#### **EARLY INNOVATOR LEARNING COLLABORATIVE**

Information Technology in Support of Health Insurance Exchanges and Modernized Medicaid Eligibility Systems: Early Innovator Status Update

August 9, 2012

For audio, dial: 1-888-600-4866; Passcode: 989271



Welcome & Overview of Early Innovator Collaborative	5 min.	Manatt
Setting the Stage: Update from the Early Innovator States on Exchange & Integrated Eligibility System Development	10 min.	NESCIES
Early Innovator State Panel	60 min.	Maryland Massachusetts New York Oregon
Q&A	15 min	All







- Established by CMS to bring state and federal partners together to work toward establishing a solid health insurance infrastructure.
- Five collaborative workgroups are addressing: early innovator (EI) information technology (IT) solutions; coverage expansion; value-based purchasing; data analytics; and promotion of IT efficiency and effectiveness Medicaid enterprise systems.
- Coordinated by Mathematica Policy Research, the Center for Health Care Strategies, and Manatt Health Solutions.



### Early Innovator (EI) Learning Collaborative

- Purpose: Forum for EI and other innovator states to collaboratively work on common operational/business issues that they are facing in their development. Create/identify and disseminate various tools and artifacts that can be shared with non-EI states.
- Structure: Bi-weekly call. Periodic "all state" webinars for EI LC participating state(s) to present on topic specific challenge/approach.



# **Early Innovator Meeting Topics**

Meetings to Date	Topic
December 21	Kick Off
January 12	LC Approach and Topic Review
January 26	Plan Management
February 9	Eligibility and Enrollment
February 23	Federal Hub
March 8	SHOP Procurement and Federal Hub Follow Up
March 22	Shared Services
April 5	PBGH Plan Choice Decision Support Rules
May 3	Shared Services Release Schedule
May 17	Premium Billing
May 31	State Priority Information Needs
June 14	IRS Data: Authorized Use and Safeguards
June 28	Updates and Future Meeting Planning
July 12	No Meeting
July 26	Identity Proofing





 Products generated by the collaboratives, including technical assistance tools and state resources, will be disseminated to all states in a publicly available online library on Medicaid.gov.



First "tool kit" release expected in August 2012.



 Early Innovator Collaborative meeting materials and summaries are available on CALT:

https://calt.hhs.gov/sf/docman/do/listDocuments/projects.se\_port al\_sandbox/docman.root.early\_innovator



 The collaboratives will host a series of All-State webinars to share emerging practices and recommendations.



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### **Early Innovator Presenters**

#### New England Collaborative for Insurance Exchange Systems (NECIES)

Michael Tutty (Michael.Tutty@umassmed.edu), Project Director, NECIES

#### Maryland

Kevin Yang (<a href="mailto:kyang@dhmh.state.md.us">kyang@dhmh.state.md.us</a>), Chief Information Officer at the Maryland Health Benefit Exchange

#### Massachusetts

Jason Hetherington (<u>jason.hetherington@state.ma.us</u>), Director of IT Services at the Massachusetts Health Connector

#### New York

Beth Osthimer (bxo03@health.state.ny.us), Director of Medicaid and Health Reform at the New York State Health Department

#### Oregon

Rusell Hargrave (<u>rusell.hargrave@state.or.us</u>), Senior Health and Human Service Technology Advisor at the Oregon Health Authority and Human Services, Office of Information Services

# El State Panel



# Information Technology in Support of Health Insurance Exchanges and Integrated Eligibility Systems: *Update from the "Early Innovator" States*

#### Michael Tutty, MHA, PhD

New England Collaborative for Insurance Exchange Systems (NESCIES) University of Massachusetts Medical School August 9, 2012



# **Tight Deadlines for Exchange Operations!**

- Regulations implementing the Affordable Care Act require HHS to approve or conditionally approve Statebased Exchanges no later than January 1, 2013, for operation in 2014.
- Even if a State-based Exchange cannot be completed by October 2013, options for temporarily leveraging the FFE exist through State Partnership model
- The development lifecycle for updating and/or building information systems, including procurement, can be prolonged. Time is not our friend!

# **HIX: Flexible Options for States**

State-based Exchange

State
Partnership
Model

Federallyfacilitated Exchange

States may use Federal Services for:

- Premium tax credit determinations
- Exemptions
- Risk Adjustment
- Reinsurance

States operate:

- Plan Management and/or
- Consumer assistance

States may also run:

- Reinsurance
- Medicaid & CHIP eligibility determinations

States may run:

- Reinsurance
- Medicaid & CHIP eligibility determinations

# Kev Issues for State-Based Exchange IT Decision Making

- Degree of Integration with Medicaid and other State Systems
- State Systems and Technology Baseline
- Deadlines for Exchange Development
- Funding and Sustainability for development and operation

# **Tiered Approach to Reusability**

- Advantages of reuse are lower costs, faster software development
- HIX components designed for reuse should leverage established designs, application frameworks, and cloud computing
- Tiered approach gives flexibility to accommodate each state's requirements and platform

Tier 1
Share
Documents,
Processes and
Knowledge

#### Tier 2

Share & Reuse Code, Library and Packages

# Tier 3

Jointly procure hardware/software and manage deployments

# Early Innovator (EI) Cooperative Agreement Program

- El states are charged with designing and implementing the information technology (IT) infrastructure needed to operate HIXs
- Required to develop "reusable and transferable" technology components
- Grantees represent different regions of the country, as well as different Exchange governance structures, IT systems and approaches

# State Considerations When Looking For Information Technology Solutions

- Look at states with similar IT profiles and business processes
- Consider the costs/benefits and timing of various technological approaches
- Don't start from scratch Leverage other states' and federal deliverables and services

Don't go it alone! We're all trying to meet the same deadlines/deliverables!

# Thank you! For further information:

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New England Collaborative for Insurance Exchange Systems (NESCIES)

www.nescies.org



# DEPARTMENT OF HUMAN RESOURCES MARYLAND HEALTH BENEFIT EXCHANGE DEPARTMENT OF HEALTH AND MENTAL HYGIENE

**Early Innovator Panel Discussion** 

August 9, 2012

# Maryland Approach to Health Insurance Exchange (HIX) Technology Enablement

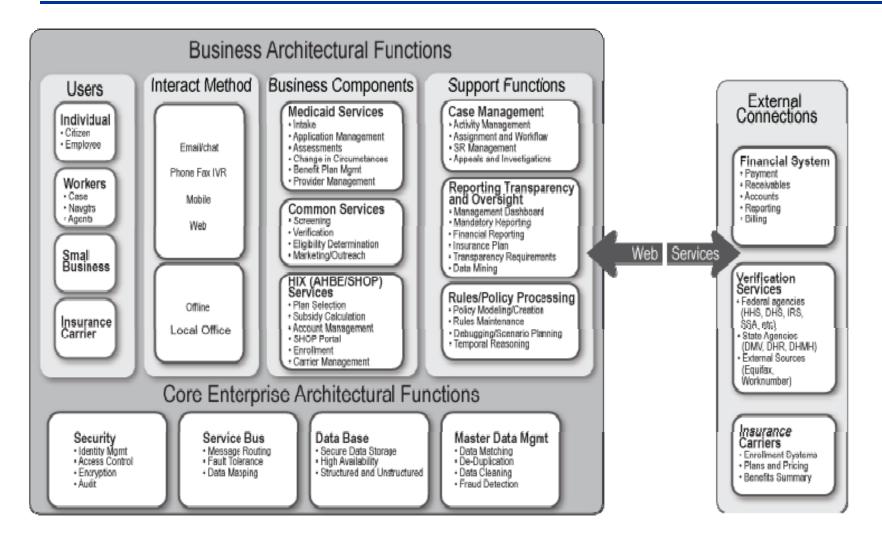
#### **Phased Development**

- Phase 1A MAGI Eligibility Determinations
- Phase 1B SHOP, Hosting, Operations, Call Center
- Phase 2 Non-MAGI Eligibility Determinations
- Phase 3 Social Services Programs (SNAP, TANF, etc.)

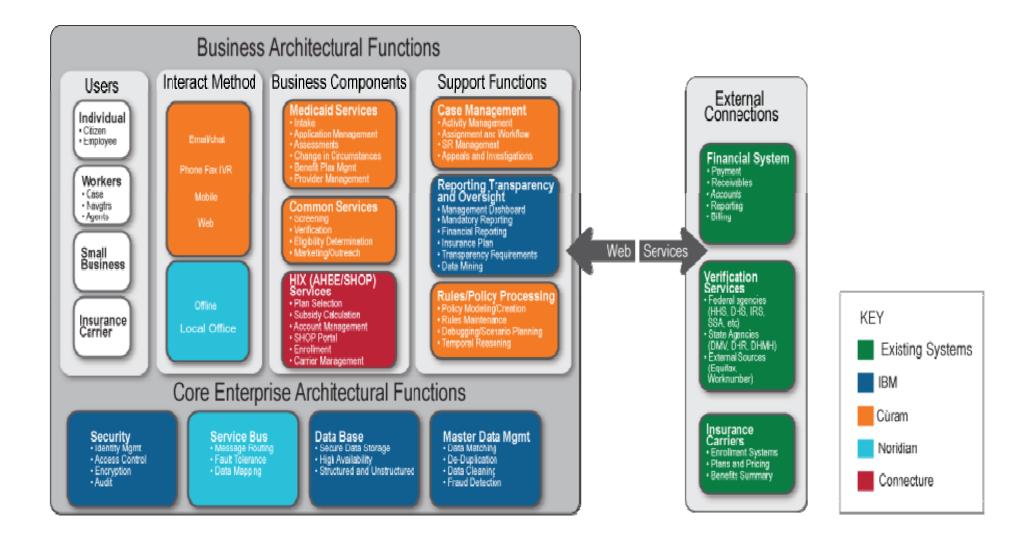
#### **COTS Based Solution**

- Systems Integrator (Noridian Administrative Services) on-boarded in March
- Partners include COTS vendors and other specialized IT service providers:
  - Social services eligibility, enrollment, and customer relationship management (Curam),
  - Plan Management and online Plan Comparison and Enrollment (Connecture).
- Provides the robust operational, technical, and data management capabilities required by the State:
  - Large scale social service technical and administrative management (Noridian),
  - The EXACT™ Service Oriented Architecture (SOA) platform (Noridian),
  - Integration with federal data hub and state eligibility sources (EngagePoint)
- Solution and licenses are extensible to later implementation phases: SHOP (Phase 1B), Non-MAGI determinations (Phase 2), & other social services (Phase 3)

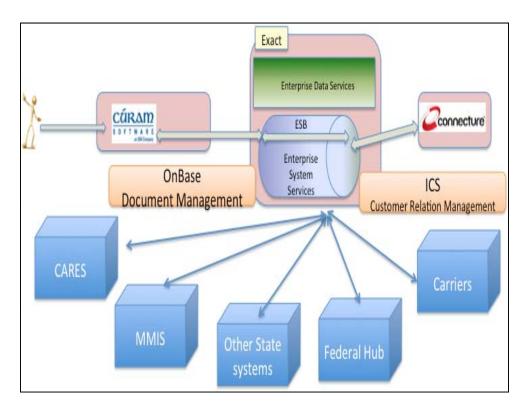
### **Exchange To-Be Architecture**



### **Exchange HIX System**



# **High Level Architectural Approach**



#### **Architecture goals:**

#### **Built-to-Last**

- Platform and technology-agnostic
- Standards-based

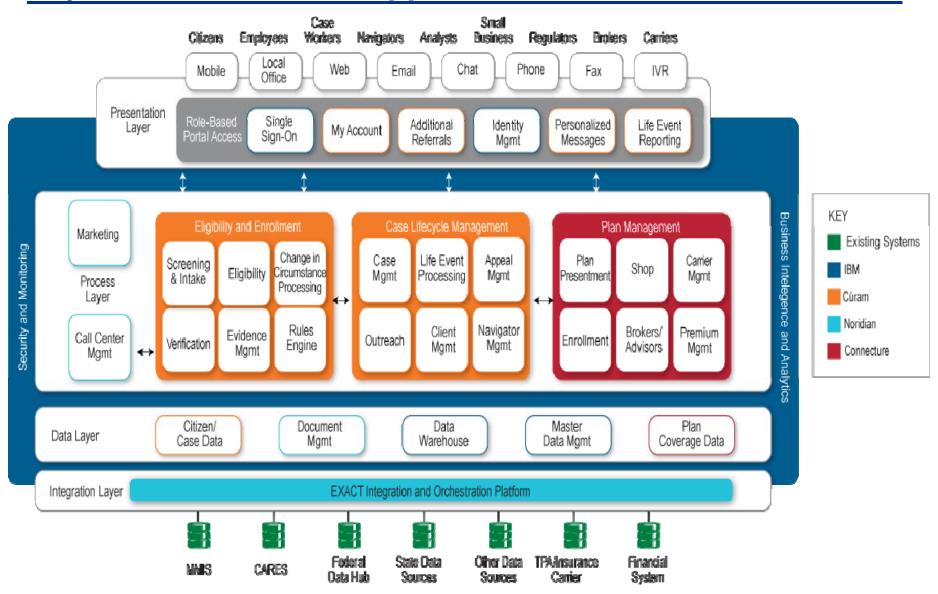
#### **Built-to-Scale**

- Multi-zoned deployment architecture
- Design with redundancy

#### **Built-to-Fit**

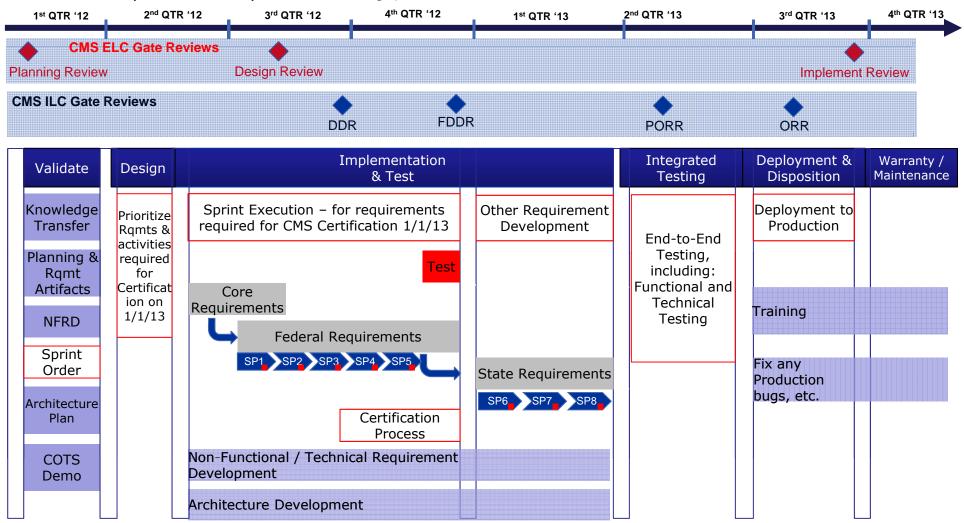
- Separation of Concerns
- Loose-coupling
- Leverage SOA best practices

# **Layered Architectural Approach**



### Implementation Timeline

The diagram below articulates the timeline and development approach Maryland is following in order to be prepared for CMS Certification and to deliver the HIX Solution in time for production operations in Q4, 2013



# Tier 1 Reuse: Documents, Process and Knowledge

#### **Reusable Artifacts**

- Research and Analyses
- Business Requirements
- Wire-Frames / Storyboards / Workflows
- Procurement-Related Documents
- Test Documents
- Project Management Documents
- Best Practices / Lessons Learned

#### **Mechanisms for Reuse**

- Document Repositories CALT
- State to State collaborations

### **Maryland Artifacts on CALT**

**Procurement Information:** 

HIX Phase 1A RFP (Final)

IV&V RFP (Final)

SHOP Statement of Work (Draft)

**Requirements Artifacts:** 

HIX BRD 2.0

SHOP BRD (Draft)

**Design Review Documentation** 

Financial Disclosures

**Legal Authority** 

Board & Governance Structure

**COI** and Financial Disclosure process

MHBE Bios

MHBE Board Meeting agenda

Stakeholder meeting agendas

Call center information

**Navigator information** 

Web site information

Agents and Brokers Overview

Web Brokers

**Navigator Advisory Committee Charter** 

Continuity of Care Announcement

Communication Plan

Stakeholder Analysis

**Financing Committee Members** 

Navigator Advisory Committee Agenda

**Navigator Advisory Committee Presentation** 

MD Exchange Environmental Scan

MHBE Brand Report

Outreach

Stakeholder Consultation Plan

Stakeholder Analysis Overview

Eligibility and Enrollment Overview

**PCIP Transition Plan** 

**Design Review (continued)** 

Coordinating Committee Kick-Off

**Coordinating Committee Presentation** 

HIX and Medicaid Interface Analysis

Plan Management Authority

Plan Certification

Plan Management System Features and Functions

Plan Management System Portal Screenshots

Plan Management System

**Issuer Oversight** 

**Issuer Plan Management Screenshots** 

**Issuer Support** 

Recertification

Decertification

Appeals and Decertification

Accreditation

Quality

Reinsurance

**Exchange Organization and HR** 

**Exchange Organization Chart** 

**Exchange Accounting Procedures** 

**Exchange Finance and Accounting** 

**Technology Overview** 

Change Management Plan

Disaster Recovery Business Continuity Plan

**Business Rules** 

**Communications Matrix** 

Data Conversion Plan

Implementation Plan

Interface Control Plan

Performance Measurement Plan

**Testing Plan** 

**User Stories** 

**Database Design Document** 

Data Management Plan

**Design Review (continued)** 

System Design Document

Project Schedule

Quality Management Plan

Risk Register

Staffing Management Plan

Training Plan

Information Security Risk Assessment

**Privacy Impact Assessment** 

System Security Plan

**Exchange Oversight Monitoring and Reporting** 

Sprint 1 Test Script

**Testing Artifacts:** 

Maryland Testing Strategy

Test Plan

Test Cases

# Tier 2 Reuse: Code, Library, and Packages

#### Framework for Technical Reuse

- Types of reusable technology: end-to-end systems, business services, standards-based interfaces, web services, source code, data models, data exchange formats, rule sets, product configurations
- Inventory of reusable technology including type, description, and appropriate usage
- Extensibility for new requirements
- Prerequisites and dependencies: specific COTS licenses and software,
   and underlying infrastructure requirements

#### **Mechanisms for Reuse?**

 Memorandums of Understanding (MOU's) / Business Agreements / Contracts

#### **Twelve Dimensions of Reuse**

- System Architecture
- Functional Modules
- Enterprise Shared Services
- Informational Services
- Compliance
- High Availability and Scalability
- Presentation Layer
- Business Process Layer
- Business Service Layer
- Integration Layer
- Data Reporting Layer
- Quality of Service and Protection Layer

#### **Contact:**

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# Health Connector HIX/IES Project Overview

Exchange Grantee Conference Early Innovator Panel August 9, 2012



- SI Vendor Procurement:
- RFR released on 12/21/11
- Responses received on 2/14/12
- Vendor selected and contract signed on 7/11/12
  - CGI/Deloitte is the selected System Integrator
- Procuring an IV&V:
- Finalizing vendor selection
- Significant Progress on Shared Services activities including security framework and MDM
- Requirements and process model development for E&E, Plan Management, Financial Management
- JAD Sessions underway for integrated eligibility and QHP & SHOP plan selection
- Participating in collaborative efforts
- California Health Foundation UX Project
- Early Innovator Learning Collaborative
- Numerous presentations at conferences (e.g. NGA, MMIS, etc.)



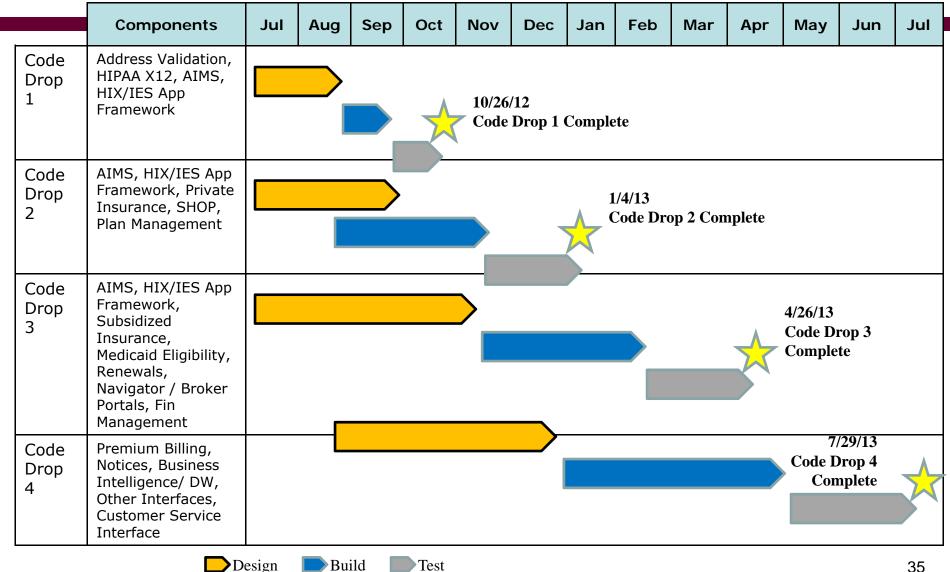
# Progress to date (cont'd)

- Developed a "project implementation functional ownership" to provide structure and ownership throughout the SDLC:
  - 23 sub-functions are "Shared" (e.g. eligibility determination)
  - 34 sub-functions are assigned to MassHealth (Medicaid) (e.g. MassHealth plan selection, MA-21 updates)
  - 59 sub-functions are assigned to the Health Connector (Exchange) (e.g. QHP and SHOP web shopping, QHP billing system)
- Coordinating with individual agency workgroups
  - 19 MassHealth led workgroups
  - 7 Connector led workgroups



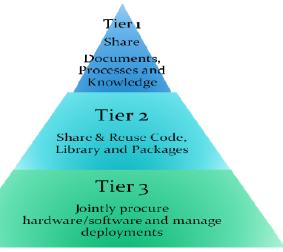
- Within the High Level Design phase, the scope of the HIX-IES project will be split up into smaller, discrete design topics, each of which will go through the High Level Design process outlined on subsequent slides
- The Functional Decomposition, including 116 HIX-IES project functions, will serve as the foundation for Design – CGI, MassHealth, and the Health Connector functional leadership will work to finalize the appropriate groupings of functions within each design topic
  - Sequencing of design topics will be based on priority of function, ownership, time sensitivity related to the Code Drop scheduling, and complexity
  - The first design topic will be Individual Eligibility, including Health Insurance Exchange and MassHealth eligibility determination for individuals and families
- Following High Level Design, Detailed Design will begin details to be discussed in subsequent sessions

# **Functional Design sequencing**





- Functionality will be bundled for deployments and sharing
- Modified Agile methodology will be used
  - Iterative code releases
  - Parallel testing and development
- Sharing of Documents, Process and Knowledge
- Sharing of Code Libraries and Packages
- Jointly procuring and Hosting



# SI Collaboration with Participating States

- Develop a reusability plan with the participating New England states. The plan will include the scope of reusable components and a timeline for reusability milestones.
  - Complete JAD sessions with participating New England States. Synthesize and provide feedback from state sessions, compile lessons learned, and document ways to improve and expand reusability opportunities.
- Identify reusable components and support components sharing to selected and agreeable New England states.
- Contractor's resources will work directly with New England states designated by the Commonwealth to support knowledge transfer, and to support implementation efforts with each state's IT staff and vendors.
  - Rhode Island and Vermont will collaborate with the MA HIX/IES project as "design partners"



#### Architecture Review (AR) - Stage Gate

Architecture Review
Architecture Review Findings
MA HIX Business Process Models
MA HIX PM Requirements
MA HIX EE Requirements version

#### **Detailed Design Review**

MA HIX\_IES Release Plan version 0.5 MA HIX\_IES Risk Management Plan version 0.4 MA HIX\_IES Communication Plan version 0.3 MA HIX\_IES Project Management Plan version 0.9

MA HIX\_IES Phase 1 ConOps version 1.0

### Establishment Planning/Project Baseline Review (PBR)

Project Baseline Review
MA HIX Release Plan version 0.3
MA HIX Project Management Plan version 0.8
MA HIX Privacy Impact Assessment version 0.2
MA HIX Project Process Agreement
Preliminary version 0.2

#### **IT State Profiles**

Massachusetts IT Profile

### Request for Information (RFI)/Proposal (RFP) & Statement of Work (SOW)

MA Use Case Inventory
MA Health Connector Reports
MA Software and Hardware Costs

MA Use Case Sample
MA Standard Form LLL

MA Business Process Model Sample 2 MA Business Process Model Sample 1

MA Requirements Matrix

MA HIX/IES Special Terms and Conditions MA Intellectual Property and Work Effort Agreement

MA Software and Hardware List
MA Assumptions Qualifiers Contraints Table
MA Part Three Cost Response
MA HIX/IES Special Terms and Conditions
MA Federal Funding Reporting Requirements
MA Data Management Agreement

MA Exhibit XII HIX/IES Special Terms and Conditions

MA\_Contract
MA RFR

MA HIX IES IV&V RFR

#### **Preliminary Design Review**

MA HIX ICD Core and Shared Interface Document version 0.2

#### Preliminary Design Review (cont'd)

MA HIX ICD Federal Hub Interface

Document version 0.4

MA HIX ICD State Interface Document version 0.4

MA HIX Database Design Document version 0.5

MA HIX ICD Carrier Interface Document version 0.4

MA HIX System Design Document version 0.6

MA HIX Technical Architecture Diagrams version 0.3

MA HIX Logical Data Model version 0.3 MA HIX Test Plan Preliminary Document version 0.3

### State Business and Processes and Requirements

MA - HCR-Eligibility Enrollment Presentation Template – 09172011 MA - EEI-17 Verify Household

Income\_20110919

MA - EEI-12 Plan Selection\_20110919

MA - EEI-10 Determine Medicaid & CHIP

Eligibility\_20110919

MA - Final Himmelstein August 1 MMIS HIX development 38

### **Contact:**

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Information Technology in Support of Health Insurance Exchanges and Integrated Eligibility Systems

Update from New York August 9, 2012

Beth Osthimer Division of Health Reform and Health Insurance Exchange Integration Office of Health Insurance Programs New York State Department of Health



## **Discussion Topics**

- Current Status
- Development Update
- NY-HX Technological Approach
- State Agency Roles and Coordination
- Strategy and Approach for Sharing Components with Other States

## **Current Status**

- NY established El Project Management Office (PMO) in DOH in February 2011
- NY-HX established by Executive Order in April 2012
- Contract with CSC Systems Integrator (SI) June 2012; QA contract award – Cognosante, Enrollment Center – Maximus
- NY-HX system design/development underwayusing Agile SCRUM SDLC methodology

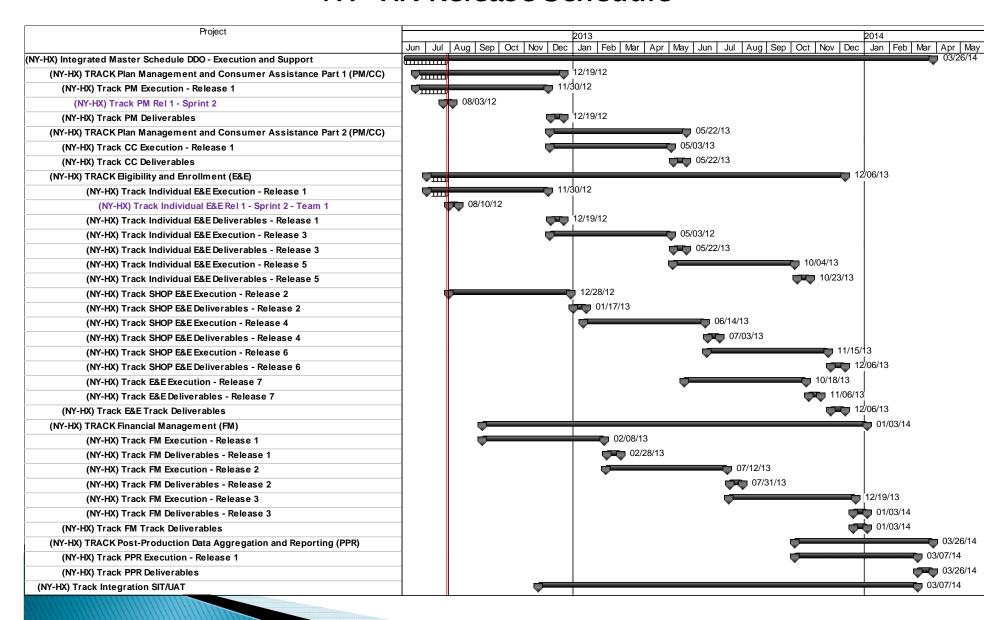
### **Current Status**

- NY has conducted three gateway reviews with CMS
  - Architecture Gateway Review April 2011
  - Project Baseline Gateway Review
     May 2011
  - Preliminary Design Review Feb 2012
  - Detailed Design Review (scheduled) October 2012

## **Development Update**

- ▶ Sprints began in July--13 releases
  - Eligibility and Enrollment\_ 7 releases (\*includes individual EE and SHOP)
  - Plan Management 1 release
  - Financial Management-3 releases
  - Customer Service/Communication 1 release
  - Post-Production Reporting- I release
- Project work plan dependencies:
  - Federal Data Hub development schedule
  - NAIC SERFF Plan Management development schedule

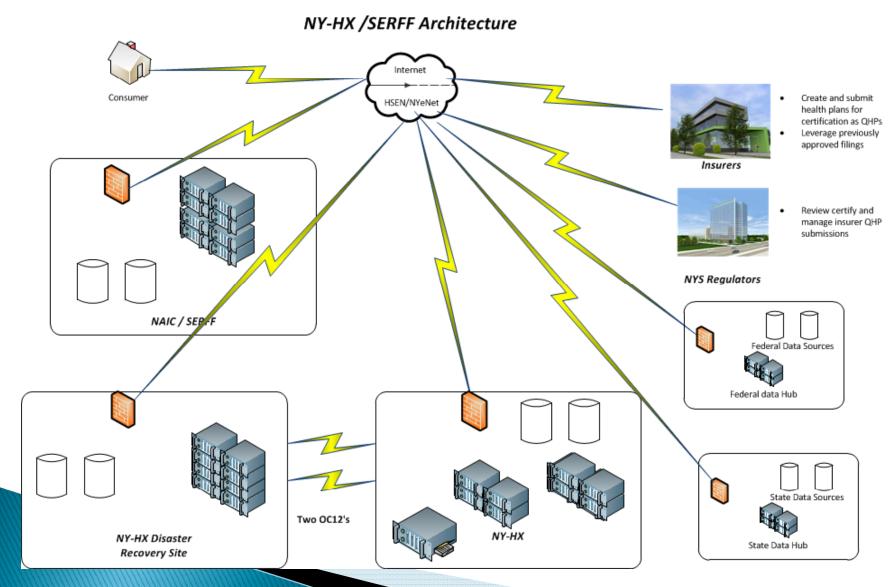
#### NY-HX Release Schedule



## NY-HX Technological Approach

- Build Service Oriented Architecture (SOA) with Enterprise Service Bus (ESB)
- Utilize Business Rules Engine
- Where possible, leverage advanced components and facilities of current MMIS environment
  - Data center
  - Disaster Recovery
  - ESB infrastructure
- Adhere to CMS security standards and IRS safeguards
- Incorporate UX Enroll 2014 design guidelines, where applicable, for user interface

## Ny-HX Technological Approach



# State Agency Roles and Coordination

- Governor Cuomo's Executive Order (EO) established the Exchange within the Department of Health (DOH)
- ▶ EO directs DOH to work in conjunction with the Department of Financial Services (DFS) and other state agencies
- Ensures close integration with Medicaid program to promote "one stop shopping", consumer-centric portal experience

# State Agency Roles and Coordination

- DFS-rate review, broker program, risk adjustment, Plan Management
- DOH- Exchange, NY-HX system, Medicaid/CHP programs
- Office of Temporary Disability Assistance (OTDA) – future human services interoperability with NY-HX system
- Department of Taxation and Finance- data exchange services to support Exchange income verification as a supplement to Federal Data Hub

# Strategy and Approach for Sharing Components with Other States

- Participate in regular joint discussions with other El and non-El States, federal partners throughout all ELC phases
- Use CALT to post project artifacts, deliverables, lessons learned
- Aggressively support initiatives that can be leveraged and reused by other states—e.g. NAIC SERFF Plan Management, UX Enroll Project, formulation and sharing of policies/requirements through user groups, pilots

# Strategy and Approach for Sharing Components with Other States

- Identify opportunities to share software components to accelerate the development efforts of other states
- Collaborate re solutions (e.g. work with other states using same applications, tools)
- Share testing strategies and generic test cases and scripts

### **Contact Information**

Beth Osthimer, Division of Health Reform and Health Insurance Exchange Integration Office of Health Insurance Programs New York State Health Department

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# Oregon HIX-IT Strategies and Status



### Oregon Health Insurance Exchange IT Project

Update to Panel Discussion at the May CCIIO Health Insurance Exchange System-Wide Meeting

August 7, 2012







Oregon Health Insurance Exchange Corporation

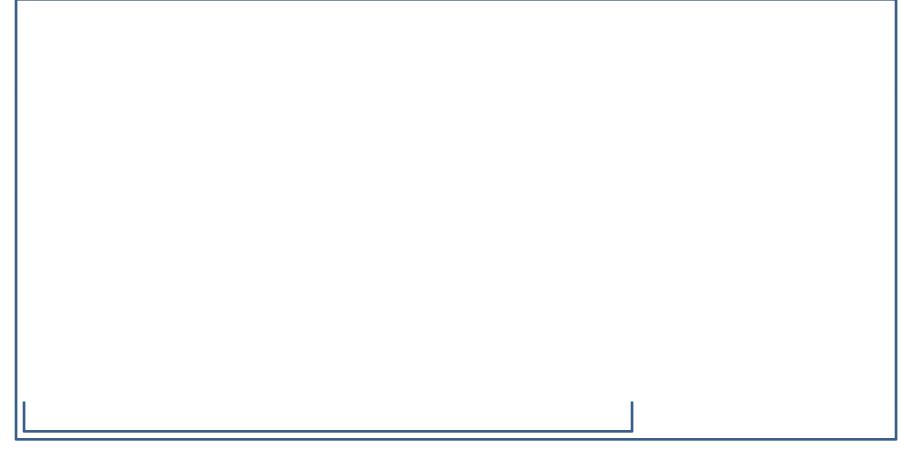




## Oregon HIX-IT Project **Technology Strategy**



### **Using Commercial Off The Shelf Products**

















## Oregon HIX-IT Project **Implementation Approach**

- Oregon's Health Insurance Exchange Information Technology (HIX-IT) platform will become the system of record for all Medicaid and CHIP (MAC) eligibility
  - One automated eligibility system for both Qualified Health Plans (QHPs) and "MAGI" MAC
  - Enrollment in MAC will be accomplished by integration with legacy **MMIS**
- Oregon's HIX-IT project has a complementary human service modernization project implementing "horizontally" integrated HHS eligibility and case management
  - The project teams use a shared service approach and are implementing on the same technology platform







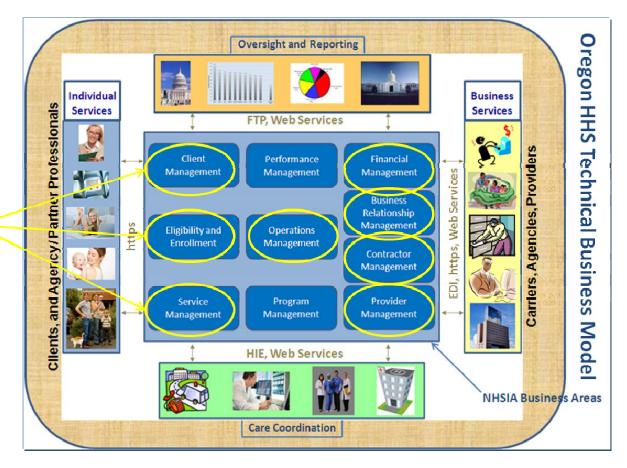






## Leveraging DHS and HIX-IT Projects as Spring-board to Transform All Services

**Human Service** Modernization and HIX-IT Projects Will Affect Most Service Areas



Plan to migrate all core HHS services in phases over 5 years







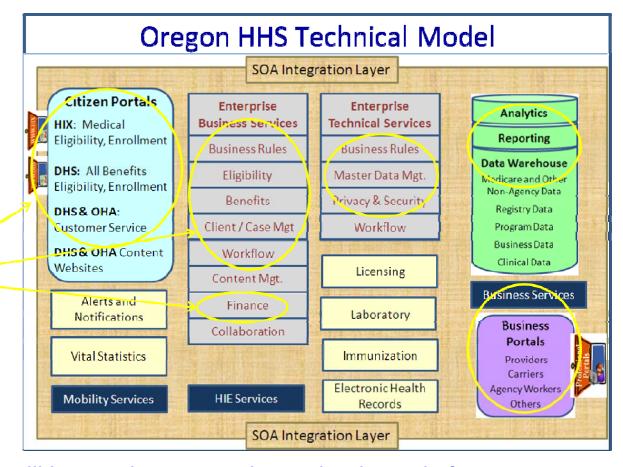






## Leveraging DHS and HIX-IT Projects to Transform IT Enterprise

**Human Service** Modernization and HIX-IT Projects Will Implement New Technologies in Most Areas



COTS tools will be used as enterprise technology platform















## Oregon HIX-IT Project **Current Status**



- Technology and configuration vendor selected (Oracle)
- Completed Initial Requirements gathering



- External interface contract awarded (Cognosante/Speridian)
  - Vendor is on-site
- Selected & procured PeopleSoft Financial Management tool
- Established connectivity with Federal Hub















## Oregon HIX-IT Project **Current Status**



- Initial "working" build presented in April 2012 Gate Review
  - Demonstrated successful implementation and integration of all major technology components
- Successfully completing monthly development iterations
  - We have done some configuration in account management and eligibility / enrollment (including pre-screening)
  - We have configured about half of the required SHOP functionality
  - We are beginning to focus on customer service area in August
- Completed pilot interface process with carriers
  - "Get Quote" designed
- 2014 Magi Rules Design and Configuration Underway













## Oregon HIX-IT Project Partnership to Achieve Shared Vision

- The HIX-IT project is within the Oregon Health Authority, the state's Medicaid agency
- Oregon's integrated HIX-IT vision is supported by collaboration across all relevant state bodies
  - Building an integrated eligibility and enrollment marketplace for both Medicaid, CHIP and tax credit eligible (and those without assistance)
  - HIX-IT is a collaboration by OHA, the Oregon Health Insurance Exchange Corporation, the Department of Human Services, and the **Oregon Insurance Division**
  - Oregon's legislature is very supportive













## Oregon HIX-IT Project **Strategy for Sharing With Other States**

### What Will Oregon Share?

- Gate Artifacts:
  - Project Charter; PMO Plans; Schedules; Strategies
  - Requirements Set: BRD, FRD, UI Mock ups, Process Diagrams, Use Cases, OPA Rules, Policy Decisions
- Code Repository and Corresponding Technical, Functional, Architectural, and Design Documents

### **How Will Oregon Share?**

- CALT: SFRVIS. CALLS. FILC Monthly CCIIO other. Conference Particination. Direct Collaboration and Partnering
- Contact Tracey Humphreys, Manager State & Federal Collaboration and Reuse (tracey.j.humphreys@state.or.us)















## Oregon HIX-IT Project **Oregon Artifacts on CALT**



## **Artifacts Oregon Currently Has** Posted on **CALT**













