

# Overview of ONC Initiatives

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# Initialization

- **ONC** - Office of the National Coordinator for Health Information Technology
- **REC** - Regional Extension Service
- **GCREC** – Gulf Coast Regional Extension Center
- **HITREC** – Health Information Technology Regional Extension Center
- **HITECH** – Health Information Technology for Economics and Clinical Health
- **HIE** – Health Information Exchange
- **NHII** – National Health Information Infrastructure
- **SHARP** - Strategic Health IT Advanced Research Projects

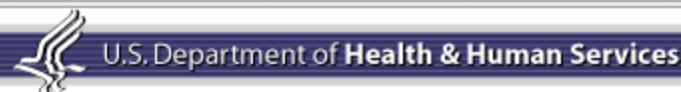


# Putting Health IT under ARRA in Historical Context

	Apollo Program	ARRA/Health IT
National goal	Manned spaceflight to the moon	Electronic health records for every American
Level of leadership	Presidential: John F Kennedy	Presidential: Barack Obama
Timeframe	1961 – 1969 (8 years)	2009 – 2014 (5 years)
Driver	Scientific exploration + National security	Enabler of health reform + Economic recovery
Total government funding	\$22B (1969 dollars)	\$19B (2009 dollars)
Management	NASA (gov't agency)	HHS/ONC (gov't agency)
Execution	Multiple contractors (private sector)	Multiple contractors (private sector) [note: educated guess]
Major challenges	<ul style="list-style-type: none"> <li>• Developing multiple, completely new technologies</li> <li>• Safety of astronaut lives</li> </ul>	<ul style="list-style-type: none"> <li>• Broad implementation of (partially) existing technology</li> <li>• Changing the behavior and attitudes of professionals and organizations</li> </ul>

# ONC Initiatives

- REC – Assist with EHRs in Primary Care
- SHARP – Research
- Community College Consortium – Workforce
- University Based Education – Workforce
- Beacon Community – Community Health Integration
- National Health Information Infrastructure – Standards for inter connection
- Competency Exam – for non-degree programs



# Health Information Technology *and* For the Future of Health Care



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## Coordinator's Corner: Updates from the National Coordinator for Health Information Technology



Dr. David Blumenthal

The following are part of a series of ongoing updates from Dr. David Blumenthal, National Coordinator of the National Coordinator for Health Information Technology (ONC) encourages you to enhance the quality, safety and value of care and the health of all Americans through the use of information technology.

For more information and to receive regular updates from ONC, please subscribe to our [Health IT News list](#).

### Update: July 13, 2010

- **Investing in the Future of Health Care with Electronic Health Records**

The Health Information Technology for Economic and Clinical Health Act (HITECH), part of the American Recovery and Reinvestment Act of 2009, has provided an unprecedented amount of funding to improve the quality and efficiency of our health care system through health information technology. This historic investment in HIT will advance health care in our country through adoption and use of EHRs and other

[Read more](#)

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- **7/13/10: Investing in the Future of Health Care**

- **6/18/2010: Establishment of the Temporary**

# Texas Initiatives

## Texas Health Information Exchange:

- Purpose: To develop a statewide exchange process through which electronic health information from different EMR systems can be converted into comparable information. The longer term goal is to have your health information anywhere, anytime, regardless of where it was entered or stored.
- Texas will use a network or networks model.

# Texas Initiatives

- Regional Extension Centers –RECs (4 in state of Texas): Each applicant in Texas applied separately but worked together in developing their proposals and developed the infrastructure for a statewide system. All four grant applications were funded by the ONC. The projects have formed a consortium of REC directors.

# Texas Initiatives

## Post Baccalaureate Certificate & Applied Master's Degree in Informatics

- Purpose: Train/educate higher level workforce of electronic medical record development and implementation.
- Texas State University in San Marcos received grant for consortium including UT Health and UT-Austin. Included in the programs will be post-baccalaureate certificate programs, some baccalaureate degree programs and graduate programs. UT Health will implement –by Spring 2011- a one year applied Master's degree in Informatics.

# Texas Initiatives

- Community college consortium:
- Led by Pitt Community College from North Carolina, this consortium includes 15 community colleges from 13 states. In Texas, there are 4 participating community colleges:
  - Houston Community College
  - Dallas Community College.
  - Austin Community College included in the Dallas Community College grant
  - Midland Community College

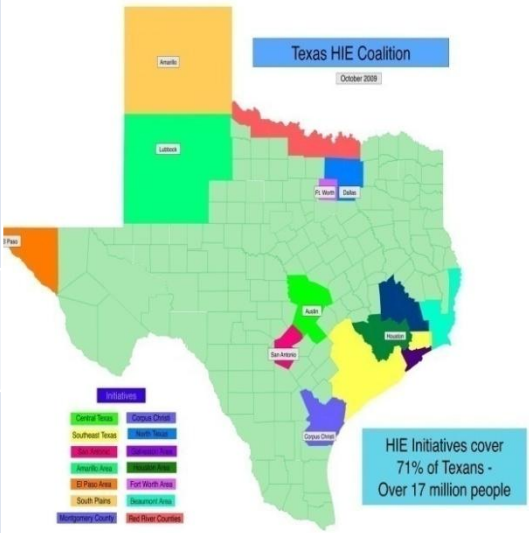
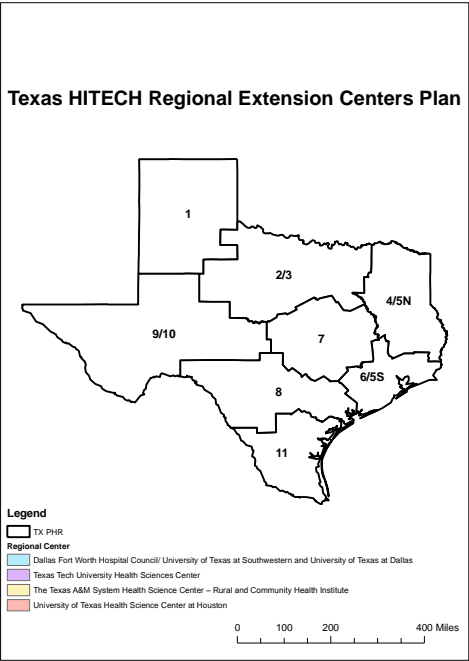
# **Texas Regional Extension Centers**

<http://www.txrecs.org>

# Texas Overview

Texas Health and Human Services Commission  
 Medicaid eHealth/THSA

Texas REC Coalition	Texas HIE Coalition
South (UTHSC)	Harris County, Galveston, Beaumont, San Antonio/ HASA, Corpus Christi, Montgomery, Southeast Texas Hospital, Kleberg
Central (TAMU)	Integrated Care Collaborative,
West (TexasTech)	El Paso, Amarillo, Lubbock, West Texas, South Plains
North (DFWHC, UT)	North Texas, FtWorth, Red River, Sandlot





# GCREC Services

Year 1: Outreach Services Targeted to Priority Primary Care Providers

- **Best practices of Technical Assistance Providers** for physicians (Workflow analysis, EMR Selection, Go-live, Meaningful Use), quality oversight through Quality Program and Level One Call Center Support
- **Best practices for EMR Vendors**, group purchasing, assurance on meeting MU (tested in lab), quality oversight through Quality Program and Level One Call Center Support
- **Training Programs** for Practitioner Education and Best Practices in Workforce Development Program for staff in Enrollment, Technical Assistance, and EMR Vendor
- **HIE Integration** for primary care and “network of networks”

# GCREC Services

Year 2:

- Launch Sustainability Program with specific test market projects.

Year 3-4:

- 100% paid by primary care and non-primary care providers.
- New product launches based on market research during Year 2

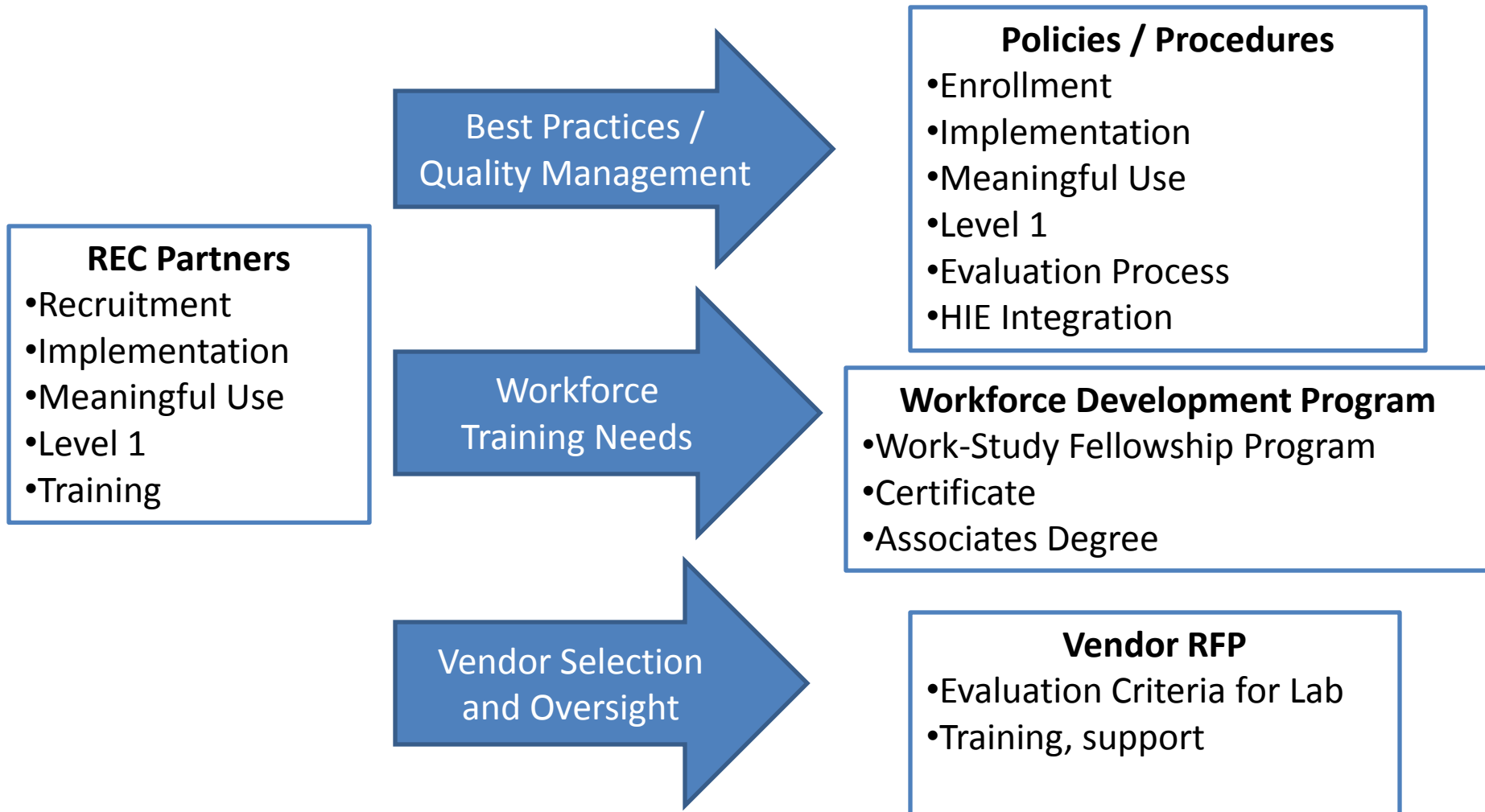
# Enrollment, Technical Assistance, EMR and Integrated Vendor Partners

Type	Groups	Key Elements
Enrollment	TMA, local medical societies, alumni associations, Lone Star	Enroll into the REC. Participate in Best Practices / Quality Management Program
Technical Assistance	Texas Medical Foundation (State QIO), others to be defined as volume grows	Paid to deliver core Technical Assistance Services. Participate in Best Practices / Quality Management, Vendor Selection
EMR	To be selected by RFP. Currently have practitioners actively enrolling in eCW/ GE	Agree to usability testing of training, support, meaningful use, group purchasing, outsource First Line Tech
Integrated Partners (Hospitals-doctors):Enroll, TA, EMR	MHHS (eClinical Works / GE) Christus (eClinical Works / GE)	Participate in Best Practices / Quality Management

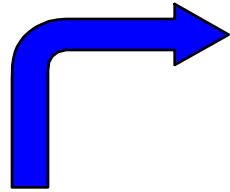
# All Enrollment, Technical Assistance, and EMR Vendor Partners

- Best Practices and Quality Management Program for
  - Practice Enrollment
  - Workflow analysis
  - Contract with EMR Vendors
  - Project plan for implementation
  - Training
  - Integration with local HIE
  - Demonstrate “Meaningful Use”

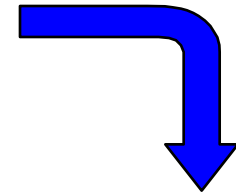
# Best Practices Initiation for Quality Management Program



# Quality Management Program Overview of Enrollment, Technical Assistance, and Vendors

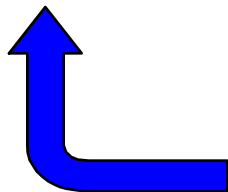


**Data Collection  
Core Milestones**

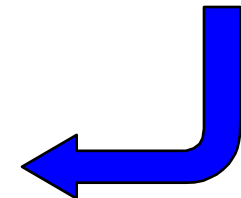


**Outcomes  
Analysis of  
Metrics**

**Training for REC Vendors  
for Quality  
Management Policies  
and Procedures**



**Annual Meeting Reviews**



# Support Services Provided by the Texas Regional Extension Centers

## **Support Services for:**

- EHR Implementation
- Education and Training
- Project Management
- Incentives
- Meaningful Use

# SHARP AWARDS

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



National Center for Cognitive Informatics and  
Decision Making in Healthcare  
(NCCD)

**PI:** Jiajie Zhang

**Co-Directors:** Jiajie Zhang & Vimla Patel

# NCCD - Mission

- Bring together a collaborative, interdisciplinary team of researchers across the nation with the highest level of expertise in patient-centered cognitive support research from
  - biomedical and health informatics, cognitive science, computer science, clinical sciences, industrial and systems engineering, and health services research
- Conduct
  - short-term research that addresses the urgent usability, workflow, and cognitive support issues of HIT
  - long-term, breakthrough research that can fundamentally remove the key cognitive barriers to HIT adoption and meaningful use
- Translate research findings to the real world through a cooperative program involving
  - researchers, patients, providers, HIT vendors, and other stakeholders
    - to maximize the benefits of HIT for care quality, efficiency, and safety

# Individual Research Projects

<b>Projects</b>	<b>Project Title</b>	<b>Leaders</b>
Project 1	Work-Centered Design of Care Process Improvements in HIT	Zhang, Butler, Walji
Project 2A	Cognitive Foundations for Decision Making: Implications for Decision Support	Patel, Cohen
Project 2B	Modeling of Setting-Specific Factors to Enhance Clinical Decision Support Adaptation	Greenes
Project 3	Automated Model-based Clinical Summarization of Key Patient Data	Sittig
Project 4	Cognitive Information Design and Visualization: Enhancing Accessibility and Understanding of Patient Data	Johnson, Shneiderman, Plaisant
Project 5	Improving Communication in Distributed Environment	Patel, Singh

# Workforce

- Local/State Initiatives
- Where SHOULD we go?

# Community College

- Roles supported by this program include:
  - Practice workflow and information management redesign specialist
  - Clinician/practitioner consultant
  - Implementation support specialist
  - Implementation manager
  - Technical/software support staff
  - Trainer

# University Based

- The six roles targeted by this program are:
  - 1. Clinician/Public Health Leader
  - 2. Health Information Management and Exchange Specialist
  - 3. Health Information Privacy and Security Specialist
  - 4. Research and Development Scientist
  - 5. Programmers and Software Engineer
  - 6. Health IT Sub-specialist
- Applied MS in Electronic Health Records

# Workforce Short Term

- Workers to
  - Assess
  - Install
  - Maintain
  - Support
  - Move to Meaningful Use

# Workforce Longer Term

- Workers to:
  - Supplement Meaningful Use
  - HIE integration
  - Adapt to changes in Healthcare Reform
  - Migrate to NEXT generation of systems

# Education and Workforce

- ‘Educational Ladder’
  - Certificates
  - Associate Degree
  - Baccalaureate
  - Graduate Certificate
  - Applied Masters
  - Research Masters
  - PhD

# Workforce Implications

- Internal to Existing Programs
  - New knowledge
  - See role as ‘knowledge workers’
  - ‘Electronic-ification’ of current practice
  - Integrate technology into practice
  - Integrate with new roles

# Workforce Implications

- External to Existing Programs
  - New Programs will be developed
    - Not just ones identified by ONC
    - Maintenance of EHRs & infrastructure in rural areas
    - Design & development of PHRs
    - Privacy & security personnel
    - HIE specialists
- Need to define new programs in structured way