



# West Virginia Health Information Network

## Building the WVHIN – Next Steps WVHIN Board of Directors Meeting

August 17, 2007

# Summary

- The West Virginia Health Information Network (WVHIN) is meant to serve as a single health information exchange for the state of West Virginia.
- West Virginia is competing to win the Health Information Exchange contract from the Centers for Disease Control and Prevention in order to consolidate all public health information exchange on this one network architecture.
- West Virginia is competing to win the NHIN2 contract with the Office of the National Coordinator of Health Information Technology (ONC) of the Federal Government to build a statewide health information exchange using the architecture of the NHIN.
- West Virginia Medicaid won more than \$13M in grants from the Federal Government for Medicaid modernization and much of the funding is for health information exchange to serve Medicaid members.
- WVHIN seeks Board approval to contract with the federal government, and to support and participate in these projects.
- WVHIN seeks Board approval to proceed with the next stage of planning for the WVHIN build out and implementation, to include development of the detailed work plan and budget request to the Governor's office.

# Overview: CDC “Accelerating Public Health Situational Awareness Through Health Information Exchanges”

- WVHIN was proposed as a subcontractor on Accenture’s team, along with the WV Bureau for Public Health, the West Virginia Medical Institute, and a number of technology partners. Anticipated award date is mid-end September.
- The Federal Government is continuing to try to prove the benefits of Health Information Exchanges, and one of the more compelling use cases is the ability to manage public health crises better through the exchange and analysis of public health data.
- This contract seeks to accelerate the real-time ability of local, state, regional, and non geographic entities to share data and information to enhance rapid response to, and management of, potentially catastrophic infectious disease outbreaks and other public health emergencies.
- The details of the RFP include:
  - Multiple awards will be made. CDC has reported that funds are limited and that the total number of awards made under this contract will be affected by the amount of funds available, the number and quality of proposals received, and the amount of each individual award.
  - Base year is from September 07 to September 08, plus 4 option years
  - Participating HIE must include public health as a key component
  - The scope of the contract requires implementation and evaluation of the Biosurveillance Use Case and Minimum Data Set

# Overview: HHS “Nationwide Health Information Network Trial Implementations”

- WVHIN submitted an RFP on July 23 as the prime contractor, teaming with Accenture, the West Virginia Medical Institute and a number of technology partners. Anticipated award date is mid-end September.
- Under this contract, HHS is trying to prove the benefits of Health Information Exchanges, and extend the work of the NHIN prototypes that concluded in January 2007. HHS wants to conduct trial implementations of the NHIN and test these trial implementations with each other to ensure that they can all work together to implement an interoperable “network of networks” built on top of the Internet.
- The details of the RFP include:
  - HIE’s must be the prime contractor
  - Up to 15 contracts will be awarded, 5 of which will be small business set aside and the remainder will have a 40% small business requirements for subcontracted dollars
  - Limited funding available for the base year (previously reported as \$20m total for all contracts)
  - Base year is from September 07 to September 08, plus 2 option years
  - Scope requires that the proposed solution supports the summary patient record exchange aspects of the Emergency Responder use case plus 2 others from; EHR, Consumer Empowerment (2 use cases), Biosurveillance, Emergency Responder, Medication Management and Quality
  - Requirement is for a “trial” implementation similar to the NHIN Prototype where the solution will not be used for clinical decision making in the base year

# Overview: CMS Medicaid Modernization Grants

- West Virginia Medicaid won more than \$13M in grants from the Federal Government for Medicaid modernization and much of the funding is for health information exchange to serve Medicaid members. The five grants include:
  1. Personal Responsibility
  2. Health Systems Improvement
  3. Applied Technology
  4. Stronger Medicaid Program
  5. Enhanced Medication Management
- All five of these grants can benefit from synergy from utilizing a statewide electronic health information exchange, which is the purpose of WVHIN.
- In order to use state and federal funds to WV's best advantage, WVHIN is encouraging West Virginia Medicaid to use the WVHIN to implement the health information exchange functions expected of Medicaid modernization.

## Better HIE for Medicaid

- The WVHIN plans to create an all-payer, all-payment health information exchange utility service with a sustainable business model for providers and payers, reducing the costs and improving the quality of health information exchange for both providers and payers and giving the public confidence that state government is supervising the creation, use and access to their electronic health records.
- The WVHIN will serve the purposes of:
  - (1) a single portal to the statewide health information network,
  - (2) a single central data repository and connection for EHRs and PHRs,
  - (3) a data warehouse for analysis, and
  - (4) a health information exchange for other state government agencies, saving them and the state government from having to create separate networks and portals for separate state agencies.

# The Next Stages of Planning for the WVHIN

- As a natural progression from the WVHIN Roadmap effort conducted in April 2006, WVHIN must begin work immediately to coordinate the construction of the WVHIN to deliver the functions required by WV law and the CDC and NHIN contracts.
- WVHIN and Medicaid must also determine how they can work together.
- By October 2007, WVHIN must develop a detailed workplan and budget to support the development and operations of the WVHIN and submit this budget request to the Governor's office for 2008-2009 funding.

# Planning Scenarios

Each of the following scenarios will shape the overall WVHIN development timeline, priority of WVHIN functions, and state funding requirements:

**Scenario A:** WVHIN participates in both the CDC and HHS Federal Government contracts for health information exchange

**Scenario B:** WVHIN participates in either the CDC or HHS contracts

**Scenario C:** WVHIN participates in neither of the two contracts

*\*All scenarios assume Medicaid wants to use the WVHIN to support Medicaid transformation*

# Potential WVHIN Functionality (by HIE Function)

## Clinical/Public Health

### Exchange of Core Clinical Data

- *Electronic access to the results of lab, x-ray, or other diagnostic exams*
- *Medical record information transfer to other providers with patient consent*
- *Family history, demographics, allergies, medications, diagnoses, and conditions*
- *Secured electronic consultation b/w providers and patient*
- *Ensure privacy of patient health info*
- **Medicaid modernization functions**

### Public Health

- *Disease management*
- *Disease surveillance reporting*
- *Health alert system and other applications related to homeland security*

### Applications

- *Automatic drug-drug interaction and allergy alerts (e-prescribing)*
- **Care management, EHR, PHR**
- *Physician order entry*
- *Prescription drug tracking*
- *Registries for vital statistics, cancer, case management, immunizations, and other public registries*
- *Automatic preventive medicine alerts*
- *Links to evidence based medical practice*
- **Referrals, appointments, registration**
- **Quality indicators**
- **Medicaid modernization functions**

## Administrative

### Claims Processing

- *Electronic claims submission*
- **Insurance/benefits eligibility verification**
- **Pre-certification and prior approval**
- **Medicaid modernization functions**

### Provider and Member Education

- *Educational offerings for health care providers*
- *Links to patient educational materials*
- **Access to list of approved providers**
- **Medicaid modernization functions**

### Credentialing

- *Insurance credentialing system*

## Payment Transactions

### Payment

- **Remittance advice from payers to providers**
- **Patient and payer payments**
- **Medicaid modernization functions**

### Grants or Contracts Supporting WVHIN Functions

- **HHS NHIN Trial Implementation Contract**
  - **CDC Public Health HIE Contract**
  - **Medicaid Modernization Grants**
  - **Other HIE Functions**
  - **Other Functions Required By WV Law Not Covered by Grant or Contract**
- \*Functions in Italics are Required By WV Law*

# Potential WVHIN Functionality (by WV Law/Grant/Contract)

**NHIN Trial Implementation Contract:**  
*Link to Other HIEs (a network of networks)*



**CDC Public Health HIE Contract:**  
*Link to Existing WV Public Health Systems*



## HIE Functions Required for Self-Sustaining Model

- Benefits/insurance eligibility verification
- Electronic claims processing

- Remittance advice from payers to providers
- Patient and payer payments

### Clinical

- Central database to coordinate care across health care sources
- Ability to report clinical indicators and outcome measures
- Health management and predictive modeling
- Access to preferred drug lists
- Access to medical advice
- Remote monitoring

## Representative HIE Functions Required by Medicaid Modernization

### Administrative

- Member personal health plan tracking
- Healthy rewards account tracking
- Member education
- Pharmacy prior authorization system
- Web portal for pharmacy claims

### Clinical

- Automatic drug-drug interaction and allergy alerts
- Automatic preventive medicine alerts
- Electronic access to the results of laboratory, e-ray, or other diagnostic examinations
- Links to evidence-based medical practice
- Medical record information transfer to other providers with the patient's consent
- Physician order entry
- Prescription drug tracking
- Secured electronic consultations between providers and patients
- Ensure privacy of patient health care information

## HIE Functions Required by WV Legislature

### Public Health

- Disease management
- Disease surveillance and reporting
- Health alert system and other applications related to homeland security
- Registries for vital statistics, cancer, case management, immunizations, and other public registries

### Administrative

- Educational offerings for health care providers
- Links to patient educational materials
- A single-source insurance credentialing system for health care providers
- Electronic health care claims submission and processing

- Identity & Access Management
- Electronic Master Person Index
- EHR/PHR
- Terminology & Standardization, Security & Privacy Architecture

## Base HIE Technology Foundation/Infrastructure

- Portal Technology
- Reporting/Analytics Architecture
- Messaging Architecture

-Clinical Data Repository

