



Lost Creek Consulting, Inc.

# **Connecting Centricity EMR to HIE Loading Clinical Data Into The Chart**

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# Loading data from an HIE

- Architectures
- CHNW HCE Project
- BMC HIE Project
- Other HIE projects
- Challenges & Issues

# Architectures

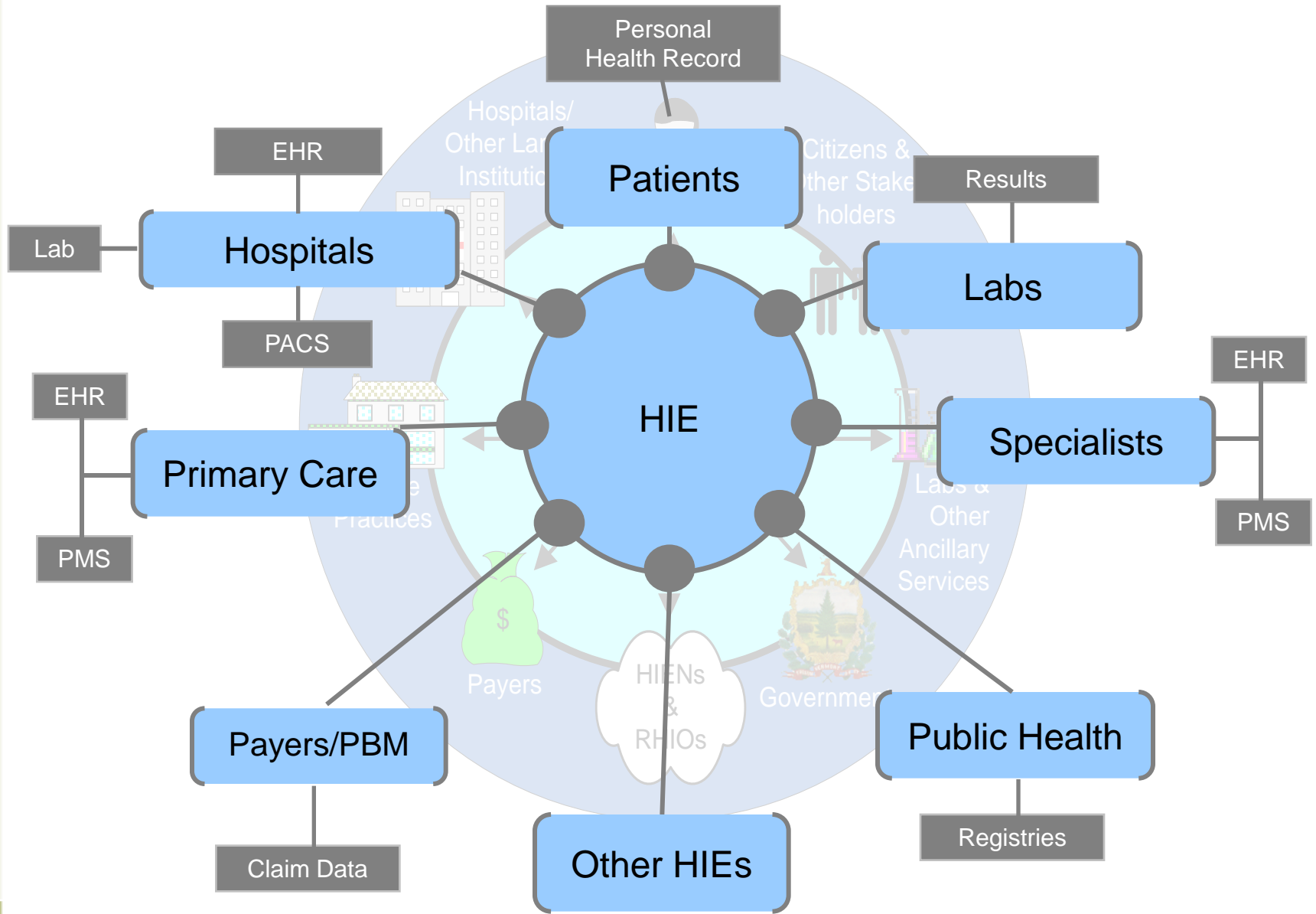
## ■ Centralized

- Easiest to connect to – only one connection
- Single server host
- Requires standardized storage

## ■ Distributed

- Separate connections to each source
- Multiple server hosts
- Accessing data requires knowing about source

# HIE Architecture Diagram

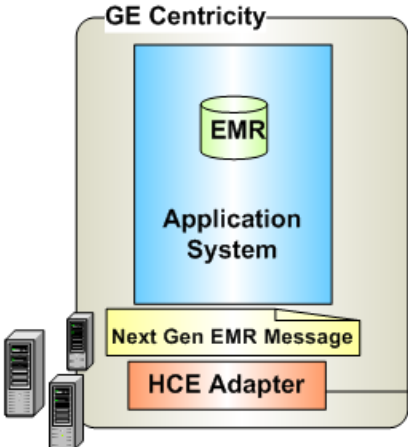


# Community Health Networks of Washington

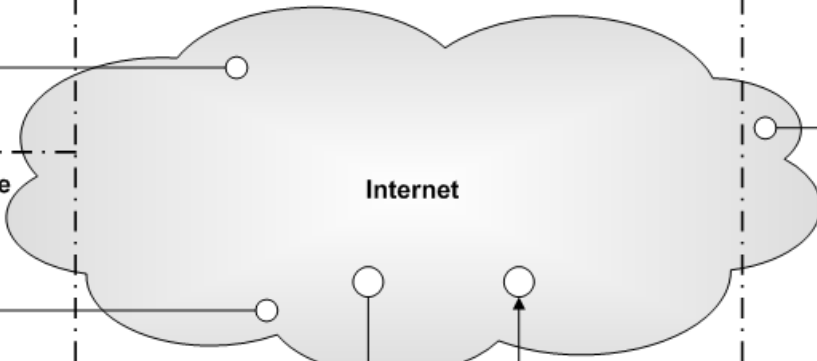
- Connecting CHCs to repositories
  - 19 Community Health Centers
  - 85 closely managed care delivery sites
  - 300+ care delivery sites
  - Across Washington state
- Multiple brands of EMR
- First payload is the Washington CHILD Profile immunization registry
- Second payload is being determined

# CHNW Project Architecture Diagram

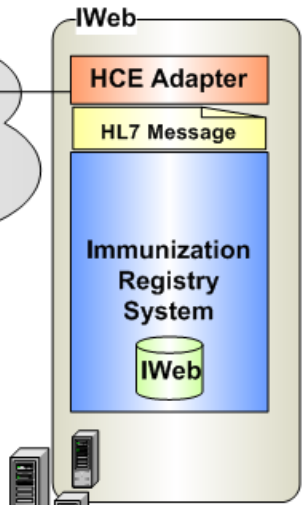
Columbia Basin Health Association (CBHA)



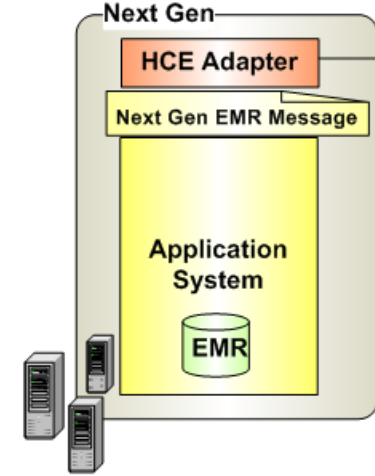
Community Health Network of Washington (CHNW)



Children's Health Immunizations Linkages and Development (CHILD Profile)



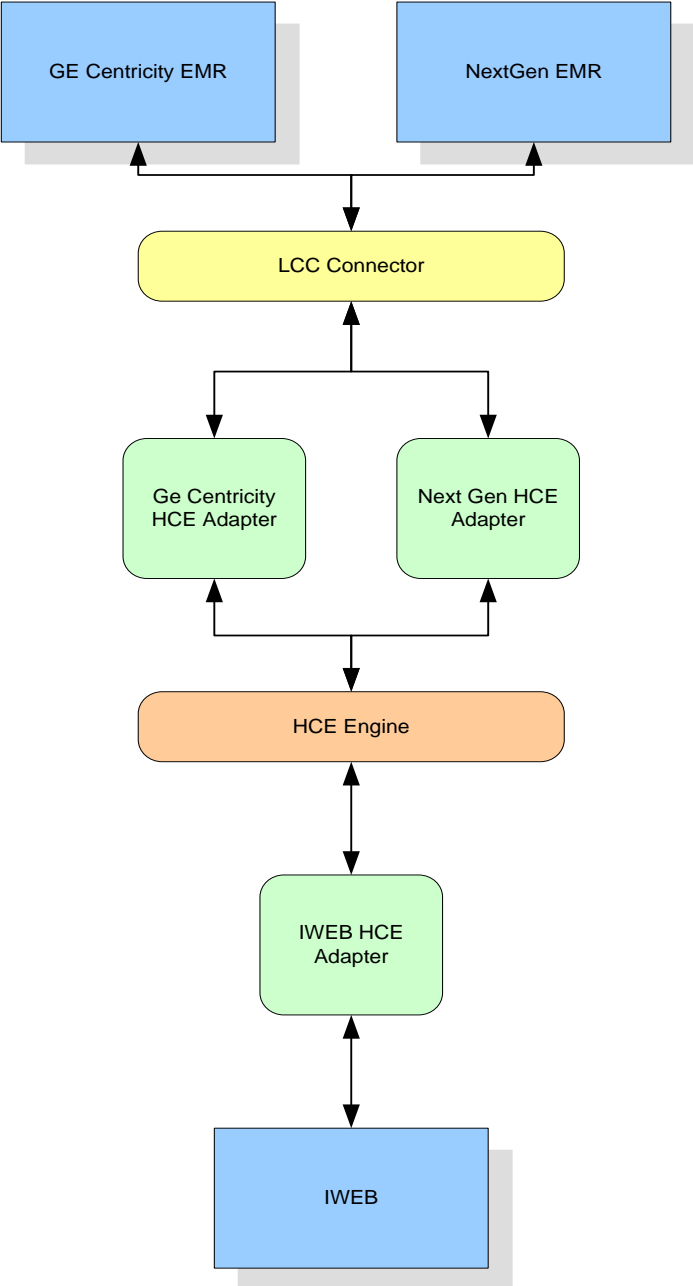
Community Health Association of Spokane (CHAS)



Exception Management

# Health Connection Engine

- Microsoft Windows Server 2003
- Microsoft SQL Server
- Microsoft BizTalk Server
- HCE Adapter



Immunizations Due

Enter All Vaccines w/ Dates; then Click to Commit

Print Immunization Record

Hepatitis B

HepB#1

HepB#2

HepB#3

Go to Flowsheet to Make Any Corrections

Hep B

Flowsheet

Diphtheria

DPT#1

DPT#2

DPT#3

DPT#4

DPT#5

Pertussis

Tetanus

Haemophilus

Hib #1

Hib #2

Hib #3

Hib #4

Influenzae

Type b

Polio

Polio #1

Polio #2

Polio #3

Polio #4

Polio #5 (optional)

Inactivated (IPV)

or Oral (OPV)

Pneumococcal

PneuPed #1

PneuPed #2

PneuPed #3

PneuPed #4

Pprevnar

Measles,

MMR #1

MMR #2

Mumps, Rubella

MMR

Varicella

Varivax #1

Varivax #2

Had Chickenpox

Chickenpox

Td-Tetanus

Flu Shot

Pneumovax

Meningococcal

Hepatitis A #1

Hepatitis A #2

Prev Form (Ctrl+PgUp)

Next Form (Ctrl+PgDn)

Close

# Immunization Entry Form

Seq	EMR		CHILD Profile	
	Type	Date	Type	Date

## HepB

1	HepB	1/1/2001		
2	HepB	6/1/2001		
3			HepB	1/1/2002

## DPT/DTaP

1	DPT	1/1/2001		
2	DTaP	6/1/2001		
3			Pediarix	1/1/2002

## HIB

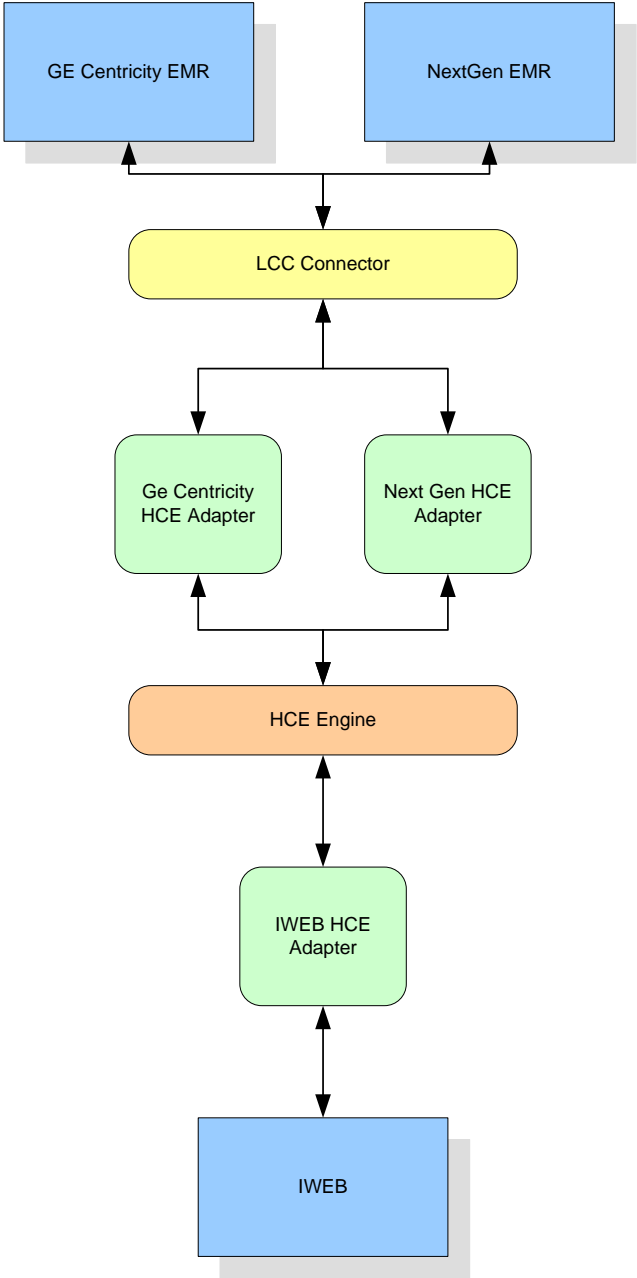
1	HIB	1/1/2001		
2	HIB	6/1/2001		
3			Pediarix	1/1/2002
4				

## Polio

1	Polio	4/1/2001		
2				
3				
4				
5				

# Immunization entry w/ date conflicts

Seq	EMR		CHILD Profile	
	Type	Date	Type	Date
HepB				
1	HepB 1	1/1/2001		
2	HepB 2	6/1/2001		
3			HepB	1/1/2002
DPT/DTaP				
1	DPT 1	1/1/2001		
2	DTaP 2	6/1/2001		
3			Pediarix	1/1/2002
HIB				
1	HIB 1	1/1/2001		
2	HIB 2	6/1/2001		
3			Pediarix	1/1/2002
4				
Polio				
1			Polio	4/1/2001
2	Polio 1	10/1/2001		
3				
4				
5				



# GE HIE Product

- Boston Medical Center
  - Connect to GE's HIE
  - Connect to Medication Preload

# Screen shots

Centricity Physician Office - NOT FOR PATIENT USE - Harry S. Winston MD @ Southside Clinic (sutrain) - 8/16/2008 9:30 AM - [Chart]

Go Actions Options Help

Desktop Chart Appts Reg Reports LinkLogic New View Print Help EXIT

**David P Erickson**  
56 Year Male (DOB: 01/01/1952)

Find Pt. Protocols

Summary  
Doc ID: 27  
Summary:

Inserted  
MedsImport

Attachments

Favorites  
Blank image

For Help, press F1

**MedImport: David P Erickson**

Document List | Import Problems | Import Meds | Import Allergies | Import Labs/Vitals

Retrieve Document List - v 1.2.0.7

Document Selection

From Date: 01/01/2007 To Date: 05/01/2008

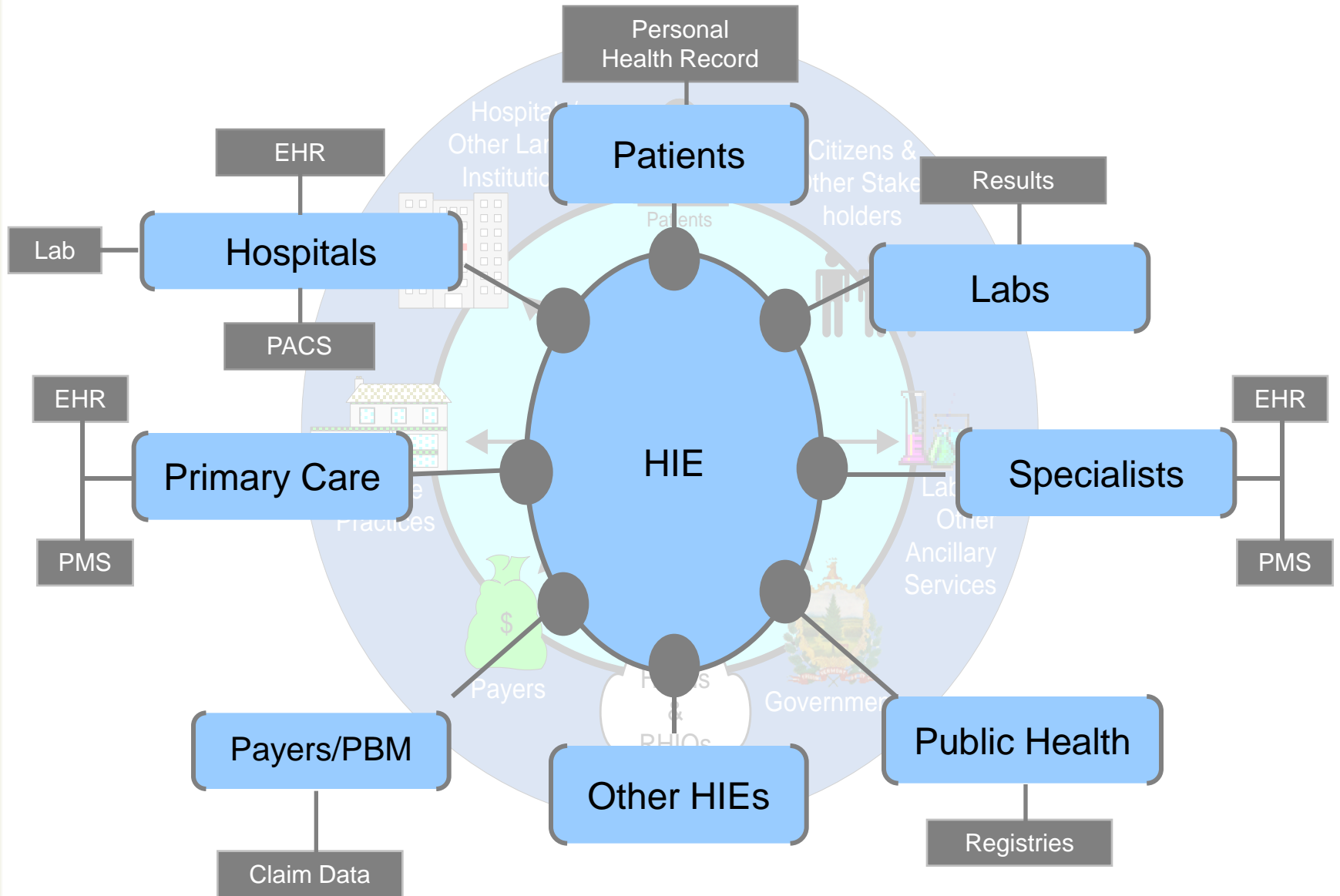
Load Meds

Get Document List

	View	Import
	View	Import
	View	Import
	View	Import
	View	Import
	View	Import
	View	Import
	View	Import
	View	Import
	View	Import
	View	Import
	View	Import
	View	Import
	View	Import
	View	Import
	View	Import

Prev Form (Ctrl+PgUp) Next Form (Ctrl+PgDn) Close

# HIE Architecture Diagram



# Other HIE projects

- Insurance Clinic

- Preloads

- Problem/Medication Reconciliation

- Issues

- Brand name v. generic name

- Preloads

- Problems

- Meds/Allergies

- Notes

For a complete slide set after CHUG, please see  
<http://www.lostcreekconsulting.com>