

CONNECTICUT HEALTH TECHNOLOGY WORK GROUP

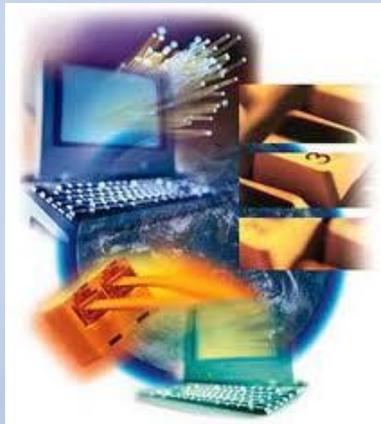
**CT DEPARTMENT OF PUBLIC HEALTH (DPH)
IT APPLICATIONS OVERVIEW**

Presented By: Hari Chanda

AGENDA

- **Overview of DPH IT Landscape**
- **Overview of Critical Applications**
- **DPH & State Health Information Exchange**

DPH IT Landscape – At a Glance



100 Applications



CT Towns



CT Healthcare Facilities



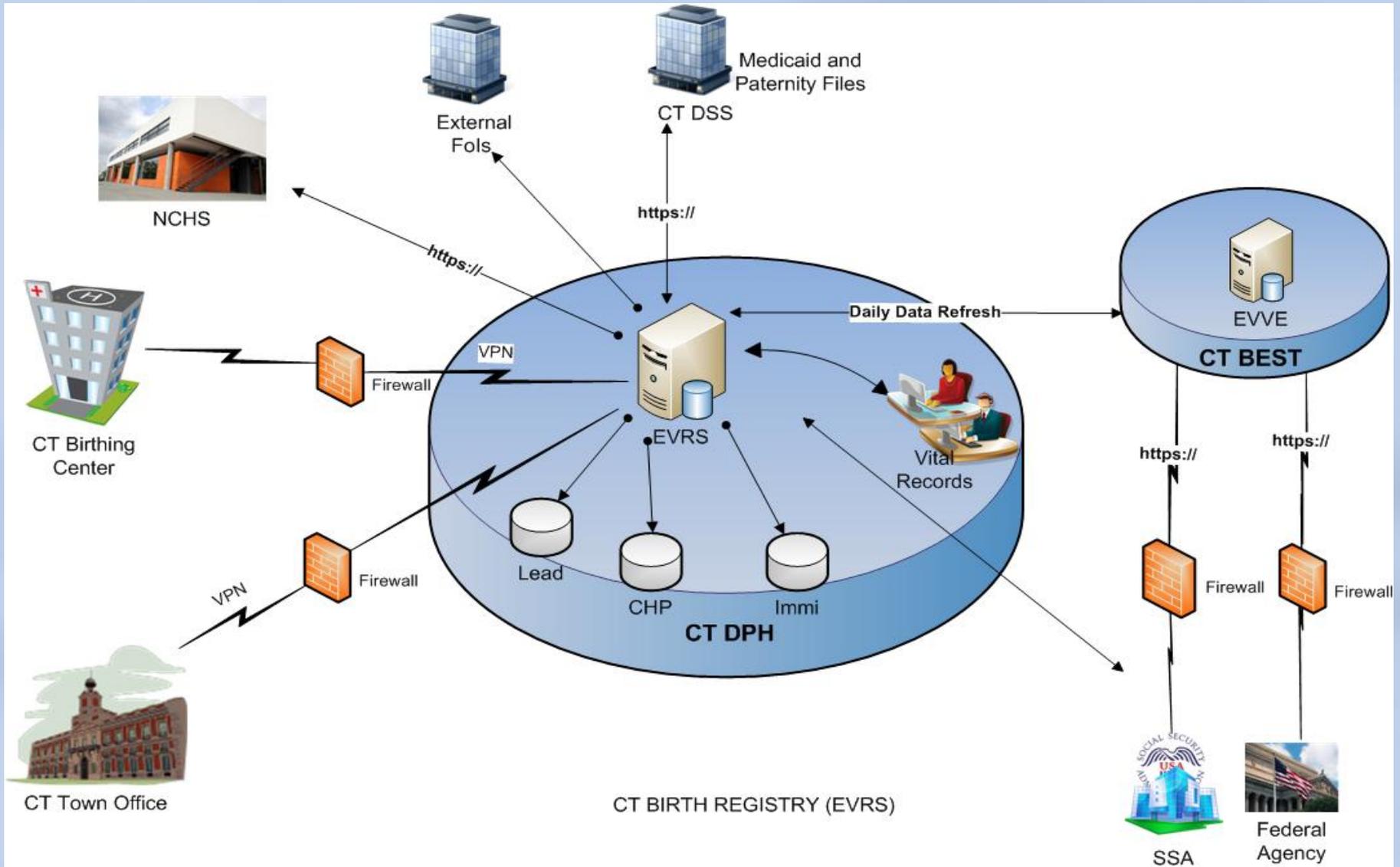
Laboratories



Electronic Vital Records System (EVRS)

- **Vital Records (VR) Program – The legal custodian of Birth, Death, Fetal Death, Marriage and Civil Union records**
- **EVRS System – Birth Registry**
 - **Central repository of Birth and Fetal Death Records**
 - **Captures apprx 39K Births & 200 Fetal Deaths that occur in CT each yr**
 - **Contains birth records dating back to 1959**
 - **Used by CT Birthing Centers, Town Offices and State VR programs**
 - **Social Security numbers are assigned**
 - **Birth Certificates are generated**
 - **Interfaces with the “Electronic Verification of Vital Events System (EVVE)”**

Electronic Vital Records System (EVRS)



Special Supplemental Nutritional Program for Women, Infants and Children (WIC)

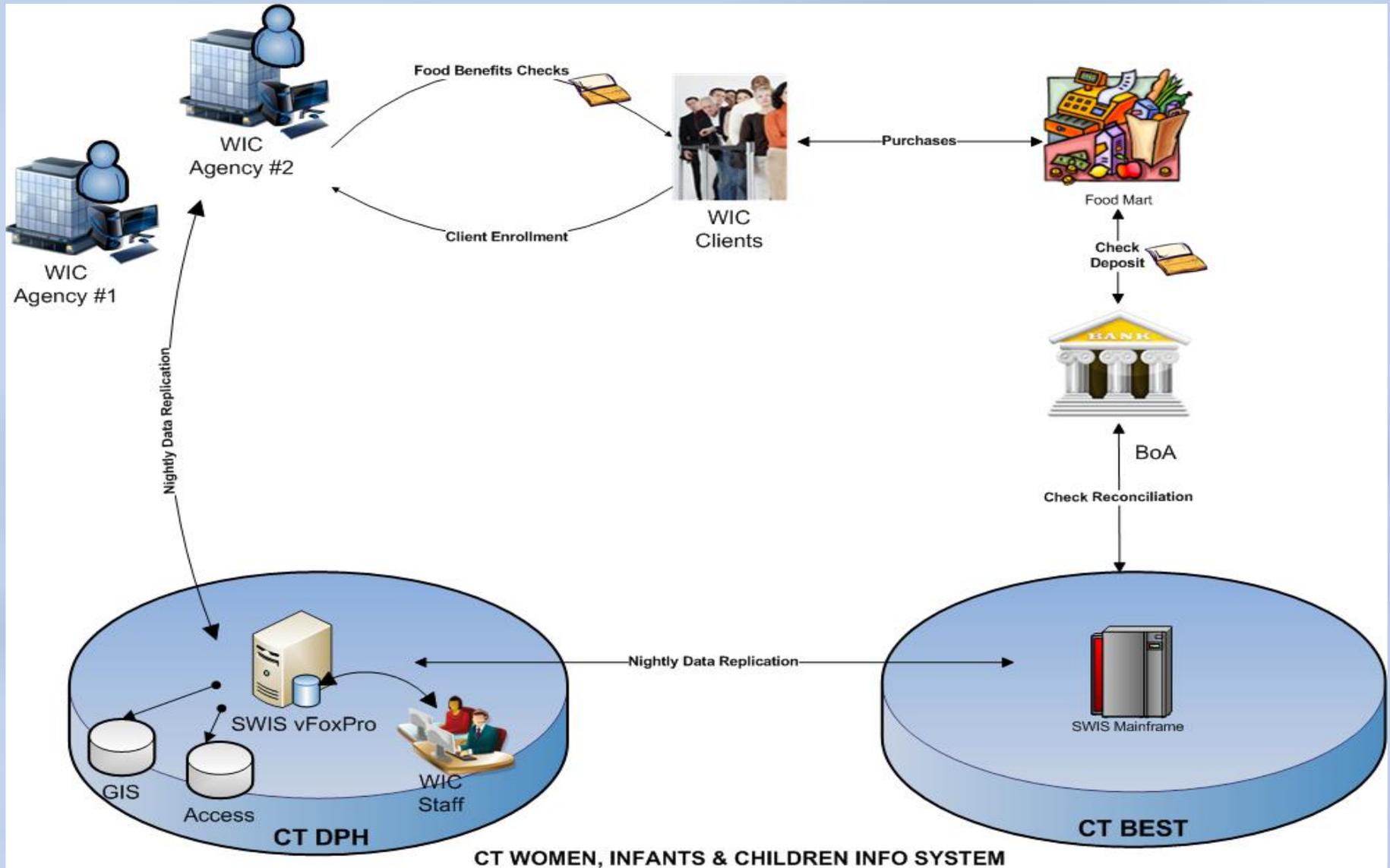
- **WIC Program - Serves the special nutritional needs of**
 - **Low-income pregnant and post-partum women**
 - **Infants and children up to the age of 5 years**
 - **Serves food benefits to 60K clients in excess of \$46M a year**
 - **1.8M purchase transactions**
 - **Manages over 600 retail vendors**
- **Statewide WIC Information System (SWIS)**
 - **Enrollment of WIC applicants**
 - **Maintenance of confidential health information**
 - **Assessment of nutritional risk**
 - **Issuance of WIC food benefits – 10K checks per day**
 - **Used by 23 Local WIC agencies Satellite offices, State WIC Program**

Special Supplemental Nutritional Program for Women, Infants and Children (WIC)

● WIC - New Business

- Pursuant to section 17(h)(12)(B), CT DPH must implement an Electronic Benefit Transfer (EBT) system throughout the State by October 1, 2020
- CT received ARRA funding from USDA for determining an EBT ready MIS solution
- DPH recently completed PAPD and IAPD phases of the MIS project
 - Feasibility Study is under review by USDA
- Estimated timeline for implementation: Three (3) years from the date of FNS approval

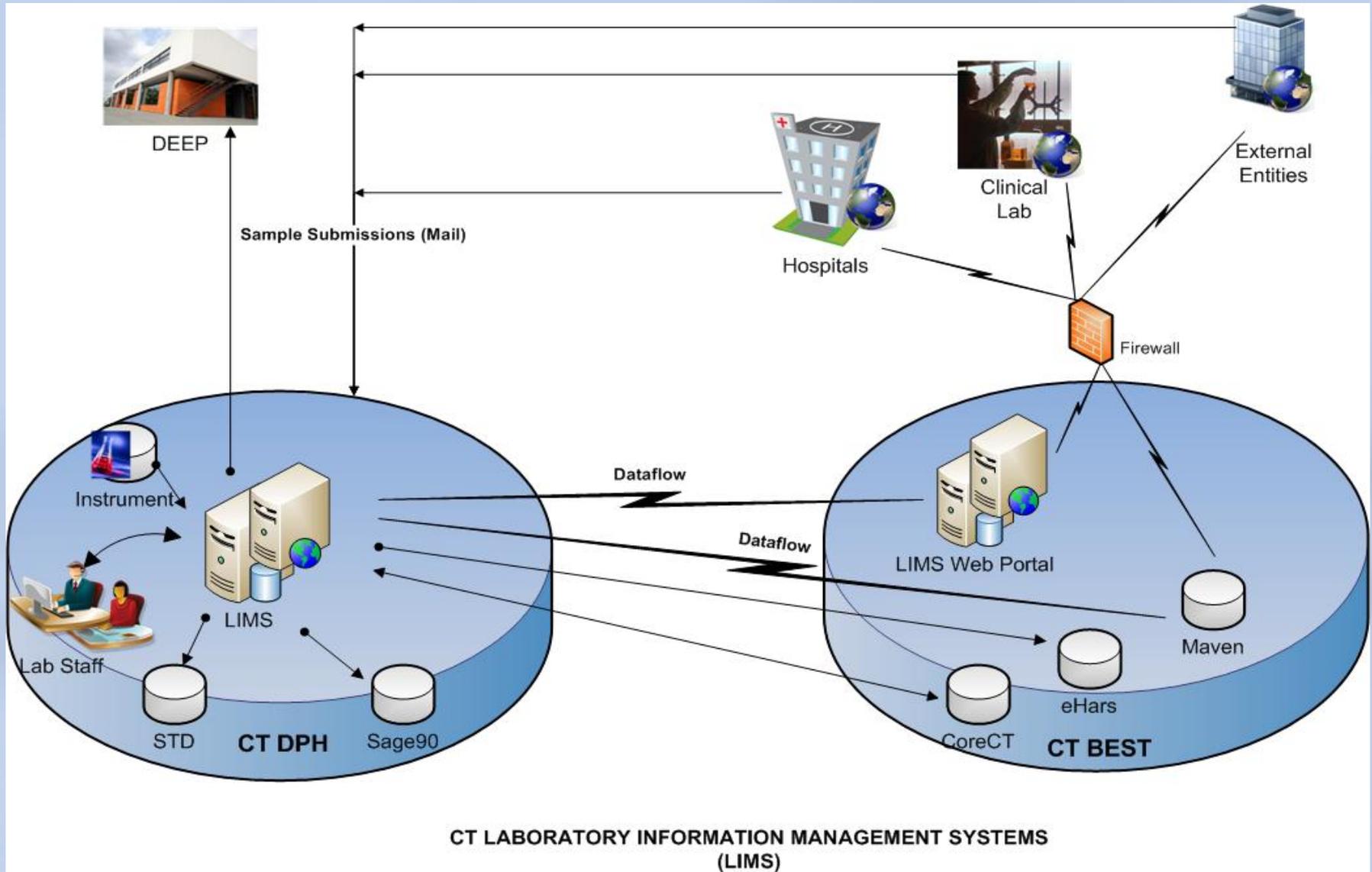
Special Supplemental Nutritional Program for Women, Infants and Children (WIC)



Laboratory Information Management System (LIMS)

- **DPH Laboratory (PHL) Program – Areas of services:**
 - **Biological Sciences**
 - **Environmental Chemistry**
 - **Bio-monitoring**
 - **Offers over 350 types of tests, processes about 250K samples a year**
 - **85% of operations to Government clients– No cost services**
 - **15% of operations to private clients – Generates \$2M revenue**
- **LIMS System –**
 - **A highly configurable COTS Web application from Chemware Inc.**
 - **HIPAA, PHIN and NEDSS compliant**
 - **Supports SNOMED & LOINC Codes**
 - **Supports HL7 & XML data formats**
 - **Interfaces - 94 Lab instruments, DPH Surveillance & Financial systems**

Laboratory Information Management System (LIMS)



CT Immunization Registry and Tracking System (CIRTS)

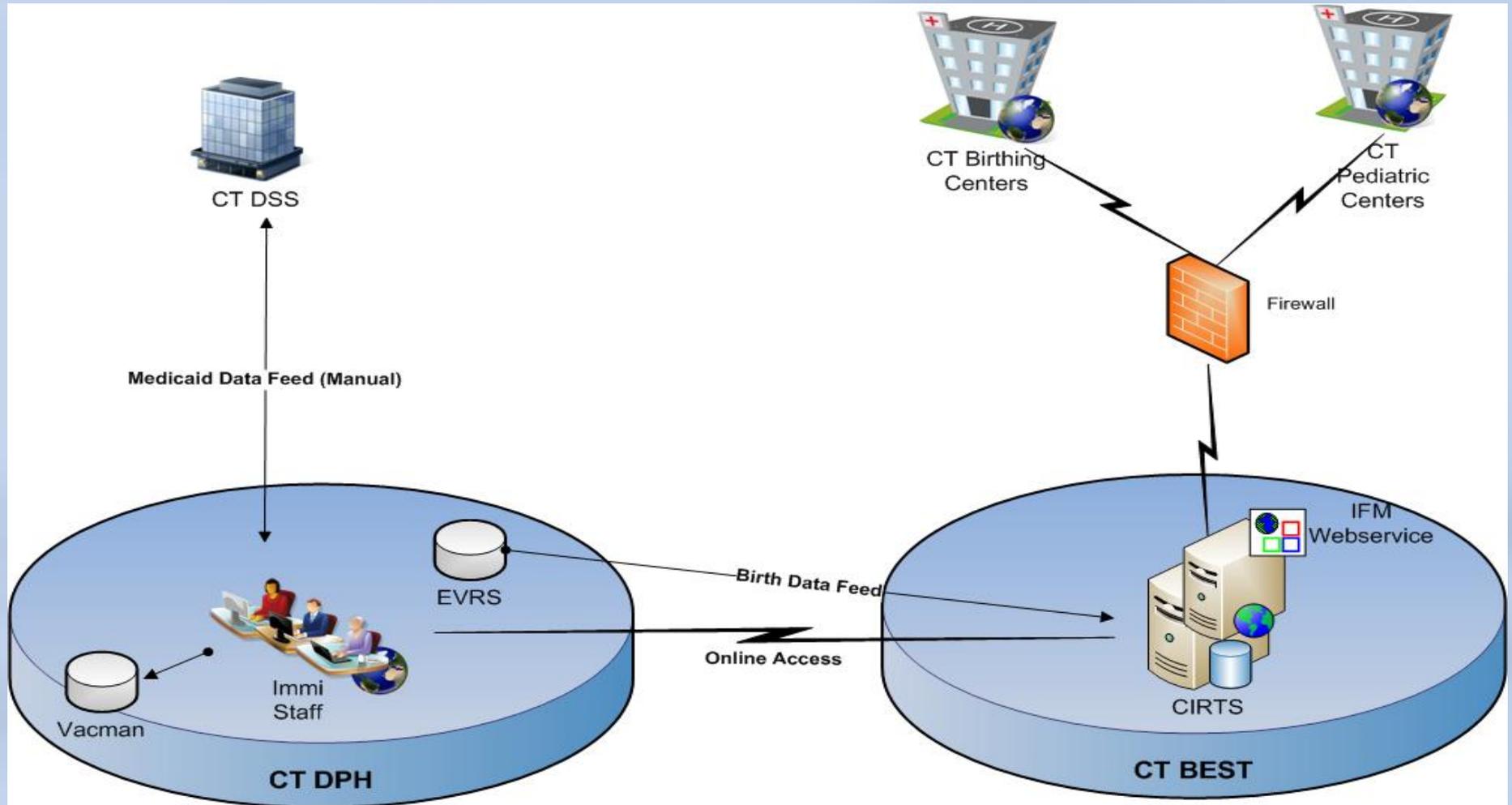
● Immunization Program –

- Prevent disease, disability, & death from Vaccine preventable diseases
- Surveillance, case investigation & control, monitoring Immunization levels
- Provision of vaccine, and professional and public health education

● CIRTS Systems –

- A highly configurable COTS Web application from Consilience
- Interfaces with 3rd party Immunization Forecast Module
- Centralized repository of information from CT providers
- Contains data on over 630K children and 9.5M immunization events
- Provides up-to-date immunization info and forecasts to providers
- Consolidate records from multiple providers into one records
- Comply with 12 CDC functional standards

CT Immunization Registry and Tracking System (CIRTS)



CT Immunization Registry and Tracking System

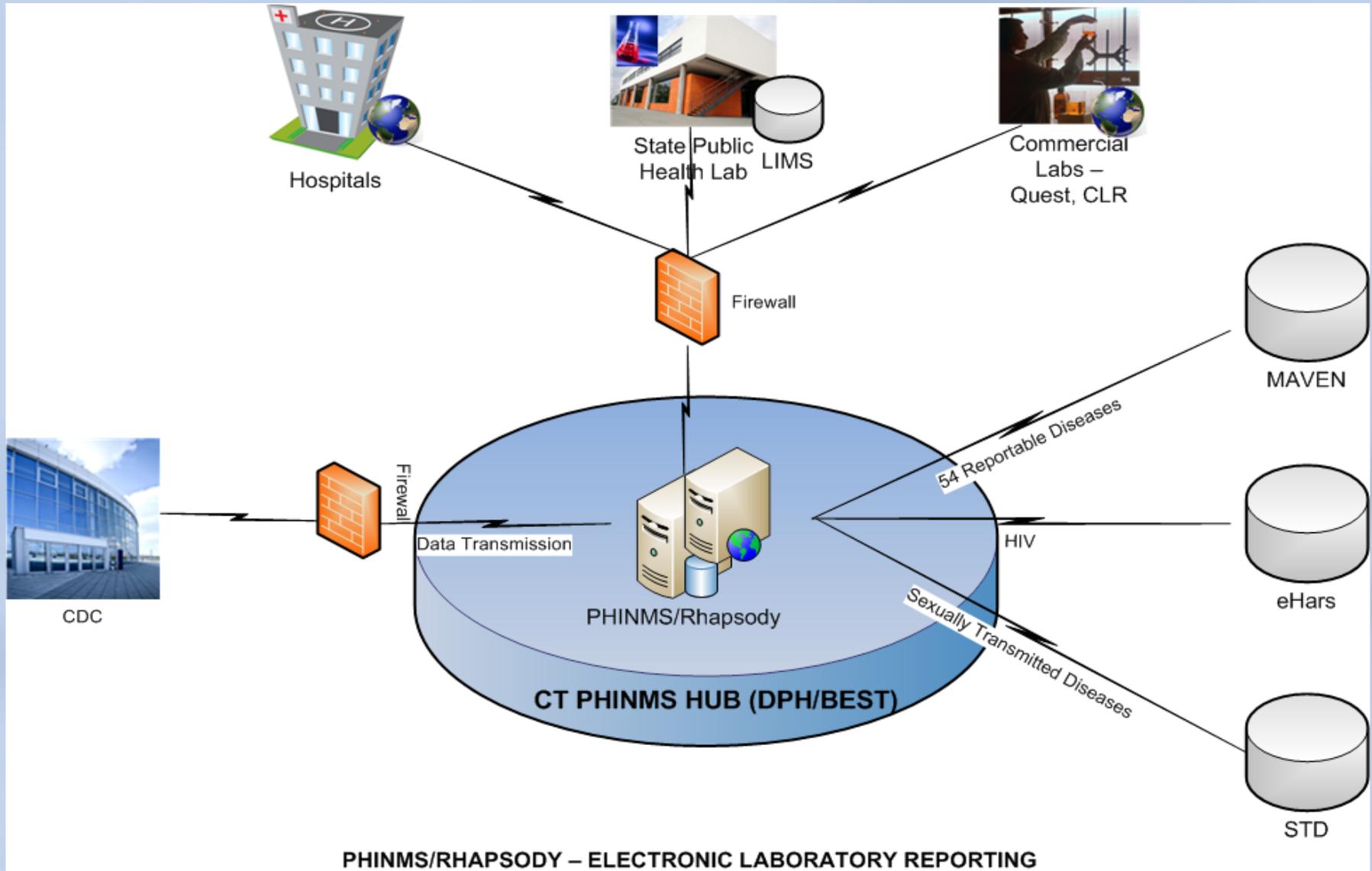
Public Health Information Network Messaging (PHINMS) – Electronic Laboratory Reporting (ELR)

- **Backbone technology - Systems interoperability & Health Info Exchange**
- **PHINMS System**
 - **Securely transports encrypted data over the internet between public health systems**
 - **Uses Electronic Business Extensible Markup Language (ebXML)**
 - **Software Provided by CDC at no cost to the State**
 - **Works with Win 2000/2003/XP, Solaris10, Red Hat Linux ES Rel 4**
- **Rhapsody Engine**
 - **Provides translation and validation of data**
 - **Handles data in numerous formats - HL7, XML, CSV etc.**
 - **Maps local Laboratory codes to standards codes (LOINC, SNOMED)**

Public Health Information Network Messaging (PHINMS) – Electronic Laboratory Reporting (ELR)

- **Electronic Laboratory Reporting**
 - **Comply with Meaningful Use Requirement**
 - **Phase I – The objective is to implement ELR of reportable diseases by 12/31/2011**
 - **State Laboratory – CT DPH Laboratory**
 - **At least one (1) Commercial Laboratory – Quest**
 - **At least one (1) Hospital Laboratory – The Hospital of Central Connecticut (THOCC), Bridgeport Hospital and Middlesex Hospital**

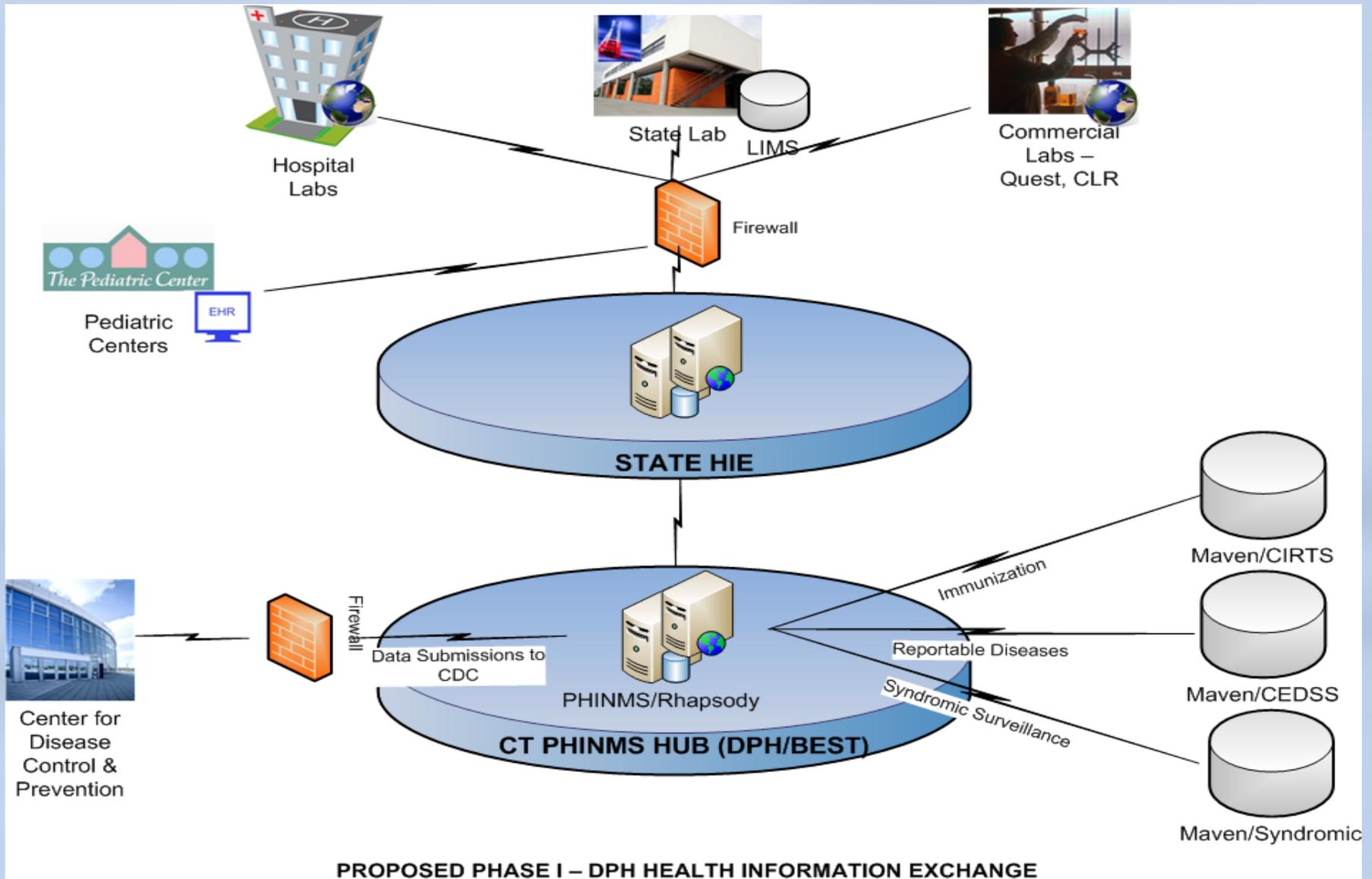
PHIN MS/Rhapsody – Electronic Laboratory Reporting



DPH & Health Information Exchange

- **HITECH ACT - \$44.7B estimated incentive payments from Medicare-Medicaid for Hospitals & Eligible Professionals**
- **Hospital/provider must be meaningful user to receive payment**
 - **Focuses on clinician behavior to improve care**
 - **By law, a “meaningful user” must:**
 1. **Use a certified EHR**
 2. **Exchange health information**
 3. **Report quality measures**
- **What HITECH means for DPH?**
 - **In order to become “meaningful users”, providers must meet one of the following three Public Health measures -**
 1. **Submit electronic data to CT DPH Immunization Registry**
 2. **Submit electronic Syndromic data to CT DPH Systems**
 3. **Provide electronic Reportable Lab Results to CT DPH Systems**

DPH & Health Information Exchange



THANK YOU !