Monitoring data quality—
the hows and whys

Michelle Hood–NDHHS Office of Health Statistics
Jason Burmeister–DXC Technology

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Agenda

1. Nebraska State Immunization Information System (NESIIS) history

2. Maintaining data integrity

3. Goals and approach

4. Onboarding

5. Ongoing

6. Results

7. Onwards

8. Wrap

9. Q&A

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NESIIS history

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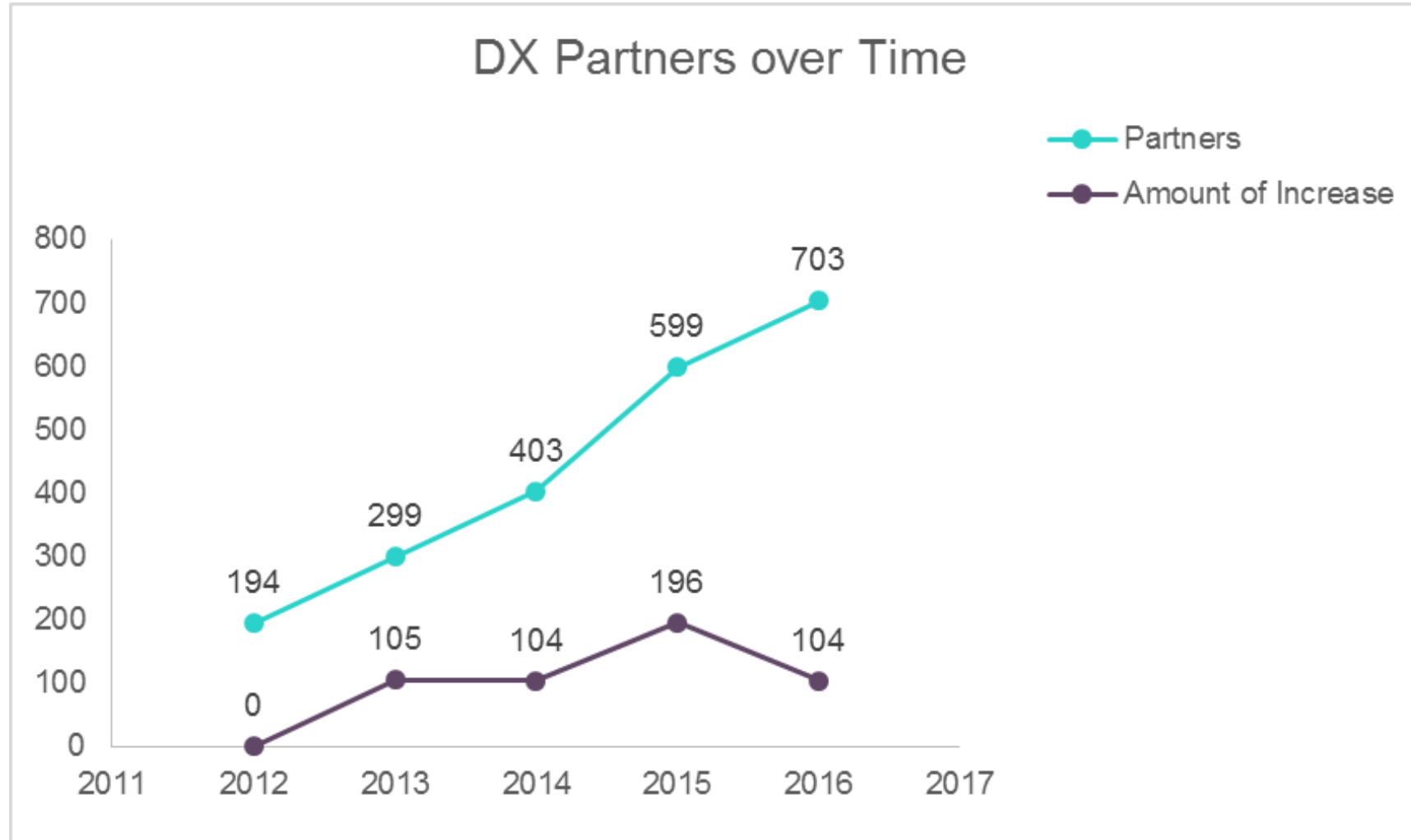
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NESIIS history

- **Secure, statewide, web-based system**

- **Been in place since March 2008**

- **Currently contains over 16,606,858 immunizations on over 1,967,309 clients**

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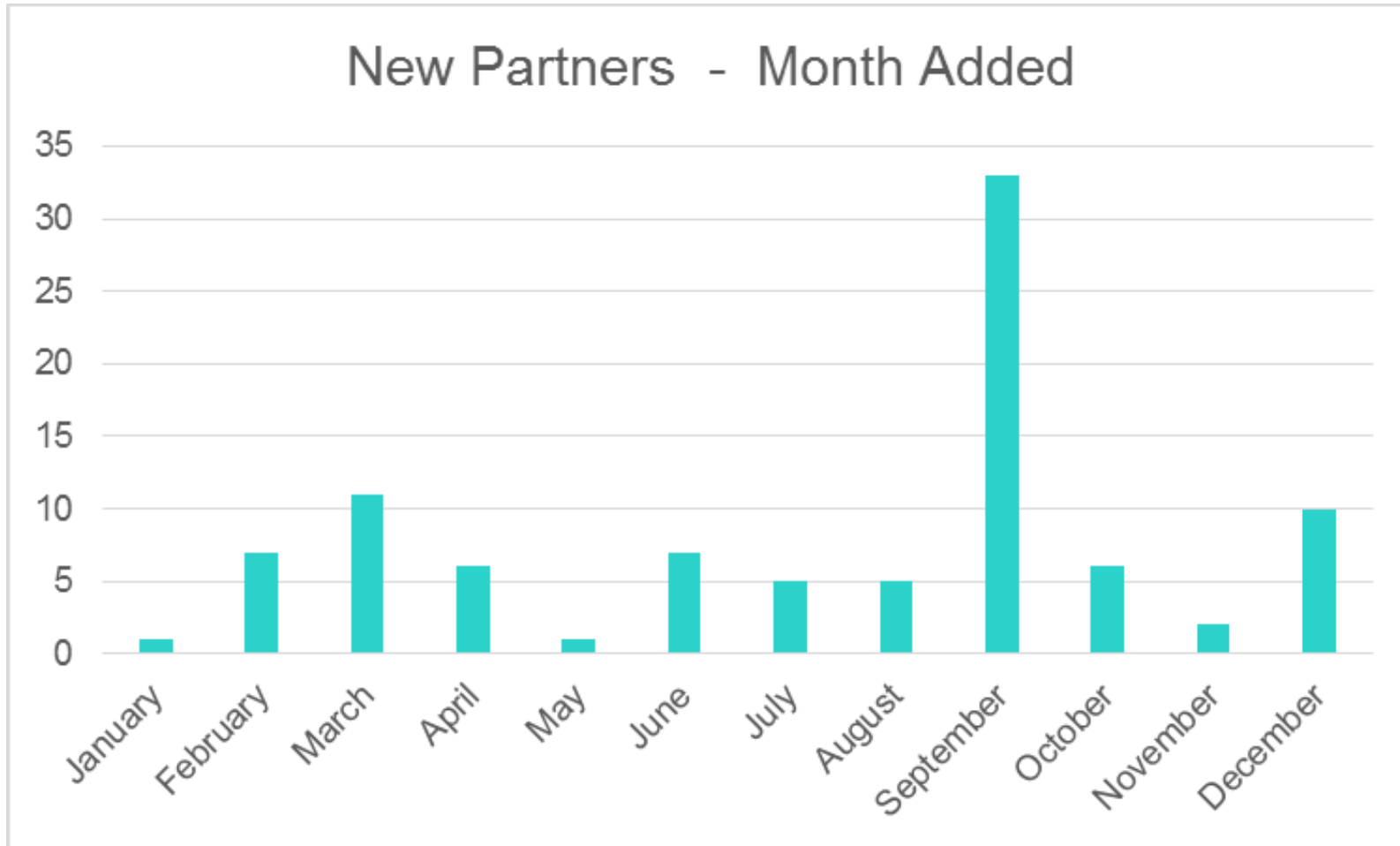DEPT. OF HEALTH AND HUMAN SERVICES

NESIIS history

- **Manual User Interface**
  - Dose administration entry
  - Inventory management
  - 2D barcode scanning
  - VFC Provider Enrollment
  - Flu Pre-booking
  - Reporting

- **Is capable of uni-directional and bi-directional data exchange**
- **Public Access Portal for individual record access**
- **No mandate to report**

NESIIS history

DX Partners over Time

NESIIS History

New Partners - Month Added

NESIIS added 94 new organizations in 2016, adding more than 30% during the month of September.

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NESIIS history

New Imms by Year

Year	New Imms
2012	524578
2013	1161289
2014	1039347
2015	1406749
2016	1596613
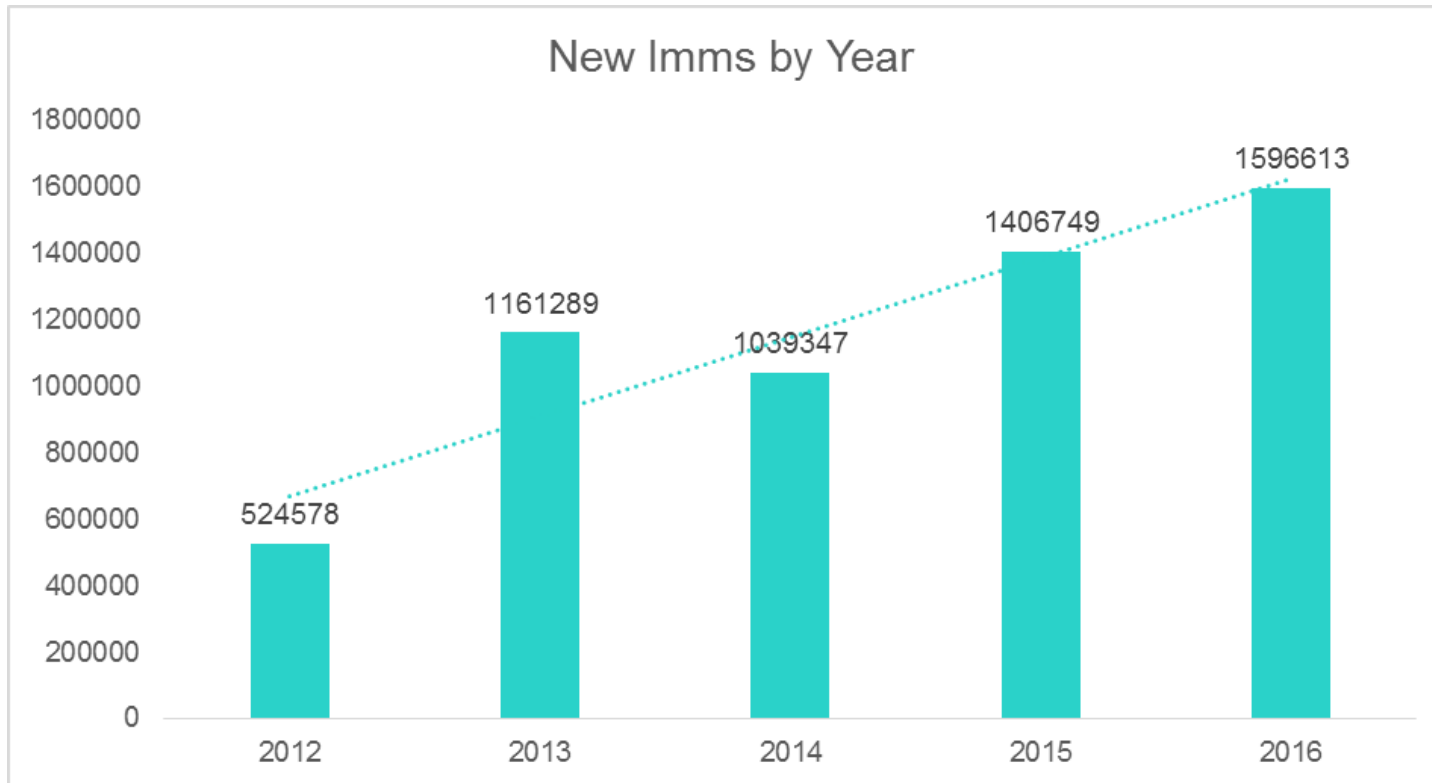
1,596,613 New Immunizations - 13.5% Increase over last year

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Maintaining data integrity

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Maintaining data integrity

Multiple phased approach:

Phase 1:

- Develop plan to monitor data frequency and timeliness
- Ensure providers continuously send data based off of their previous trends
- Allows us to track provider participation
- Allows us to determine population representativeness

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Maintaining data integrity:

Multiple phased approach:

Phase 2:

• Develop plan to monitor data quality and completeness

• Ensure providers continuously send good/appropriate data

• Allows us to track data quality issues

• Allows us to determine immunization completeness and rates

BUILD TRUST BY MAINTAINING DATA INTEGRITY!!!!

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Goals and approach

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Goals and approach

- **Goals**
  - Improve data monitoring and quality
  - Improve submission frequency and monitoring
  - Improve outreach and communication
  - Enhance reporting capabilities
  - Build a foundation for additional enhanced analysis/monitoring

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Goals and approach

- **Approach**
  - Track and analyze data exchange activity
  - Identify and eliminate roadblocks
  - Follow-up and continued communication

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Onboarding

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Onboarding

- **Work with the file creators—copy the decision makers**
- **Clear, consistent, firm guidelines**
- **Optimize testing**
- **Be responsive**

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Onboarding

Failed, 650

Processing, 3

Complete, 1,662,773

■ Complete ■ Failed ■ Processing

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Ongoing

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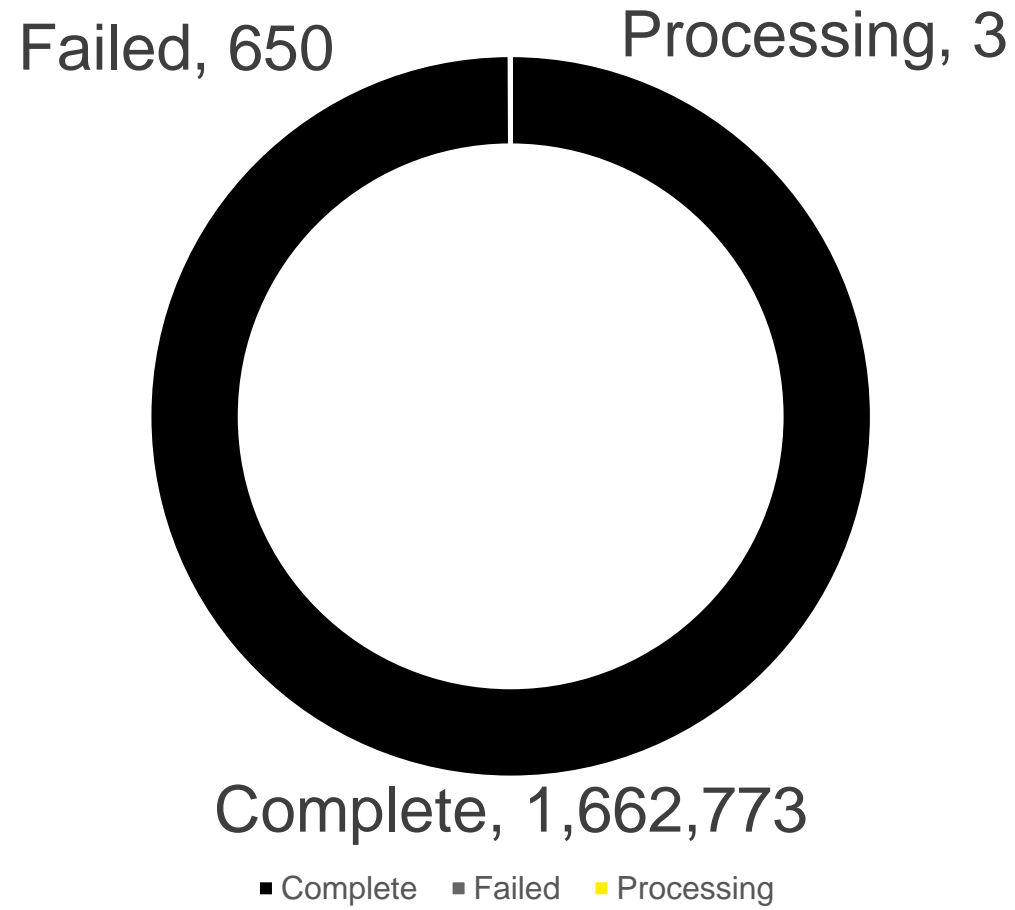
Ongoing

- **Monitor jobs**
  – Most organizations are submitting records continuously
  – Identify immediately if DX drops off

- **Monitor records**
  – Identify problems with the HL7 format/structure
  – Identify problem with the organization's data
  – Help new organizations establish quality data exchange

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Ongoing

- **Track job status and volume**
  - Completed
  - Failed (exception or error)
- **Track records**
  - Volume
  - Status (processed or rejected)
  - Rejection reasons
  - Trends
    - NESIIS Level
    - Vendor, parent, and organization-specific

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Ongoing

- **Initially reviewed randomly chosen samples**
- **New sample size determination process**
  - Achieve 95% confidence with 5% variance
  - Review at least 1 record per sending org
  - Actual number is proportional to orgs share of NESIIS rejections

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Ongoing

$s = X^2NP(1-P) \div d^2(N-1) + X^2P(1-P)$

s   = required sample size

X^2 = the table value of chi-square for 1 degree of freedom at the desired confidence level (3.841)

N = the population size

P = the population proportion (assumed to be .50 since this would provide the maximum sample size)

d = the degree of accuracy expressed as a proportion (.05)

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Ongoing

SAMPLE SIZE VS. TOTAL POPULATION

Assumes Standard Error = .05

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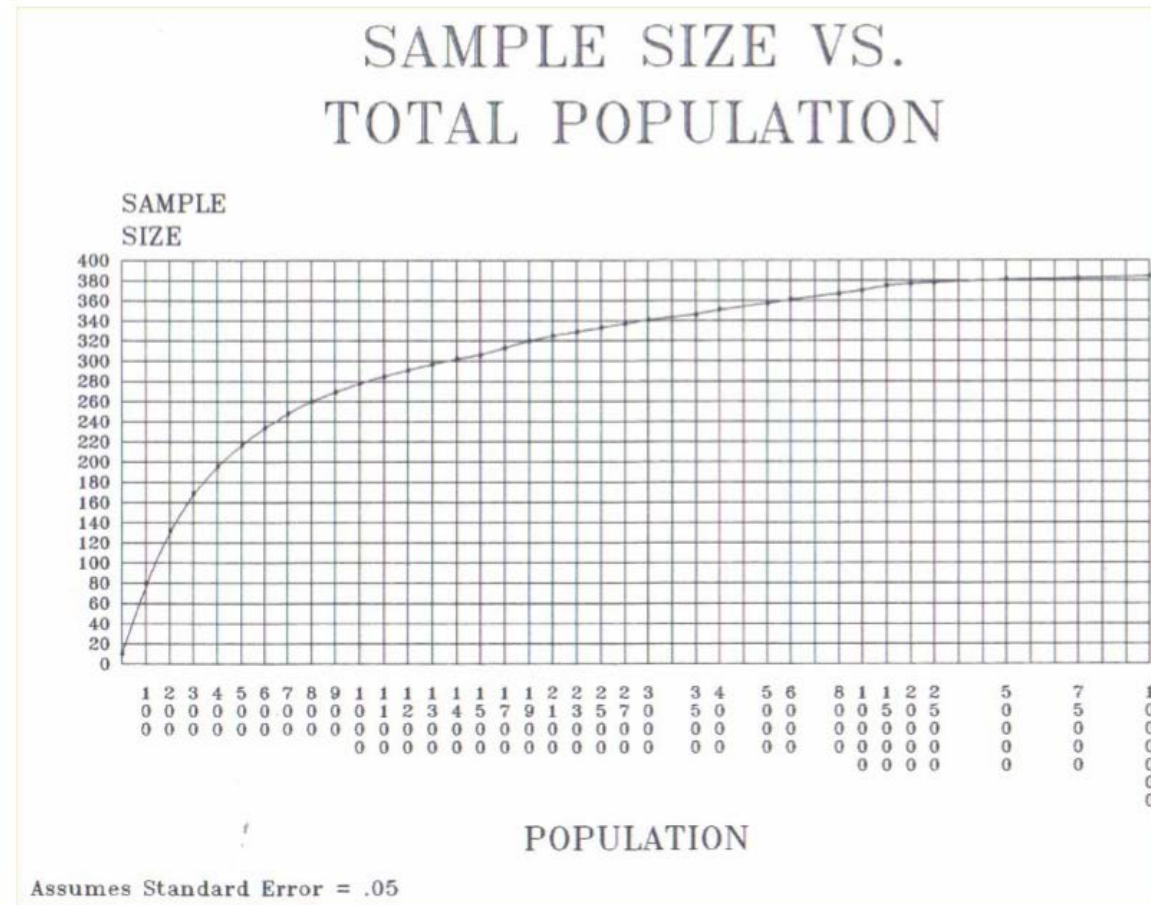
Ongoing

- **Review**
  – Rejected records
  – Rejected segments/fields
  – Specific invalid RXA-5 and MSH-4 values

Ongoing

Enter Date Range

Confirm Active Orgs

Open Rejects Tracking Form

Clear TBS

DXQ Deliverable

Add or Update DX Partners

View DX Partners

Import Job Statuses

Print   View

List-Append All Rejects

Process Sampled Data

DXQ Analysis

GO TO MAINTENANCE PAGE

Import Rejected Record Data

View   Print

Add Batch Data to RTT

Confirm Weekly Orgs Imms

Review RXA5 Text

High Level Imms Data

View   Print

Tools
- Desktop database
- Customized spreadsheets
- Macros
- Various data tables

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Ongoing

NESIIS New Org Totals		0	2793		0	14	11	0	3	0	0	0	0	0	0
Count of New Orgs		48													
New Org Name		Jobs	Imms	Rejected Imm	Sampled	RXA-5	RXA-6	PID-5	RXA-3	DUP	MSH-	ORC-	PID-7	Non-consen

Stats at a Glance

Jobs	Imm Records	Rejected	New Imms	Sampled	RXA5	RXA6	PID5	RXA3	MSH0	ORC3	PID7	Dup_	Non consent_	Unidentified_	Other_	MSH4
55474	130352	5390	53996	266	114	34	42	23				15				38

Stats at a glance

- Summarizes statistics at the IIS level
- Specific statistics are also summarized above each report table

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Ongoing

Vendor Table	Jobs	Imm Records	Rejected	New Imms	Sampled	RXA5	RXA6	PID5	RXA3	MSH0	ORC3	PID7	Dup_	Non consent_	Unidentified_	Other_	MSH4
Vendor 1	1	1	0	1													
Parent 1	1	1	0	1													
Provider 1	1	1	0	1													
Vendor 2	2098	2074	41	1363	95	53		41	1		0	0		0			
Vendor 3				0													
Vendor 4	5	1063	39	557	13						0	0	13	0			
Vendor 5	179	180	0	122													
Vendor 6	1389	5128	160	497	14	2					0	0	12	0			
Vendor 7				179	15	15					0	0		0			
Vendor 8	3186	6675	1554	2221	26				26		0	0		0			
Vendor 9	66	367	3	53	1			1			0	0		0			
Vendor 10	1519	1517	37	228	4			4			0	0		0			
Vendor 11	465	710	14	410	0						0	0		0			
Vendor 12	178	311	3	219	2	2					0	0		0			

Statistics by organization

- Summarized by vendor and parent groups
- Drill down capability

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Ongoing

Vendor Table	Jobs	Imm Records	Rejected	New Imms	Sampled	RXA5	RXA6	PID5	RXA3	MSH0	ORC3	PID7	Dup_	Non consent_	Unidentified_	Other_	MSH4
Vendor 1	1	1	0	1													
Parent 1	1	1	0	1													
Provider 1	1	1	0	1													
Vendor 2	2098	2074	41	1363	95	53		41	1		0	0		0			
Parent 2				191													
Provider 2				191													
Provider 3				0													
Parent 3				372	5	5					0	0		0			
Provider 4				0													
Provider 5				0													
Provider 6				0													
Provider 7				0													
Provider 8				62	1	1					0	0		0			
Provider 9				120	1	1					0	0		0			
Provider 10				22	3	3					0	0		0			
Provider 11				168													

Click once

- to view parents within vendor groups

Click again

- to view orgs within parent groups

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Ongoing

Org ID	Org Name	Org Short Name	Org Level	First Live DX Date	Parent	Vendor
1	Provider 1	AAAA	C/V	1/28/13	Parent 1	Vendor 1
2	Provider 2	AAAB	C/V	1/29/13	Parent 1	Vendor 1
3	Provider 3	AAAC	C/V	2/2/15	Parent 1	Vendor 1
4	Provider 4	AAAD	C/P	7/15/14	Parent 2	Vendor 2
5	Provider 5	AAAE	C/P	1/22/15	Parent 2	Vendor 2
6	Provider 6	AAAF	C/P	1/27/12	Parent 3	Vendor 3
7	Provider 7	AAAG	C/P	5/6/11	Parent 3	Vendor 3

Organization data:

- Org ID
- Org name
- Org short name
- First live DX date
- Parent
- Vendor

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Ongoing

COMPLET	Failed	Total Job	Percent Completed Job	Immunization Records	Rejected Imms	Percent Rejected Records for Sending Org	New Immunizations
							5
							15
28		28	100.00%	11			11
							42
							350
							204
							4
							27
							33
							60
7		7	100.00%	9	2	22.22%	5
							30
							323
							64
							11
53		53	100.00%	73			16
							209
							691
							395

Jobs Data:

- Complete
- Failed
- Total
- Percent Complete
- Imm Records
- Rejected Imms
- Percent Rejected
- New Imms

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Ongoing

Total Sampled Record	RXA-5	RXA-6	PID-5	RXA-3	MSH-0	ORC-3	PID-7	DUP	Non-consent	Unidentified	Other	MSH-4
1	1											
2				2								
23		23										
2	2											
5	4			1								
1				1								

Records data:

- Total Sampled
- RXA-5, RXA-6
- PID-5, RXA-3
- MSH-0, ORC-3
- PID-7, Dup
- Non-Consent
- Unidentified
- Other, MSH-4

Ongoing

Count of Orgs						89														
High Rejection Totals							6551	2422	40	22	0	11	5	0	0	2	0	0	0	0	0
Parent	Name	Vendor	Level	% Rejects	Imm Records	# Rejected	Sampled	RXA5	RXA6	PID5	RXA3	ORC3	PID7	DUP	Non-Consent	MSH0	Other	Unidentified	MSH-4
Parent 1	Provider 1	Vendor 1	P	24.73%	3392	839	0					0	0		0				
Parent 1	Provider 2	Vendor 1	C/P																
Parent 1	Provider 3	Vendor 1	C/P																
Parent 1	Provider 4	Vendor 1	C/P																
Parent 1	Provider 5	Vendor 1	C/P																
Parent 1	Provider 6	Vendor 1	C/P																
Parent 1	Provider 7	Vendor 1	C/P																
Parent 1	Provider 8	Vendor 1	C/P																

RXA-5 Rejection Reasons

Total RXA-5 Errors	84	
Rejection Reason	REC FAC	Total
CPT Code, Vaccine Group and Tradename are not a valid combination.	Provider 1	1
	Provider 2	1
	Provider 3	2
68 is an invalid CVX code	Provider 3	1
96 is an invalid CVX code	Provider 4	1

Count of Non-Submitters	246
ORG_ID	ORG_NAME
1	Provider 1
2	Provider 2
3	Provider 3
4	Provider 4
5	Provider 5
6	Provider 6

Watch areas:

- New orgs
- Non-Submitters
- Job with no Immunizations
- Failed jobs
- RXA-5 specifics
- High rejections

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Ongoing

Vendor Table	January	February	March	April	May	June	July	August	September	October	November	December
Vendor 1	60	21	0	0	0	0	0	0	0	0	0	0
Vendor 2	7773	6469	0	0	0	0	0	0	0	0	0	0
Vendor 3	1123	800	0	0	0	0	0	0	0	0	0	0
Vendor 4	666	611	0	0	0	0	0	0	0	0	0	0
Vendor 5	3095	2367	0	0	0	0	0	0	0	0	0	0
Vendor 6	11701	10107	0	0	0	0	0	0	0	0	0	0
Vendor 7	363	324	0	0	0	0	0	0	0	0	0	0

Stats at a glance

- Monthly immunizations counts
- Summarized by vendor and parent groups with drill down capacity

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Ongoing

Vendor Table	January	February	March	April	May	June	July	August	September	October	November	December
Vendor 1	**60**	**21**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Parent 1	**60**	**21**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Provider 1	60	21	0	0	0	0	0	0	0	0	0	0
Vendor 2	**7773**	**6469**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Parent 2	**1046**	**746**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Provider 2	1046	746	0	0	0	0	0	0	0	0	0	0
Provider 3	0	0	0	0	0	0	0	0	0	0	0	0
Parent 3	**2038**	**1687**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Provider 4	0	0	0	0	0	0	0	0	0	0	0	0
Provider 5	0	0	0	0	0	0	0	0	0	0	0	0
Provider 6	3	3	0	0	0	0	0	0	0	0	0	0
Provider 7	0	0	0	0	0	0	0	0	0	0	0	0
Provider 8	378	362	0	0	0	0	0	0	0	0	0	0
Provider 9	213	179	0	0	0	0	0	0	0	0	0	0
Provider 10	150	90	0	0	0	0	0	0	0	0	0	0
Provider 11	1294	1053	0	0	0	0	0	0	0	0	0	0

View:
- Parents within vendor groups
- Organizations within parent groups

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Ongoing

Org ID	Org Name	Org Level	Date Added	First Live DX Date	HL7 Version	Transaction Type	Parent	Vendor	Status	Dec-15	17-Jan
24277	Provider 1	C/V	11/24/2014	1/28/2013	2.5.1	PHINMS	Parent 1	Vendor 1	Active	0	0
24257	Provider 2	C/V	1/29/2013	1/29/2013	2.4	PHINMS	Parent 1	Vendor 1	Active	782	506
27777	Provider 3	C/V	2/18/2015	2/2/2015	2.5.1	PHINMS	Parent 1	Vendor 1	Active	4	3
25279	Provider 4	C/P	11/17/2014	7/15/2014	2.5.1	PHINMS	Parent 2	Vendor 2	Active	54	37
27771	Provider 5	C/P	2/5/2015	1/22/2015	2.5.1	PHINMS	Parent 2	Vendor 2	Active	976	982
18220	Provider 6	C/P	1/1/2012	1/27/2012	2.5.1	Web Service	Parent 3	Vendor 3	Active	2	0
20037	Provider 7	C/P	1/1/2012	5/6/2011	2.5.1	Web Service	Parent 3	Vendor 3	Active	1	1
25745	Provider 8	C/P	7/9/2014	7/2/2014	2.5.1	Web Service	Parent 3	Vendor 3	Active	0	0
25741	Provider 9	C/P	10/19/2015	10/2/2015	2.5.1	Web Service	Parent 3	Vendor 3	Active	0	0
25769	Provider 10	C/P	12/1/2013	12/1/2013	2.5.1	Web Service	Parent 3	Vendor 3	Active	37	37

Monthly items:
- Org ID
- Org level
- First live DX date
- Transaction type
- Status
- Org name
- Date added
- HL7 version
- Parent/vendor
- Monthly imms

Ongoing

NESIIS Totals					
Org Name	Org ID	New Imms With No Elig	100% Null Elig	Children with Adult Elig	Adults with Child Elig
		30170	21723	68	406
				474	
Count of Organizations	704	181	81	8	43

Org Name	Org ID	New Imms With No Elig	100% Null Elig	Children with Adult Elig	Adults with Child Elig
Provider 1	1				
Provider 2	2				
Provider 3	3				
Provider 4	4	29	29		
Provider 5	5	398			
Provider 6	6				
Provider 7	7				
Provider 8	8				

Records counts of:

- No eligibility data
- Incorrect eligibility data

Ongoing

NESIIS Totals												
Org Name	Org ID	January	February	March	April	May	June	July	August	September	October	November	December
		32748	30170	0	0	0	0	0	0	0	0	0	0
Count of Orgs	705												

Org Name	Org ID	January	February	March	April	May	June	July	August	September	October	November	December
Provider 1	1			0	0	0	0	0	0	0	0	0	0
Provider 2	2			0	0	0	0	0	0	0	0	0	0
Provider 3	3			0	0	0	0	0	0	0	0	0	0
Provider 4	4	37	29	0	0	0	0	0	0	0	0	0	0
Provider 5	5	511	398	0	0	0	0	0	0	0	0	0	0

Month to month, from January to the current month

Ongoing

Org Name	Org ID	January Immunizations	January Eligibility	January Ratio	February Immunizations	February Eligibility	February Ratio
Provider 1	1	0			0		
Provider 1	2	506			472		
Provider 1	3	3			17		
Provider 1	4	37	37	100.00%	31	29	93.55%
Provider 1	5	982	511	52.04%	731	398	54.45
Provider 1	6	0			0		
Provider 1	7	1			0		
Provider 1	8	0			0		
Provider 1	9	0			0		
Provider 1	10	37			17		
Provider 1	11	5			8		
Provider 1	12	0			0		

Compares total immunizations submitted to immunizations submitted with no eligibility data

Ongoing

Filter to Increases					
Org ID	Org Name	Dec to Jan Change	Dec to Jan Rate of change	Jan to Feb Change	Jan to Feb Rate of Change
				>0	
Count		122			
			December to January	January to February	
Org ID	Org Name	Dec to Jan Change	Dec to Jan Rate of change	Jan to Feb Change	Jan to Feb Rate of Change
1	Provider 1	-1	0	14	466.67%
2	Provider 2	-1	0	3	60.00%
3	Provider 3	-5	0	26	152.94%
4	Provider 4	-13	-1	7	233.33%
5	Provider 5	-2	-1	2	100.00%
6	Provider 6	39	1	47	64.38%
7	Provider 7	8	0	56	94.92%
8	Provider 8	-11	-1	66	

Org ID	Org Name	Org Level	Date Added	First Live DX Date	HL7 Version	Transaction Type	Parent	Vendor	Status	Dec-15	17-Jan
24277	Provider 1	C/V	11/24/2014	1/28/2013	2.5.1	PHINMS	Parent 1	Vendor 1	Active	0	0
18220	Provider 2	C/P		1/1/2012	1/27/2012 2.5.1	Web Service	Parent 1	Vendor 2	Active	2	0
20037	Provider 3	C/P		1/1/2012	5/6/2011 2.5.1	Web Service	Parent 1	Vendor 2	Active	1	1
25745	Provider 4	C/P		7/9/2014	7/2/2014 2.5.1	Web Service	Parent 1	Vendor 2	Active	0	0
25741	Provider 5	C/P		10/19/2015	10/2/2015 2.5.1	Web Service	Parent 1	Vendor 2	Active	0	0
25740	Provider 6	C/P		12/1/2013	12/1/2013 2.5.1	Web Service	Parent 1	Vendor 2	Active	0	0
19997	Provider 7	C/P		1/1/2012	5/6/2011 2.5.1	Web Service	Parent 1	Vendor 2	Active	0	0

Watch areas:

- Rate of change month over month
- Increases
- Decreases
- Zero imms for the month

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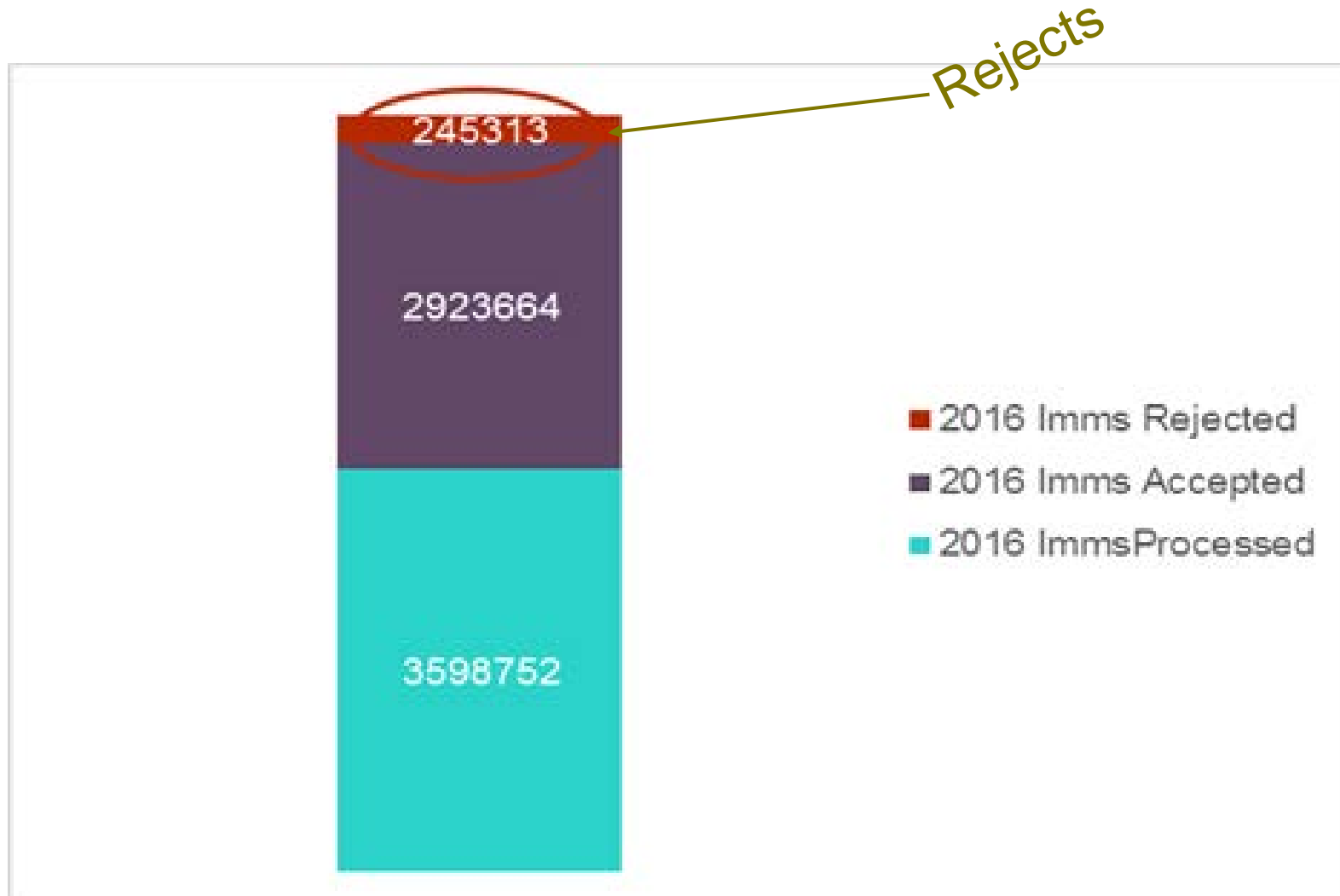# Ongoing

- **Actions**
  - Timely feedback
  - Monitor responses (timeliness, accuracy, understanding)
  - Follow up as needed

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Results

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Results

Rejects

245313

2923664

3598752

- 2016 Imms Rejected
- 2016 Imms Accepted
- 2016 ImmsProcessed

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Results

- **Website listing of participating facilities**
- **Administrative updates to directors and legislators**
- **Coordination with other meaningful use measures**
- **Internal data exchange promotion and recruitment**

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Results

- **Provider participation rates**

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Onwards

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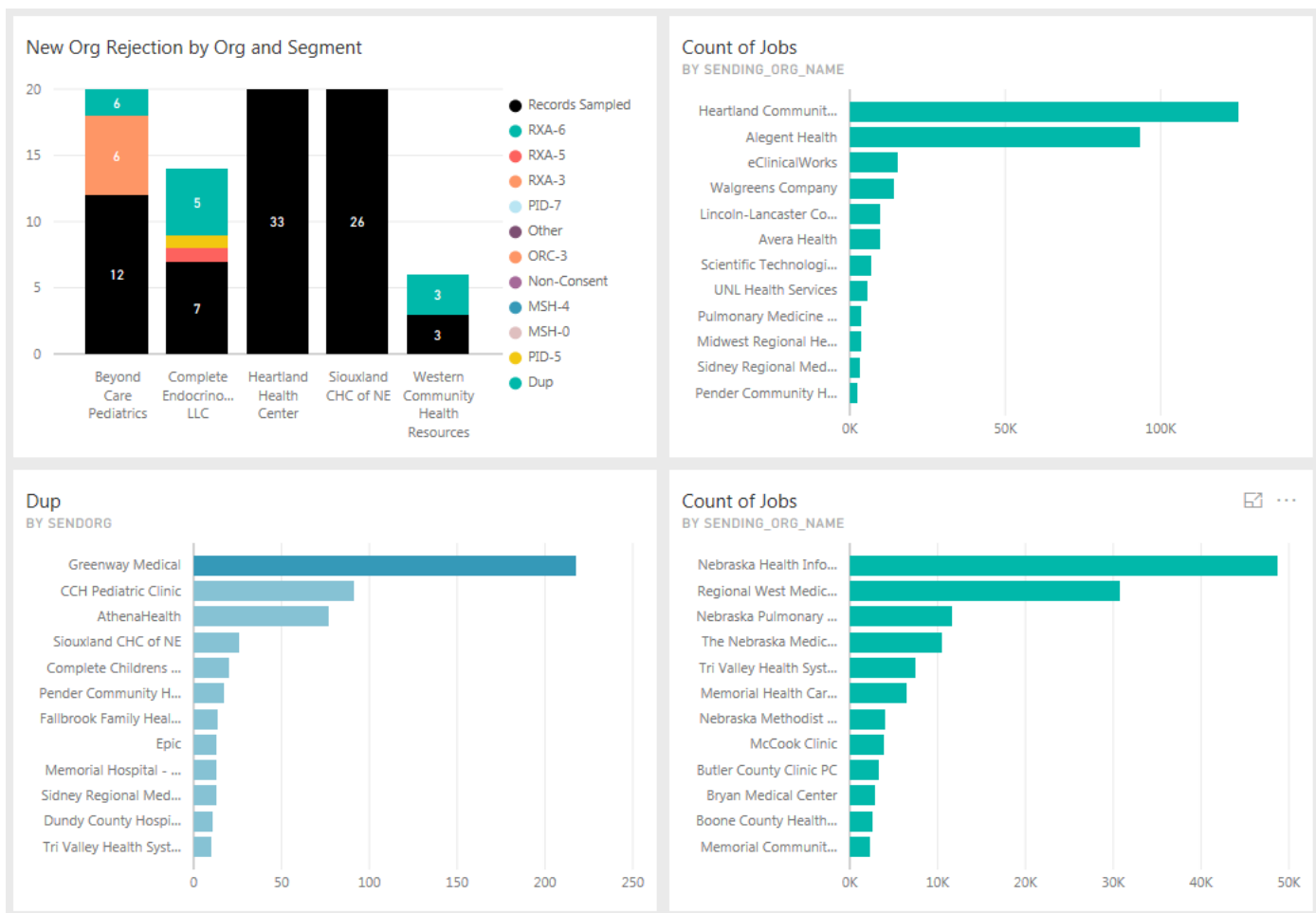
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Onwards

- **NE Medicaid and Managed Care Unit**
- **Project tracking tool**
- **Attestation verification**
- **Public health role in the MU process**

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Onwards

Power BI

Data exchange scanning tool

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Wrap

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Wrap

- **Drive Successful Data Exchange Relationships**
  - Improve data quality
  - Improve submission frequency
  - Improve outreach and communication
  - Improve reporting capabilities
  - Improve monitoring capabilities

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Q&A

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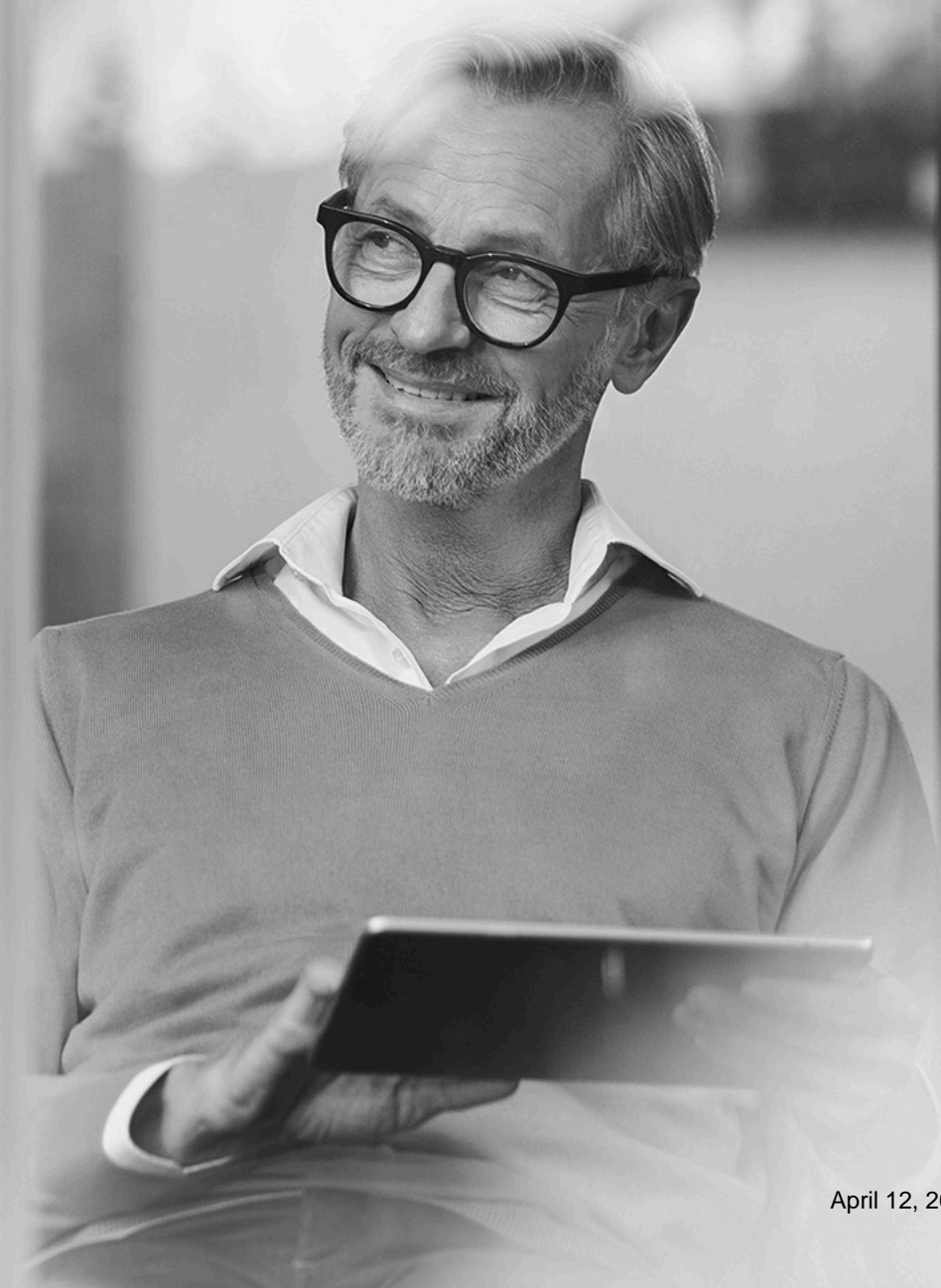
Thank you

Michelle Hood, Administrator
NDHHS Office of Health Statistics
402-471-0147
michelle.hood@nebraska.gov

Jason Burmeister, Project Manager
DXC Technology
608-421-6016
jason.burmeister@dxc.com

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