

Interactive, Community-Based Data Dashboards for System Performance Improvement



Presenters:

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What's Next:

In Data, Leadership, and Community



Community-Based Data Dashboards Taylor, Remigio, Miller

- Introductions
- Overview of Dashboard Presentation

The issue: Communities need flexible and sustainable strategies to plan for and assess system change

A solution: Customized HMIS data dashboards for ongoing local analysis to drive decision-making





San Diego, CA

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Community-Based Data Dashboards
Taylor, Remigio, Miller

HMIS analytic dashboards provide interactive visualizations for effective analysis, exploration, and multiple ways to drill data

SYSTEM PE	RFORMANCE METR	10/1/2014 - 12/2/2016
START DATE		
10/1/2014	HOMELESS	NEWLY HOMELESS
END DATE	HSIMELESS	
12/2/2016 SUBPOPULATION	7,397	5,535
Jurisdiction or County	Δ3%	∇2%
(AII) ▼	2 370	1 270
Chronic		
(AII) ▼		
Veteran Status		
(AII) ▼	RETURN WITHIN 6-12 MOS	RETURN WITHIN 2 YRS
Age Group		
(AII) ▼		
Hh Config	3%	15%
(AII) ▼		
PROJECT & PROVIDER		
Don't at Tree		





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Data Discovery - Small Group Exercise

 What data-based focus would you choose for your community?





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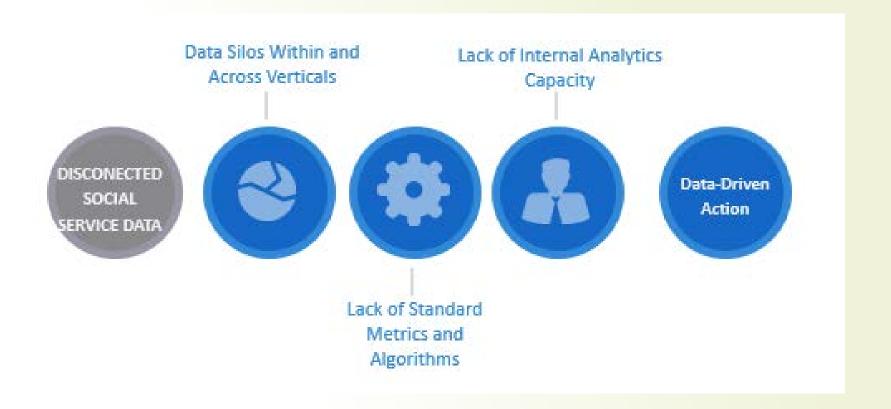
Data Discovery – Small Group Exercise

- Returns to Homelessness
- Length of Time Homeless
- Number of Newly Homeless
- Successful Permanent Exits
- Chronically Homeless



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Data dashboards are designed to overcome existing barriers





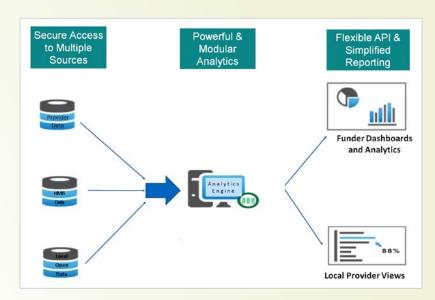


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HUD HMIS - CJ DATA INTEGRATION PROJECT

Cloudburst is supporting HUD and the Data Driven Justice Initiative to connect homelessness and criminal justice data, improving system capacity to:

- Identify the frequent user population to improve timely connection of housing and services to high-need population
- Improve system coordination cooperation and data linkage across cross-sector Homelessness and Criminal Justice systems
- Drive data-driven decision-making to decrease homelessness and recidivism







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HMIS Community Cloud Product Deliverables

HHS System Dashboards

for Administrators, Providers,



Client Tracking Tools

for case managers



Housing App for Housing Locators



Data Action Cycle Playbook

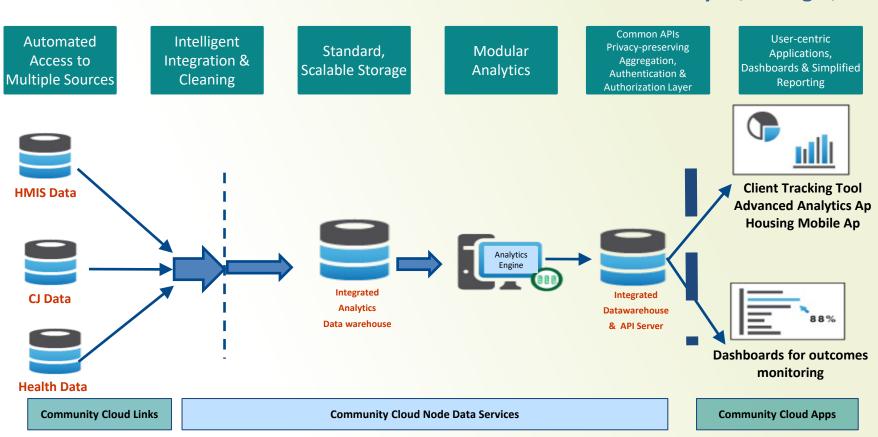
Data Utilization Trainings / Data Maturity
Framework for project staff and administrators







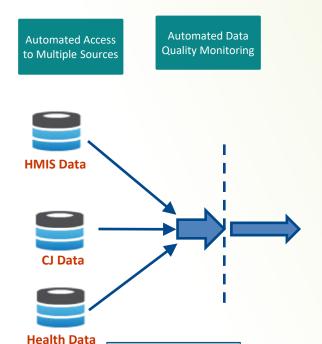
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Features of a Community Cloud Link

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Community Cloud Links

- Automated Extraction, Transformation, and Loading keeps data up to date
- Automated data quality monitoring
- Authorization and authentication for parent nodes to ensure sensitive data
- Optional manual data uploader & validation service for excel-based data ingestion







Features of a Community Cloud Node

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- Integrated
 Analytics
 Data
 warehouse

 & API Server
 - **Community Cloud Node Services**

- Integrated data warehouse with a common schema
- Public APIs for Open Data Reporting
- Private and Secure APIs for Application Development
- Automated Extraction, Transformation, and Loading (ETL) engine
- Deduplication engine
- Automated data quality monitoring services
- Ability to add future OpenHMIS instances (at reduced cost)







Features of Community Cloud Apps

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User-centric Applications, Dashboards & Simplified Reporting



Housing App & other provider-facing applications



Community Cloud Apps

to housing

Supports a wide variety of applications through well documented API.

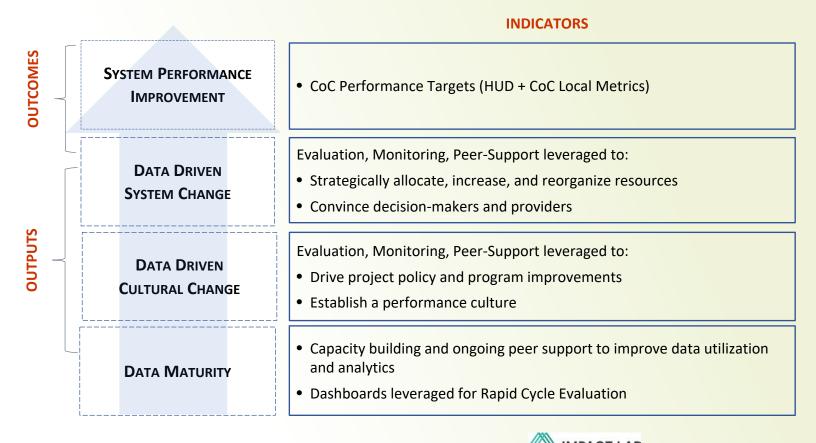
Apps include:

- System Dashboards for performance monitoring
- Client Tracking Tools to identify frequent users and match solutions
- Advanced Analytics App
- Housing Mobile App and other provider facing applications



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HMIS Community Cloud Benefits







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Data Maturity Framework

Improved resource targeting, service collaboration, client outcomes

Build Local Capacity

HUD Sponsored:

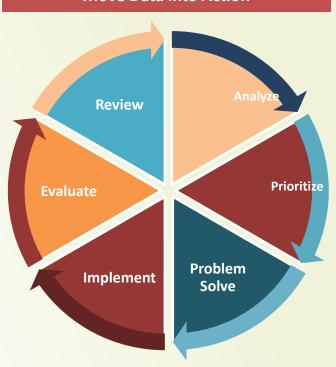
- ✓ Data Maturity Training
- ✓ Community of Practice
- ✓ Peer-Leadership and Mentoring (ongoing)

Ecosystem Readiness

Data and Technical Readiness

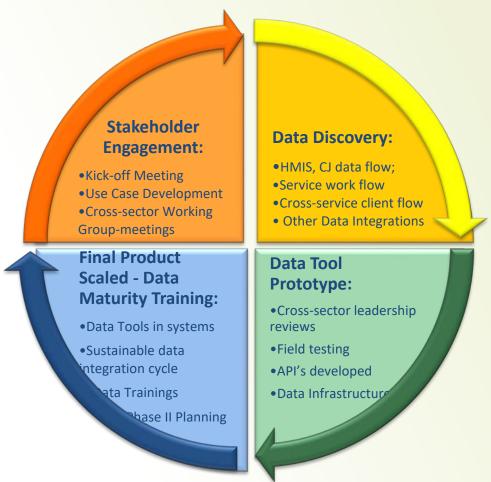
Change Management Readiness

Move Data into Action



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Data Integration Project Cycle







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Community Partners

- Richmond, VA
- Prince George's County, MD
- Central Florida (Orlando, FL)
- San Diego, CA
- Utah





Using Data Tools to Improve Outcomes
Taylor et. al

Dashboard Data Discovery Exercise





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<u>Data Maturity:</u> Improved resource targeting, service collaboration, client outcomes

Ecosystem Readiness

- System leadership/commitm ent to implementation of change
- Environment conducive to datadriven decision making
- Active and effective system partnerships between stakeholders

Data and Technical Readiness

- Ongoing commitment to data linkage and data usage
- Comprehensive MIS networks
- Staff capacity to analyze data
- Data comprehension

Change Management Readiness

- Organization readiness and capacity for collaboration
- Active participation in change planning
- Shared knowledge of best practices
- Ongoing data review to monitor and evaluate impacts





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For more information

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