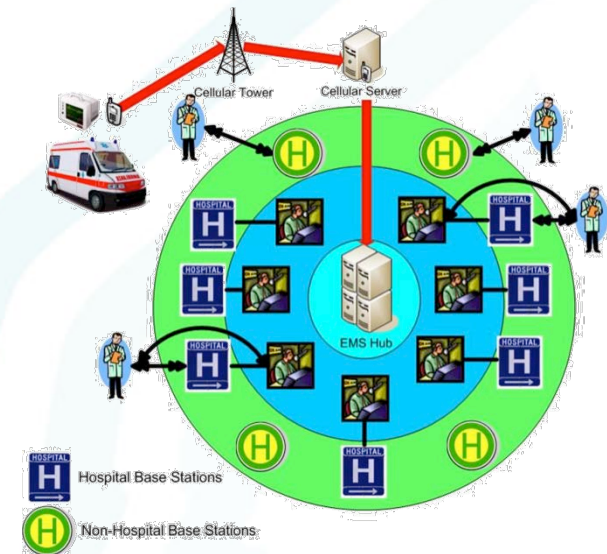
Health Information Exchange Infrastructure

- **Hybrid Federated Model**
 - NwHIN-compliant
 - Connect (VA, DOD)
 - Direct for secured messaging
 - Allows greater flexibility for providers, and more links to SD City EMS, County PH, SDIR
- **Compliance with state and national standards**
 - NHIN, CDC
 - Cal e-Connect, CalOHII
- **Real-time integrated interface**
 - One view within native EHRs



Health Information Exchange Features

- **Pre-hospital data available to hospitals electronically**
 - Pre-hospital record
 - ECG
 - Images
 - Search capability to the HIE
- **Immunization**
 - Optimize vaccine administration
 - Import data from pharmacies and non-traditional settings
 - Add Immunization Forecasting
- **Syndromic Surveillance**
 - Enhance reporting capabilities



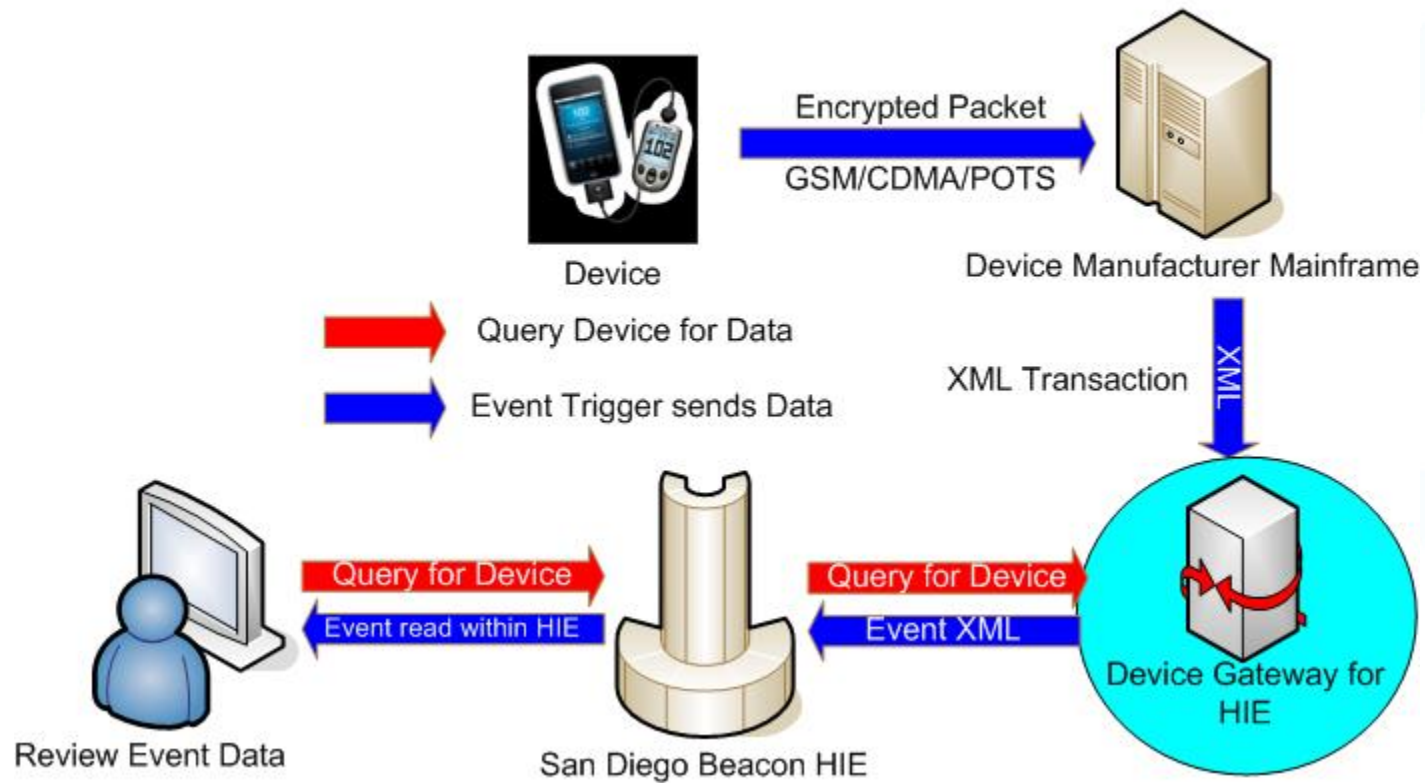
Health Information Exchange Features

- **Wireless Innovations**

- Pre Hospital
 - Defibrillators – Monitors sending EKG and Vital monitoring data via Bluetooth or 3G to receiving Hospital.
 - *Airstrip Cardiology* receiving real-time 12 lead data with the ability to harness prior hospital data
- Heart Failure
 - Wireless & Bluetooth home devices for weights and blood pressures that aggregates information and forwards the information to the patient's provider (s)
- Medication adherence tool
 - Texts reminders for patients to take their medications at the recommended frequency
- Immunization adherence tool
 - Text reminders for patients or parents to schedule there next set of immunizations
- Developing Standards with Industry: CallT2, Qualcomm, Wireless Life Sciences Alliance, West Wireless

Medical Devices

Wireless Device Gateway for HIE



Questions?

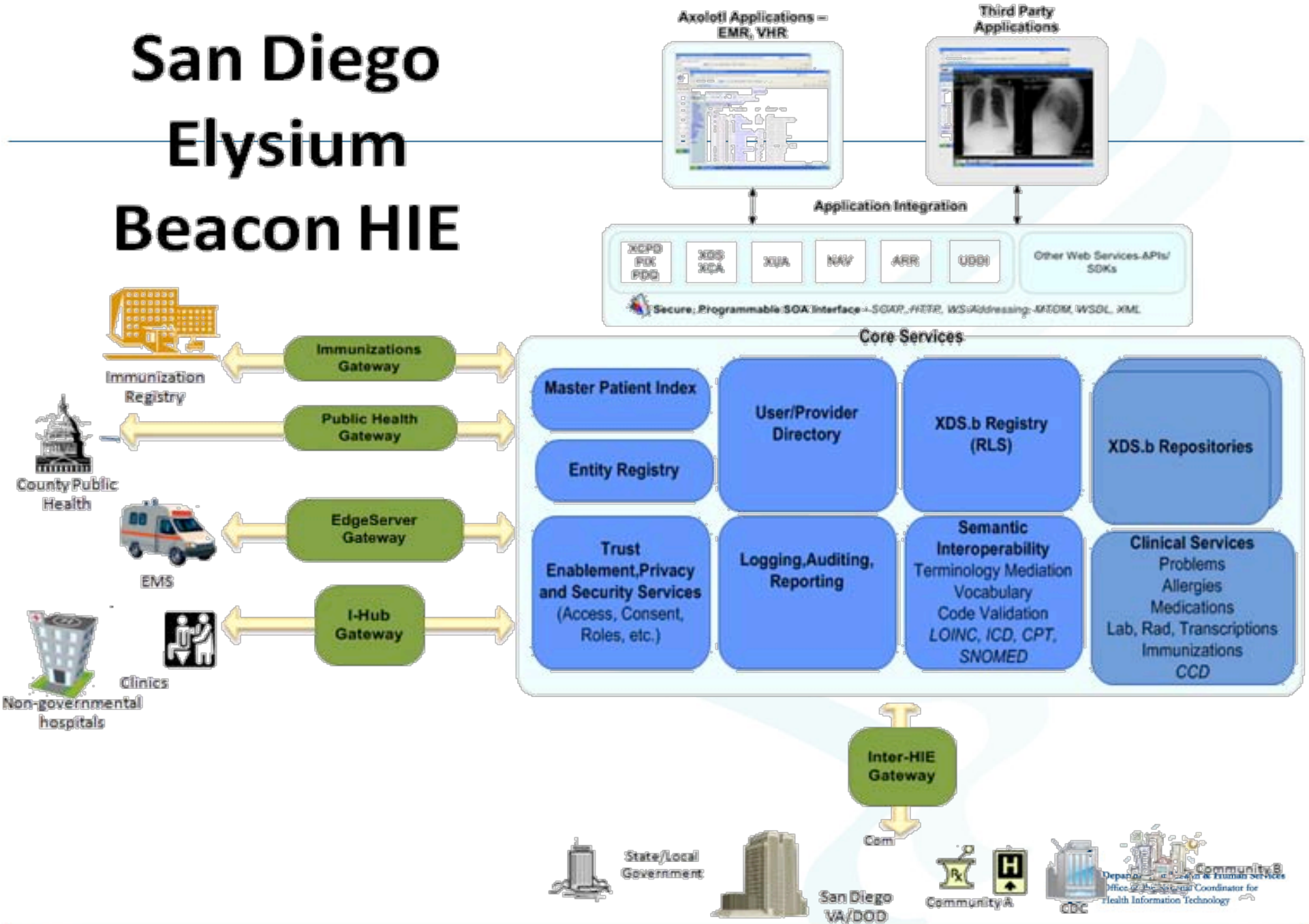
Connecting America for Better Health

Beacon Community Program

Awardee of the Office of the National Coordinator



San Diego Elysium Beacon HIE





Provider/Hospital EMR
e.g. Cerner, McKesson, Epic



Lab Information System



Radiology Information System



Medication



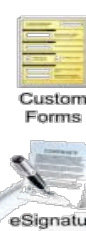
Public Health



Community Clinical Data

Elysium EdgeServers

EdgeServer Databases
Patient Index
User Directory
Entity Repository



Master Patient Index



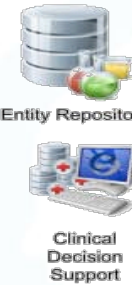
Elysium Server

Log, security, and audit tools

User Directory



Clinical Data Aggregator/Formatter



Clinical Decision Support



Registry & Reporting

Elysium Gateways



- Interoperability Hub
- SureScripts
- NHIN
- PHR

- Order
- Immunization
- Public Health



Elysium EMR Users
Elysium VHR Users



EMR Users
e.g. Allscripts, NextGen,
eClinicalWorks, Sage, Greenway, etc.



PHR Users



SureScripts



Public Registries



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