

California Immunization Registry (CAIR) 2.0

Data Informed Public Health Practice

HOAC/CCLHO Semiannual meeting, 4/14/2016

Sarah Royce, MD, MPH, Chief
Immunization Branch, CDPH

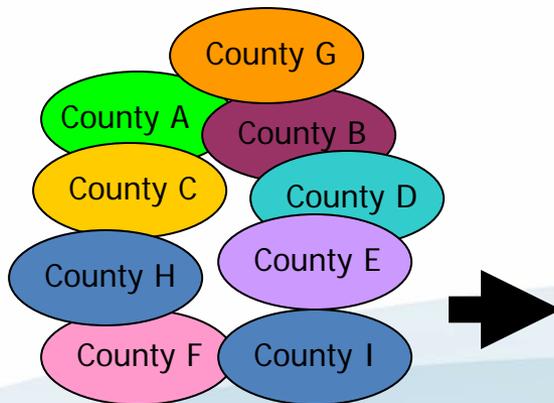
Sarah.Royce@cdph.ca.gov



To protect Californians from vaccine-preventable disease, CAIR:

- Determines vaccines due
 - Clinical decision support
 - Updated as national recommendations change
 - Identify and contact patients (Reminder/recall)
 - Avoids unnecessary doses, vaccine wastage
- Yields data for public health action
 - Target interventions based on immunization coverage by age, vaccine, provider, area, etc.
 - Vaccine shortages/recalls, adverse events
 - Outbreak response, pandemic flu preparedness

Counties 1990's



10 Regions 2000-15

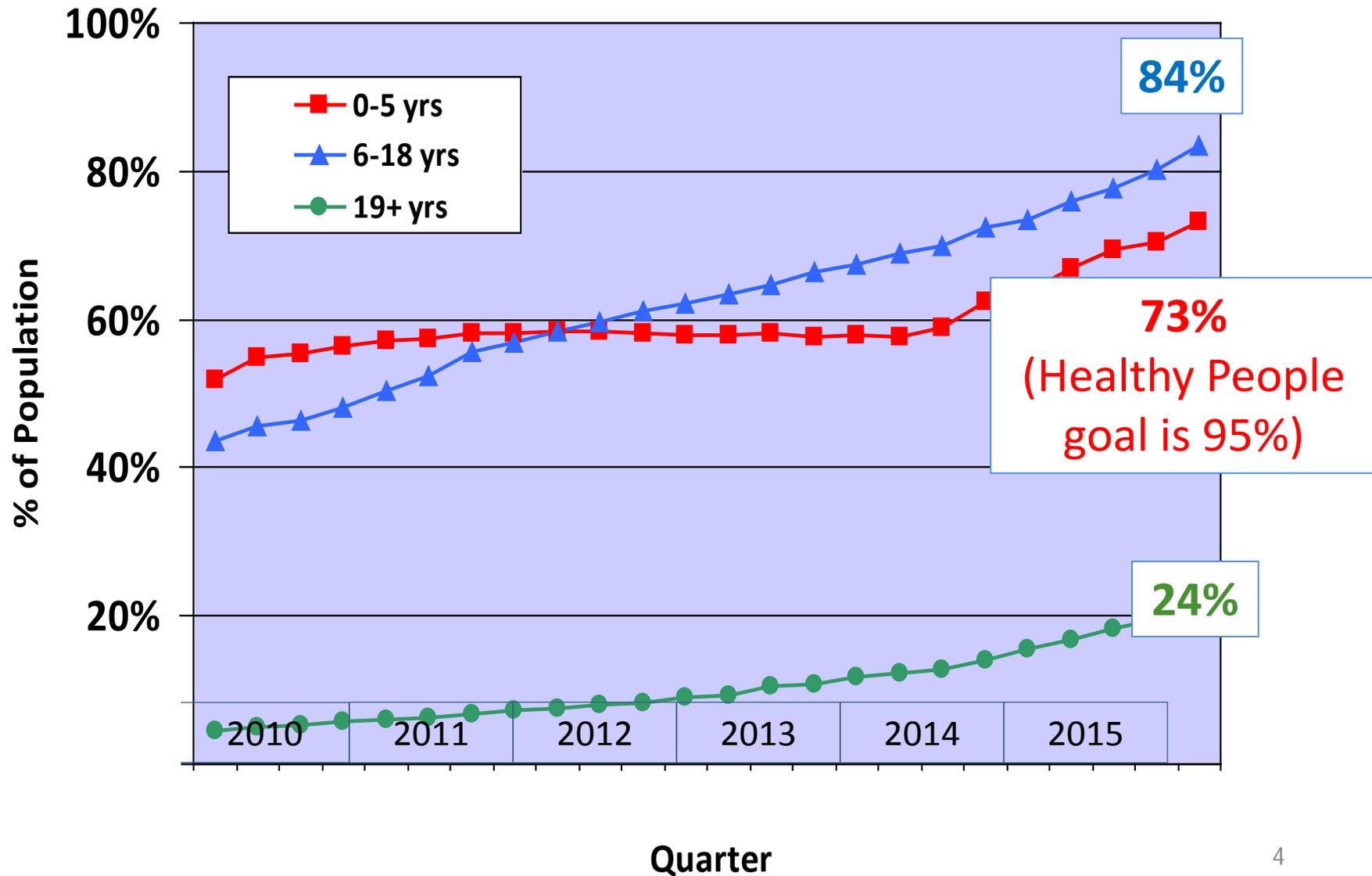


CAIR 2.0 2016→

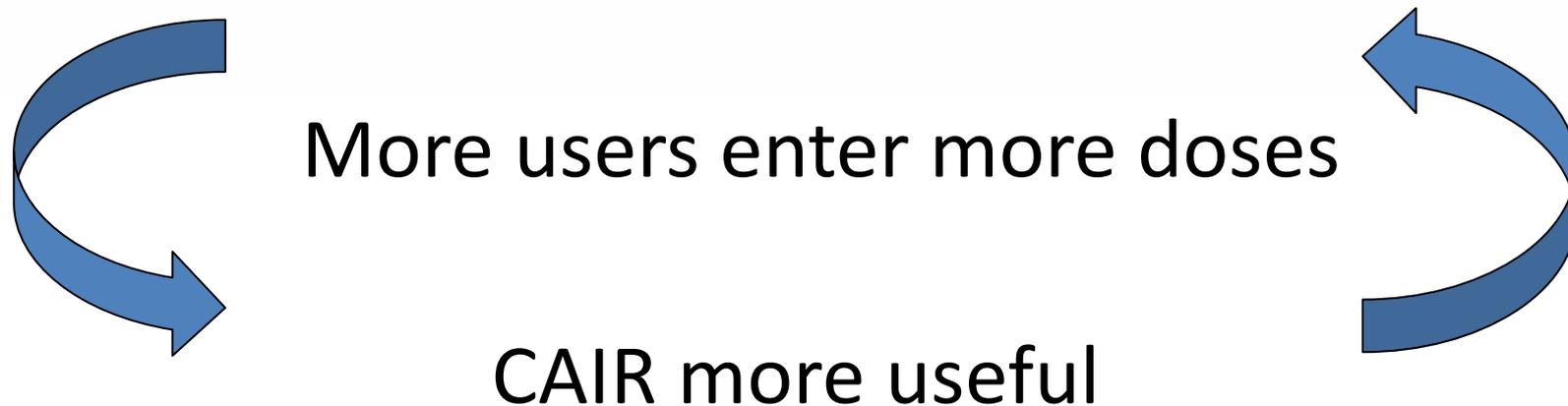
More fully

- Integrated
- Populated
- Functional
- Accessible (to authorized users)

% of Californians with >2 immunization doses in CAIR by age, year



Virtuous cycle

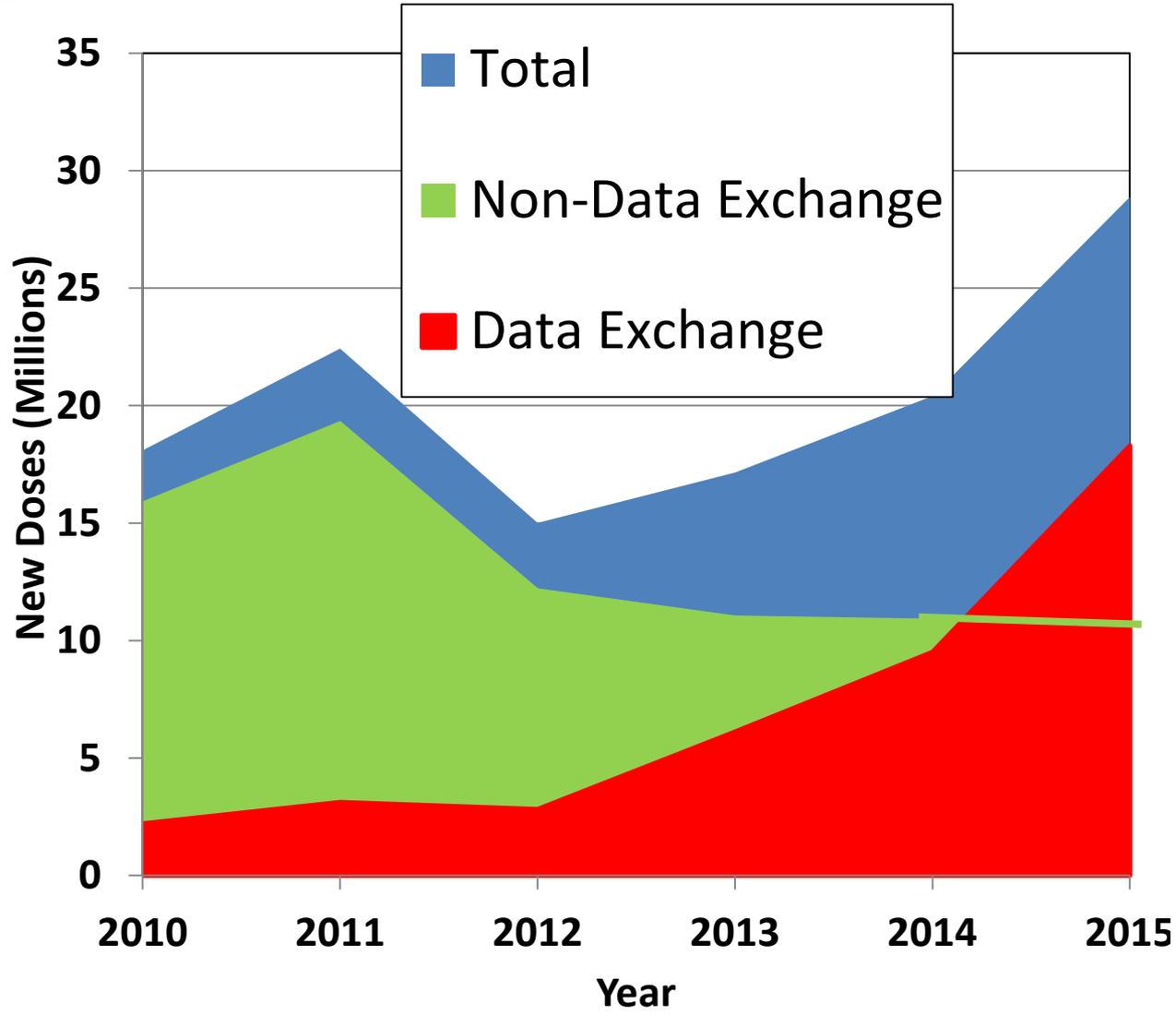


Drivers

- Meaningful use (2016 last year to sign up)
- Pharmacies will be required to enter all administered doses into CAIR (new regulations this spring)
- Phase in VFC provider requirement (timeline to be determined)



doses, how entered into CAIR, 2010-15



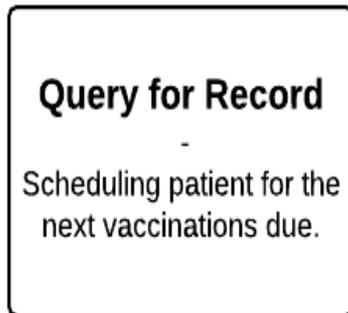
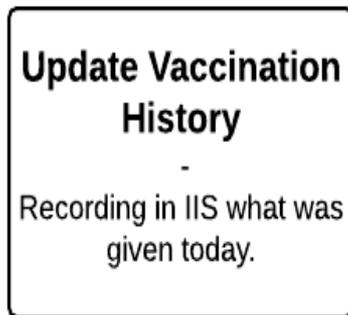
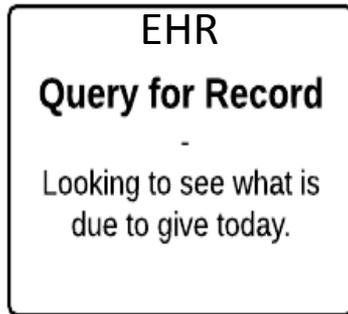
Data Exchange

- Upload doses from EHR into CAIR
- Eliminates dual data entry for the provider

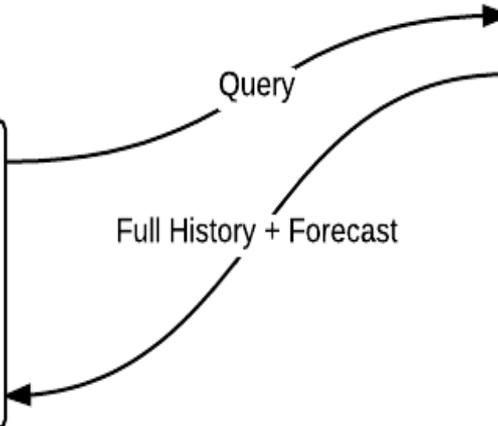
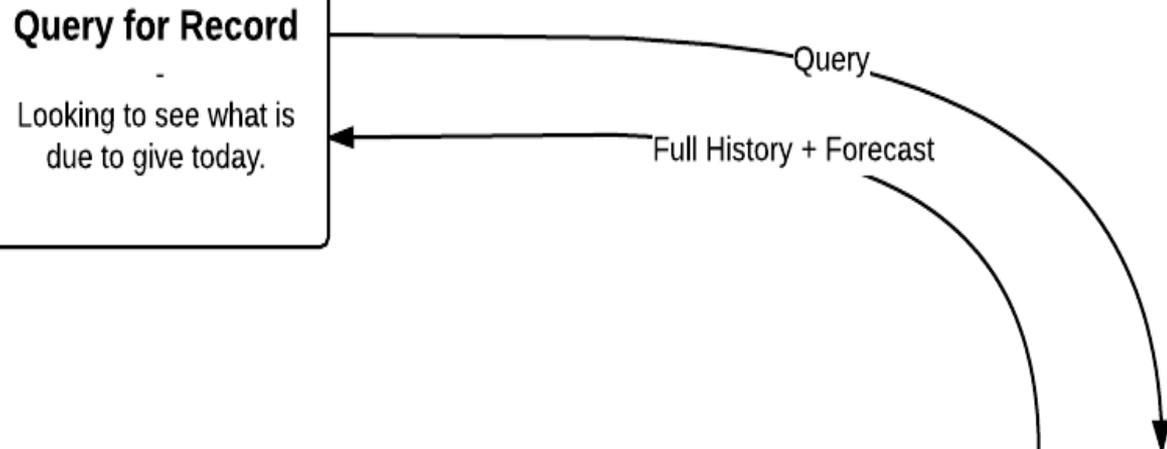
CAIR 2.0: bigger, better, faster

- Automatic uploads VFC shipments into inventory
- Datamart enables:
 - Push-button coverage reports
 - ‘Ad hoc’ reporting capability (design your own)
- School module with roster
- Browser independent
- Real-time, bi-directional HL7 messaging
 - Better decision support to the provider
 - Better patient care

<https://youtu.be/PU7h83lqaCo>



Immunization Information System (IIS)



CAIR Sites

(as of quarter 4, 2015. Excludes S. Diego, S. Joaquin, Imperial)

Account Type	# Sites	Examples
Clinical* Add doses via: <ul style="list-style-type: none">• User interface	1,029	<ul style="list-style-type: none">• Health care providers, clinics• LHDs• A few schools
<ul style="list-style-type: none">• Data exchange	3,361	<ul style="list-style-type: none">• Health care providers, clinics• Health systems (ie Kaiser, Sutter)• Pharmacies• FQHCs, other providers
Non-clinical (Read-only)	4,345	<ul style="list-style-type: none">• Health Plans, Payers• Schools, Child Care, Welfare, WIC

*Only sites that entered ≥ 1 dose in last quarter (“active”)

Schedule

Pre-Transition (Spring 2016)

- Notify, engage existing users and stakeholders

Transition (Fall 2016-Spring 2017)

- Phase in by region, except Data Exchange users statewide will all move to CAIR 2 in Phase 1
- Train active users, grant access to CAIR 2.0, turn off 1.0

Post-Transition (Summer 2017)

- Initiate data sharing with SD, S. Joaquin, Imperial
- Monitor data quality and usage
- Recruit new users, add functions
- Beta test then expand bidirectional messaging

Phasing in CAIR 2.0

Phase/Regions	Training begins*	Launch 2.0 (turn off old)
1: Northern CA, Greater Sacramento, Central Coast, Inland Empire	Sept 1, 2016	Oct 1, 2016
2: Bay Area, Central Valley	Nov 1, 2016	Dec 1, 2016
3: Los Angeles-Orange	Feb 1, 2017	Mar 1, 2017

*For active clinical users (not required for read-only users)

How can LHDs support launch?

Reach out to existing CAIR users in LHD clinics and community

- Prioritize sites for outreach
- How should we display categories of current CAIR users by county when we send you lists?

Engage other stakeholders

More ideas? Tell us how it is going!

Clean house, and..



If not yet uploading EHR data to CAIR,

- 2016 last year to sign up for EHR incentive program

If already uploading EHR data to CAIR,

- Work with EHR vendor to assess data quality
- Prepare to transmit full IZ histories on active patients for bidirectional messaging to have value.

If staff enter doses into CAIR web interface,

- Continue using CAIR to assure training access

For the future.....

- Direct patient access to IZ record
 - Go to own medical provider, who validates patient ID, provides PIN
 - Go to Patient Portal, enter PIN
 - Read, print, download vaccines
- Bar code for vaccines
- Link to *myVFCvaccines* to streamline ordering

VACCINE	DATE GIVEN	DOCTOR OFFICE OR CLINIC	NEXT DOSE DUE
INFLUENZA		<input type="checkbox"/> TIV <input type="checkbox"/> LAV	
		<input type="checkbox"/> TIV <input type="checkbox"/> LAV	
		<input type="checkbox"/> TIV <input type="checkbox"/> LAV	
		<input type="checkbox"/> TIV <input type="checkbox"/> LAV	
		<input type="checkbox"/> TIV <input type="checkbox"/> LAV	
		<input type="checkbox"/> TIV <input type="checkbox"/> LAV	
HUMAN PAPILLOMAVIRUS (HPV)	1		
	2		
	3		
MENINGOCOCCAL (meningitis)	1	<input type="checkbox"/> MCV <input type="checkbox"/> NPV	
		<input type="checkbox"/> MCV <input type="checkbox"/> NPV	

DT/Td = diphtheria, tetanus [difteria, tétano]
DTap/Tdap = diphtheria, tetanus, and pertussis [whooping cough] [difteria, tétano, y tos ferina]
Hib = Hib meningitis [Haemophilus influenzae type b] [meningitis Hib]
HPV = human papillomavirus [virus del papiloma humano]
IPV = inactivated polio vaccine [vacuna antipoliomielítica inactivada]
LAIV = nasal spray influenza vaccine [vacuna intranasal viva contra la influenza]
MCV = meningococcal conjugate vaccine [vacuna meningocócica conjugada]
MMR = measles, mumps, rubella [sarampión, paperas y rubéola (sarampión alemán)]
NPV = meningococcal polysaccharide vaccine [vacuna meningocócica polisacárida]
OPV = oral polio vaccine [vacuna oral contra la polio]
PCV = pneumococcal conjugate vaccine [vacuna neumocócica conjugada]
PPV = pneumococcal polysaccharide vaccine [vacuna polisacárida contra el neumococo]
RV = rotavirus [rotavirus]
TIV = flu shot [vacuna desactivada contra la influenza]

TB SKIN TESTS*	Type**	Date given	Given by	Date read	Read by	mm indur	Interpretation
Pruebas de la Tuberculosis	<input type="checkbox"/> PPD-Mantoux	/ /	/ /	/ /	/ /		<input type="checkbox"/> Pos <input type="checkbox"/> Neg
	<input type="checkbox"/> Other	/ /	/ /	/ /	/ /		<input type="checkbox"/> Pos <input type="checkbox"/> Neg

* A clear area may be indicated if skin test is positive.
** If required for school entry, must be Mantoux unless exception granted by local health department.

CHEST X-RAY [Radiografía] Film date: ___/___/___ Interpretation: normal abnormal
 Person is free of communicable tuberculosis: yes no
 (Necessary if skin test positive.) Signature/Agency: _____

Parents: Your child must meet California's immunization requirements to be enrolled in school and child care. Keep this Record as proof of immunization.
Padres: Su niño debe cumplir con los requisitos de vacunas para asistir a la escuela y a la guardería. Mantenga este Comprobante: lo necesitará.

IMMUNIZATION RECORD
Comprobante de Inmunización



Name _____
 Birthdate _____
 Allergies _____
 Vaccine Reactions _____

RETAIN THIS DOCUMENT — CONSERVE ESTE DOCUMENTO

<http://www.cairweb.org>

HOME ABOUT CAIR JOIN CAIR CAIR USERS PARENTS AND GENERAL PUBLIC SCHOOLS AND CHILD CARE TRAINING LOGIN



The California Immunization Registry (CAIR) is a secure, confidential, statewide computerized immunization information system for California residents.

- ▶ **CAIR 2 Is Coming!** CAIR will be combining 7 regions and moving to new software beginning in the fall of 2016!. For more info, go the [CAIR 2 Project](#) page.
- ▶ **CAIR IZ Portal – Please Login Now to Update Your Site Information!** So CAIR can continue to communicate with your data exchange Site, please login to the [CAIR IZ Portal](#) and update your Site info.

Upcoming Training Webinars

- ➔ March 25, 2016
 - ➔ [Regular - Giselle Garcia](#) at 9:00 am
 - ➔ [Inventory - Monique Crespo](#) at 1:00 pm
- ➔ March 29, 2016
 - ➔ [Regular - Jennifer Toten](#) at 9:00 am
- ➔ March 30, 2016
 - ➔ [Inventory - Janet Ajao](#) at 9:00 am