

HEALTH INFORMATION EXCHANGE: FROM NEW YORK TO HAWAII (AND EVERYWHERE IN BETWEEN)



Don Kyles
AIDS Community Care Team
State of Hawai'i



Jesse Thomas
RDE Systems, LLC

Pete Gordon, MD
New York Presbyterian
Columbia University

HEALTH INFORMATION EXCHANGE: FROM NEW YORK TO HAWAII (AND EVERYWHERE IN BETWEEN)

WORKSHOP OBJECTIVES:

- ❑ Describe two examples of HRSA Ryan White supported programs who are utilizing Health Information Exchange (HIE) to improve patient care, care coordination, and RSR reporting.
- ❑ Define and Explore opportunities for the RW Community to adopt and utilize state-of-the-art HIE in support of their clinical programs and regulatory reporting responsibilities

E2 HAWAII

THE VERY BEST FOR THOSE WHO CARE



November 28, 2012

Facilitated by:

Don Kyles, **Hawai'i AIDS Community Care Team**

Jesse Thomas, **RDE Systems, LLC**



Where Are We From?

Today's Agenda

Introduction

State-wide Data Exchange

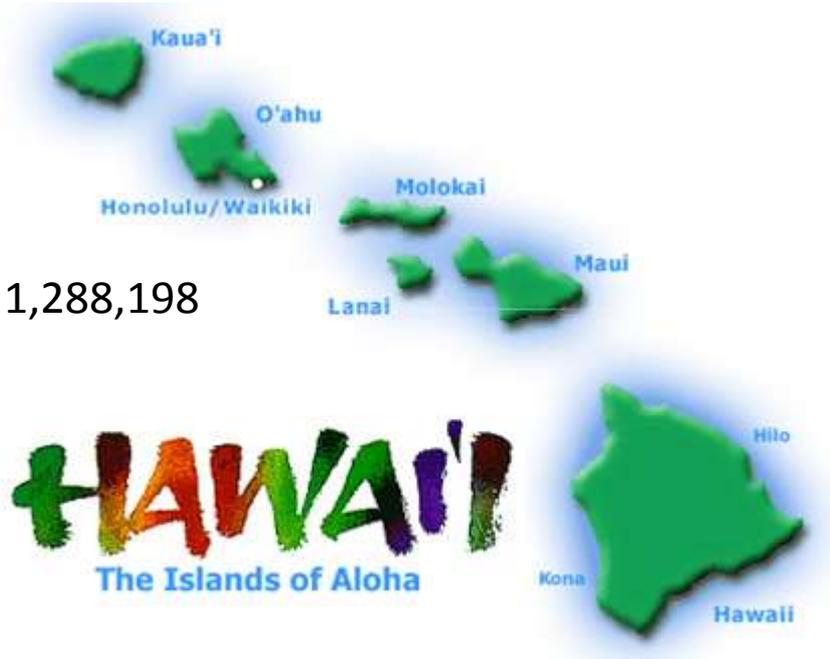
Medical Data Linkage and Exchange

ADAP Innovation

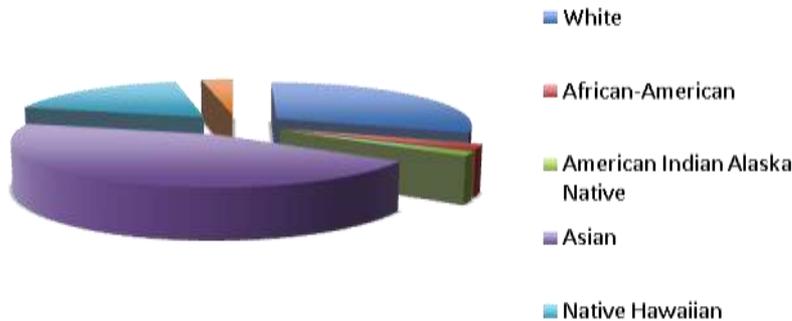
ADAP Data Report (ADR)



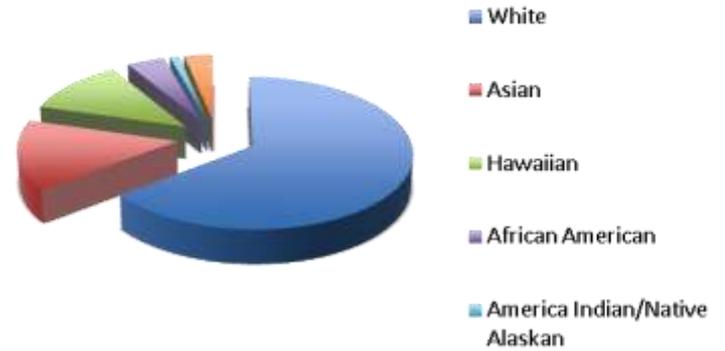
Population 1,288,198



General Population



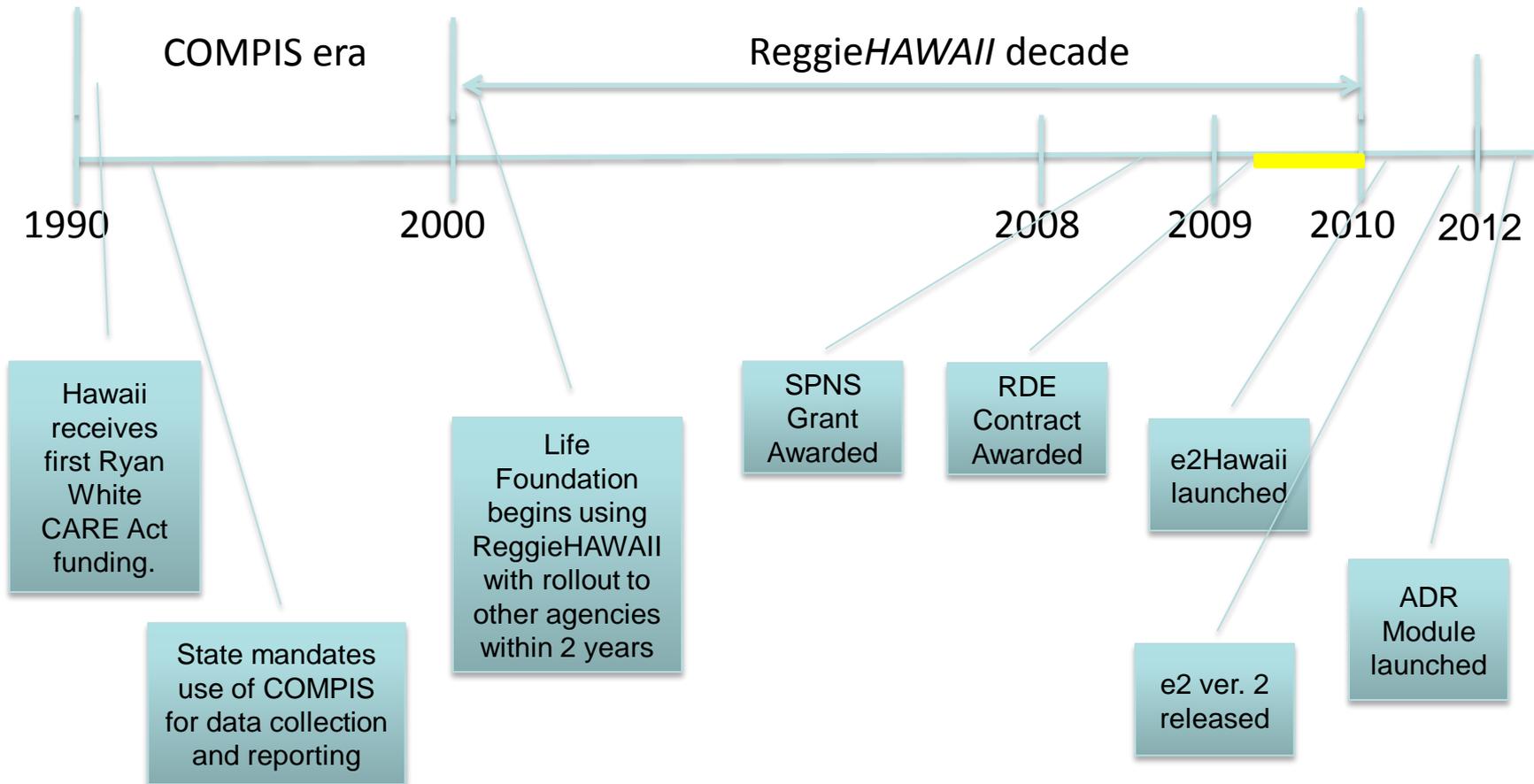
HIV/AIDS Cases by Race



Current Strategy

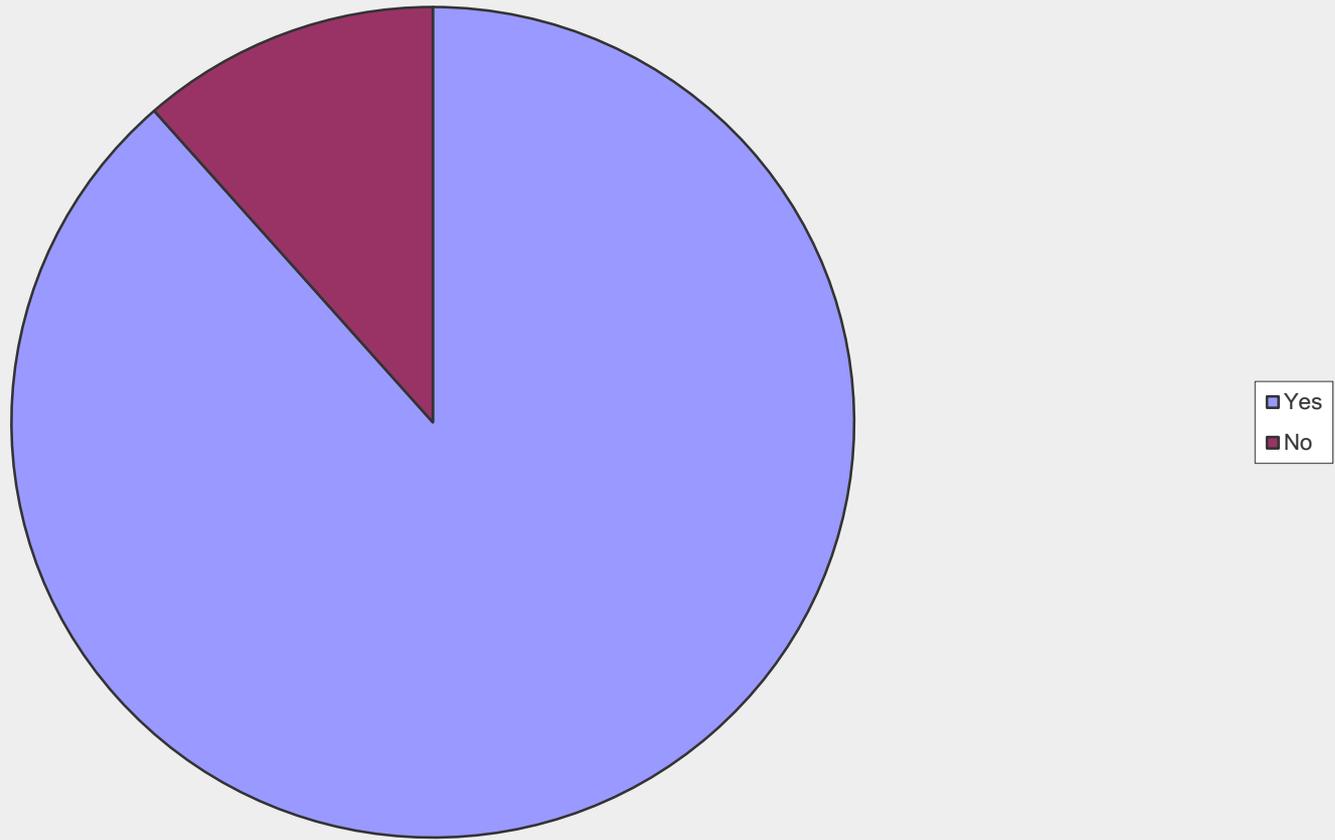
- eCOMPAS serve as platform to be adapted to local needs and new innovations.
- Operate within a “partnership paradigm” instead of a traditional “transactional paradigm” with our technology partner to achieve our large vision in a short time frame.
- RDE Systems, makers of eCOMPAS, fit perfectly with this needed approach.

Data Collection Systems Timeline



Have respondents participated in the design of e2Hawaii?

Have you participated in providing feedback on the design or enhancement of e2Hawaii at all?



88.5% of users provided feedback during the customization of e2

Launch Accomplishments

1. One-day, smooth launch of very user friendly system
2. RSR Compliant on Day 1
3. 3,795 clients and 409,000 units of services spanning over 18 years of data converted from legacy system. 99.92% data conversion success
4. Little-to-no training required!
5. High user satisfaction
6. More engaged users



Electronic Comprehensive Outcomes Measurement Program
for Accountability and ***Success (e2)***

Developed by
RDE Systems, LLC

A System and an Approach

Client Intake – Login



e2Hawaii
THE VERY BEST FOR THOSE WHO CARE

Username
maui

Password
●●●●●●●●●●●●●●●●

Login [Forgot Your Password ?](#)



Features

- Comprehensive Medical Module

General | Housing | SA/BBH | Insurance | Financial | **Medical** | H-Program | Services

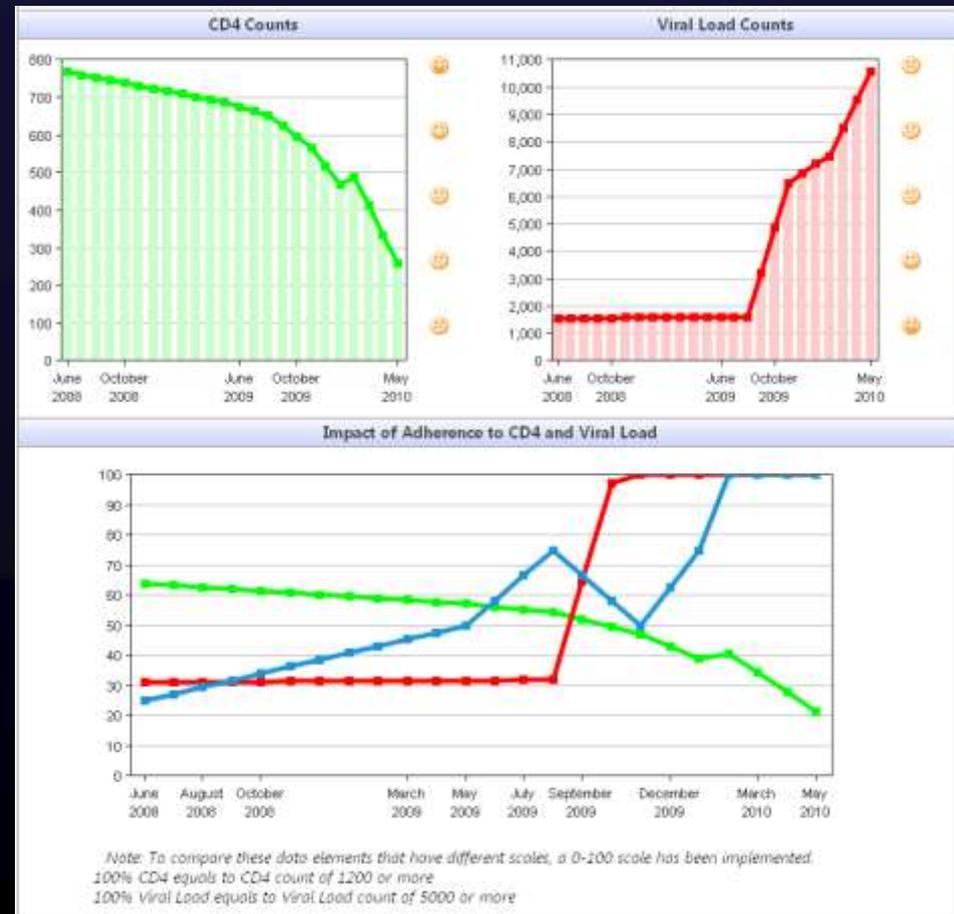
[Main](#) | [CD4](#) | [Viral Loads](#) | [STI](#) | [HIV Meds](#) | [Other Meds](#) | [Adherence](#)
[All Indicators](#) | [Conditions](#) | [Dv./Hosp](#) | [TB \(TST\)](#) | [Annual Physicals](#) | [Pregnancies](#) | [Deliveries](#)
[Gyn Care](#) | [Screenings](#) | [Immunizations](#)

Medical Information

Usual Source of Primary Care
 Hospital Outpatient Clinic/Dep.

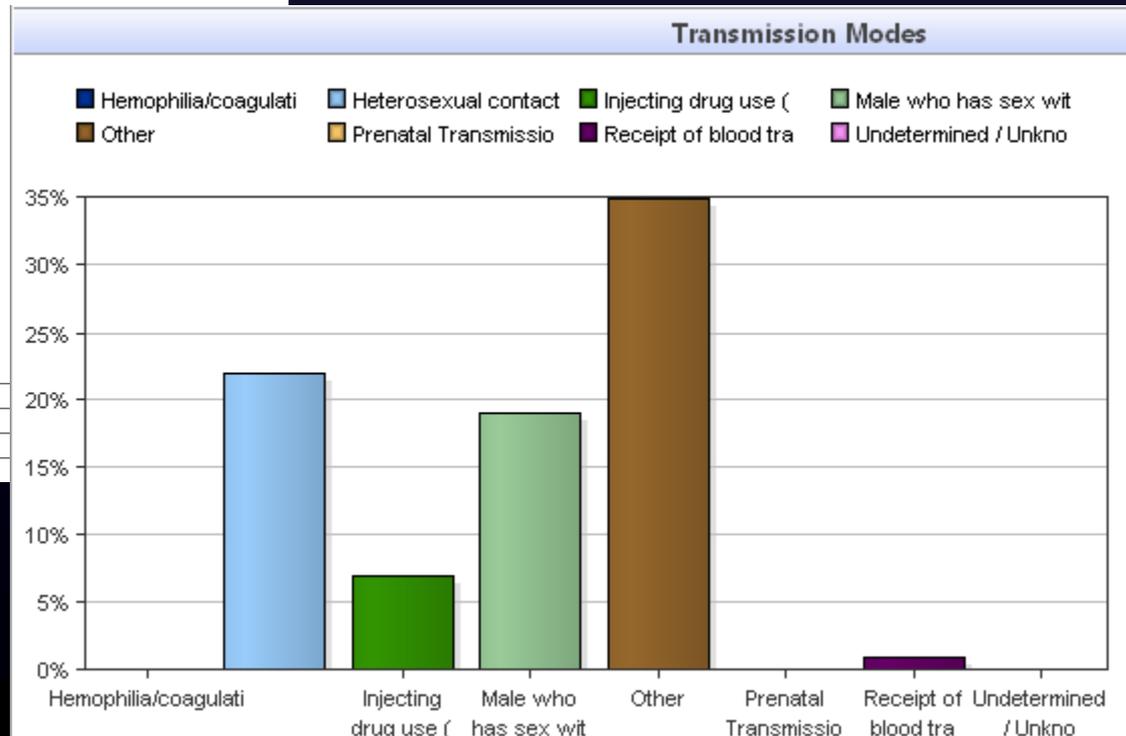
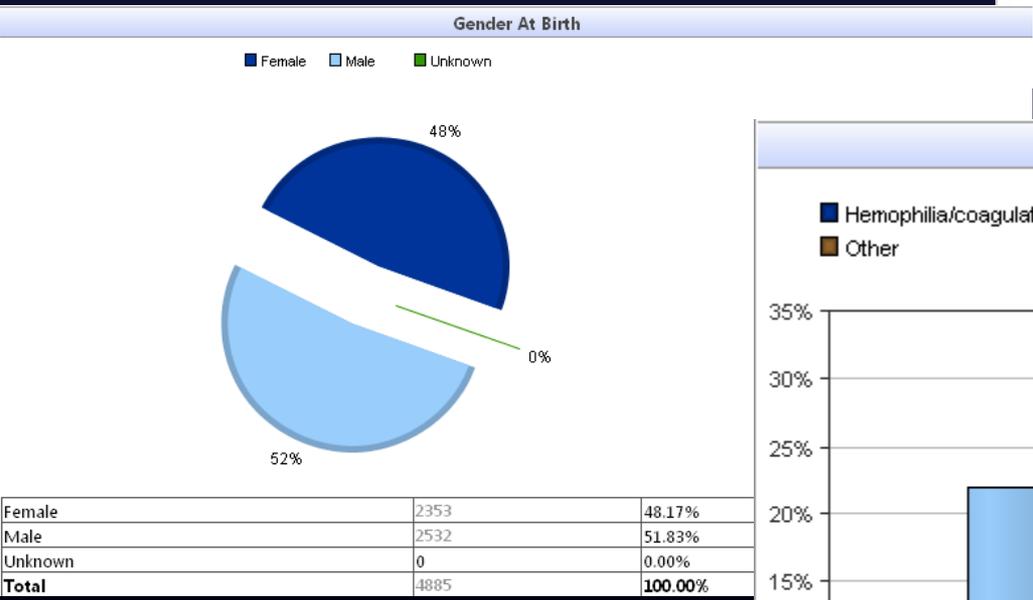
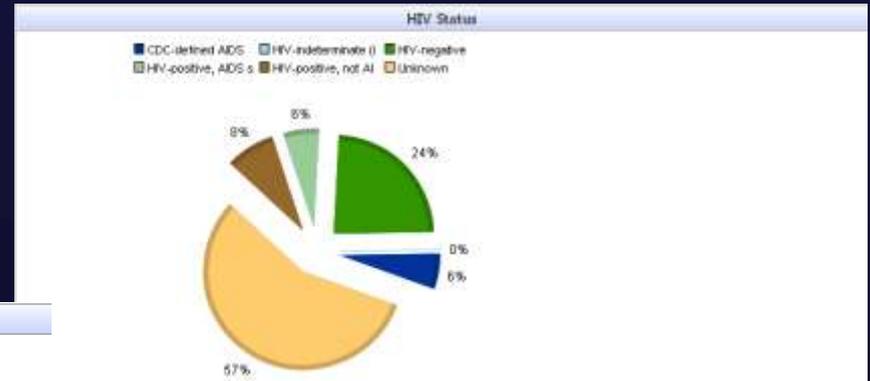
Summary		HIV Status	
Most Recent CD4	259 05/01/2010	HIV Status	<CDC-defined AIDS
Lowest CD4	259 05/01/2010	Year of HIV Diagnosis	2007
Most Recent Viral Load	10560 05/01/2010	Year of AIDS Diagnosis	2007
Highest Viral Load	10560 05/01/2010	Edit HIV Status Information	

Co-morbid Conditions



Features

- Visual Analytics



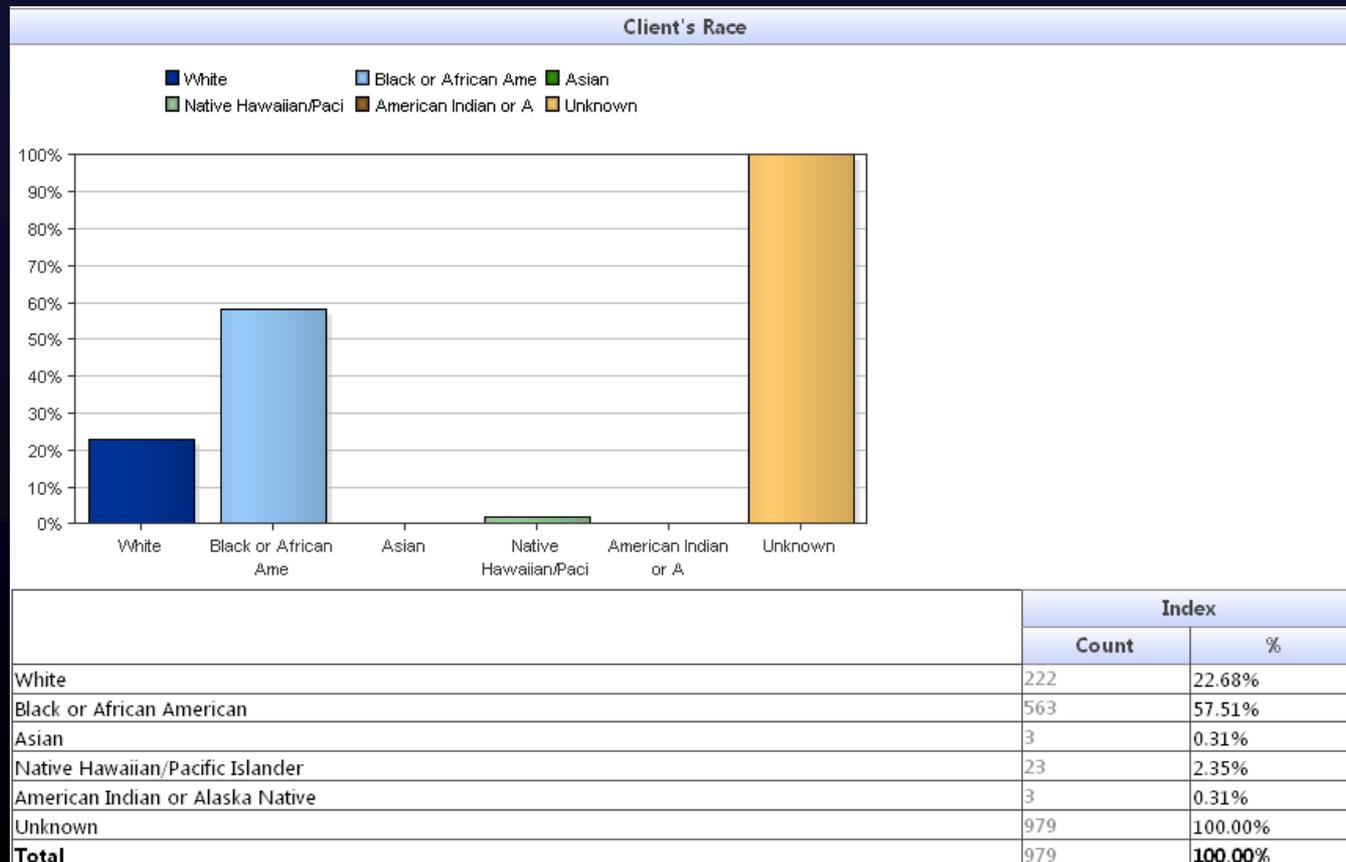
Features

- One-Click RSR

RSR Report Menu

Funding Source: All Funding Sources

From Date: 01/01/2009 To Date: 12/31/2009 or Select: Last Calendar Year **Go**

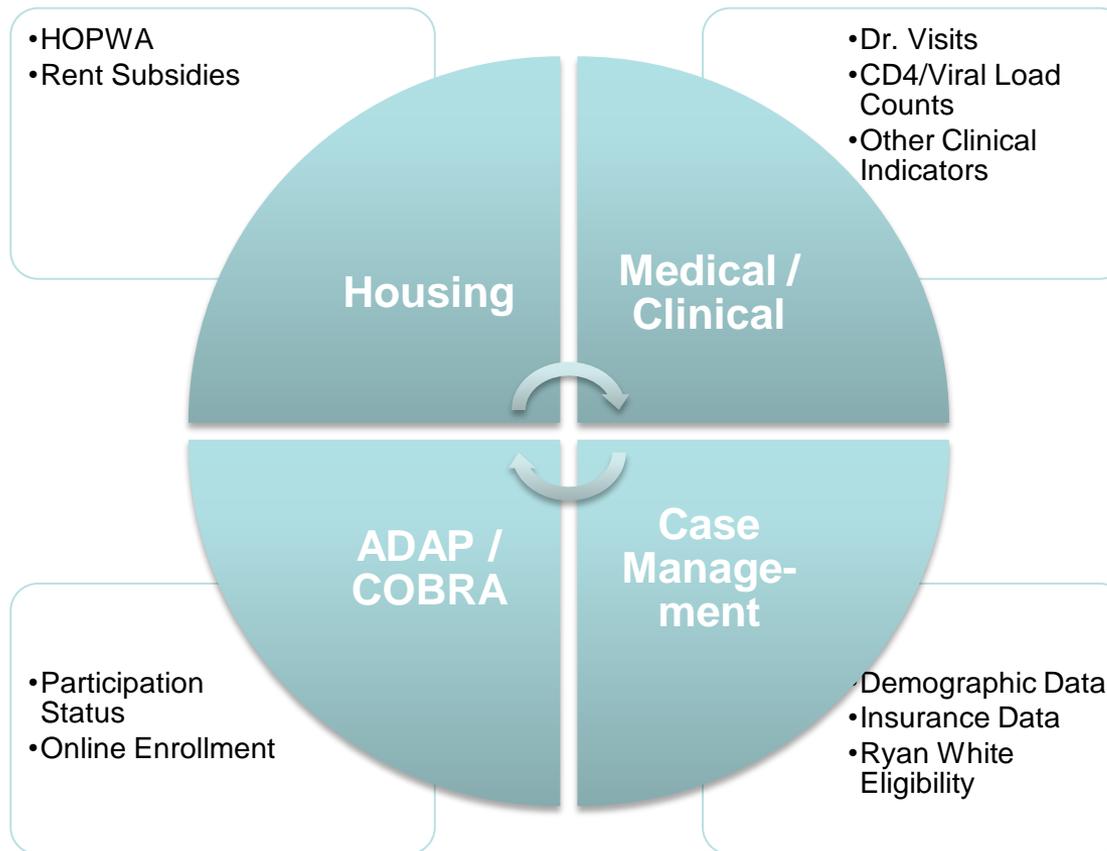


State-wide Data Sharing

Importance and Impact

1. Time
2. Data quality (Error-reduction and duplication prevention)
3. Data Timeliness (Real-time)
4. Coordination of Care
5. Client/Patient Convenience
6. Data Analysis and Reporting
7. Duplicative work is stressful!

Client Record in a Networked Sharing Model – e2Hawaii

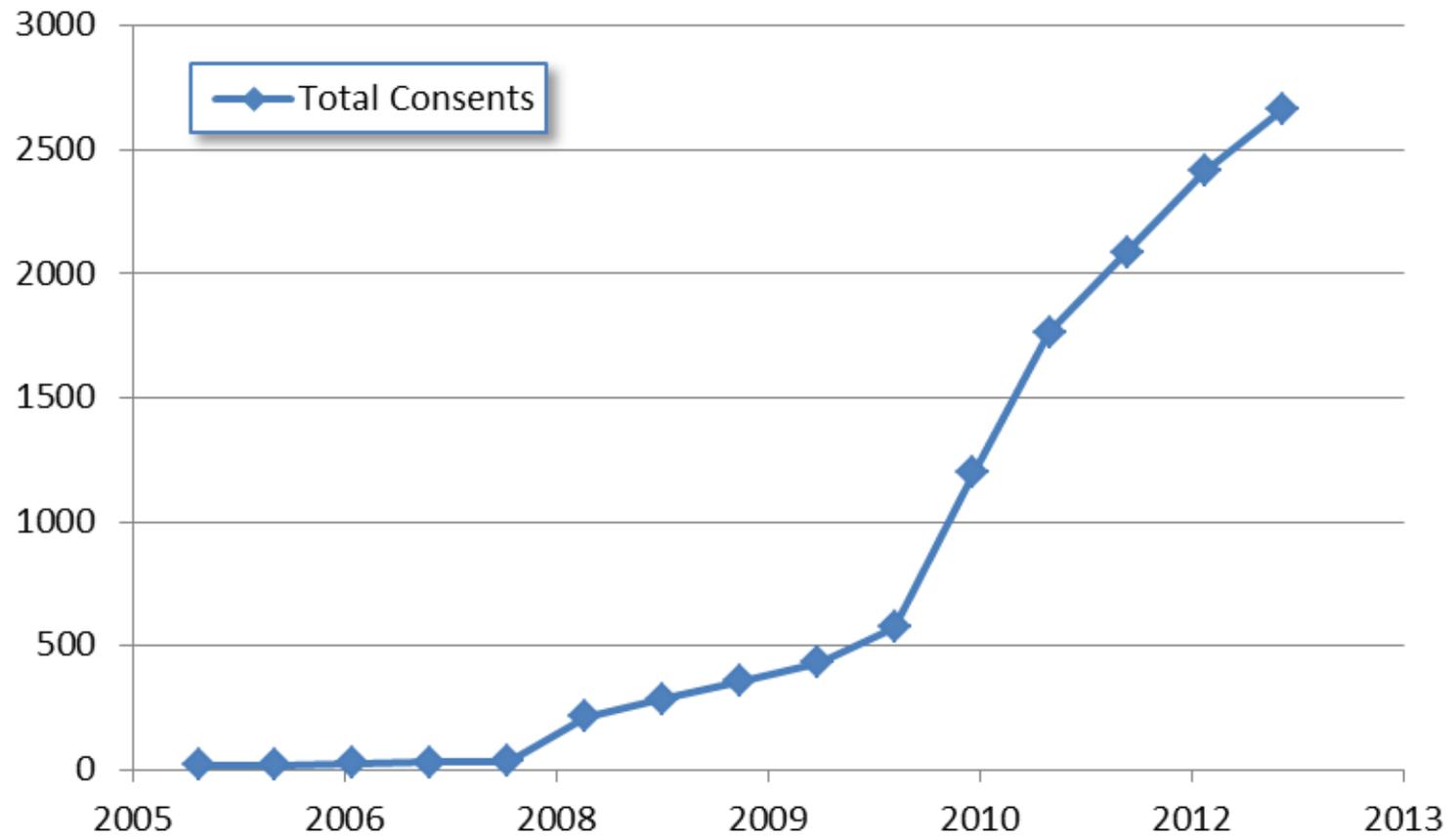


eCOMPAS (e2Hawaii)

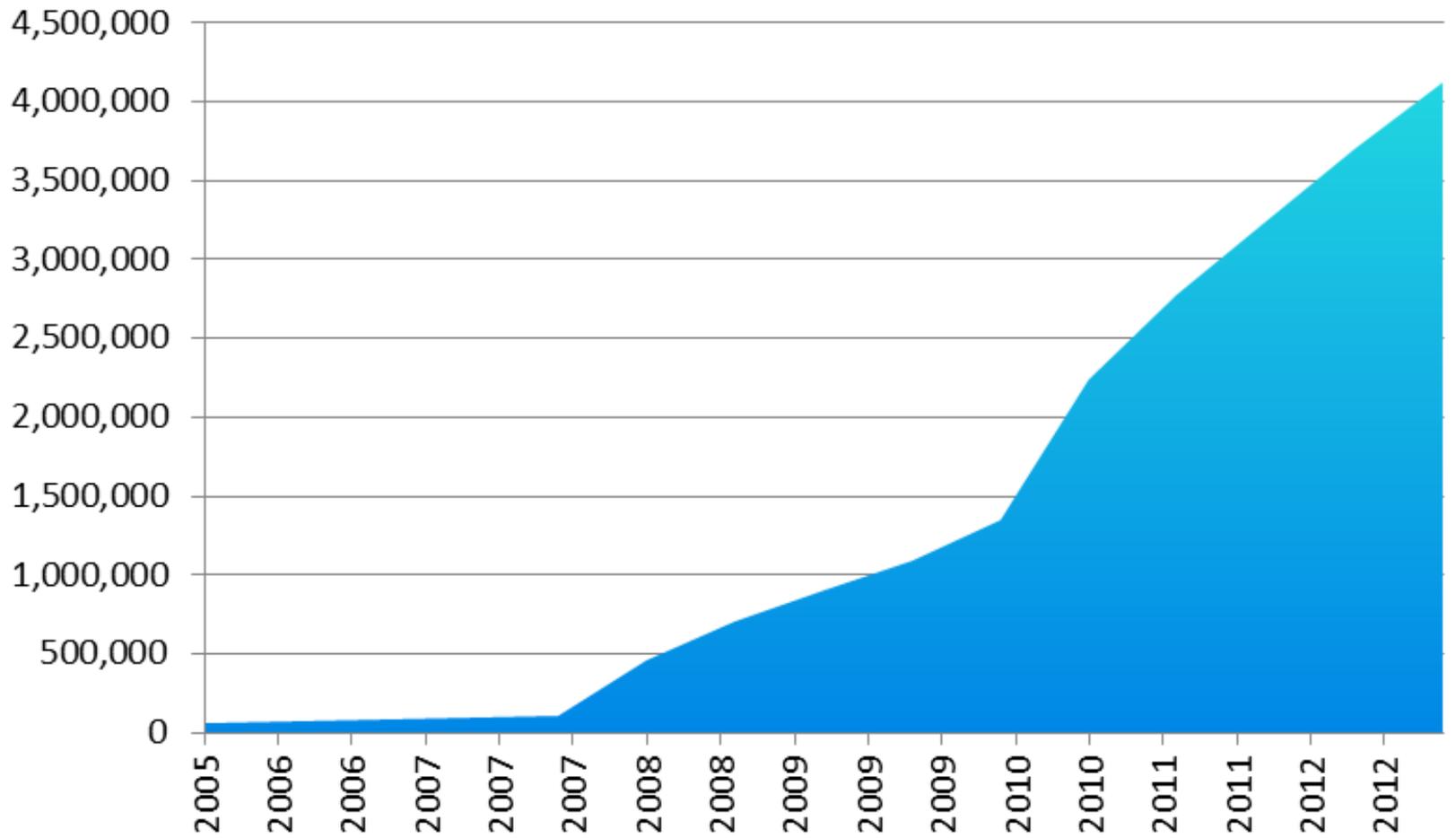
Implementation and Data Sharing

Outcomes

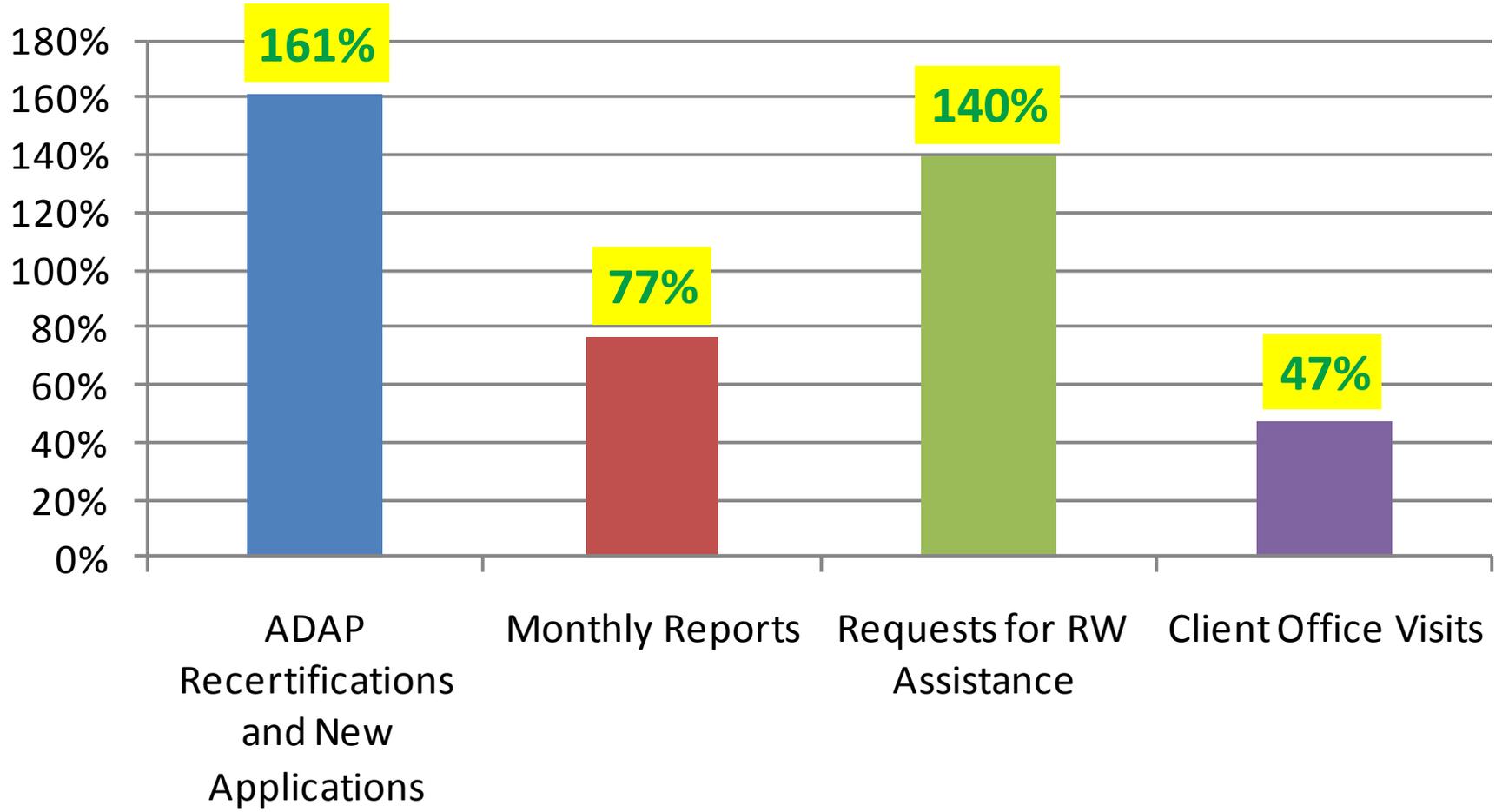
Consents



Fields Shared

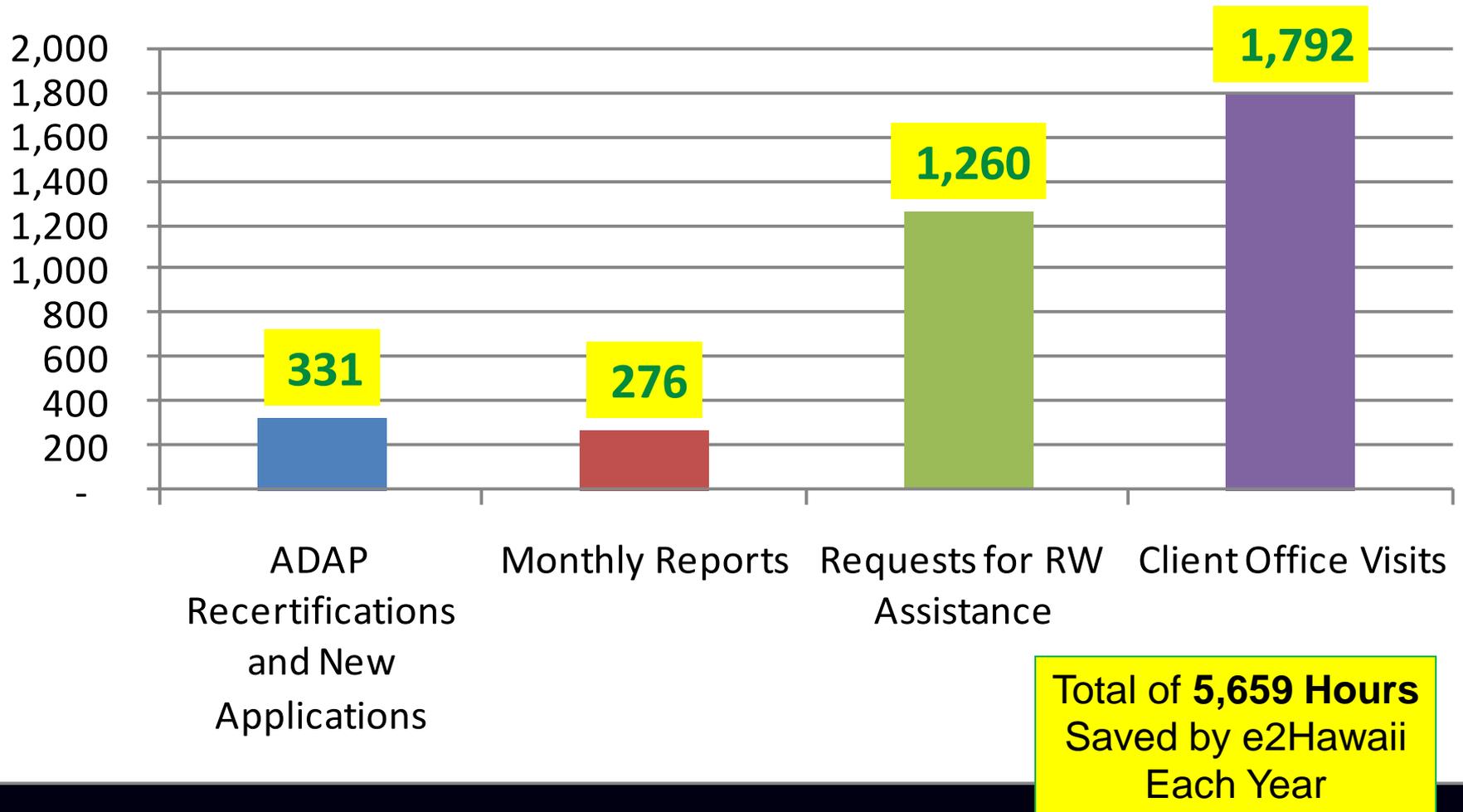


% Time Savings of eCOMPAS



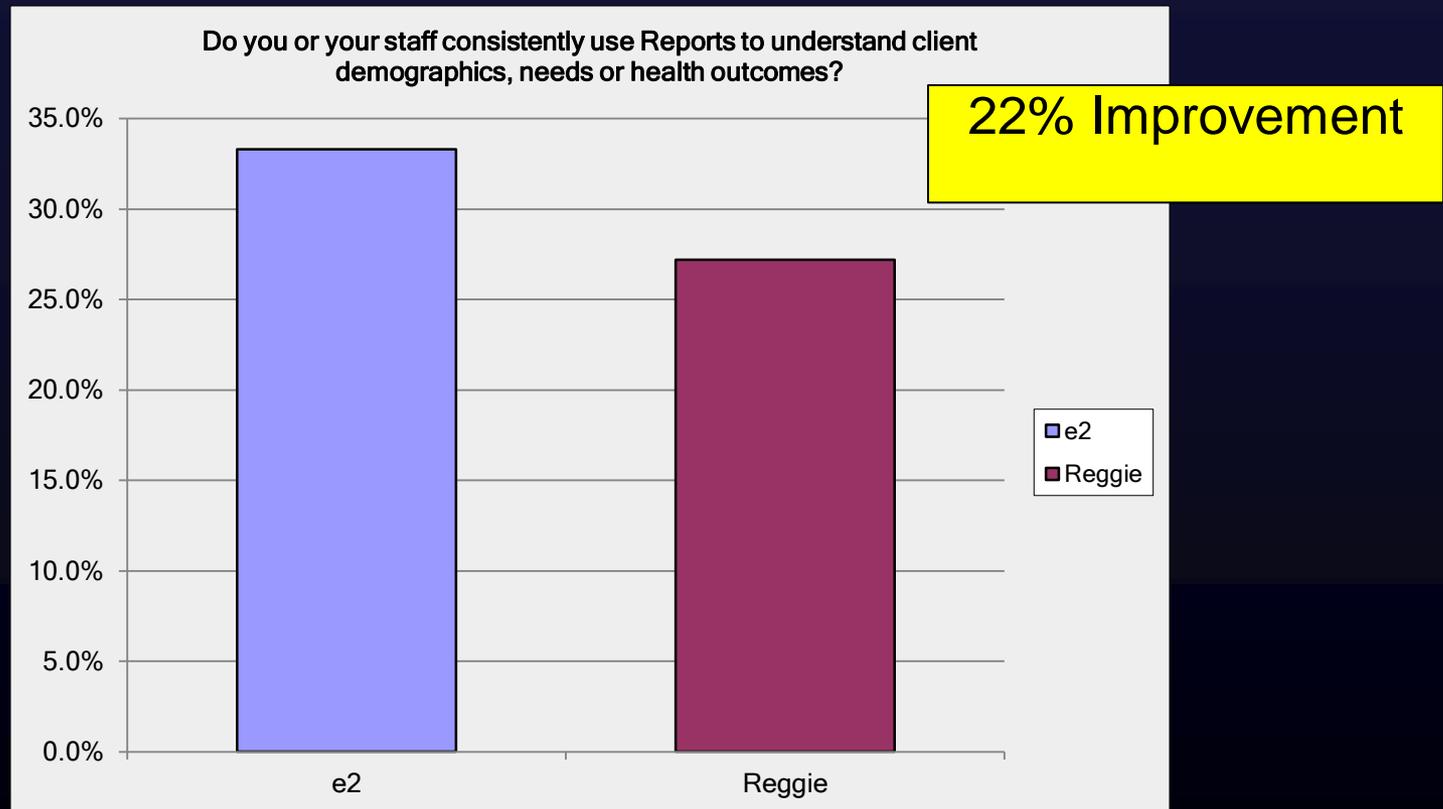
Source: Survey data collected while previous system was used (Reggie) compared to a post-launch survey conducted five months after e2Hawaii (eCOMPAS) was launched.

Hours Saved by eCOMPAS Per Year

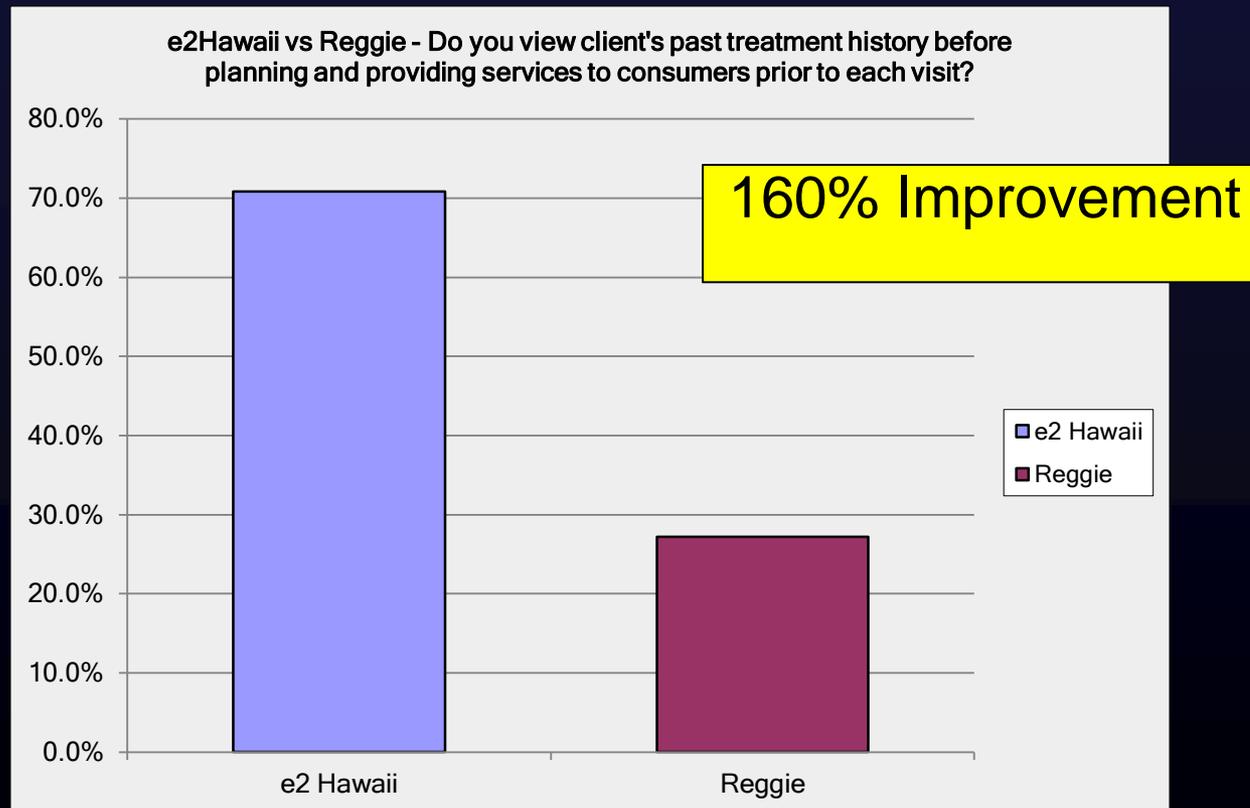


An additional 2,000 hours of savings is projected by the Waikiki Health Center based on the *e2Hawaii Electronic Health Record Data Exchange Module* developed by RDE Systems for a **total of 5,659 hours saved per year.**

Has e2Hawaii helped users consistently use reports to understand demographic, needs, and health outcomes?



Has e2Hawaii helped users view clients' past treatment history before planning and providing services to consumers prior to each visit?





WAIKIKI HEALTH CENTER

Compassionate Healing. Expert Care.

Part C SPNS Vignette:

**Using SPNS to Transform
Client Level Data Requirements to
Drive State-Wide Electronic Health
Information Exchange**

The Old Way



Problems with the Old Way

- Triple data entry!
- Data quality errors and time lost due to triple data entry.
- Keeping all sources of data in sync not feasible – meaning data is not kept current in all systems.
- Data is not used fully for quality improvement.

The New Vision

**Manual
Data Entry**



**Certified
EHR**



**eCOMPAS
Data Import
Engine**



eCOMPAS

e2
Hawaii



- **Part B Billing**
- **Part B Reporting**
- **Part B RSR**
- **Part B ADR**
- **Part C RSR**
- **Quality Management and Quality Reports**



Project Challenges

- EHR had incomplete and out-of-date Data Dictionary.
- EHR documentation incomplete and out-of-date No Data Extract capability.
- EHR training insufficient for report generation and data extracts.
- EHR doesn't track all fields required by HRSA Ryan White programs.
- The exported data must follow both HRSA requirements and State-specific requirements.

One Click Data Import

- Browser extract tool – no software installation needed
- System checks connectivity to database automatically

User Management | **Data Import**

Summary | Review Data | Review Errors | **Data Extract** | Configurations

From Date: To Date:

 Ready to Extract

Import Data Now

Ready to Extract

Import Summary at-a-glance

User Management		Data Import		
Summary	Review Data	Review Errors	Data Extract	Configurations
Type	Clients			
 Imported	0			
 Ready to Import	0			
 Requires Input	20			
 Missing Consent	0			
 Inactive	80			
 Discarded	0			
Total Number of Records		100		

Data Quality Assurance Module

Search	Multi Entry	User Management	Data Import	Summary	Review Data	Review Errors	Data Extract	Configurations
Order By: <input type="text" value="First Name"/>								
<input checked="" type="checkbox"/> Show Errors <input type="checkbox"/> Show Missing Consents								
<input type="checkbox"/> Show Warnings <input checked="" type="checkbox"/> Show First 100 only								
<input type="button" value="Refresh"/>								
First	Last	Agency ID	Compare	Final				
✘	Griffin	880YL	Mapped	<i>First Name:</i> Empty value is not allowed				
✘	Griffin	880YL	Mapped	<i>Year of HIV</i> <i>Diagnosis:</i> The imported value is not a valid date				
✘	Griffin	880YL	HIV Medications	Medication	OXYBUTYNIN CHLORIDE 5 MG TB24	The imported value is not supported		
✘	Griffin	880YL	HIV Medications	StartDate	[Empty]	Empty value is not allowed		
✘	Griffin	880YL	HIV Medications	Medication	LEVOXYL 100 MCG TABS	The imported value is not supported		
✘	Griffin	880YL	HIV Medications	Medication	WELLBUTRIN XL 150 MG TB24	The imported value is not supported		

Data Import Details

Search Multi Entry User Management **Data Import**

Summary **Review Data** Review Errors Data Extract Configurations

Last Name	First Name	Agency ID	DOB	Type	Status
▶ Griffin		880YL	01/26/2008	New	Requires Input
Gonzalez	Alexandra	Q79T9	01/10/1995	New	Requires Input
Anderson	Anthony	XA471	02/19/2003	New	Requires Input
Bennett	Blake	7P3E8	08/19/1990	New	Requires Input
Edwards	Connor	B2A7X	05/05/1994	New	Requires Input
	Dakota	9TKSN	08/21/2004	New	Requires Input
Moore	Elizabeth	U8PD2	07/26/2001	New	Requires Input
Smith	Emily	6BC62	06/11/1998	New	Requires Input
Perry	Gabriella	O0B0F	10/25/1999	New	Requires Input

Show Status: Requires Input

Client Profile Display: Errors only Errors and Warnings All Fields

Client Records Display: Hide Show

Record Actions:

Name Griffin | AgencyID 880YL | E2ID (n/a) | DOB 01/26/2008 | Gender Female | ✘ Requires Input

Data Category	Imported Data	Compare	Final
First Name ✘	First Name:	Mapped	First Name: Empty value is not allowed
Middle Name ✔	Middle Name:	Mapped	Middle Name:
Last Name ✔	Last Name: Griffin	Mapped	Last Name: Griffin

Data Import Details (continued..)

Phone Number	✓	Phone: (309)-377-7766	Mapped	Primary Phone Number: (309)-377-7766	Primary Phone Number: (309)-377-7766
Home Address	✓	Address: Red Prairie Promenade Zip Code:	Mapped	Address: Red Prairie Promenade City: State: Zip:	Address: Red Prairie Promenade City: State: Zip:
Mailing Address	✓	Address: Zip Code:	Mapped	Address: City: State: Zip:	Address: City: State: Zip:
Race	✓	Race: Chinese	Mapped	Race: Asian / Chinese	Race: Asian / Chinese
Ethnicity	✓	Ethnicity: Non-Hispanic	Mapped	Ethnicity: Non-Hispanic	Ethnicity: Non-Hispanic
HIV Diagnosis Date	✗	HIV Diagnosis: 12/asdf	Mapped	Year of HIV Diagnosis: The imported value is not a valid date	
AIDS Diagnosis Date	✓	AIDS Diagnosis: [Empty]	Mapped	Year of AIDS Diagnosis:	Year of AIDS Diagnosis:
HIV Status	✓		Mapped	HIV Status: Unknown	HIV Status: Unknown
Monthly Income	✓	Family Size: 1 Monthly Income: \$1,377.00	Mapped	Family Size: 1 Total Monthly Family Income (\$): 1377	Family Size: 1 Total Monthly Family Income (\$): 1377
Housing Status	✓	Homeless: Yes Homeless Status: Homeless Shelter	Mapped	Living Situation: Emergency shelter	Living Situation: Emergency shelter
Insurance	✓	Carrier: Secure Horizons	Mapped	Client has NO Insurance: Private Insurance: Client Insurance	Client has NO Insurance: Private Insurance: Client Insurance

Data Import Details (continued..)

Services	Employee	Service	Subservice	Service Date	Action
✓	serge test	Direct Fianacial Assistance	Bus Pass	06/29/2010	Import New Record
✓	serge test	Housing	EA - utility	06/29/2010	Import New Record
✓	serge test	Direct Fianacial Assistance	Bus Pass	06/25/2010	Import New Record

Save Changes

CD4 Tests	Result Date	Count	Action
No Records Imported			

Save Changes

Viral Load Tests	Result Date	Count	Undetectable	Action
✓	11/09/2009	23614	No	Import New Record

Save Changes

Syphilis Screenings	Result	Result Date	Action
No Records Imported			

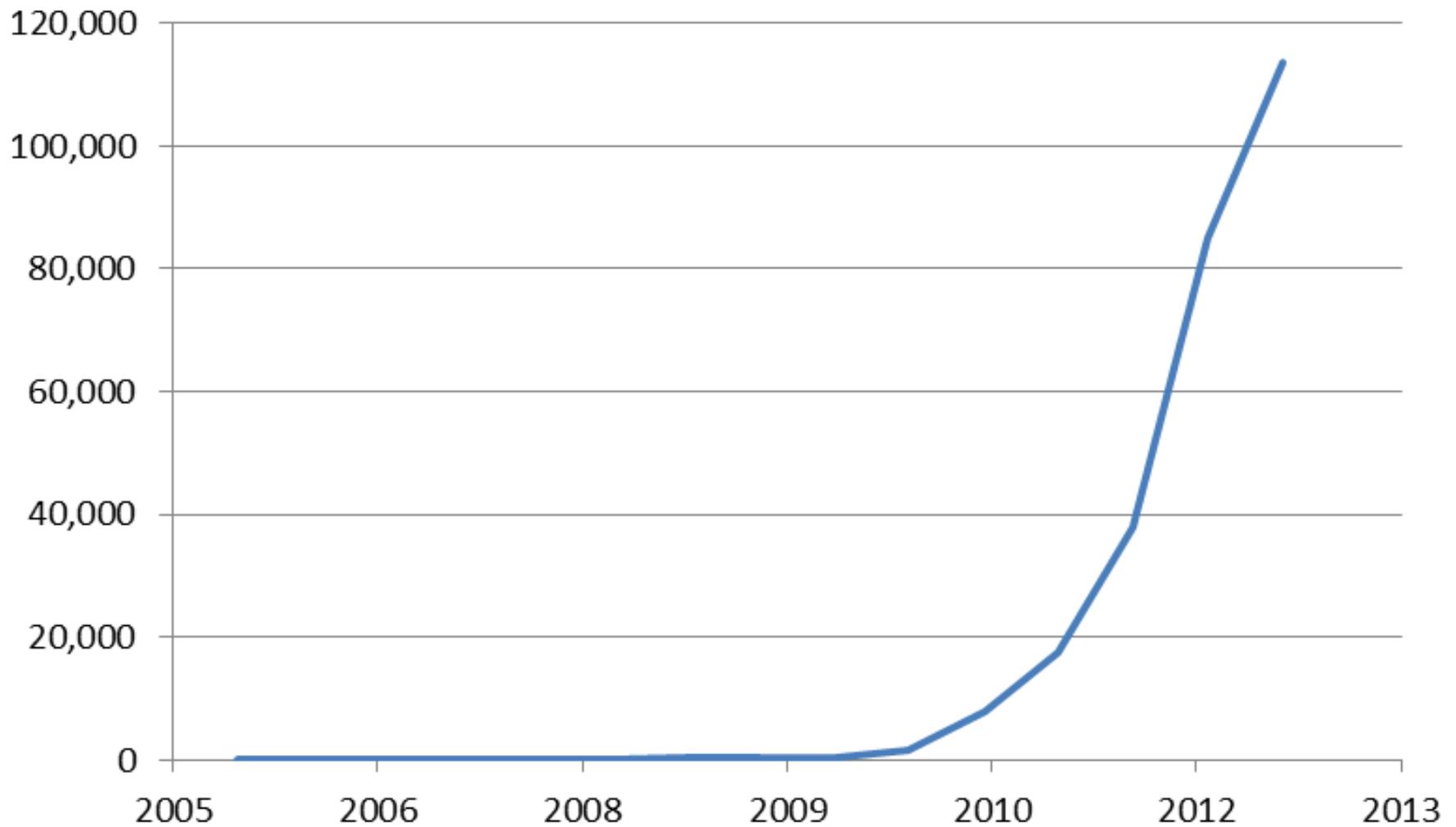
Save Changes

HIV Medications	Medication	Start Date	End Date	Dosage Notes	Action
✗	VIAGRA 100 MG TABS The imported value is not supported	03/29/2010	[Empty]	VIAGRA 100 MG TABS. 1 by mouth 1 time per day as needed for sexual activity.	Do Not Import - Failed Validation

Project Accomplishments cont'd

- Estimated 80-90%+ data entry savings (some fields are not tracked by EHR)
- No further need to maintain multiple systems.
- Combined with innovative state-wide model of sharing data, this project will allow other agencies to see medical data important to the treatment and service of clients.
- Leveraged Part C SPNS grant to integrate seamlessly with State-wide eCOMPAS system for sustainability.

Data Elements from EMR Data Linkage



ADAP Innovation

Using eCOMPAS to Connect
Case Managers with State
ADAP

Problem Statement and Vision

H-Programs – Step 1: Sharing

Documents on file			
Document Type:	Agency Authorization to Use/Disclose PHI <input type="button" value="v"/>	Recorded on:	-
Share With:	DOH-H-Programs <input type="button" value="v"/>	Recorded by:	usermgr usermgr
Date Collected:	05/31/2010 <input type="button" value="calendar"/>		Life Foundation
Date Expires:	5 Years <input type="button" value="v"/>		
Notes:	Agency authorizes DOH-H-Programs to review CT information to determine eligibility		
			<input type="button" value="Add"/>



H-Programs – Step 2: Certification

General Housing SA / MH Insurance Financial Medical H-Program Services

Demographics | HIV and AIDS Info | Documents on File

Last Certified by CM: 07/18/09 (306 days ago) Information is up to date Update

Please Confirm



I am a Case Manager and I certify that all fields on this screen are up to date and that there is documentation on file to support the data entry on this screen.

Sure No Way

First Name
Middle Name
Last Name
Last Name at Birth Hill

H-Programs – Validations

HDAP



This Client cannot apply to HDAP. Client's **Insurance** Information has not been certified in the past 6 months

HDAP



This Client cannot apply to HDAP. Client's **Financial** Information has not been certified in the past 6 months

H-Programs – Step 3: Application

Basic Information [Progress Notes]

Name Anna Martinez E2ID AM103026 SSN ZIP 96840 DOB 10/18/1989 AgencyID

General **Housing** **Insurance** **Financial** **Medical** **H-Program** **Services**

 Client's HDAP status successfully updated

HDAP

New HDAP Application

Program Summary	
status	Effective Date
 Application In Process	05/20/2010

HCOBRA

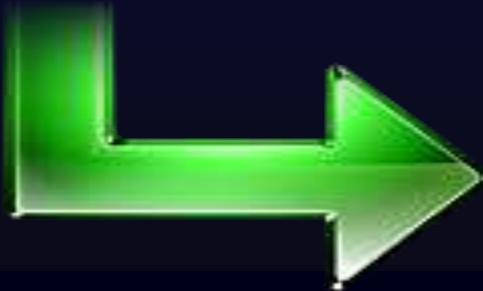
New HCOBRA Application

H-Programs – Step 3: Application cont.

HDAP

New HDAP Application

Program Summary	
Status	Effective Date
 Application In Process	11/22/2009



adap_application.pdf - Adobe Reader

File Edit View Document Tools Window Help

1 / 3 73.4%

HDAP # : _____

HIV Drug Assistance Program (HDAP) Application

State of Hawaii Department of Health
5677 Kilohana Avenue, #106
Honolulu, HI 96816

Personal Information

Applicant's Name: Blake Bennett Birth Date: 02/25/1962
Home Address: Rocky Quail Ridge 96821 HON
Mailing Address: Waihau Zephyr Woods 96862 BARBERS POINT N A S
Residency Verified: No
Phone Number: 5285510105
Current Gender: Male
Gender at Birth: Male
Ethnicity: Non-Hispanic
Race: Latino / Spanish, Prigian, Cape Verde
HIV Case Management Agency: Midway Point Care Manager: Keolu Chan
Employment Status: Never employed

Health Insurance

Has Insurance: No
Has Private Insurance: No
Private Insurance:

State Department of Health's View – Processing Applications

Client Search

Search For

Filter By

HDAP Status

Status

Last Name	First Name	Agency ID	DOB	ZIP
Adams	Hunter		04/10/1967	96757
Adams	Hunter		01/07/1964	96757
Adams	Hunter		09/15/1999	96759
Adams	Hunter		03/15/2001	96759
Alexander	Kylie		08/24/2002	96858
Anderson	Jessica		07/08/1965	96717
Anderson	Anthony		05/17/1999	96717
Anderson	Jessica		01/12/1982	96718
Anderson	Jessica		10/24/1955	96717

... (Displaying 1 - 25 of 354 clients found)

H-Programs – Processing Applications

[Progress Notes]

Basic Information

Name Anna Martinez E2ID AM103026 SSN ZIP 96840 DOB 10/18/1989 AgencyID

General **Housing** **Insurance** **Financial** **Medical** **H-Program** **Services**

DOH H Programs Side (Tim)

HDAP

HDAP Status Approve Application for HDAP 

Effective Date 06/01/2010 

Update Status 

Program Summary

	status	Effective Date
	Application In Process	05/20/2010

HCOBRA

HCOBRA Status Reject Application to HCOBRA 

Effective Date 05/20/2010 

Update Status

Program Summary

	status	Effective Date
	Application In Process	05/20/2010

Real-Time Updated Information Between Case Managers and State Department of Health

Program Summary		
	Status	Effective Date
	Discharged From HDAP	07/31/2010
	Application Approved	01/04/2010
	Application Waitlisted	12/08/2009
	Application is Incomplete	11/25/2009
	Application In Process	11/22/2009
	Application Rejected	10/22/2009

H-Programs – Data Extract

Search **Multi Entry**

✓ Data extracted successfully! [Click Here to Download](#)

Client Search

Search For:

Search Intake

Filter By: Last Name

Status: Active, continuing in program

HDAP Status: In Process / Incomplete

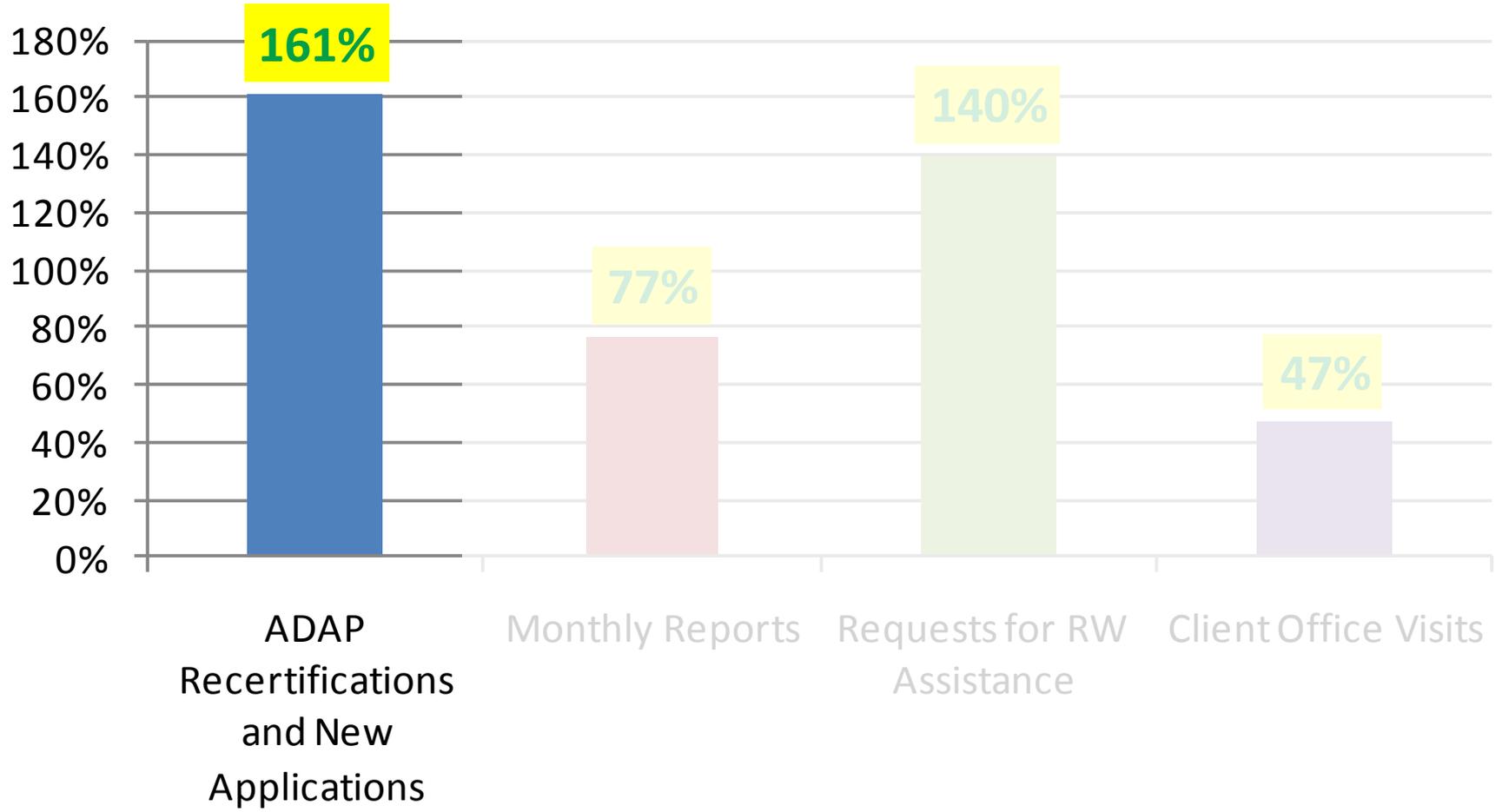
Extract Clients to CSV



Microsoft Excel - extract_081210-030135490.csv [Read-Only]

A1	B	C	D	E	F	G	H	I	J	K	L	
1	IDD	LASTNAME	FIRSTNAME	CURRINITIALS	ADDRESS1	CITY	STATE	ZIP	ADDRESSOK	PHONE1	DELADDRESS	DELCITY
2	A4003082	Anderson	Anthony	AA	Cinder Bear Canyon	HAULUA	H	96717	Mailing Address	334518907	Tawny Treasure Valley	HON
3	AB003381	Bell	Angie	AB	Last Log Meadow	WAALUA	H	96791	Mailing Address	1403534101	Tawny Treasure Valley	HON
4	AB007387	Brown	Alexis	AB	Bright Autumn Avenue	HAUKU	H	96708	Mailing Address	8335298027	Tawny Treasure Valley	BANCORP
5	AB011533	Bell	Angie	AB	Last Log Meadow	KULA	H	96790	Mailing Address	5076047452	Tawny Treasure Valley	BANCORP
6	AB017329	Bennett	Angela	AB	Rocky Quail Ridge	HON	H	96822	Mailing Address	3479823163	Wishing Zephyr Woods	WAKE ISLAN
7	AB019027	Bennett	Angela	AB	Rocky Quail Ridge	HON	H	96821	Mailing Address	3022490315	Velvet Willow Way	BARBERS PC
8	AB021066	Bennett	Angela	AB	Round Rabbit Round	HON	H	96822	Mailing Address	3827342550	Blue Apple Arbor	EWA BEACH
9	AB021405	Bennett	Angela	AB	Rocky Quail Ridge	HON	H	96822	Mailing Address	7906113925	Wishing Zephyr Woods	WAKE ISLAN
10	AB025142	Bennett	Angela	AB	Round Rabbit Round	HON	H	96822	Mailing Address	8167367551	Blue Apple Arbor	ELEELE
11	AC003386	Cooper	Alex	AC	Middle Nectar Nook	HON	H	96801	Mailing Address	2277368844	Cozy Branch Court	KAAAWA
12	AC008820	Cooper	Alex	AC	Middle Nectar Nook	WAIPAHI	H	96797	Mailing Address	3163113753	Colonial Blossom Circle	PRINCEVILLE
13	AE000313	Evans	Andrea	AE	Honey Hills Jetty	PAALILU	H	96776	Mailing Address	7546888073	Harvest Fox Glen	LAE
14	AE000011	Evans	Andrea	AE	Honey Hills Jetty	PAALILU	H	96775	Mailing Address	8951292768	Green Forest Glade	KUNIA
15	AE004080	Evans	Andrea	AE	Honey Hills Jetty	PAALILU	H	96776	Mailing Address	2893332906	Green Forest Glade	LAHANA
16	AG000704	Gonzales	Angelina	AG	Thunder View View	HICKAM AFB	H	96853	Mailing Address	4969614641	Umber Wagon Vista	SCHOFIELD E
17	AL023454	Long	Aidan	AL	Sleepy Sky Tracce	HONOLULU	H	96840	Mailing Address	6769562640	Lazy Lake Lodge	VOLCANO
18	AL024018	Long	Aidan	AL	Silver Shadow Terrace	HON	H	96839	Mailing Address	9644657040	Shady River Stead	HON
19	AM000078	Miller	Andrew	AM	Broad Barn Bank	HALEIWA	H	96712	Mailing Address	9698946002	Gusking Pond Place	HON
20	AM023617	Miller	Andrew	AM	Broad Barn Bank	HALEIWA	H	96712	Mailing Address	8040251502	Gusking Pond Place	HON
21	AN001322	Nelson	Amanda	AN	Harvest Fox Glen	LAHAINA	H	96753	Mailing Address	7442769105	Stony Spring Trail	HONOLULU
22	AP000004	Perez	Aaron	AP	Heather Goose Highlands	LAHAINA	H	96767	Mailing Address	3715556188	Amber Anchor Acres	ANAHOLA
23	AP010195	Perez	Aaron	AP	Heather Goose Highlands	LIHUE	H	96766	Mailing Address	7518518050	Amber Anchor Acres	AEA
24	AP025102	Perez	Aaron	AP	Heather Goose Highlands	LAHAINA	H	96767	Mailing Address	5083052322	Blue Apple Arbor	ELEELE
25	AR007867	Robinson	Alexander	AR	Crystal Brook Cove	KAHULU	H	96732	Mailing Address	7207000197	Hidden Grove Hollow	MOUNTAIN V
26	AS001335	Stewart	Adam	AS	Iron Island Landing	PAPAALO	H	96780	Mailing Address	8106684731	Jagged Lagoon Lane	PEPEKEO
27	AS000014	Stewart	Ambler	AS	Iron Island Landing	PAIA	H	96779	Mailing Address	8081864650	Iron Island Landing	PAPAOU
28	AS005751	Stewart	Adam	AS	Iron Island Landing	PAPAALO	H	96780	Mailing Address	3072188719	Lazy Lake Lodge	VOLCANO
29	AS018553	Simmons	Bryce	BS	Tawny Treasure Valley	BANCORP	H	96849	Mailing Address	7890267307	Sleepy Sky Trace	HONOLULU
30	AS013204	Stewart	Adam	AS	Iron Island Landing	PAPAALO	H	96780	Mailing Address	3680349323	Lazy Lake Lodge	SCHOFIELD
31	AS013930	Sanders	Adrian	AS	Red Prairie Promenade	HON	H	96819	Mailing Address	7162217424	Stony Spring Trail	HON
32	AS015262	Stewart	Adam	AS	Iron Island Landing	PAPAALO	H	96780	Mailing Address	1900244304	Lazy Lake Lodge	SCHOFIELD
33	AS023414	Stewart	Ambler	AS	Iron Island Landing	PAPAALO	H	96780	Mailing Address	7190455304	Lazy Lake Lodge	VOLCANO
34	AS023781	Sanders	Adrian	AS	Red Prairie Promenade	HON	H	96819	Mailing Address	5616236493	Sunny Timber Vale	HONOLULU
35	AS024093	Stewart	Adam	AS	Iron Island Landing	PAPAALO	H	96780	Mailing Address	2906679082	Jagged Lagoon Lane	PEARL CITY
36	AT004637	Turner	Alicia	AT	Hidden Grove Hollow	MAUNALO	H	96770	Mailing Address	2639362706	Rustic Rise Run	HON
37	AT023179	Turner	Alicia	AT	Hidden Grove Hollow	MAKAWELU	H	96769	Mailing Address	4395571100	Round Rabbit Round	HON
38	AT023180	Turner	Alicia	AT	Hidden Grove Hollow	MAUNALO	H	96770	Mailing Address	6526664695	Silent Robin Swale	HON

% Time Savings of eCOMPAS



Source: Survey data collected while previous system was used (Reggie) compared to a post-launch survey conducted five months after e2Hawaii (eCOMPAS) was launched.

ADAP Data Reporting

SPNS to the Rescue

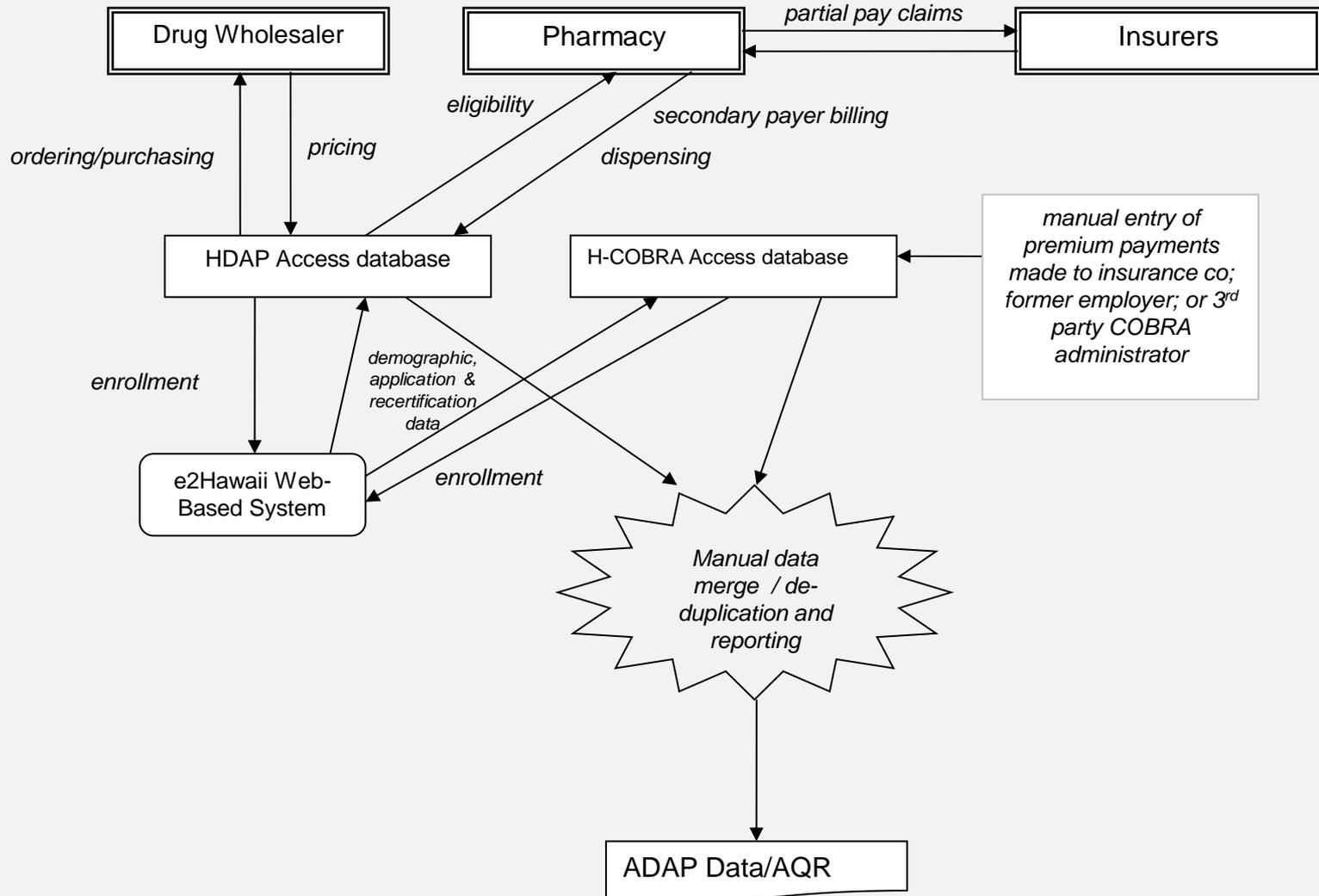
eCOMPAS + Hawaii DOH

ADR Report Before

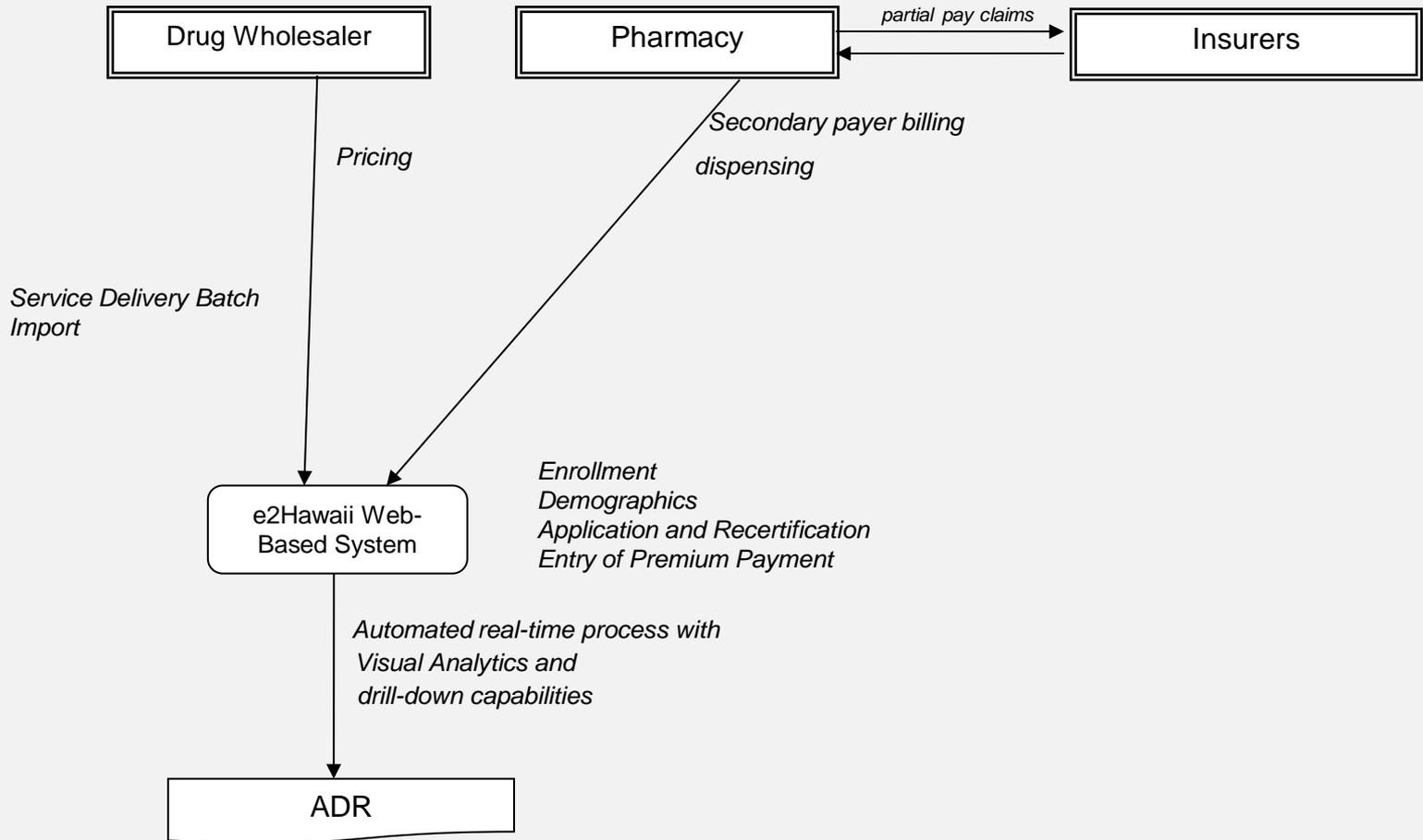
- Manual Entry of Premiums into H-COBRA Access Database
- Manual Entry of Drug Pricing into HDAP Access Database
- Manual Entry of Drug Ordering/Purchasing into HDAP Access Database
- Import of e2 Client Demographics and Enrollment Data
- Manual merge and de-duplication to produce ADR Data / AQR

The Challenge

ADR Report Before



ADR Reporting After



ADR Report After

- Automatic import of Drug Pricing in e2
- Import of pharmacy dispensing data
- Automatic HDAP Payment Amount calculations based on drug pricing and quantity dispensed
- Batch entry of Premium Payments
- Real-time ADR Report XML Export

Highlighted Features

- Automatic import of Drug Pricing in e2

The screenshot displays a web application interface with a navigation bar at the top containing tabs for 'Search', 'Multi Entry', 'User Management', 'HDAP', and 'H-COBRA'. Below the navigation bar, there are two tabs: 'Service Delivery Import' and 'Drug File Import'. A prominent orange error box with a red 'X' icon contains the following text:

Validation Errors on file
Your file has one or several SizeQty missing from it.
Your file has one or several "Number of Antiretrovirals" entered where not allowed.

Below the error box is the 'Drug File Import' section, which includes an 'Upload' field, a 'Browse...' button, and an 'Upload' button. A 'View Existing Drug File' button is also present.

The 'File Upload Preview' section features a table with the following columns: NDC Number, AntiRetroType, A1-OI, DispFee, Date Updated, Controlled Substance, Bergen Nbr, d-code, Item Desc, and Unit Cost. A search bar is located to the right of the table header.

NDC Number	AntiRetroType	A1-OI	DispFee	Date Updated	Controlled Substance	Bergen Nbr	d-code	Item Desc	Unit Cost
2411230		FALSE	\$12.50	3/24/2010	FALSE	549-283		ZYPREXA 2.5 MG TAB 30	
2411530		FALSE	\$12.50	4/6/2011	FALSE	549-182		ZYPREXA 5 MG TAB 30	
2411630		FALSE	\$12.50	3/24/2010	FALSE	549-168		ZYPREXA 7.5 MG TAB 30	
2411730		FALSE	\$12.50	8/23/2010	FALSE	549-156		ZYPREXA 10 MG TAB 30	
3013730		FALSE	\$12.50	1/20/2008	FALSE	058-082		FUNGIZONE IV 50 MG	

Highlighted Features

- Batch Premium Payments Requests

Premium Services

* Invoice Date: 06/29/2012

* Service Type: Standard Payment Request

Add

Service History

Show -- ALL SERVICES -- entered in June 2012 Show

Generate a PDF

Client [H-COBRA #]	Payee	Payment Amount	Payment By	Check #	Coverage Period	Service Type
Hunter Adams [002-2012]	HMSA 2	\$600.00	Policy Holder	131112	06/01/2012 - 07/31/2012	Supplemental
Hunter Adams [1234]	RDE	\$200.00	H-COBRA	1234FG	06/01/2011 - 06/30/2012	Supplemental
Hunter Adams [1234]	RDE	\$100.00	H-COBRA	1233131	06/01/2011 - 06/30/2012	Supplemental
Hunter Adams [1234]	RDE 2	\$500.00	Policy Holder	XYZAS125-005-12311	06/01/2011 -	Supplemental

Highlighted Features

- Real-time XML Export

```
3 <AdClientReportXmlVersion>
4   <AdSchemaVersion>1.0.0</AdSchemaVersion>
5   <Vendor>eCOMPAS</Vendor>
6   <VendorVersionNumber>1.0.0</VendorVersionNumber>
7   <VendorTechnicalContactName>Lamine Thiaw</VendorTechnicalContactName>
8   <VendorTechnicalContactEmail>Lamine@rdesystems.com</VendorTechnicalContactEmail>
9   <VendorTechnicalContactPhone>973,773,0244</VendorTechnicalContactPhone>
10 </AdClientReportXmlVersion>
11
12
13 <AdClientReport CLD_ID="1">
14   <ReportPeriodId>1</ReportPeriodId>
15   <ClientUci>E027F9652E003D15527072E7627C826DAE4A6AAEU</ClientUci>
16   <AdapNumber>1501</AdapNumber>
17   <EthnicityId>2</EthnicityId>
18   <GenderId>2</GenderId>
19
20   <BirthYear>1924</BirthYear>
21   <HivAidsStatusId>3</HivAidsStatusId>
22   <PovertyLevelId>1</PovertyLevelId>
23   <HighRiskInsuranceld>1</HighRiskInsuranceld>
24   <NewEnrollmentFlag>0</NewEnrollmentFlag>
```

CMS NDC to HRSA NDC Mapping

- ADR Requires reporting of drugs in d-Codes format (letter “d” followed by 5 numbers)
- Pharmacies use NDC codes (National Drug Codes)

=> HRSA provided a NDC to d-Code mapping spreadsheet

- Problem: HRSA has simplified their NDC format => it's now different from the Pharmacies' NDC format

CMS NDC to HRSA NDC Mapping

Example

- Current HRSA NDC Format

005050034 ← Drug Code (9 digits padded with 0s)

- Current Pharmacy NDC Format

5050034**01** ← Quantity Code
↑
Drug Code

Differences

1. No Quantity Code on HRSA's NDC
2. Pharmacy NDC is not always 9 digits

→ e2Hawaii solved all these issues algorithmically

Highlighted Features

- Recertification Due Report
 - Seamless and built-in client recertification
 - Color coding to indicate where attention is needed
 - Very frequent Recertification due to sharing with CM
 - Improve data quality and meet recertification requirements at the same time

→ Time Saving: No follow up required to get recertification done

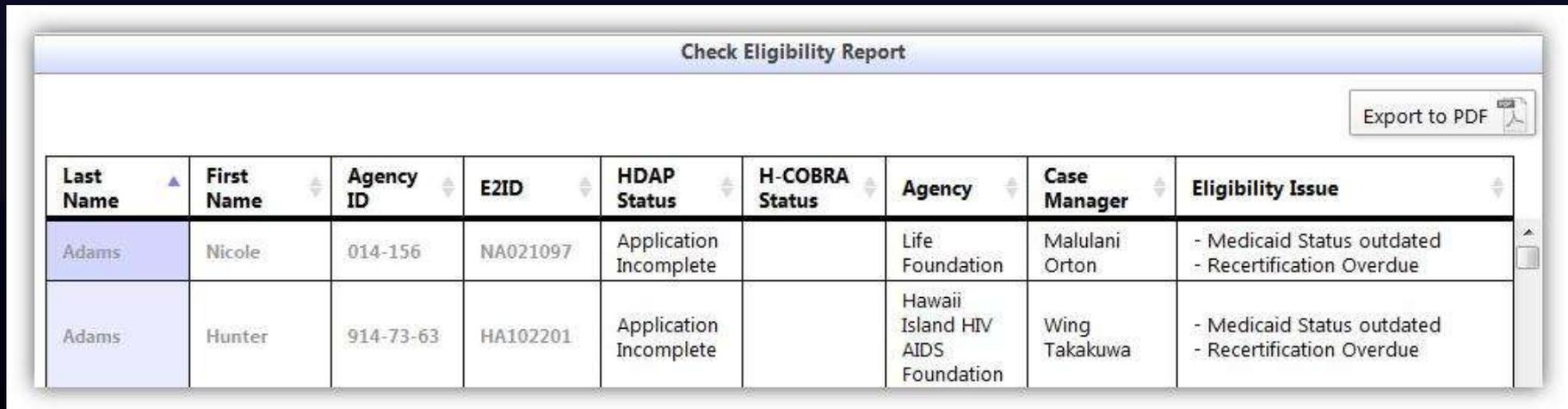
Highlighted Features

- Recertification Due Report

Report Filters									
Recertification due by <input type="text" value="09/17/2012"/> <input type="button" value="Today"/> and Case Managed by <input type="text" value="-- ANY --"/> <input type="button" value="Run"/>									
Recertification Due Report									
<input type="button" value="Export to PDF"/> 									
Last Name	First Name	Agency ID	E2ID	Agency	Case Manager	Recertification Due	Last Rx Filled (As of 08/31/2012)	Last Co-pay (As of 08/31/2012)	Premium Paid/in Process through
Adams	Hunter	525-79-61	HA020914	Life Foundation	Laleh Kazemahvazi	11/14/2012	09/07/2012	06/28/2012	09/30/2012
Adams	Nicole	014-156	NA021097	Life Foundation	Malulani Orton	06/15/2012	08/15/2012	12/11/2011	
Adams	Nicole	766-72-79	NA103195	Life Foundation	Raymond Alejo	04/12/2012	08/15/2012		
Adams	Hunter	322-373	HA103221	ABCD	N/A	12/21/2012	08/15/2012		07/31/2012

Highlighted Features

- Check Eligibility Report
 - Proactive, real-time eligibility check
 - Very quickly check eligibility of all client in the system before the 6 month recertification



The screenshot shows a software window titled "Check Eligibility Report". In the top right corner, there is a button labeled "Export to PDF" with a PDF icon. Below the button is a table with the following columns: Last Name, First Name, Agency ID, E2ID, HDAP Status, H-COBRA Status, Agency, Case Manager, and Eligibility Issue. The table contains two rows of data. The first row shows a client named Nicole Adams with Agency ID 014-156, E2ID NA021097, HDAP Status Application Incomplete, H-COBRA Status (empty), Agency Life Foundation, Case Manager Malulani Orton, and Eligibility Issue - Medicaid Status outdated, - Recertification Overdue. The second row shows a client named Hunter Adams with Agency ID 914-73-63, E2ID HA102201, HDAP Status Application Incomplete, H-COBRA Status (empty), Agency Hawaii Island HIV AIDS Foundation, Case Manager Wing Takakuwa, and Eligibility Issue - Medicaid Status outdated, - Recertification Overdue.

Last Name	First Name	Agency ID	E2ID	HDAP Status	H-COBRA Status	Agency	Case Manager	Eligibility Issue
Adams	Nicole	014-156	NA021097	Application Incomplete		Life Foundation	Malulani Orton	- Medicaid Status outdated - Recertification Overdue
Adams	Hunter	914-73-63	HA102201	Application Incomplete		Hawaii Island HIV AIDS Foundation	Wing Takakuwa	- Medicaid Status outdated - Recertification Overdue

Highlighted Benefits

- Medical Case Managers have direct access to pharmacy dispensing data for their clients instead of client self reporting
 - Adherence issues can be addressed
 - CM can follow up with client if a month is missing data or medication
 - Proactive follow up if no Drugs requested for a time period
 - Better outcomes as clients stay on their medications longer

Highlighted Benefits

- **Financial Savings:** As outcomes improve due to proactive follow up, Adherence improves and client can stay on Drugs for a long time, vs. non Adherent clients that develop drug resistances and require stronger, more expensive drugs (change in regimen)

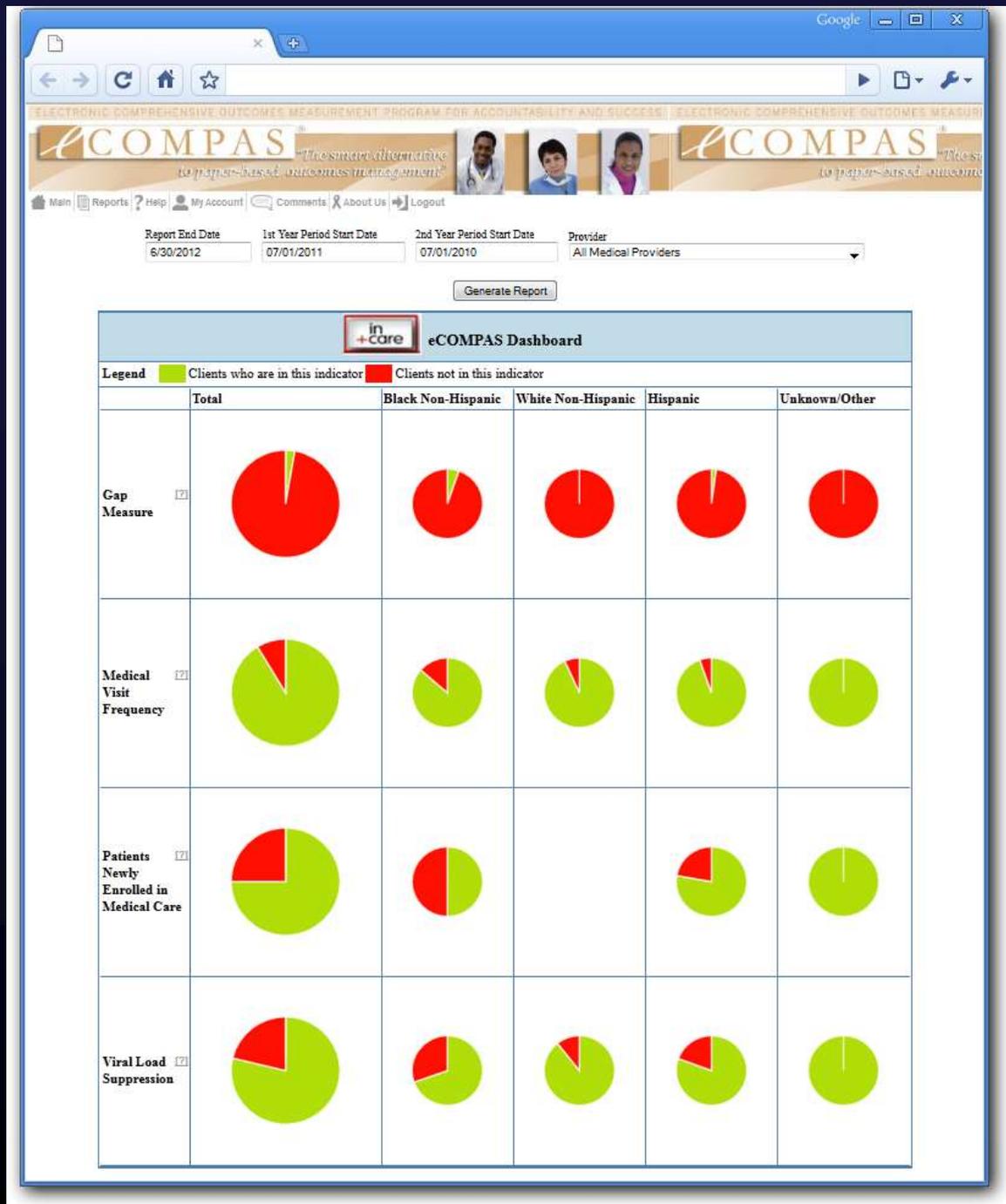
Highlighted Benefits

- Unique Integration with RW Part C, Department of Health and Case Management (Sharing of Clients)
- Time Savings: No manual merge of data from multiple sources
- Automatic de-duplication of Dispensing Data by RX Number to prevent double billing
- Automatic NDC to d-Code mapping

On the Horizon:

in+care eCOMPAS Dashboard

- At-a-glance
- Visual
- Red/Green
- Populations
- Region vs.
Provider
- Drilldown



Quotes

- "I am so in love with E2."
- "I love that we can now do batch entries!"
- "The ability to communicate directly with someone when there's a problem or concern makes it much easier to continue to do our job."
- "For the amount of money we had, what we accomplished with RDE was MIRACULOUS!"

Lessons Learned



Support and encourage staff so they're not afraid to get their feet wet!



Be Creative and Share your Ideas

The small stuff counts too!

Teamwork
makes a
difference



How do we accomplish ambitious goals?



One bite at a time.

The Story of Lani

Friday August 13, 2010

Hey you guys:

What a wonderful system to have at our beck and call!! The multi services screen is BEAUTIFUL!!! I love it. You all have exceeded yourselves in E2. I believe one can absolutely NOT make mistakes during the services input. The system allows one to

- 1) see your work,
- 2) make changes that are erroneous in just that ONE page instead of getting out of one screen to access another to correct the error,
- 3) get finished in **one-eighth of the time** it originally took,
- 4) have plenty time to go on to other projects.

Gosh, you all are full of surprises. Myself did not know it would be so simple. Even a cave-man can do it!!

Thank you, thank you, thank you....

Aloha, Lani

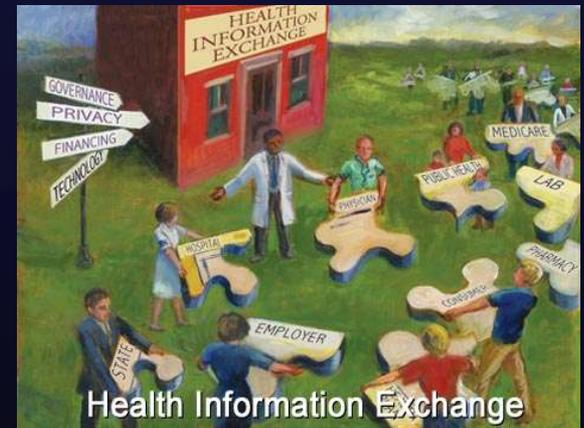
P.S. The client roster screen is very very informative. This is extremely beneficial to our case managers. I know they express their astonishment at your accomplishments. We did not expect such detailed information.

Thank you again, Lani

HEALTH INFORMATION EXCHANGE: FROM NEW YORK TO HAWAII (AND EVERYWHERE IN BETWEEN)

IMPORTANT THEMES FROM THIS WORKSHOP:

- Health Information Exchange
- Interoperability
- HIT Standards and Guiding Agencies (ONC)
- Process and Outcomes
- Vendors / Strategic Partnerships

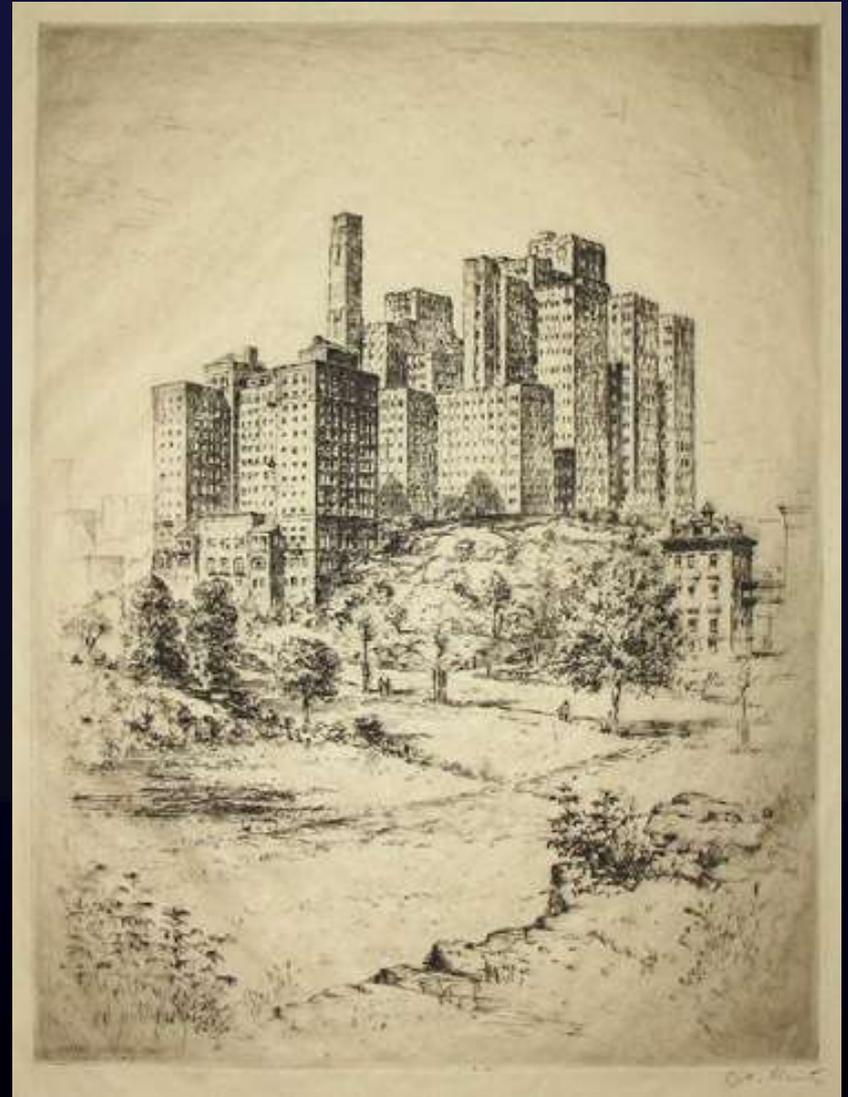


Story #1: HIE and The New York Experience.....

Setting: The Comprehensive HIV Program at New York Presbyterian, a.k.a. Columbia University Medical Center

The Problem: Multifactorial

- Drowning in data and reporting requests
- Multiple IT systems that:
 - Do not 'talk' to each other
 - Cannot 'extract' information easily
 - Result in 'shadow' processes that result in duplicative work
- Divert critical personnel manpower from service provision to data abstraction
- Messy process..... Many errors... Is the resultant data accurate enough to be useful?





 **NewYork-Presbyterian**



**COLUMBIA UNIVERSITY
MEDICAL CENTER**

NYP/COLUMBIA COMPREHENSIVE HIV PROGRAM (CHP)

ADULT PROGRAM WOMEN AND CHILDREN CARE CENTER PROJECT STAY

- 1800 individuals LWH
- Multidisciplinary, multi-functional, and evolving
- 2 clinical care sites, 2 community based care coordination sites, street level outreach efforts

RW support:

- Part A
- Part B
- Part D
- Part F

Data

Data
Data
Data
Data
Data

- RSR
- Patient Care (!)
- QA/QI
- Other grant and regulatory reporting

COMPREHENSIVE HIV PROGRAM (CHP)

ADULT PROGRAM

WOMEN AND CHILDREN CARE CENTER

PROJECT STAY

- 1800 individuals LWH
- Multidisciplinary, multifunctional, and evolving
- 2 clinical care sites, 2 community based care coordination sites, street level outreach efforts

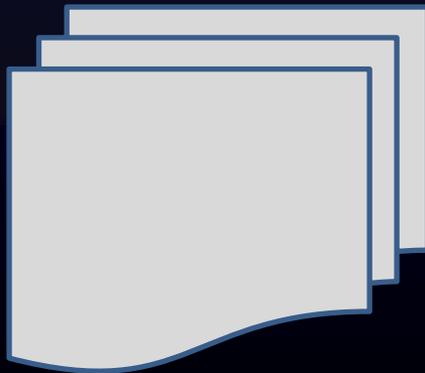
RW support:

- Part A
- Part B
- Part D
- Part F

Data

Data
Data
Data
Data
Data

- RSR
- Patient Care (!)
- QA/QI
- Other grant and regulatory reporting



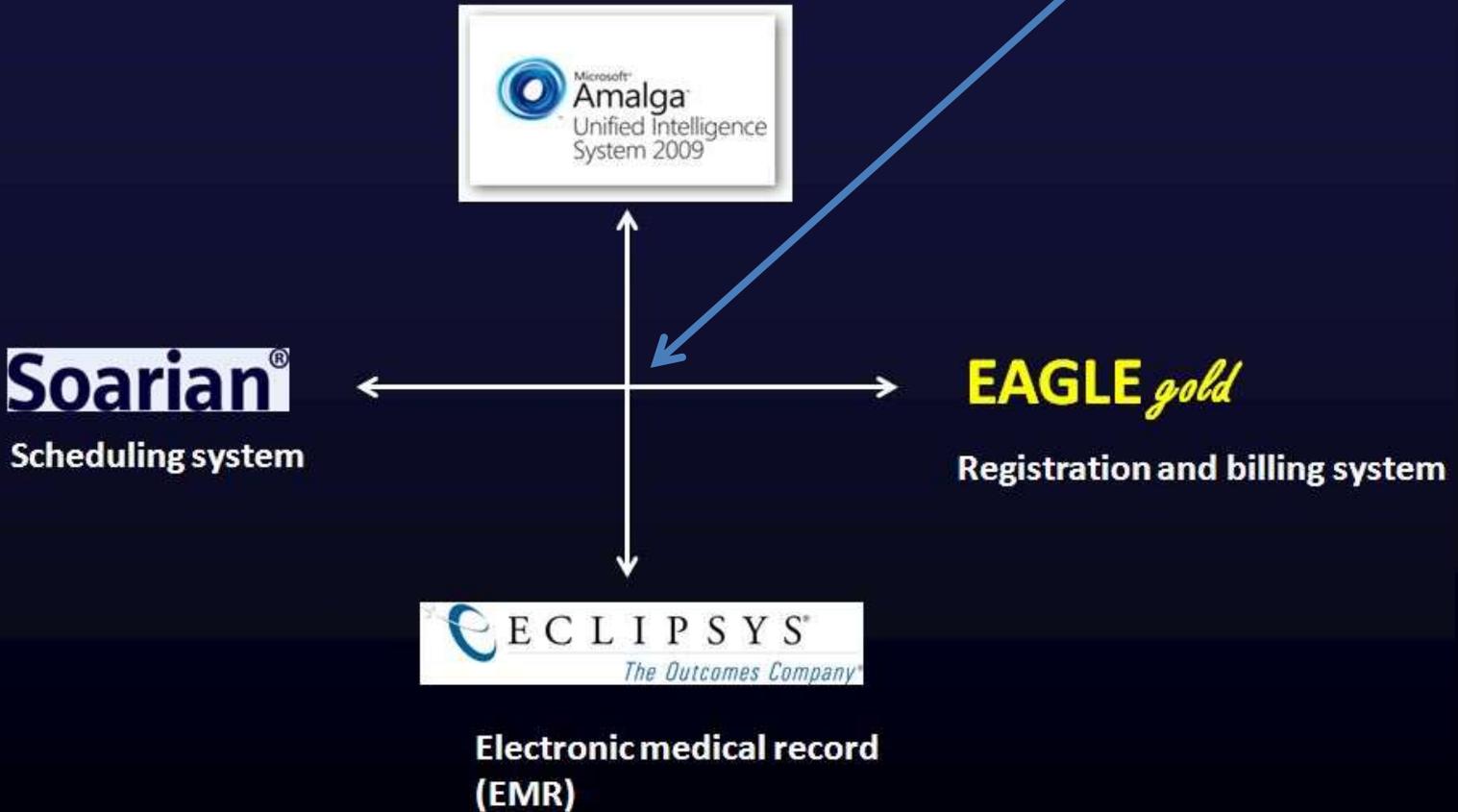
- Where does the information come from in *your* program?
- How much data?
- What is the data?







The 'Medical Record' is typically an amalgamation of multiple electronic systems, tied together by an IT network that exchanges information – a form of Health Information Exchange



COMPREHENSIVE HIV PROGRAM (CHP)

ADULT PROGRAM

WOMEN AND CHILDREN CARE CENTER

PROJECT STAY

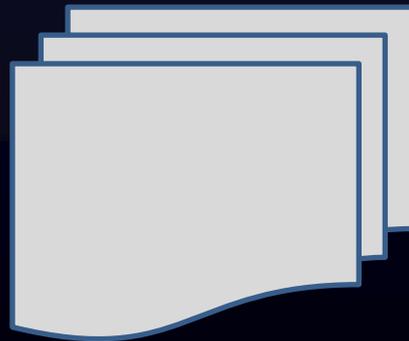
- 1800 individuals LWH
- Multidisciplinary, multifunctional, and evolving
- 2 clinical care sites, 2 community based care coordination sites, street level outreach efforts

RW support:

- Part A
- Part B
- Part D
- Part F

Data
Data
Data
Data
Data

- RSR
- Patient Care (!)
- QA/QI
- Other grant and regulatory reporting



- Where does the information come from in *your* program?
- **How much data?**
- What is the data?

How much data?

➤ **NYP/Columbia must track and manage over 800,000 data elements annually for grant and regulatory reporting purposes:**

- HRSA, NYC DOHMH, AIDS Institute, CDC
- RSR, AIRS, eSHARE
- 95 'users' who need to contribute, add, manage, and export data



COMPREHENSIVE HIV PROGRAM (CHP)

ADULT PROGRAM

WOMEN AND CHILDREN CARE CENTER

PROJECT STAY

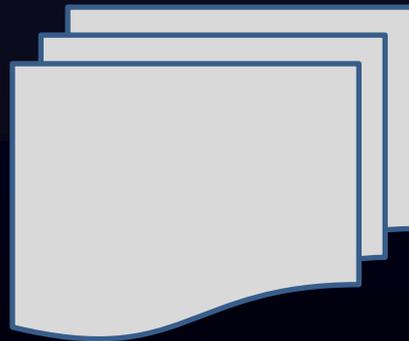
- 1800 individuals LWH
- Multidisciplinary, multifunctional, and evolving
- 2 clinical care sites, 2 community based care coordination sites, street level outreach efforts

RW support:

- Part A
- Part B
- Part D
- Part F

Data
Data
Data
Data
Data

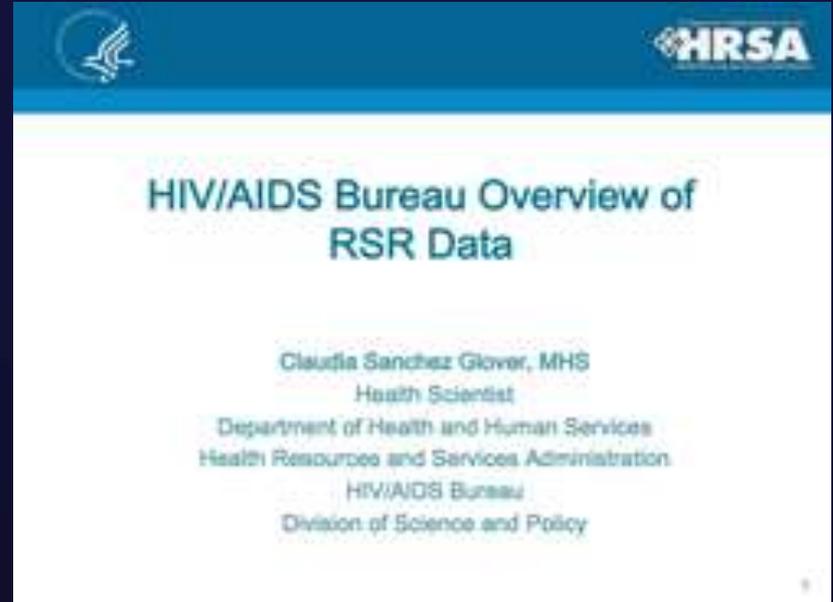
- RSR
- Patient Care (!)
- QA/QI
- Other grant and regulatory reporting



- Where does the information come from in *your* program?
- How much data?
- **What is the data?**

What is the data?

- *Demographic*
- *Services*
- *Clinical*
- *Care Coordination*



The slide features a blue header with the HRSA logo on the right and a stylized bird logo on the left. The main title is centered in a large, bold, black font. Below the title, the presenter's name and title are listed, followed by their affiliation with the Department of Health and Human Services, HRSA, and the HIV/AIDS Bureau. The slide is numbered '1' in the bottom right corner.

 HRSA

HIV/AIDS Bureau Overview of RSR Data

Claudia Sanchez Glover, MHS
Health Scientist
Department of Health and Human Services
Health Resources and Services Administration
HIV/AIDS Bureau
Division of Science and Policy

1

What is the data?

- Often duplicative and derived from common sources

NYC DOHMH MCM Program

RW Part D WICY Program

DOB: _____ (mm/dd/yyyy)

Current self-identified gender: (Check only one)
 Male Female Transgender (M→F) Transgender (F→M) Other (Specify: _____)

Sex at birth: (Check only one) Male Female Intersex/ambiguous Declined

Read question without responses, and then verify answer: How would you identify your sexual orientation?
 (Check only one) Gay/Lesbian/Homosexual Straight/Heterosexual Bisexual Queer Questioning
 Other (Specify: _____) Declined

Social Security #: _____ **Currently Homeless?** Yes No Declined

(If Yes to "Currently Homeless," please enter the required ZIP based on where the client spends the most time.)
CURRENT HOME ADDRESS
 Street: _____ Apt./Unit: _____
 City: _____ State: _____ ZIP: _____ Declined Don't know

PERMANENT/MAILING ADDRESS Same as Current Home Address
 Street: _____ Apt./Unit: _____
 City: _____ State: _____ ZIP: _____ Declined Don't know

Primary telephone number: _____
 Alternate telephone number: _____
 E-mail address: _____

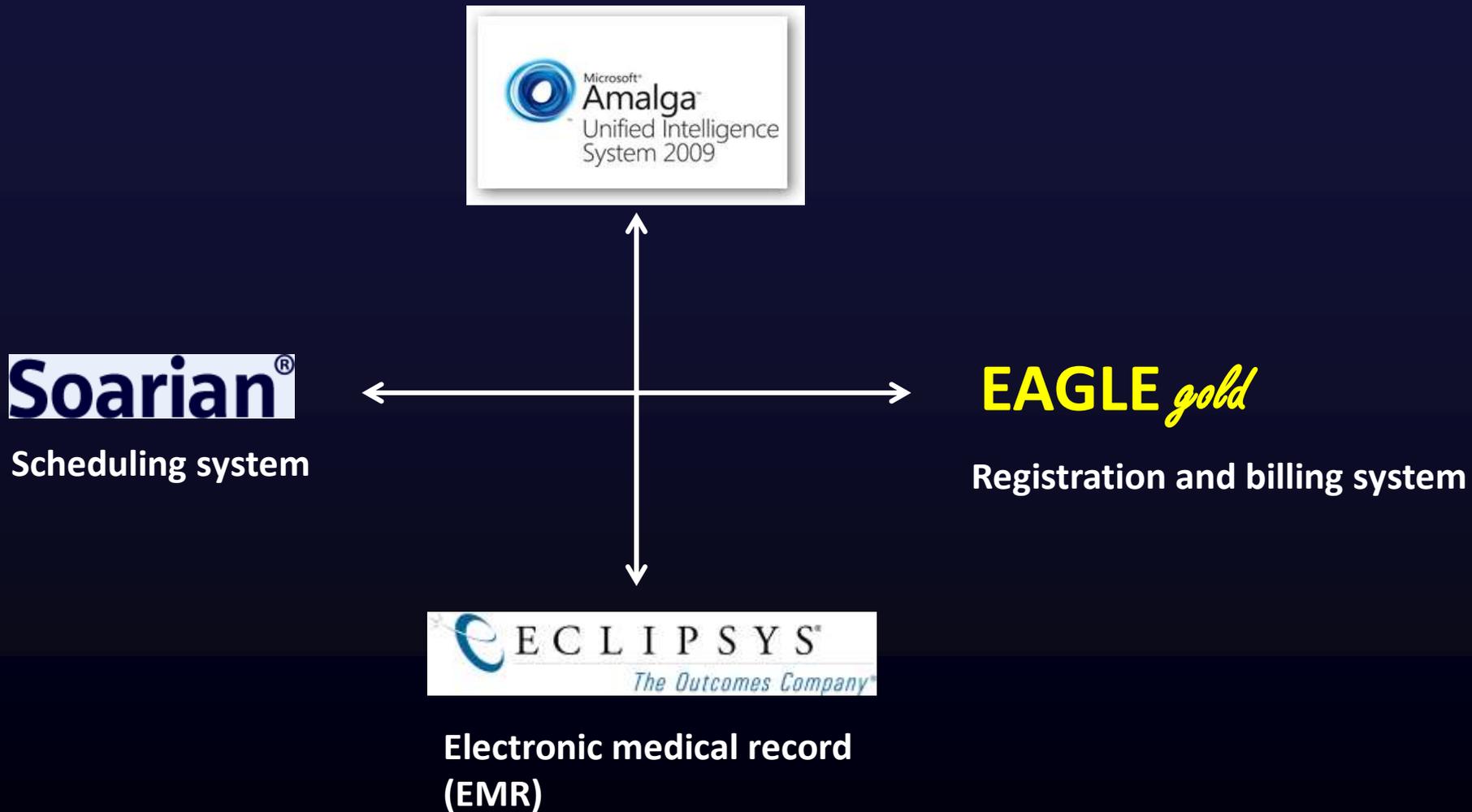
Race: (Check all that apply) Black White Asian Native Hawaiian/Pacific Islander
 American Indian/Alaskan Native Other: _____ Unknown Declined

Ethnicity: (Check only one) Hispanic Non-Hispanic Unknown Declined

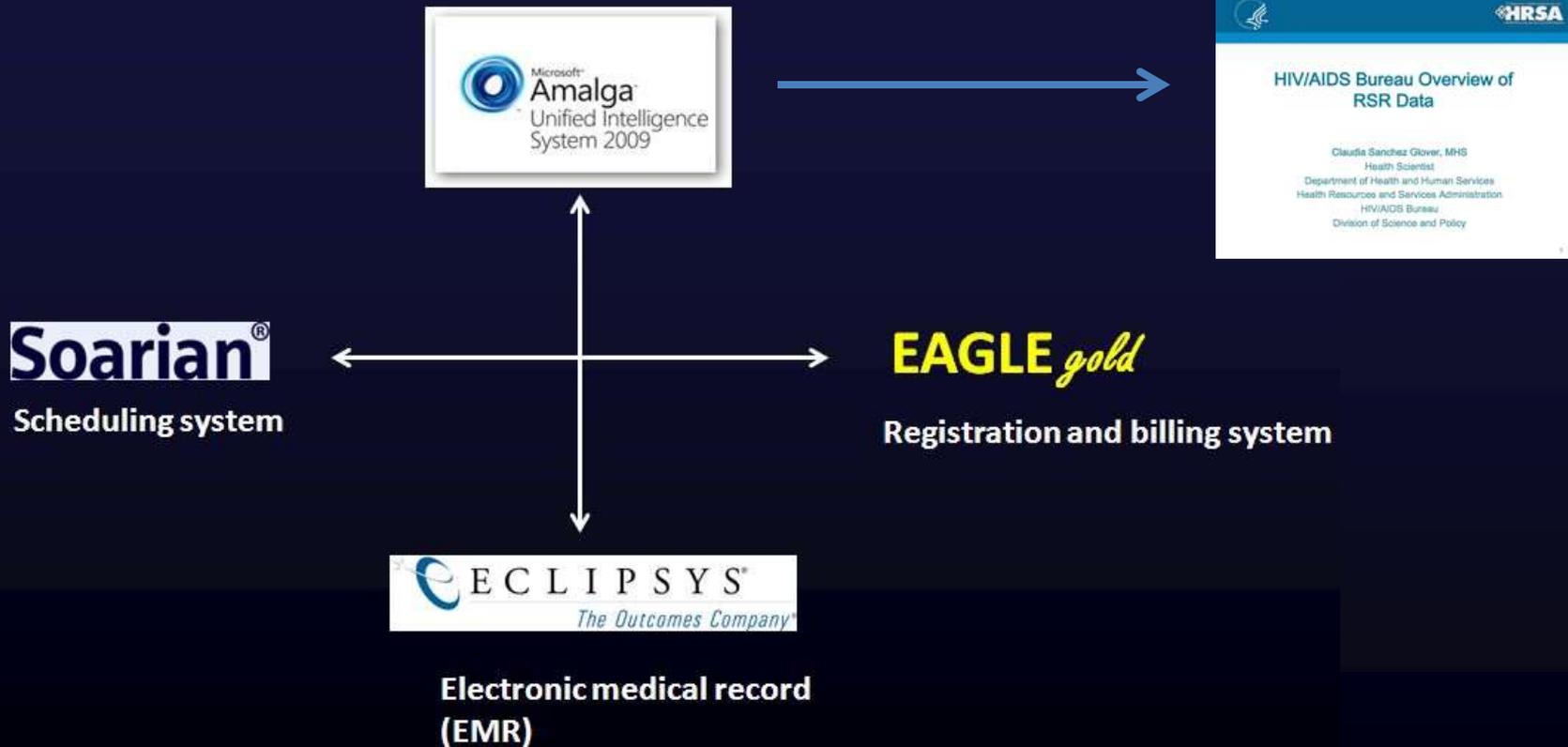


Client Level Data						
ID	Variable Name	Definition	Required	Occurrence	Allowed Values	Schema
Client Demographics						
		This value should be on or before all service date years for the client.			YYY Must be less than the current date.	<BirthYear>yyy</BirthYear> <ClientReport>
5	EthnicityID	Client's ethnicity.	All	1 per client	EthnicityID: 1 = Hispanic/Latino 2 = Non-Hispanic/Latino 3 = Unknown	<ClientReport_CLD_ID="1"> <EthnicityID>1-3</EthnicityID> <ClientReport>
6	RaceID	Client's race.	All	1-5 per client	RaceID: 1 = White 2 = Black or African American 3 = Asian 4 = Native Hawaiian/Pacific Islander 5 = American Indian or Alaska Native 6 = Unknown	Within the following schema section, multiple RaceIDs may be reported <ClientReportRace_CLD_ID="1"> <RaceID>1-6</RaceID> <RaceID>1-6</RaceID> <ClientReportRace>
7	GenderID	Client's current gender.	All	1 per client	GenderID: 1 = Male 2 = Female 3 = Transgender 4 = Unknown	<ClientReport_CLD_ID="1"> <GenderID>1-4</GenderID> <ClientReport>
8	TransgenderID	Client's current transgender. To be completed only if the response is "Transgender" in Q7.	All if GenderID is "Transgender"	0-1 per client	TransgenderID: 1 = Male to Female 2 = Female to Male 3 = Unknown	<ClientReport_CLD_ID="1"> <TransgenderID>1-3</TransgenderID> <ClientReport>
9	PovertyLevelID	Client's percent of the Federal poverty level at the end of the reporting period.	CM, OA	1 per client	PovertyLevelID: 1 = Equal to or below the Federal poverty level	<ClientReport_CLD_ID="1"> <PovertyLevelID>1-5</PovertyLevelID> <ClientReport>

A typical workflow process at NYP/Columbia for how a patient gets scheduled, registered, documented in an EMR, and billed.



This is the way it might work in a perfect world....



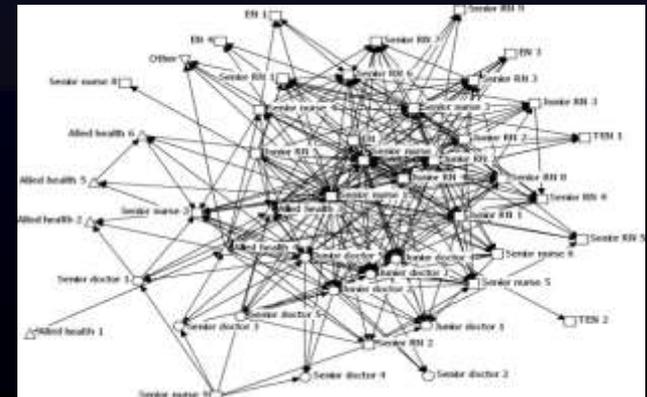
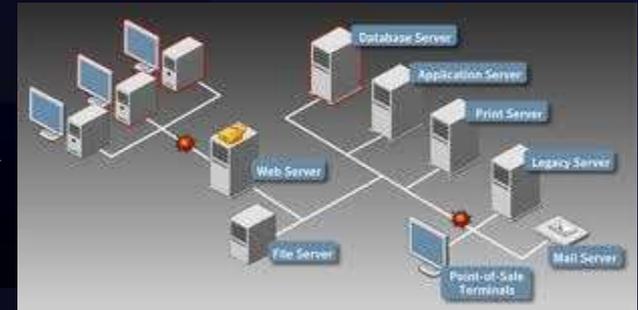


Soarian®
Scheduling system

EAGLE gold
Registration and billing system



Electronic medical record
(EMR)





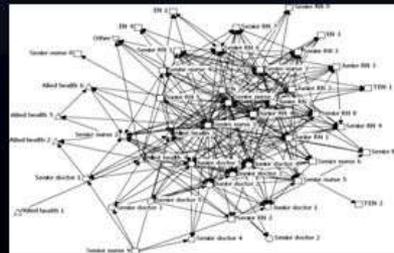
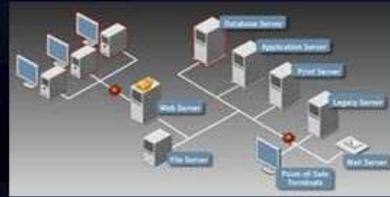
RSR

Soarian
Scheduling system

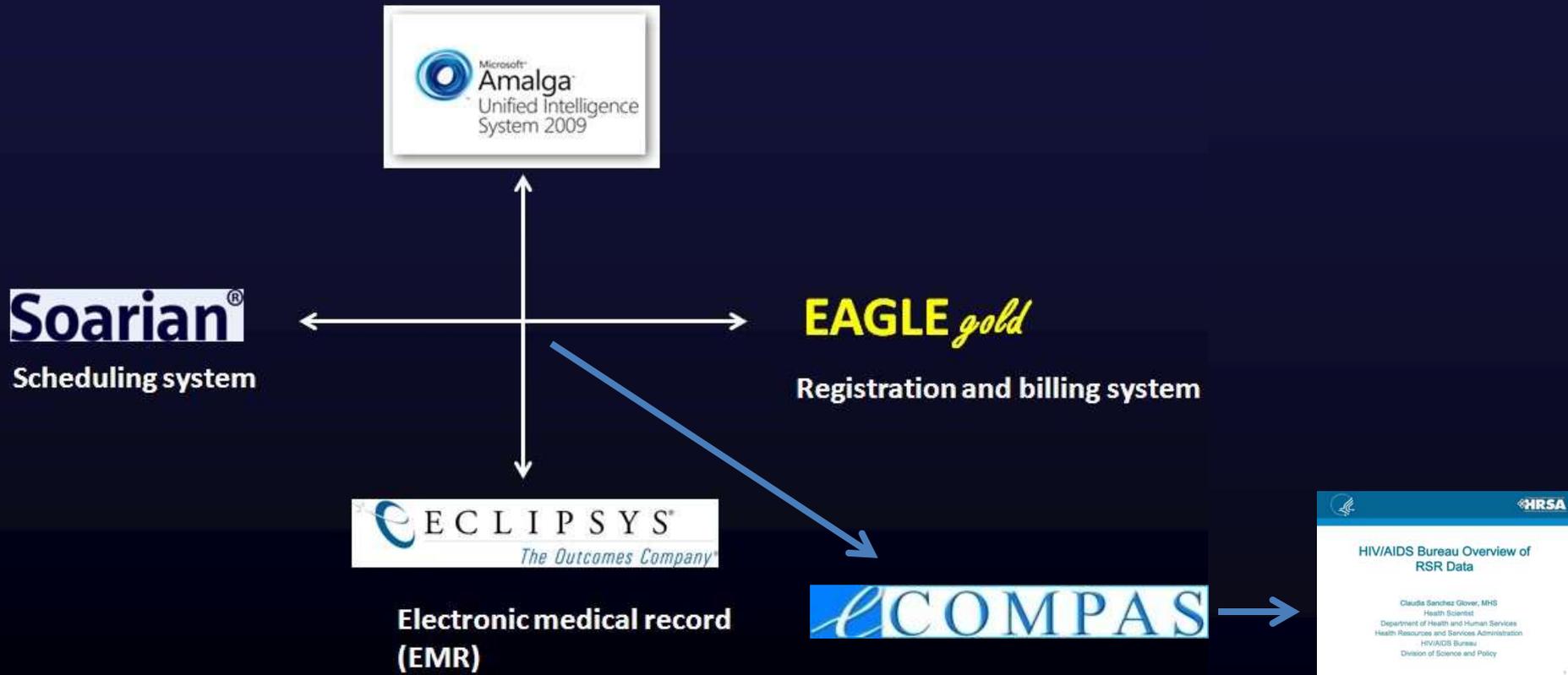
EAGLE gold
Registration and billing system



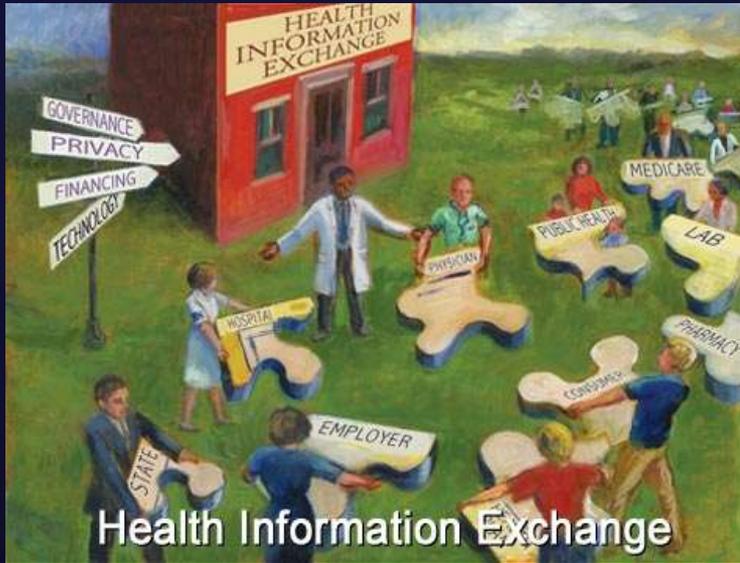
Electronic medical record
(EMR)



This is the way NYP/Columbia is making it work in the 'real' world of competing institutional priorities



To quickly recap....



Electronic Comprehensive Outcomes Measurement Program
for Accountability and Success (e2)

Developed by
RDE Systems, LLC

A System and an Approach





Electronic Comprehensive Outcomes Measurement Program
for Accountability and ***Success (e2)***

Developed by
RDE Systems, LLC

A System and an Approach

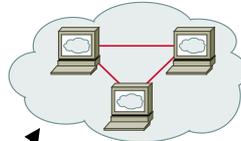
NYP == CHP Network Diagram for eCOMPAS

2/15/2012

NYP Columbia / Cornell

SunGard

InfoNet / Clinical Applications / VPN



User Access to eCOMPAS via:

- Web
- InfoNet,
- Eclipsys
- VPN



RDE Access via VPN



NYSGECOMPIIS
IP: 10.178.22.224
 eCOMPAS.nyp.org



NYSGECOMPTEST
IP: 10.178.22.223
 DNS: eCOMPASest.nyp.org



NYSGCLINDB

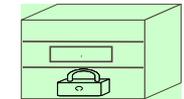
IP: 10.171.22.187



SQL



NYSGECOMPINT
IP: 10.178.22.116



Interface Box



ADT/LAB/Other from eGATE



ASSET# 72258
 NYSGECOMPIIS
 IP: 10.178.22.224
 DNS: eCOMPAS.nyp.org

ASSET# 72259
 NYSGECOMPTEST
 IP: 10.178.22.223
 DNS: eCOMPASest.nyp.org

 **New York-Presbyterian**
The University Hospital of Columbia and Cornell

**LEADING
THE WAY**

 **COMPAS**
The very best for those who care

NYP / CWID Single Sign-On

Username

Password

You are logging onto: [RDE Demo](#)

The Information in Clinical Information Systems at New York- Presbyterian is confidential, and use is on the need-to-know basis. All access is logged. Unauthorized or improper use of the system or information in it may result in dismissal and civil or criminal penalties.



TEST, PATIENT THY - CHONY PT 444 33 25 / 000090079 726 social work 11y (23-Dec-2000) Male

Allergies: beta blockers, 5-hydroxytryptophan, Abilify, amlodipine, cefazolin, ALLYLISO... Intolerances:

Current Weight: 54.4 kg (26-Oct-) **Height:** 188 cm **BSA:** 1.69 sq. m

Admit Date: 10-Aug-2010

Patient List Orders Results Patient Info Documents Flowsheets Clin Summary Dz Mgmt Handoff Paper Documents NYPx Quality Checklist Micro-Epi RHIO

Profile Visit History Data Review **Summaries (Lab, etc.)** Communication About

TEST, PATIENT EMPI:1005054513 NYPWC:007197711 CMC:03377006 NYP/ICU:4443325 WMC:102835107

		Filter:	Go	Eclipsys Note - Columbia University (2012-11-19,2012-11-16)	Pg#1	Older
Laboratory	Aug 14			Ambulatory Special Gynecology Mifepristone I Visit	Mirkovic, Nebojsa	2012-11-16 14:41 P NYP/ICU
Radiology				Ambulatory Special Gynecology Bilateral Tubal Ligation (BTL) Pre-Operation Note	Mirkovic, Nebojsa	2012-11-16 14:39 P NYP/ICU
Pathology				Ambulatory Special Gynecology Aspiration Visit Note	Mirkovic, Nebojsa	2012-11-16 14:36 P NYP/ICU
Note				Ambulatory FPC Health Education Note	Mirkovic, Nebojsa	2012-11-16 14:34 F NYP/ICU
Eclipsys Note (NYP/ICU)	12:59			Ambulatory Family Planning Clinic Visit	Mirkovic, Nebojsa	2012-11-16 14:31 P NYP/ICU
WebCIS Note	2007			Amb WCCC Adult Note	Mirkovic, Nebojsa	2012-11-16 14:28 P NYP/ICU
WebCIS Signout	2005			Ambulatory Urology Note	Mirkovic, Nebojsa	2012-11-16 14:26 P NYP/ICU
Admission				Ambulatory HP6 Adult Note	Mirkovic, Nebojsa	2012-11-16 14:24 P NYP/ICU
Eclipsys Admit (NYP/ICU)	Jul 26			Ambulatory Wound Care Note	Mirkovic, Nebojsa	2012-11-16 14:22 P NYP/ICU
WebCIS Admit	2005			Ambulatory Surgery Note	Mirkovic, Nebojsa	2012-11-16 14:20 P NYP/ICU
Discharge Sum				Ambulatory Project Stay Progress Note	Mirkovic, Nebojsa	2012-11-16 14:19 P NYP/ICU
Eclipsys DSum (NYP/ICU)	2011 May			Ambulatory Project Stay Monitoring Exam Note	Mirkovic, Nebojsa	2012-11-16 14:17 F NYP/ICU
Operative						
Eclipsys OR (NYP/ICU)	Nov 16					
Cardiology						
Neurophys						
Ob/Gyn						
GI Endo	2011 Sep					
HEENT						
Pulmonary						
Derm Path						
Endocrinol						
Alerts						
Pharmacy	Feb 17					
Billing Diagnoses	2010					
All Data						
Refresh Dates						

+View Print

Ambulatory HP6 Adult Note - 2012-11-16 14:24

Preliminary

Allergies:

Allergen/Product	Reaction	Description
cefazolin	Anaphylaxis, Congestion	
SHELLFISH (FOOD)	Anaphylaxis	
5-hydroxytryptophan	Cramps	
Abilify	Congestion	
amlodipine	Coughing	
ALLYLISOTHIOCYANATE (FOOD)	Hives, Edema, Coughing	testing
beta blockers	Dizziness	

Medications:

* No Current Medications as of 17-Oct-2012 09:54 documented in Prescription Writer

New Meds/Refills:

Outpatient Medications:

COMPAS

"An interactive approach to measuring success"

Client Summary							
Name	Obama, Barack	DOB	12/28/1955	Gender	Male	MRN	4736803
Staff	- HIV/PCP Provider: Peter Gordon - Social Worker: Angel Cruz						
Active Program Enrollments	- CHP Clinic						
Insurance	- A - Self Pay - \$10 Flat Clinic; 5% Other - A01 - Medicaid						
Notes	View or Edit Notes						
..less							

- Registry
- Demographics
- Insurance
- Programs
- Medical
- Services

Contact Information			
Primary Language	English	Other Language	
Home Phone #	(347)780-0210	Work Phone #	(347)780-0210
Cell Phone #	e.g. 123-659-7451... more		
Email Address			

Permanent / Mailing Address		Secondary Address (if different)	
Country or Other Areas	United States	Same as Mailing Addr.	<input type="checkbox"/>
Country or Other Areas		Country or Other Areas	- Please Select -
Address Line 1	2538 VALENTINE AVE	Address Line 1	2538 VALENTINE AVE
Address Line 2	3B	Address Line 2	3B
City	BRONX	City	BRONX
State/Province/Region	NY	State/Province/Region	NY
County	BRON	County	
Zip/Postal Code	10459	Zip/Postal Code	10459

Alternative Contact Information / Hang out Location

Feedback

Registry

Demographics

Insurance

Programs

Medical

Services

Client Identifiers

First Name ⚡
Middle Name ⚡

Last Name ⚡
A.K.A Name

Date of Birth ⚡
Date of Death 
Medical Record (MRN) ⚡

Insurance Gender ⚡
Current Gender 
Master Patient Index ⚡

Save Page

Staff Assignments

⚡ <i>HIV/PCP Provider</i>	<input type="text" value="Peter Gordon"/> 
<i>Supervising Provider</i>	<input type="text"/> 
<i>Nutritionist</i>	<input type="text"/> 
<i>Nurse</i>	<input type="text"/> 
⚡ <i>Social Worker</i>	<input type="text" value="Annie Cella- Shackelford"/> 
<i>Care Coordinator</i>	<input type="text" value="Melinda Marquez"/> 
<i>CASAC</i>	<input type="text"/> 
<i>Treatment and Adherence Supervisor</i>	<input type="text" value="Deborah Cherena"/> 
<i>Community Navigator</i>	<input type="text" value="Sharon Beckford"/> 
<i>HIV Counseling and Testing</i>	<input type="text"/> 
<i>Care Team</i>	<input type="text"/> 

Feedback

Service History

Service Date:

Data Source:

Show entries

Search:

Date	Service	Subservice	Provider	Eagle/eCOMPAS	
11/14/2012	HP6-APG Carve-out (Therapeutic & HIV counseling and testing)	[Not Supplied]	GORDON, PETER	Eagle	
10/18/2012	MCM	Outreach for Client Re- engagement	Wilbert James	eCOMPAS	
10/12/2012	HP6-Adult HIV-Medical Service	[Not Supplied]	GORDON, PETER	Eagle	
10/10/2012	HP6-APG Carve-out (Therapeutic & HIV counseling and testing)	[Not Supplied]	GORDON, PETER	Eagle	
10/08/2012	MCM	Outreach for Client Re- engagement	Sharon Beckford	eCOMPAS	
10/05/2012	MCM	Other Assessment/Re- Assessment	Sharon Beckford	eCOMPAS	
10/04/2012	MCM	Health Education/Promotion	Sharon Beckford	eCOMPAS	
09/27/2012	HP6-APG Carve-out (Therapeutic & HIV counseling and testing)	[Not Supplied]	GORDON, PETER	Eagle	
09/27/2012	MCM	Accompaniment	Sharon Beckford	eCOMPAS	
09/27/2012	MCM	Health Education/Promotion	Sharon Beckford	eCOMPAS	

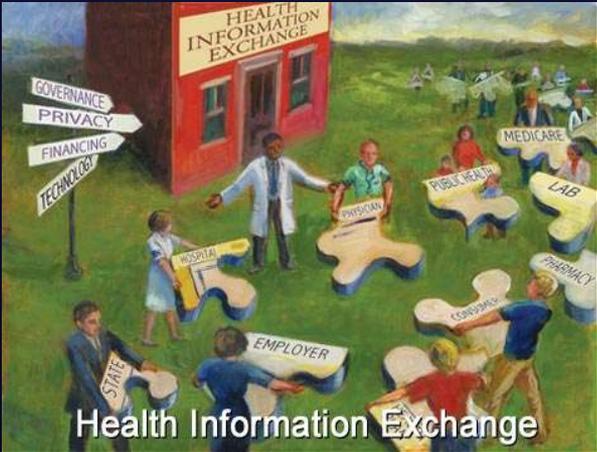
Showing 1 to 10 of 100 entries

Previous Next

So what is the impact of this kind of HIE on NYP/Columbia's program?

Time

Reporting



Data Quality

Population Management

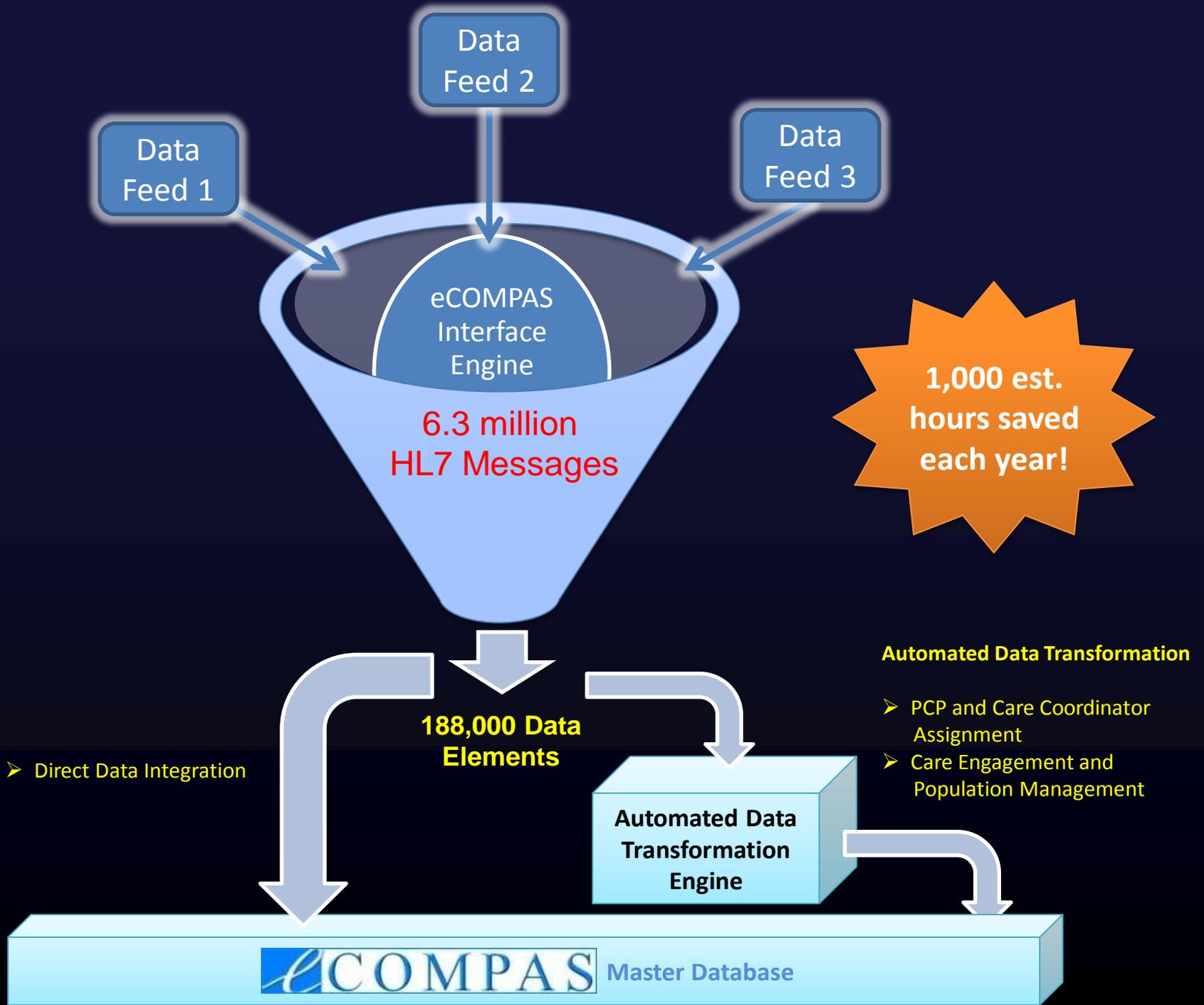
Time and Data Management: The Potential Impact of HIE

NYP/Columbia must track and manage over 800,000 data elements annually for grant and regulatory reporting purposes:

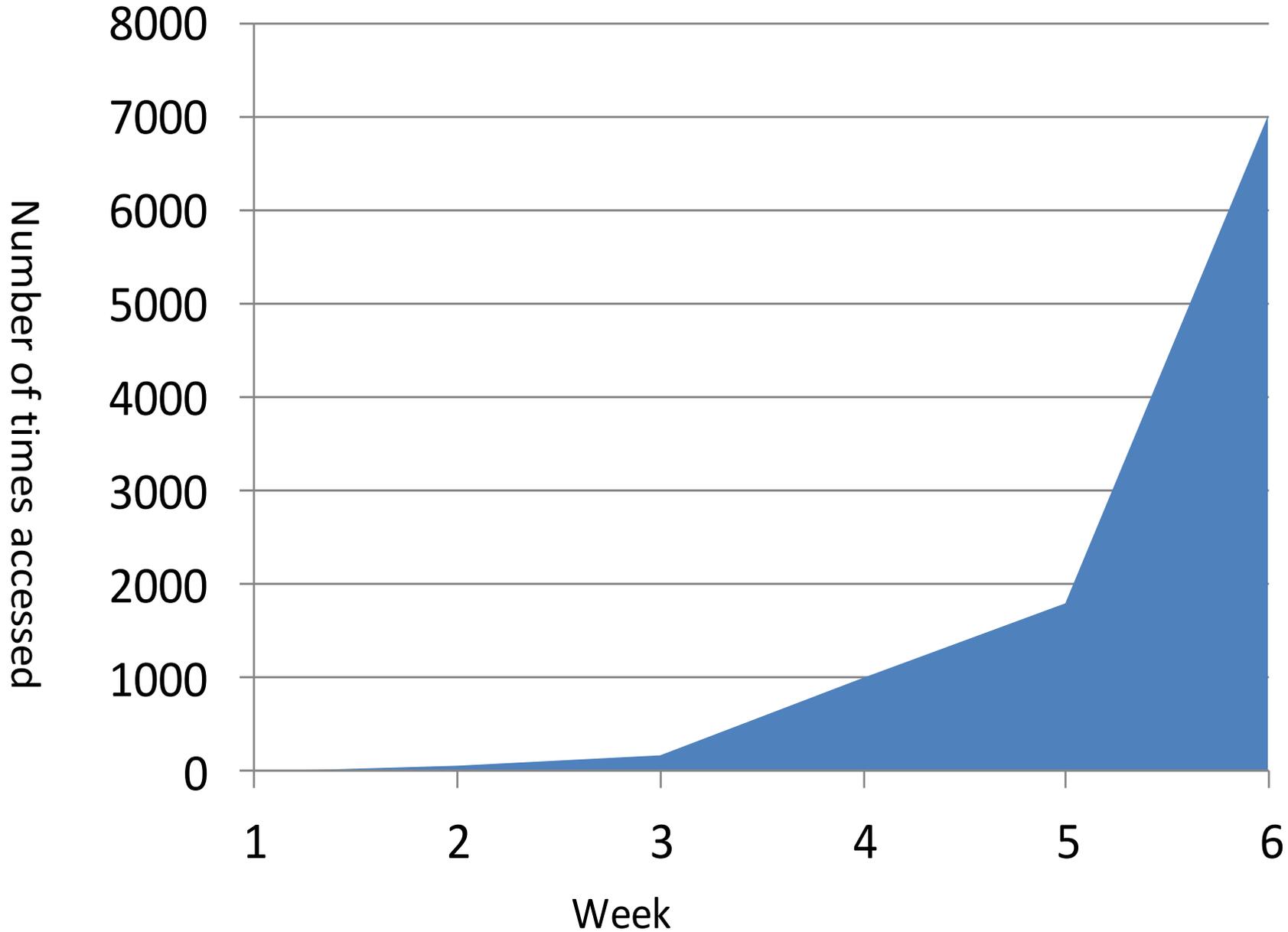
- HRSA, NYC DOHMH, AIDS Institute, CDC
- RSR, AIRS, eSHARE
- 95 'users' who need to contribute, add, manage, and export data

How utilizing HIE and implementing eCOMPAS has impacted

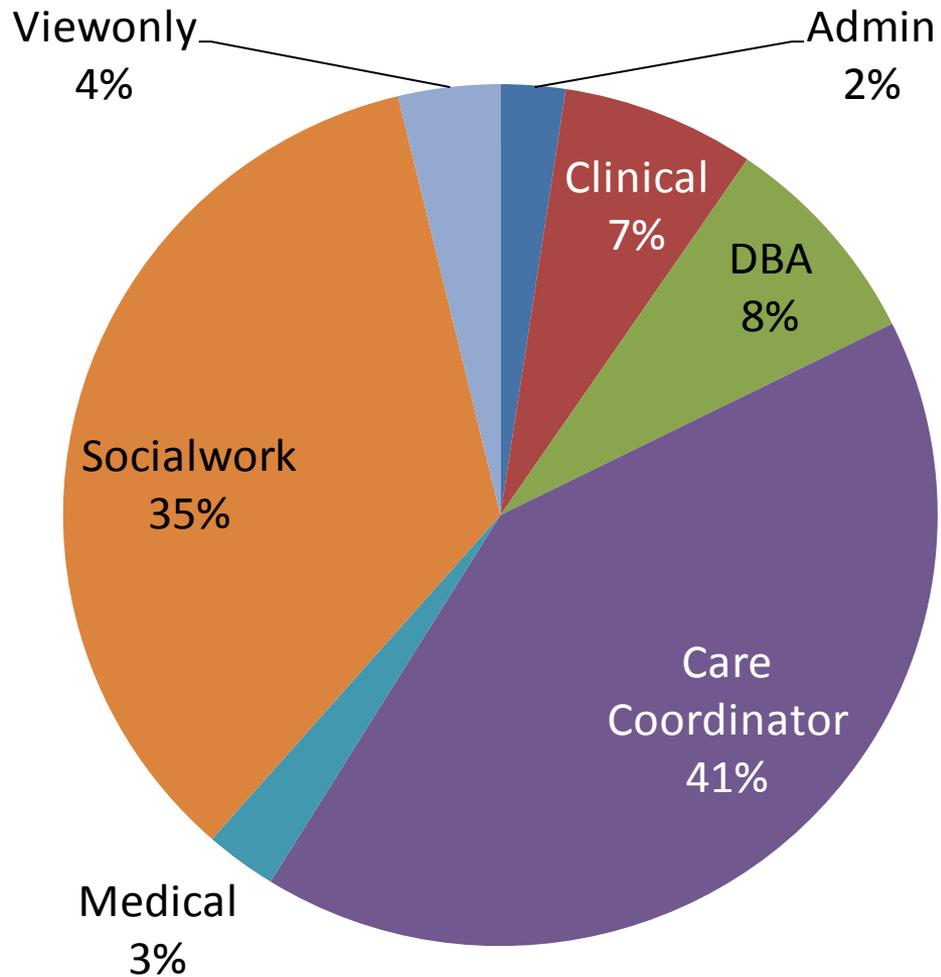
- **187,696** data elements updated/added via HIE since March 2012 (demographics, visits/services, staff assignment)
- **521** hours of data entry saved (very conservative)



System Adoption After Launch



Who uses NYP eCOMPAS?



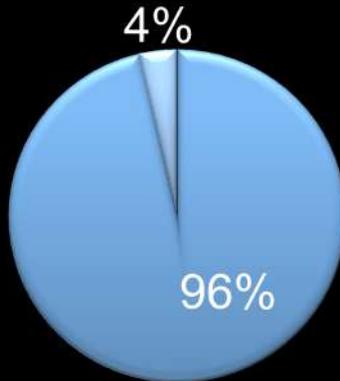
HIE and eCOMPAS: Once you have the data what can you do with it?

- Automated data transfer (HIE)
 - **188,000** data elements updated/added via HIE since March 2012 (demographics, visits/services, staff assignment)
- PCP and Care Coordinator Assignment
 - Calculated from HIE visit feeds, highly accurate, no evolutionary divergence
- Care Engagement and Population Management
 - Calculated from HIE visit feeds, FORC and LTFU derived, enables care coordination team to generate population level care engagement work lists

How much is automated vs. manual?

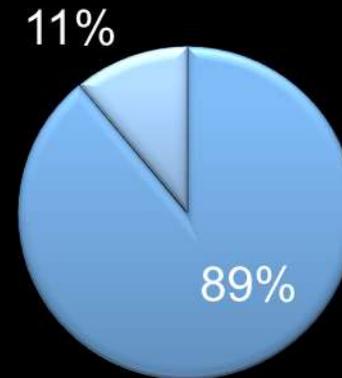
Client Records

■ Automated ■ Manual



Visit Records

■ Automated ■ Manual



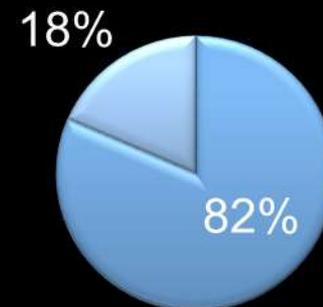
CHP Enrollments

■ Automated ■ Manual



Client Demographics updates

■ Automated ■ Manual



Dashboard

Show 10 entries

Search:



Provider Type	Provider Name	Client Count	Active	FORC	LTFU	Inactive	[Not Set]
HIV/PCP Provider	Julie A Drake	1	1	0	0	0	0
HIV/PCP Provider	Julie E Myers	34	31	0	3	0	0
HIV/PCP Provider	Karen F Brudney	227	177	19	31	0	0
HIV/PCP Provider	Magdalena Sobieszcyk	13	5	2	6	0	0
HIV/PCP Provider	Marc Dominic Foca	125	81	10	34	0	0
HIV/PCP Provider	Marcus Rebello Pereira	38	23	4	11	0	0
HIV/PCP Provider	Marshall W Fordyce	1	0	0	1	0	0
HIV/PCP Provider	Mathew Scherer	2	2	0	0	0	0
HIV/PCP Provider	Michael T Yin	55	36	4	15	0	0
HIV/PCP Provider	Natalie Neu	2	2	0	0	0	0



Showing 41 to 50 of 96 entries

Previous Next

For technical assistance please email e-compas@nyp.org

This is a secured web connection. All data is protected by the highest level of Internet encryption (128-bit SSL).

eCOMPAS works best with browsers IE7.0+ and FireFox 3.0+

Care Coordination

Demographics

Staff Assignment

Enrollment

Show 10 entries

Search:

Print

Export

Last Name	First Name	MRN	Insurance Gender	Age	HIV/PCP Provider	Social Worker	Engagement Status
			Male	44	Karen F Brudney		FORC
			Male	50	Karen F Brudney	Angel Cruz	FORC
			Male	54	Karen F Brudney	Jacqueline Hidalgo	FORC
			Female	61	Karen F Brudney	Jasmin Salcedo	FORC
			Male	56	Karen F Brudney	Angel Cruz	FORC
			Female	51	Karen F Brudney	Jasmin Salcedo	FORC
			Female	32	Karen F Brudney	Jasmin Salcedo	FORC
			Male	45	Karen F Brudney	Jasmin Salcedo	FORC
			Female	39	Karen F Brudney	Jasmin Salcedo	FORC
			Male	59	Karen F Brudney	Angel Cruz	FORC

Feedback

Provider Type - HIV/PCP Provider, Provider Name - Karen F Brudney, Activity Status - FORC

Total Clients: 19

Care Coordination Demographics **Staff Assignment** Enrollment

Show 10 entries

Search:

Print

Export

Last Name	First Name	MRN	HIV/PCP Provider	Social Worker	Community Navigator	Care Coordinator	Treatment and Adherence Supervisor	Nurse
			Karen F Brudney					
			Karen F Brudney	Angel Cruz				
			Karen F Brudney	Jacqueline Hidalgo			Deborah Cherena	
			Karen F Brudney	Jasmin Salcedo				
			Karen F Brudney	Angel Cruz				
			Karen F Brudney	Jasmin Salcedo				
			Karen F Brudney	Jasmin Salcedo				
			Karen F Brudney	Jasmin Salcedo				
			Karen F Brudney	Jasmin Salcedo				
			Karen F Brudney	Angel Cruz	Gracenell Wickham	Melinda Marquez		

MCM Billing

Report Date: 11/25/2012

Run

Compliance Report

Patient Track	Daily Target for this track	Monthly Service Level target for this Track	Number of Pts. In Track today	Current Service Levels	Patients out of compliance	Patient Target Variance	Service level Variance	Track Rate	Current Services Level times M-T-D Rate = Earnings
---------------	-----------------------------	---	-------------------------------	------------------------	----------------------------	-------------------------	------------------------	------------	--

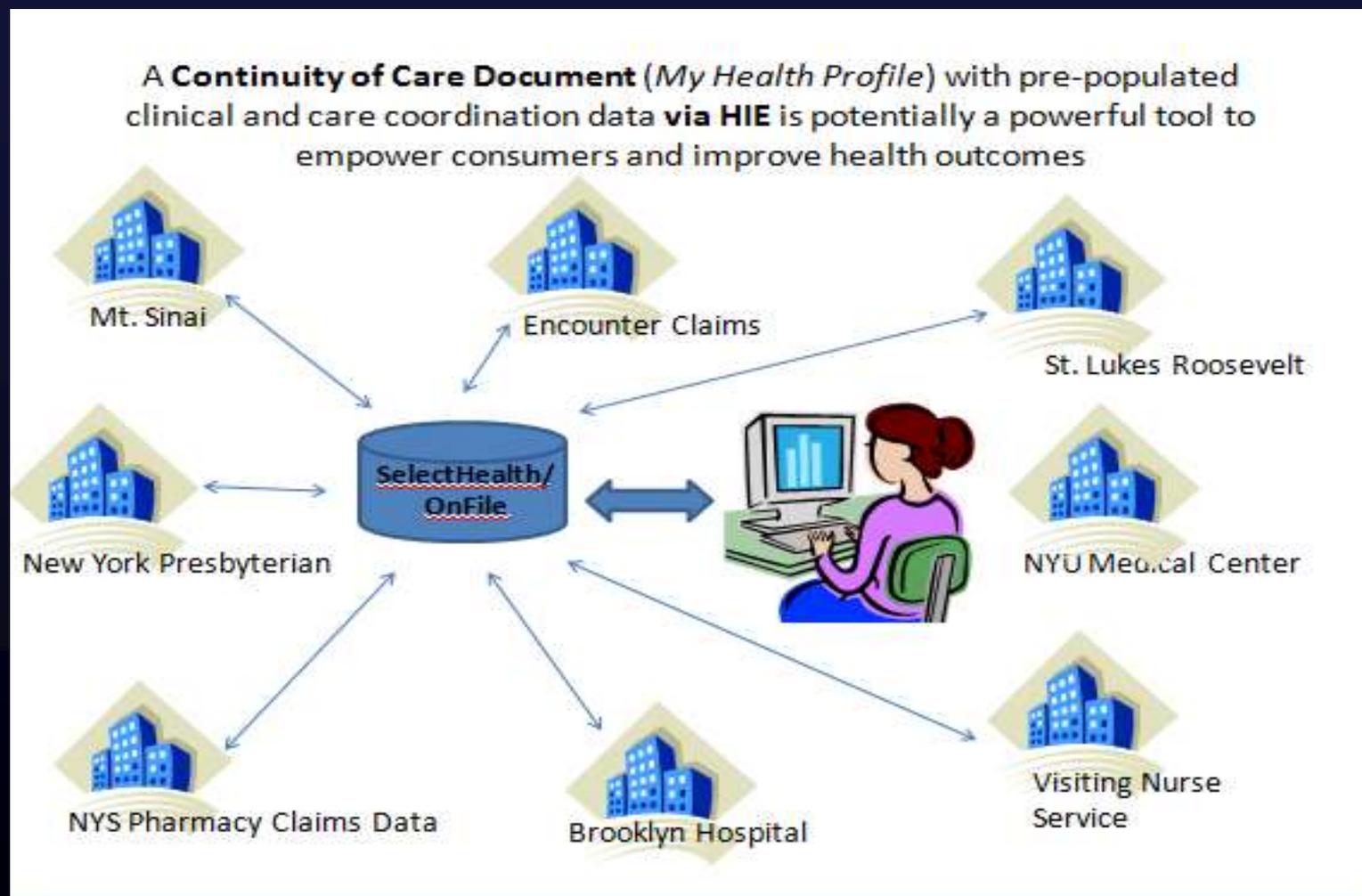
RW Only

A	1	30	<u>2</u>	32	<u>1</u>	1	2	\$1.17	\$37.44
B	4	122	<u>8</u>	177	<u>1</u>	4	55	\$1.83	\$323.91
C1	16	487	<u>20</u>	485	<u>0</u>	4	(2)	\$16.19	\$7,852.15
C2	101	3072	<u>78</u>	1495	<u>38</u>	(23)	(1577)	\$25.04	\$37,434.80
D	11	335	<u>11</u>	263	<u>1</u>	0	(72)	\$25.04	\$6,585.52
No Track	0	0	<u>0</u>	0	<u>1</u>	0	0	\$0.00	\$0.00
Total	133	4046	119	2452	42	(14)	(1594)	\$69.27	\$52,233.82

RW And COBRA

A	0	0	<u>0</u>	15	<u>0</u>	0	15	\$1.17	\$17.55
B	0	0	<u>1</u>	25	<u>0</u>	1	25	\$2.17	\$54.25
C1	1	30	<u>7</u>	170	<u>1</u>	6	140	\$3.17	\$538.90
C2	10	304	<u>10</u>	201	<u>3</u>	0	(103)	\$4.17	\$838.17

Other potential benefits of HIE: Empowering consumers via patient portals



Other potential benefits of HIE: Empowering consumers via patient portals



NewYork-Presbyterian System

SelectHealth

My Health Profile

- a Member **Continuity of Care Document** (CCD) for people living with HIV
- a 'snapshot' of critical clinical and care coordination information
- a standards based approach to HIE and access

Core Elements of a CCD include:

- CCD Identifying Information
- Patient's Health Status
 - Diagnoses
 - Medications
 - Laboratory results
 - Procedures/Imaging
 - Allergies/adverse reactions
 - Social history/Family history
- Advanced Directives/Life Documents
- Care Documentation
- Practitioners

HRSA Special Projects of National Significance
Information Technology Networks of Care
Initiative (2007-2012)



NewYork-Presbyterian System

SelectHealth

My Health Profile

- a Member ***Continuity of Care Document*** (CCD) for people living with HIV
- a ‘snapshot’ of critical clinical and care coordination information
- a standards based approach to HIE and access

Core Elements of a CCD include:

- CCD Identifying Information
- Patient’s Health Status
 - Diagnoses
 - Medications
 - Laboratory results
 - Procedures/Imaging
 - Allergies/adverse reactions
 - Social history/Family history
- Advanced Directives/Life Documents
- Care Documentation
- Practitioners

HRSA Special Projects of National Significance
Information Technology Networks of Care
Initiative (2007-2012)

Member Info (View)
 12345A
[Temporary Membership Card](#)
 Active
Member Admin
[Audit Log](#)
[Deactivate Member](#)
[New ID Pin](#)
[New Password](#)
[Temporary Login](#)
[Upload CCD](#)
[Download CCD](#)
 Last Modified: 4/22/2009

My Health Profile for Demo Member1

Patient Detail			
Name:	Demo Member1	Date of Birth:	01-01-1971
Address:	123 Test St. New York, NY 10036	Gender:	Male

Health Care Providers			
Role	Name	Organization	Phone
Case Manager	Iris Sotierrez Gordon, Peter	Columbia Presbyterian HIV Program Columbia Presbyterian Program Dennelisse Corporation	(212) 305-3174 (212) 305-2995 (After Hours) (212) 265-1480

Problems		
Condition	Effective Dates	Condition Status
HIV/CDC AIDS	2/2003	Active
Diabetes Mellitus	5/2005	Active
Depression	1/2006	Active
Hypertension	8/2006	Active
Acute Myocardial Infarction	8/2006	Resolved

Allergies, Adverse Reactions, Alerts		
Substance	Reaction	Status
Penicillin	Hives	Active
Codine	Nausea	Active

Medications						
Medication	Filled	Quantity	Days Supplied	Order Date	Ordered By	
NORVIR 100 MG SOFTGEL CAP	11/8/2008	30	30	7/7/2008	Gordon, Peter	
ALBUTEROL 90 MCG INHALER	10/28/2008	17	25	10/6/2008	Gordon, Peter	
FLUTICASON 50 MCG NASAL SPRAY	10/28/2008	16	25	10/6/2008	Gordon, Peter	
REVATAZ 150 MG CAPSULE	10/28/2008	60	30	7/7/2008	Gordon, Peter	
TRICOR 145 MG TABLET	10/28/2008	30	30	7/7/2008	Gordon, Peter	
TRUVADA TABLET	10/28/2008	30	30	7/7/2008	Gordon, Peter	
ZETIA 10 MG TABLET	10/28/2008	30	30	7/7/2008	Gordon, Peter	
METFORMIN HCL 850 MG TABLET	10/28/2008	90	30	7/7/2008	Gordon, Peter	
ACTOS 15 MG TABLET	10/28/2008	30	30	7/7/2008	Gordon, Peter	
LISINAPRIL 40 MG TABLET	10/28/2008	30	30	10/6/2008	Savo, Dorothy	
RANITIDINE 150 MG TABLET	10/28/2008	60	30	10/6/2008	Gordon, Peter	
TACTINAL 500 MG TABLET	10/28/2008	100	33	9/29/2008	Gordon, Peter	
GLIPIZIDE 10 MG TABLET	10/28/2008	120	30	10/28/2008	Gordon, Peter	
ACETASOL HC EAR DROPS	10/26/2008	20	10	10/26/2008	Burnett, Michael	
NORVIR 100 MG SOFTGEL CAP	10/15/2008	30	30	7/7/2008	Gordon, Peter	
CLOTRIMAZOLE 1% SOLUTION	10/6/2008	30	15	5/19/2008	Weitz, Alan	
RANITIDINE 150 MG TABLET	10/6/2008	60	30	10/6/2008	Gordon, Peter	
LISINAPRIL 40 MG TABLET	10/6/2008	30	30	10/6/2008	Savo, Dorothy	
TRIAMCINOLONE 0.1% CREAM	10/6/2008	15	8	5/19/2008	Weitz, Alan	
ACTOS 15 MG TABLET	10/6/2008	30	30	7/7/2008	Gordon, Peter	
METFORMIN HCL 850 MG TABLET	10/6/2008	90	30	7/7/2008	Gordon, Peter	
ZETIA 10 MG TABLET	10/6/2008	30	30	7/7/2008	Gordon, Peter	
TRUVADA TABLET	10/6/2008	30	30	7/7/2008	Gordon, Peter	
TRICOR 145 MG TABLET	10/6/2008	30	30	7/7/2008	Gordon, Peter	
REVATAZ 150 MG CAPSULE	10/6/2008	60	30	7/7/2008	Gordon, Peter	
GLIPIZIDE 10 MG TABLET	10/6/2008	60	15	7/7/2008	Gordon, Peter	
FLUTICASON 50 MCG NASAL SPRAY	10/6/2008	16	25	10/6/2008	Gordon, Peter	
ALBUTEROL 90 MCG INHALER	10/6/2008	17	25	10/6/2008	Gordon, Peter	
TACTINAL 500 MG TABLET	9/29/2008	100	33	9/29/2008	Gordon, Peter	
OFLOXACIN 0.3% EAR DROPS	9/26/2008	10	10	9/26/2008	00246707	
GLIPIZIDE 10 MG TABLET	9/23/2008	60	15	7/7/2008	Gordon, Peter	
NORVIR 100 MG SOFTGEL CAP	9/17/2008	30	30	7/7/2008	Gordon, Peter	
GLIPIZIDE 10 MG TABLET	9/2/2008	60	15	7/7/2008	Gordon, Peter	
REVATAZ 150 MG CAPSULE	9/2/2008	60	30	7/7/2008	Gordon, Peter	
TRICOR 145 MG TABLET	9/2/2008	30	30	7/7/2008	Gordon, Peter	
TRUVADA TABLET	9/2/2008	30	30	7/7/2008	Gordon, Peter	
ZETIA 10 MG TABLET	9/2/2008	30	30	7/7/2008	Gordon, Peter	
METFORMIN HCL 850 MG TABLET	9/2/2008	90	30	7/7/2008	Gordon, Peter	
ACTOS 15 MG TABLET	9/2/2008	30	30	7/7/2008	Gordon, Peter	
LISINAPRIL 40 MG TABLET	9/2/2008	30	30	4/11/2008	Savo, Dorothy	
RANITIDINE 150 MG TABLET	9/2/2008	60	30	4/11/2008	Gordon, Peter	



Home



Care Information



Reports



Tools



My Account



Help



Logout

Home > Care Information



About Me



Name	A W	E2ID	AWM021653	Date Of Birth	01/02/1990
Email	serge@rdsystems.com	Address	.	Current Gender	Male
			07086		



My Health Care Providers



Case Manager(non-medical)	MARIE A. HILL	Organization	BUDDIES OF NJ	Phone Number	2014892900
Case Manager(medical)	SUSAN STOVEKEN	Organization	BUDDIES OF NJ	Phone Number	2014892900
HIV Care Provider	Hackensack University				

CD4



Result Date	Count	Action
12/22/2010	996	
06/02/2010	938	
08/23/2011	931	
03/14/2011	927	
05/31/2011	911	

Showing 1 to 5 of 11 entries



Viral Loads



Result Date	Count	Undetectable	Action
06/02/2010	471	No	
05/12/2009	206	No	
10/26/2009	143	No	

My Information

CD4

Viral Loads

STI

HIV Meds

Other Meds

Adherence

ER / Hospital

TB(TST)

Annual Physicals

Screenings

Immunizations



Home



Care Information



Reports



Tools



My Account



Help



Logout

My Information

CD4

Viral Loads

STI

HIV Meds

Other Meds

Adherence

ER / Hospital

TB(TST)

Annual Physicals

Screenings

Immunizations

Home > Care Information



About Me



Name	A W	E2ID	AWM021653	Date Of Birth	01/02/1990
Email	serge@rdesystems.com	Address	, 07086	Current Gender	Male



My Health Care Providers



Case Manager(non-medical)	MARIE A. HILL	Organization	BUDDIES OF NJ	Phone Number	2014892900
Case Manager(medical)	SUSAN STOVEKEN	Organization	BUDDIES OF NJ	Phone Number	2014892900
HIV Care Provider	Hackensack University				

CD4



My Information

CD4

Viral Loads

STI

HIV Meds

Other Meds

Adherence

ER / Hospital

TB(TST)

Annual Physicals

Screenings

Immunizations

Home



Care Information



About Me

Name	A W	E2ID	AWM02165
Email	serge@rdesystems.com	Address	, , 07086



My Health Care Providers

Case Manager(non-medical)	MARIE A. HILL	Organization
Case Manager(medical)	SUSAN STOVEKEN	Organization
HIV Care Provider	Hackensack University	

CD4

Result Date



Count

HIV Meds



Therapy	Medication	Start Date	End Date	Dosage Notes	Action
HAART	Atripla	04/15/2009		i po daily HS	

Showing 1 to 1 of 1 entries



Other Meds



Medication	Start Date	End Date	Dosage Notes	PCP Prophylaxis	Action
Levaquin	06/29/2011	07/04/2011	750 mg po i tab daily	No	
ciprofloxin	06/29/2011	07/06/2011	i tab po bid for 7 days	No	
levaquin	06/29/2011	07/04/2011	750 mg i po daily for 5 days	No	
MVI	01/03/2011		i po daily	No	
Vitamin D	01/03/2011		2000 units po daily	No	

Showing 1 to 5 of 11 entries



Adherence



Evaluation Date	Adherence Days	Barrier	Notes	Action
01/14/2012	4/4 Days	None		

Showing 1 to 1 of 1 entries



ER / Hopspital



Hospitalization	Admission Date	DischargeDate	Complaint	Action
HIV/AIDS related Hospitalization	02/14/2010	02/14/2011	asthma	

Showing 1 to 1 of 1 entries



Screenings



Screening	Screening Date	Notes	Action
Comprehensive Metabolic Screening	08/23/2011		
Comprehensive Metabolic Screening	05/31/2011		
Mental Health	04/06/2011		
Substance use	04/06/2011		
Comprehensive Metabolic Screening	03/14/2011		

Showing 1 to 5 of 19 entries



Immunizations

Pneumococcal

Dose given on: 08/19/2009

Notes:

Influenza (TIV)

Dose given on: 09/09/2009

Given Elsewhere



Home



Care Information



Reports



Tools



My Account



Help



Logout

Home > Reports

I would like to view information about...



My Notes and Annotations



Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua...



My appointments & Reminders



Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua...

-  Home
-  Care Information
-  Reports
-  Tools
-  My Account
-  Help
-  Logout

Go back to Patient Portal Home

Home > Tools

I would like to...

-  Give someone temporary access to my information ▶ *Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua...*
-  Print my information ▶ *Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua...*
-  Save my information on my computer ▶ *Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua...*

Conclusions....

- ❖ Harnessing *Health Information Exchange (HIE)*, whether internally, regional, or statewide offers many, many important opportunities
- ❖ Designing and building your system to fully participate in HIE means design with *Intraoperability* in mind
- ❖ Look for *IT Partners* instead of *IT Vendors*



Electronic Comprehensive Outcomes Measurement Program
for Accountability and *Success (e2)*

Developed by
RDE Systems, LLC

A System and an Approach

A heartfelt thanks.....



AN UPDATE FROM THE U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, HEALTH RESOURCES AND SERVICES ADMINISTRATION,
HIV/AIDS BUREAU, SPECIAL PROJECTS OF NATIONAL SIGNIFICANCE

OCTOBER 2012

➤ Leveraging Health Information Technology to Improve Access to and Quality of HIV/AIDS Care

People living with HIV/AIDS (PLWHA) tend to be more mobile than the general population and may seek care from multiple providers. As a result, assessing the complete HIV disease and care history of PLWHA can be next to impossible, particularly because few clinics nationwide have the capacity to exchange patient records securely online.

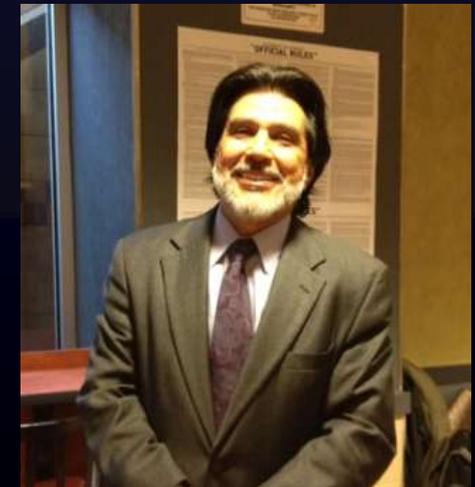
The consequences of incomplete records can be significant. Doctors may find themselves treating clients who have long histories of HIV treatment as being new to care and thus request redundant lab tests and medications. PLWHA—particularly those dealing with common HIV coinfections and comorbidities, such as sexually transmitted diseases, hepatitis, tuberculosis, substance use disorders, and mental health issues¹⁻³—may be wary of telling their doctor that they have been in care at another clinic or have previously fallen out of care. Others may believe that their new doctor has access to their records.

Electronic Medical Records, Health Information Exchanges, and SPNS

To enable clinicians to better serve PLWHA who frequent different providers, the Ryan White HIV/AIDS Program, administered by the Health Resources and Services Administration (HRSA), HIV/AIDS Bureau (HAB), has supported the development and implementation of health information technology (HIT) innovations, most notably through HAB's Special Projects of National Significance (SPNS) Program.

From 2007 to 2011, the SPNS Information Technology Networks of Care Initiative (Networks of Care Initiative) promoted the enhancement and evaluation of existing health information electronic network systems to serve PLWHA in underserved communities. Six demonstration sites (see box, p. 2) were funded for 4 years to demonstrate the benefits of updating electronic medical record (EMR) databases to securely share patient information online with other providers and ancillary points of service, such as mental health clinics and pharmacies. Known as health information exchange (HIE), this technology enables secure transmission of information across disparate database systems, enabling users to update patient records in real time. As Wayne Steward, who served as co-principal investigator with Janet Myers of the Networks of Care Initiative's Evaluation and Support Center, explains, each site used different customizations to achieve the same result: "The Initiative helped bolster the operations of existing systems so that providers could communicate electronically across locations, hence the idea of health information

*Especially,
Adan Cajina
Chief, Demonstration
and Evaluation Branch*



The subliminal message....



Thank You!