



PROGRAM INTEGRITY COSTS LESS WITH ACTIONABLE DATA

29657895235256240578
8028825678907683221
5532645624802025218
48487947898746332215
54263486224687896335
29878887453322153328
34562345882925201946
48794246982922405286
5789523 CONFIRM

COMPLIANCE
VERIFICATION

Health Market Science 

Jennifer Salvucci, SVP, Compliance Solutions
National Association of Medicare Program Integrity Conference
August 19, 2013

I know what you're thinking...

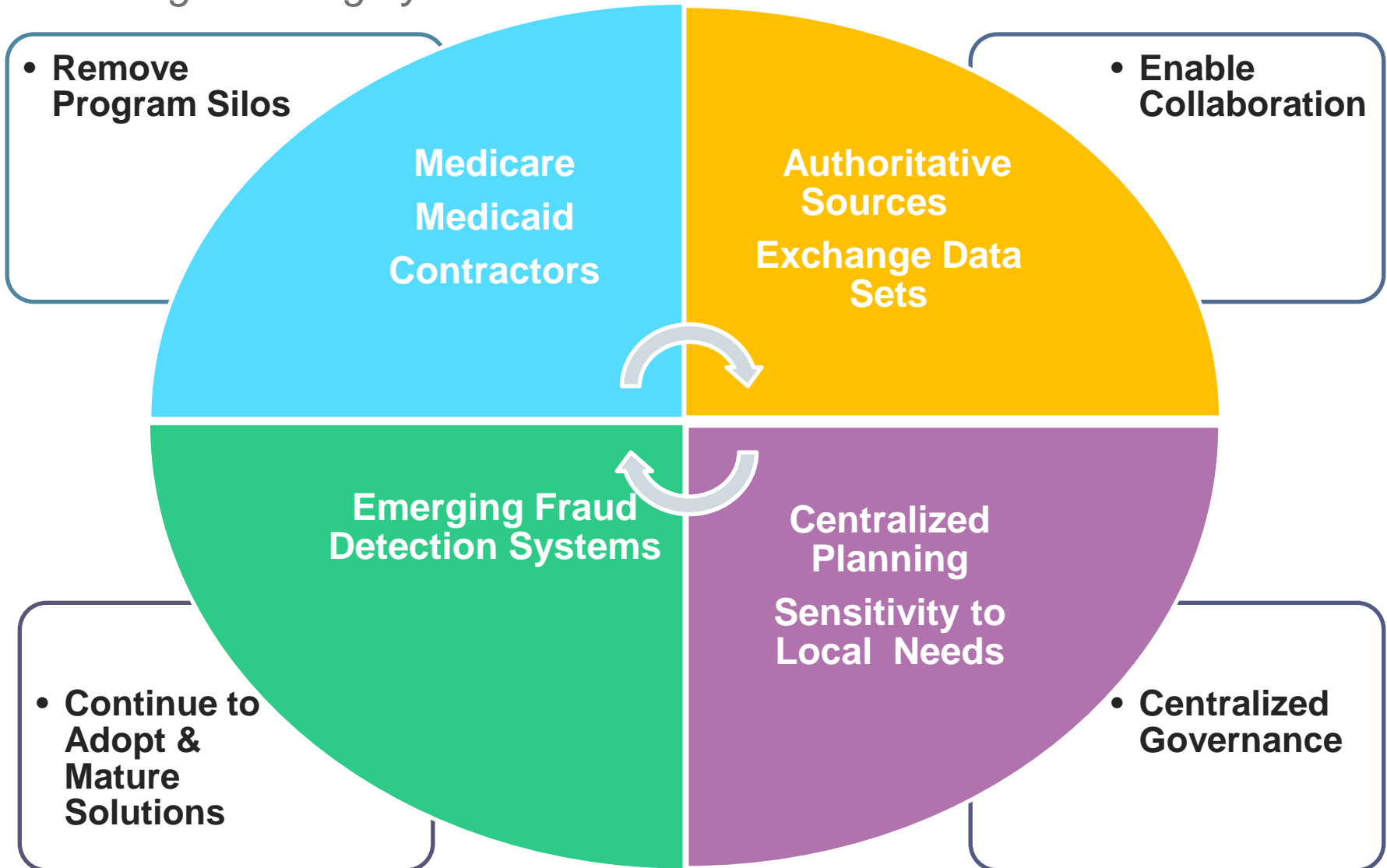


Agenda

- Program Integrity Goals
- Current Challenges
- What is Big Data and how does it impact Program Integrity
- Big Data in Action – A Case Study
- Big Data Return

Program Integrity Goals

Unified Program Integrity



Challenges – Disconnect Across the Board

■ Provider Data

- › No central, reliable crosswalk to match provider identities
- › State Medicaid rosters vary in content and fill-rates or may be unavailable

■ Claims

- › Missing service descriptions
- › Incomplete beneficiary information

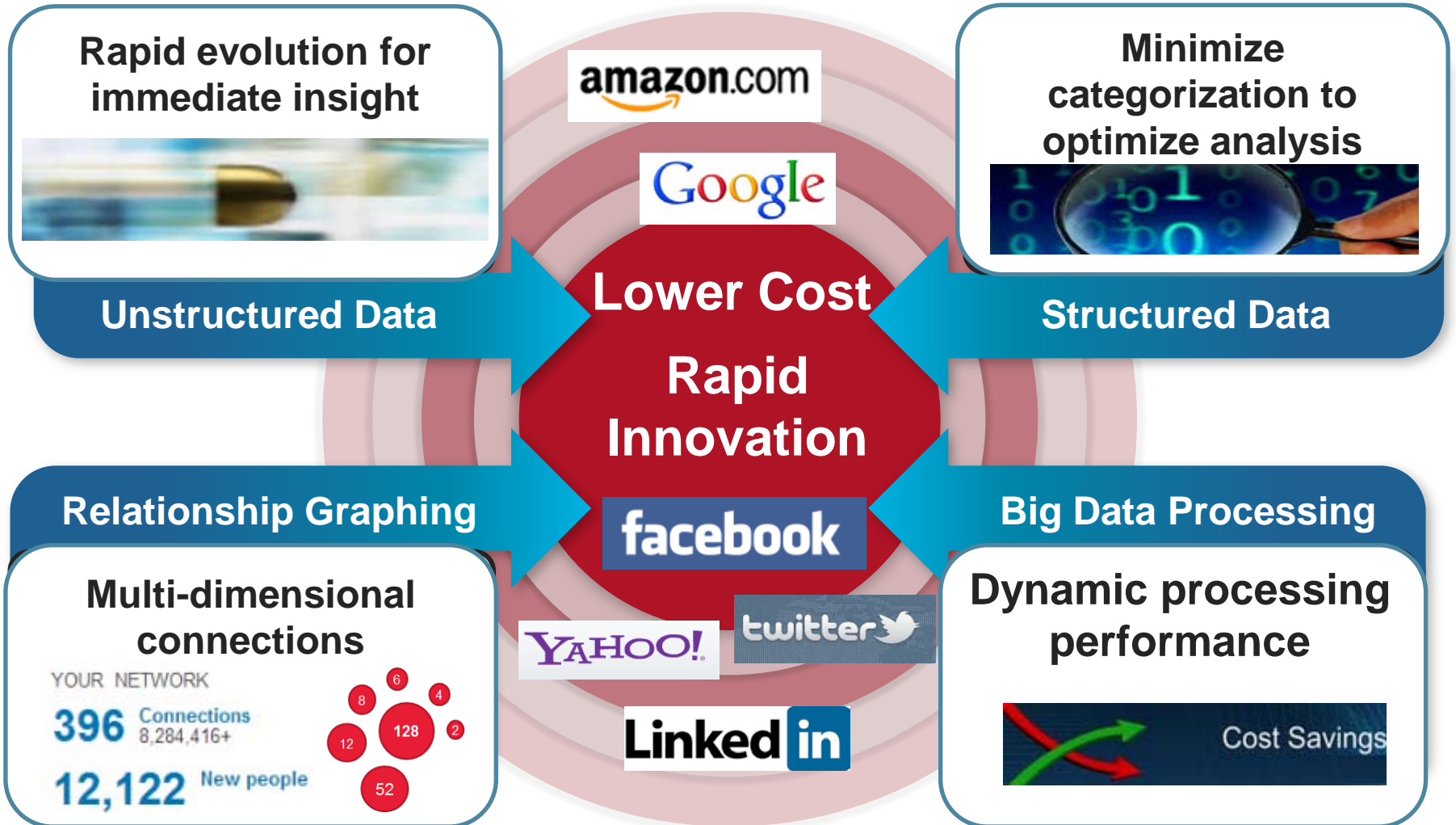
■ MMIS Limitations

- › Lack of provider information
- › Incomplete payment and billing information
- › Beneficiary discrepancies
- › Data latency
- › False negatives and positives



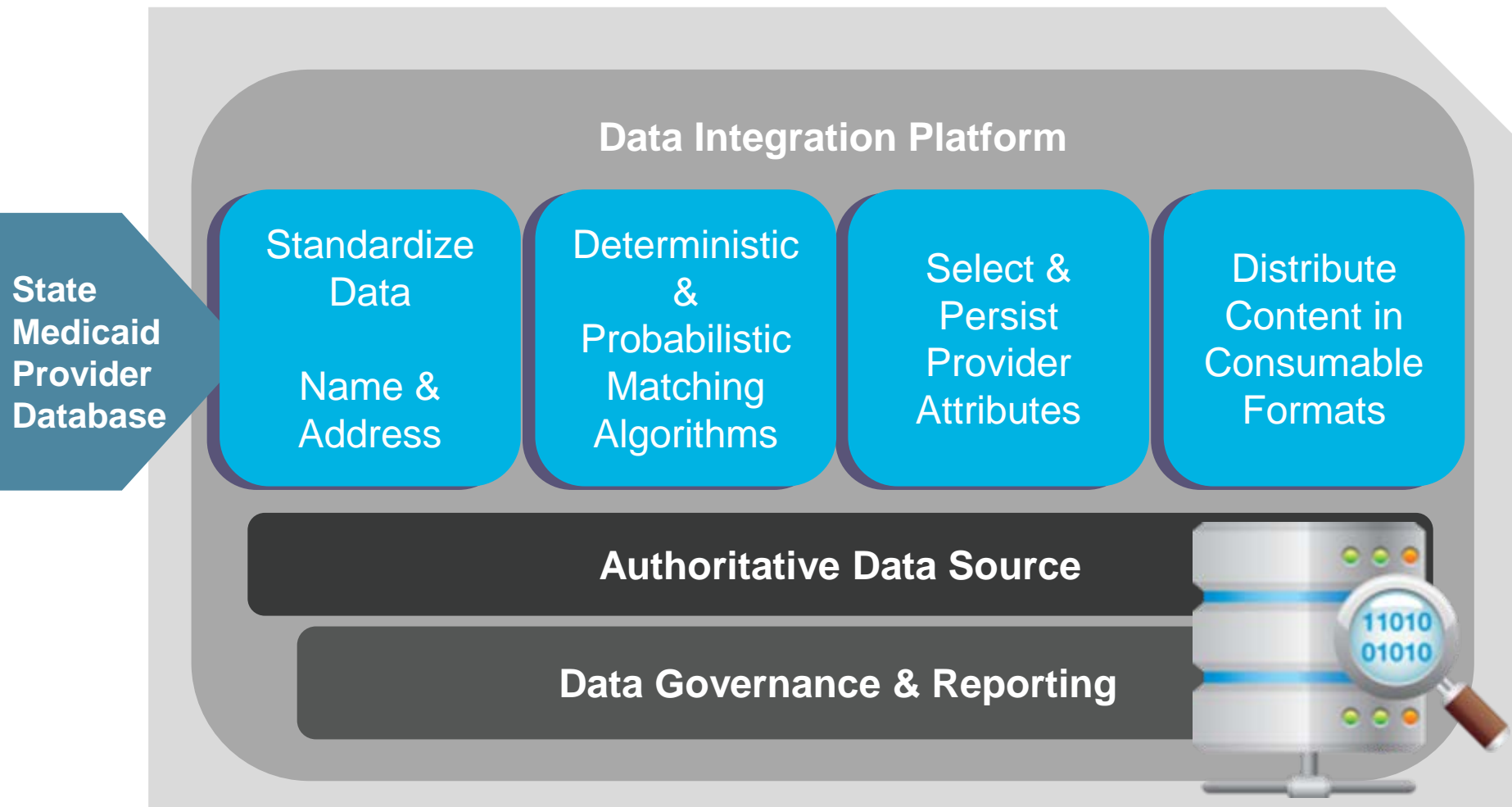
Big Data Overview

What's the big deal?

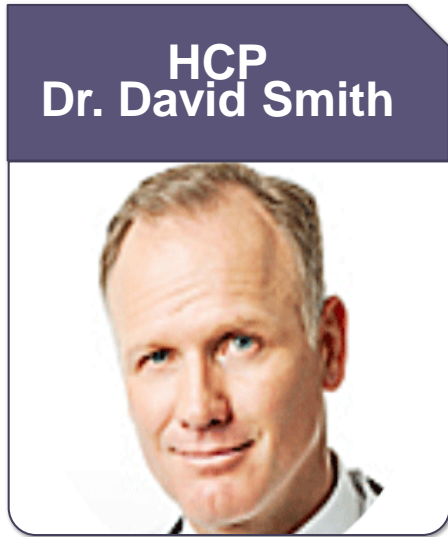


Big Data in Action – Master Data Management

State Medicaid Agency utilizes a MDM solution with an authoritative data source to cleanse and enrich their file and provide ongoing data maintenance



Big Data in Action – A Case Study

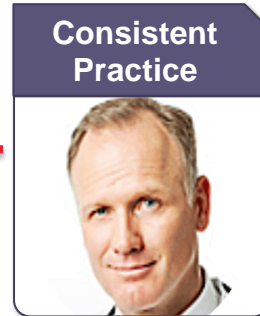


- Program Integrity is suspicious of Dr. David Smith
- Dr. Smith is billing under his state Medicaid ID

24657895235256246578
95235256789874533221
55326345624682925219
46487947898745332215
53263456224657895235
25678987453322155326
34562246982925281946
48794246982922465246
57895235256789874533
22155326345622469829
25281946487478952352
56789874533221553263
45622468292528194648
79452819464879424657
89523525678987453322
15532634562246982925
2194648794

Initial Data Mining Results:

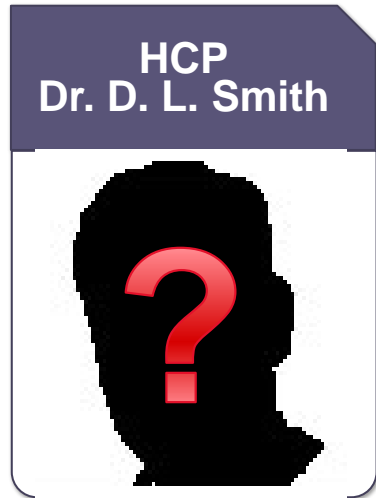
- Medicaid Identifiers
- Eligibility
- Claims Volume



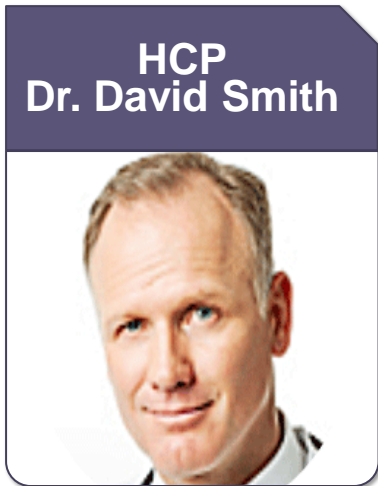
Dr. David Smith
Mental Healthcare
Provider



Current Solution Limitations



Mental Health Physician
Billing Medicaid – No Medicaid Identifier
Organization NPI – Group Practice
Claims Volume – 80% Practice Workload



- 24657895235256246578
 - 95235256789874533221
 - 655098745332215321
 - 46487947898745332215
 - 53263456224657895235
 - 655098745332215321
 - 34562246982925281946
 - 48794246982922465246
 - 532634562246982925
 - 22155326345622469829
 - 5281946487478952352
 - 50789874533221553263
 - 45622468292528194648
 - 452819464879124657
 - 89523525678987453322
 - 15532634562246982925
 - 2194648794
- ✗ Common Name
 - ✓ Common Specialty
 - ✗ Social Security or DOB
 - ✗ Credentials
 - ✗ Practice Locations



~~Match~~

Mental Health Physician
Billing Medicaid – Type 1 NPI Identifier
Affiliations - Group Practice, Hospital, LTC
Claims Volume – Consistent with Locations

The Power of Big Data

MDM in Action

Dr. D. L. Smith

Speciality	Mental Health
NPI #	707070111 (Type 2)
Medicaid ID #	Missing
State License #	Missing
Practice Location	260 West Street Nowhere, XX, 88888

Dr. David Smith

Speciality	Mental Health
NPI #	12353646 (Type 1)
Medicaid ID #	547757
State License #	123788
Practice Location	100 Main Street Anytown, XX, 99999

Extract,
Transform,
Load
(ETL)

Content Standardized

Consistent Naming

Addresses (CASS Certified)


Confirmed Place of Business

Geocoding

Locations 200 miles apart

Authoritative Sources and Actionable Insight


HCP
Dr. D. L. Smith



Speciality	Mental Health
NPI #	707070111 (Type 2)
Medicaid ID #	Missing
State License #	Missing
Practice Location	260 West Street Nowhere, XX, 88888

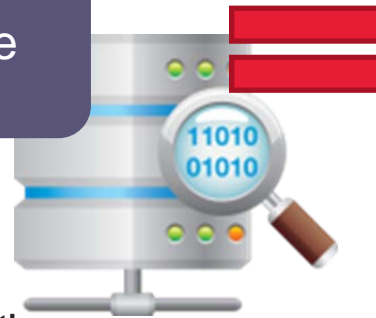
Authoritative
Source
Confirms
Provider &
Affiliation

HCP
Dr. David L. Smith




Match & Validate

Authoritative
Source



HCP
Dr. David L. Smith

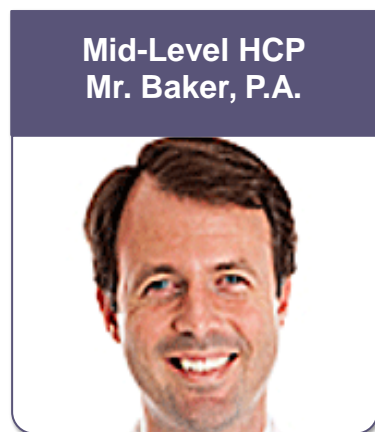


Speciality	Mental Health
NPI #	12353646 (Type 1)
Medicaid ID #	547757
State License #	123788
Practice Location	100 Main Street Anytown, XX, 99999

Authoritative Source Provides Actionable Insight

Authoritative Source

- Confirms additional practice location for Dr. Smith
- Identifies affiliated providers at second location



New insights

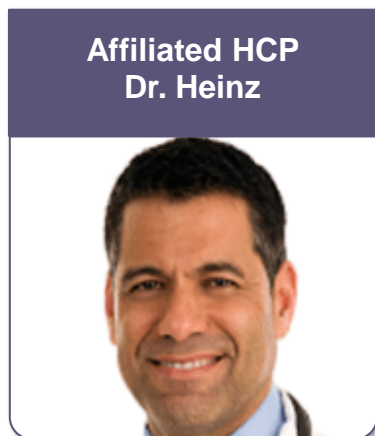
No claims for
Mid-level



Assessment

Dr. Smith is only
provider eligible to
bill state Medicaid

Site visit scheduled



Past Termination
Excluded from Federal Programs
Billing under the organization NPI
as Dr. D. L. Smith


Big Data Return

HCP



Dr. David L. Smith a.k.a. Dr. D. L. Smith

Site visit confirms
Dr. Heinz billing
under the org NPI
as Dr. D. L. Smith

 **DR. DAVID SMITH**  [Printer Friendly Version](#)

Details

Name: Smith, David L.	Address 1
Status: ACTIVE	Common Medical Center
Type: Physician	123 Common Drive
Specialty 1: Mental Health	Suite 201
	Ordinaryville, AnyState
Date of Birth: 02-26-1963	Phone 1: 111-111-1111
Type 1 NPI: 123-45678	Phone 2: 222-222-2222
UPIN: 123-45678	Fax 1: 333-333-3333
State Medicaid ID: [Redacted]	Fax 2: 444-444-4444
State License #: State 3: 123456	Common Medical Center 2
DEA Number: 123-456	288 Common Drive
DEA Number: 123-456	Typicalville, Anystate
Medicare Participant: Active	Phone 1: 111-111-1111
	Phone 2: 222-222-2222
	Fax 1: 333-333-3333
	Fax 2: 444-444-4444

STOP **Terminated**

Big Data Considerations

Data Integration Platform

✓	Extract, Transform, Load (ETL)	<ul style="list-style-type: none">• Ability to interface with any system• Batch, Transactional• Name & address standardization (CASS certified)
✓	Match	Deterministic and probabilistic matching algorithms
✓	Consolidate	Flexibility to select and persist best of breed provider attributes
✓	Publish	Distribute content in a consumable format

Authoritative Source



Authoritative Source and Actionable Insight

> 6 million Healthcare Providers

- Physicians (MD, DO)
- Dentists (DDS, DMD)
- Advanced Practice Nurses
- Optometrists
- Physician Assistants
- Podiatrists
- Veterinarians
- Assistive Providers
- Alternative Providers
- Behavioral Providers

> 1.4 million Healthcare Organizations

- Ambulance
- Ambulatory Care Centers
- Accountable Care Orgs
- Clinics
- Medical Equipment \ Supplies
- Extended Care
- Group Practices
- Hospitals
- Imaging
- Lab
- Pharmacy
- Research



Attributes (Current and Historical)

Name	Status	Schools Attended
Facility Type	Federal, State	Languages
Specialties	Sanctions	Accreditations
Credentials	DOB, DOD	Tax Id
State Licenses	DSH	Affiliations
DEA	340B	Medicaid
NPI	Practice Location	Participation

Data Governance

Key Features

■ Tiered Accessibility

- › Permissions by Role
- › Full Access - Administrator
- › Limited - Editor, Viewer

■ Rich Functionality

- › User portal for data review and maintenance
- › Transactional application performs real-time record updates



Entity Maintenance

- › Merging of duplicate entities
- › Split intertwined entities, e.g., Father-Son scenarios

■ Research and Analysis Tools

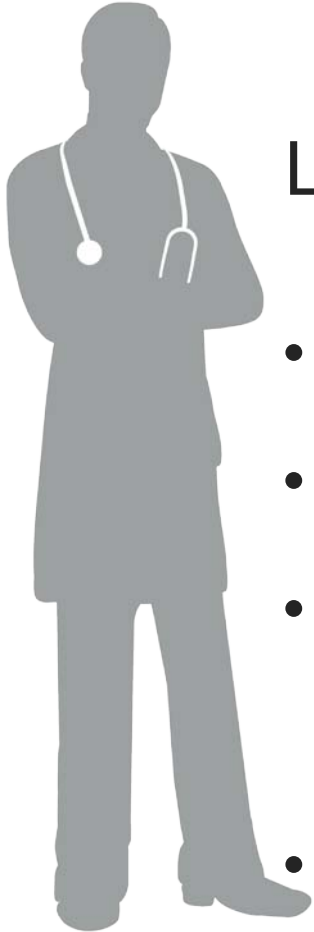
- › View raw source data contributing to the Golden Record
- › View link movement history

A screenshot of a web-based patient record interface. The header shows the patient's name, "DR. DAVID SMITH", and a "Printer Friendly Version" link. The main content area is titled "Details" and contains the following information:

Name: Smith, David L.	Address 1: Common Medical Center 123 Common Drive Suite 201 Ordinaryville, AnyState
Status: ACTIVE	Address 2: Common Medical Center 2 288 Common Drive Typicalville, Anystate
Type: Physician	Phone 1: 111-111-1111 Phone 2: 222-222-2222
Specialty 1: Mental Health	Fax 1: 333-333-3333 Fax 2: 444-444-4444
Date of Birth: 02-26-1963	E0102X: ilsm
Type 1 NPI: 123-45678 Active	
UPIN: 123-45678	
State License #: State 1: 12345 Active	
State License #: State 2: 12345 Active	
State License #: State 3: 12345 Terminated	
DEA Number: 123-456 Active	
DEA Number: 123-456 Inactive	
Medicare Participant: Active	Phone 1: 111-111-1111 Phone 2: 222-222-2222 Fax 1: 333-333-3333 Fax 2: 444-444-4444

Comparisons: On-premise and Hosted MDM

On-premise	Hosted
In-house resources to operate and maintain MDM solution	Reduced in-house resources need for fully-hosted customer MDM solution
Mature matching engine	Specialized matching engines
Infrastructure, software and hardware licensing are all managed internally or hosted by supplier	Infrastructure, software and hardware licensing are all managed by supplier
Deep MDM expertise required	Resources are freed to focus on other core business needs
Third party customer data source integration and ongoing quality demands managed by internal data experts	Native authoritative data source managed by Vendor
MDM business process partner needed to achieve corporate efficiency and compliance goals	Fully outsourced business processing improves corporate efficiency and supports compliance goals



Leveraging Big Data Technology

- High risk providers are identified and monitored for changes
- Fraud patterns and hidden partners are detected
- System capabilities streamline integration, powering analytics
- Overall costs associated with combating fraud are reduced

Thank You

