

COMMUNITYVIEWER

Integrated Data System

March 2014

WHY?

Integrated Data Needs

Need	Examples
Identify people or households needing specific interventions	<ul style="list-style-type: none"> • Identify schoolchildren who have just missed the third school day in a row • Public housing households generating multiple emergency room visits and school absences for respiratory problems
Identify locations needing specific interventions	<ul style="list-style-type: none"> • Site early childhood programs in block groups with high density of young children • Target financial literacy programs to areas with a few banks and a high density of payday and title lenders
Track individual, family, or HH progress on measures of success	<ul style="list-style-type: none"> • Change in EPN student math grade after four weeks of tutoring • Change in child’s behavioral issues after non-custodial father secures and retains employment • Change in child’s absences as Wheatley family moves to Sutton Oaks and back to redeveloped Wheatley Courts

Need	Examples
<p>Track population progress on measures of success</p>	<ul style="list-style-type: none"> • Change in percent of EPN students missing 10% or more of school instruction days • Change in percent of EPN students transitioning on time from 8th to 9th grade
<p>Conduct formative and summative evaluation</p>	<ul style="list-style-type: none"> • Implementation fidelity: Determine the percent of EPN students needing at least 20 hours of math tutoring over eight weeks who actually received at least that dosage • Outcome measurement: Four-year graduation rate for kids who attended Pre-K vs. those who did not
<p>Determine effectiveness and dose-response relationships</p>	<ul style="list-style-type: none"> • Quantify the intensity of grades K-2 out-of-school time learning needed to preserve the protective effects of pre-K through third grade • Determine the optimal tutoring dosage (session length, frequency, duration) by subject, age, race/ethnicity, and gender

WHAT?

CommunityViewer Integrated Data System (IDS)

What SA Chose NOT to Do

- **Import to warehouse**
 - Cons: Service providers can't see individual person/family/HH record, high risk to agency with movement of lots of raw identified data, public usually can't see aggregate reports
- **Data entry into single db**: require partner agencies to key client data into single db
 - Cons: duplicate data entry, ↑ errors , public can't see aggregate reports
- **Import to single client db**: agencies' raw data are imported/passed into single client mgmt db
 - Cons: high risk to agency with movement of lots of raw identified data, ongoing manual process, public can't see aggregate reports

None of these solutions integrates person-data with place-data

What SA Chose to Do: CommunityViewer

- Purpose-built for broad long-term use across region
- Intended to maximize power, minimize agency risk and effort
- Scalable at low cost once core is built
- Aggregate data freely available; identified data highly secure and private

What It integrates

- Person-to-person
 - Links and de-duplicates people, families, and households across datasets using record-matching algorithms and defined attributes
 - Early-warning dashboard and longitudinal tracking
- Person-to-place
 - Geocodes person-level records
 - Enables use of place-based data (neighborhood and environmental influences)
- Place-to-place
 - Aggregate up across datasets (e.g., tract to zip code)

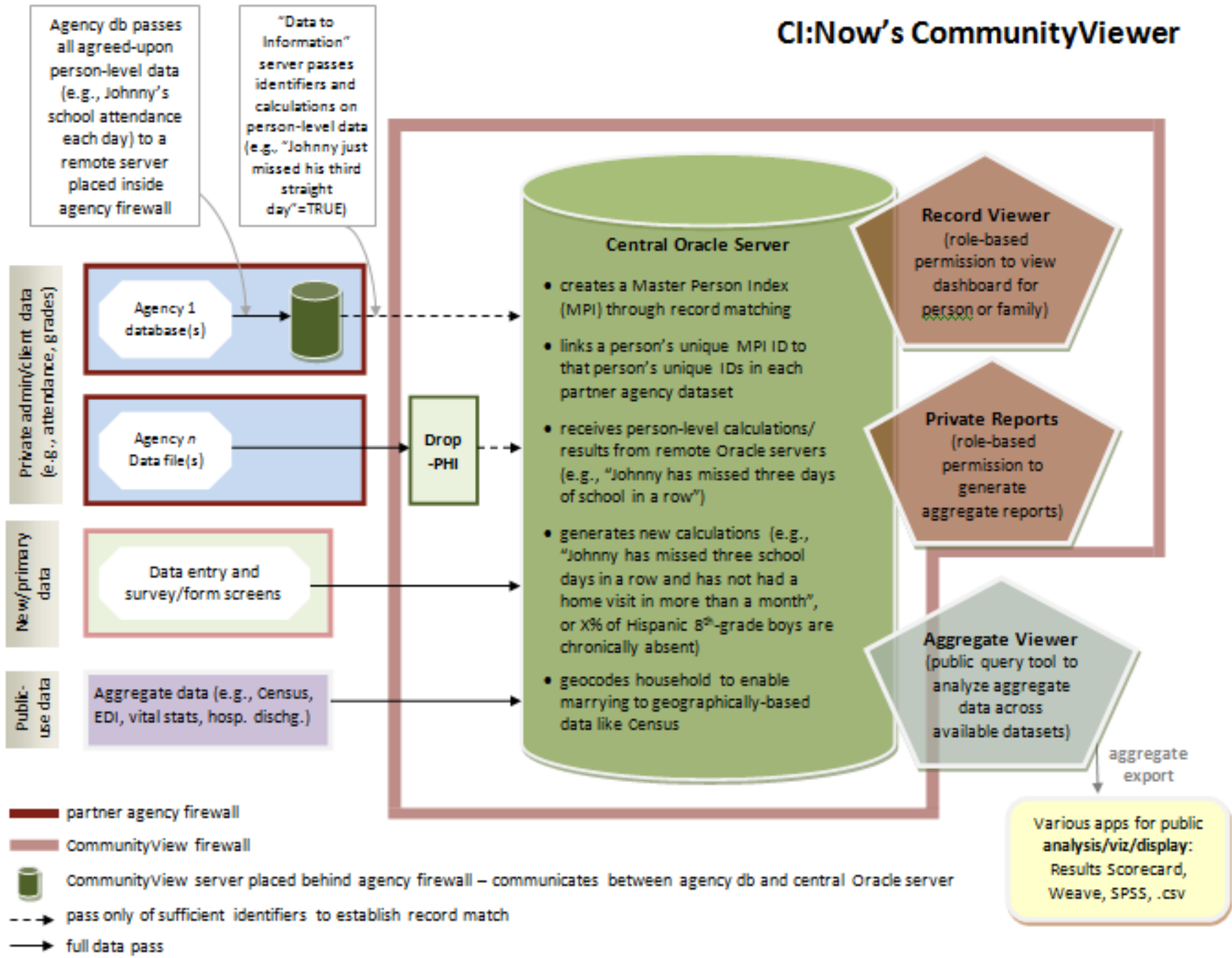
Features & Functionality

- Data in: DTI server and/or DropPHI/SFTP; direct data entry under consideration
- Controlling data view/use:
 - User management module
 - Consent module
- Accessing data
 - Person Viewer
 - Private Reports
 - Public Reports

How?

Using Data Without Moving Data

CI:Now's CommunityViewer



Custom and “canned” reports

% OF INSTRUCTIONAL DAYS MISSED DURING PAST MONTH AT CURRENT SCHOOL

ETHNICITY DISTRIBUTION / GENDER DISTRIBUTION

SchYTD: Current Year|Campus: Tynan Early Childhood Campus|Grade: ALL|Zip: ALL|Census Tract: ALL|Risk: Limited English (GREEN)|Site: ALL|Program: ALL|Agency:



Person-level dashboard

Attendance

State	Indicator	Date	Value(s)	Options
▲	# instructional days between first day of school and enrollment	10/25/2013	2 Day(s)	
●	Current # of consecutive missed instructional days at current school	10/25/2013	0 Day(s)	
▲	% of instructional days missed during first month of school	9/24/2013	5 %	
◆	% of instructional days missed during past month at current school	10/25/2013	41 %	
◆	% of instructional days missed in past week at current school			
▲	# of Attendance Warning Notices issued so far this school year			
●	Current % of instructional days enrolled in current school (mobility)			
■	Previous year-end % of instructional days enrolled (mobility)			

██████████, 4 yo Female

School Year

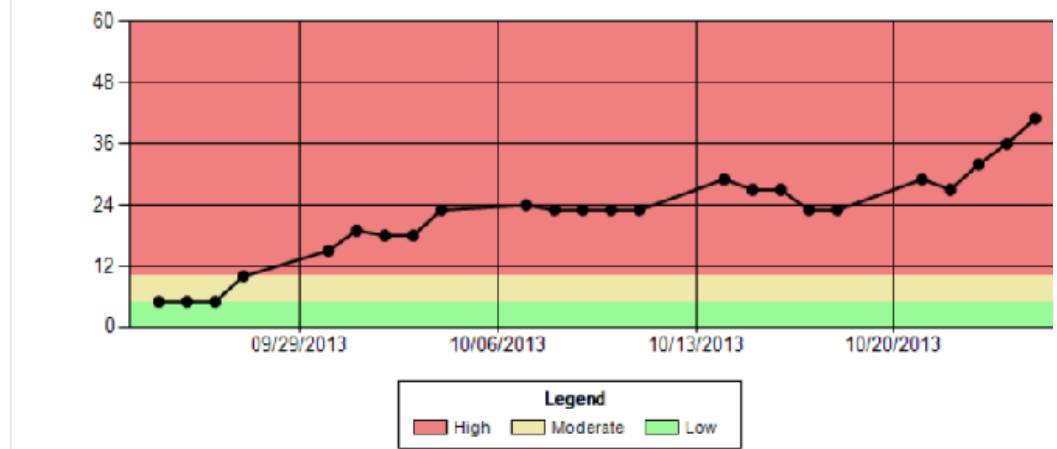
Coursework & Testing

Other

State	Indicator
●	Homeless/doubling up
●	Limited English Proficient
●	Migrant

Item History

% of instructional days missed during past month at current school


















Household and family dashboards

Start Date End Date

Note

Household Members **Lives Elsewhere Family Members**

Household Members   All (including past members of the household)

	Last Name	First Name	Age	Sex	Relationship	Edu	Em
 				Female	Not Known	UNK	UN
 				Male	Not Known	UNK	UN
 				Male	Not Known	UNK	UN
 				Male	Not Known	UNK	UN
 				Female	Not Known	UNK	UN
 				Male	Not Known	UNK	UN
 				Male	Not Known	UNK	UN

Public reports

The screenshot displays the 'Community Viewer' web application. The browser address bar shows the URL 'https://viewer.cinow.info/CINow/'. The application header includes a 'CV Home Page' button and the 'COMMUNITY VIEWER' logo. Below the header is a navigation bar with tabs for 'Birth' and 'Hospitalization', and a row of filter tabs: 'Year', 'Outcome', 'Geo. Filters', 'Misc. Filters', 'Diagnostic Filters', 'Procedure Filters', 'Group By', 'Report', and 'Clear'. The 'Outcome' tab is currently selected, revealing a list of 17 report options under the heading 'Outcomes'.

Outcomes

- Discharges: Gender (at start of care)
- Discharges: Age Group (on date of discharge)
- Discharges: Race
- Discharges: Ethnicity
- Discharges: Patient's County (FIPS code)
- Discharges: Type of Admission
- Discharges: Source of Admission
- Discharges: Risk of Mortality Score (APR-DRG)
- Discharges: Severity of Illness Score (APR-DRG)
- Total Number of Length of Stay (LOS)
- Mean(μ) Value of Length of Stay (LOS)
- Disposition (Patient status as of end of service)
- Principal Diagnosis Code
- Principal Diagnosis Code (Top N only)
- Clinical Classifications Software (CCS) Level 1
- Clinical Classifications Software (CCS) Level 2
- Clinical Classifications Software (CCS) Level 2 (Top N only)
- Mean(μ) Value of Length of Stay (LOS) by Clinical Classifications Software (CCS) Level 1

Further analysis & visualization

