DRVS Data Voyage

How does this thing work anyways?

PRESENTED BY:

Philip Parker

SVP, Client Analytics

ALONG WITH

Everyone who has ever worked at Azara



Agenda – What's in the Black Box





EHR DATA

Practice staff enter data into the EHR



AZARA DOES SOMETHING WITH IT

We will be talking about this part today!



DRVS

DRVS Reports, Measures, and other Features are Available

Actual Agenda

CONNECTORS

What ships EHR data to Azara

DADMIN

Azara's beloved internal control tool

AZARA'S DATA WAREHOUSE

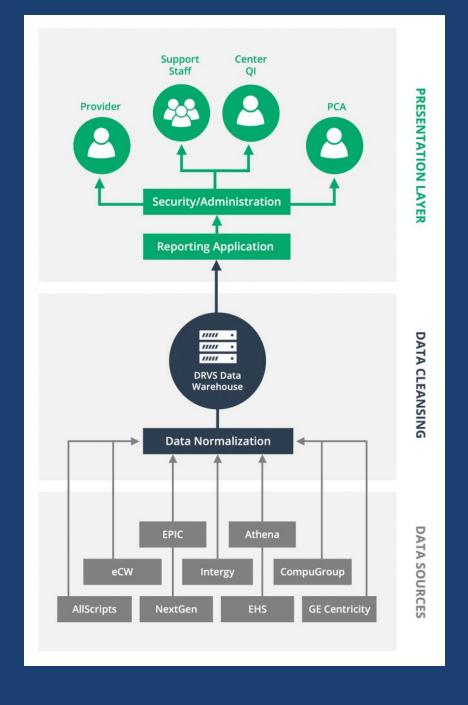
Where we keep all the data

MEASURES, REPORTS, ETC.

The logic that's applied to the data

THE API & FRONT END

How you see the data





Connectors & How We Get Data

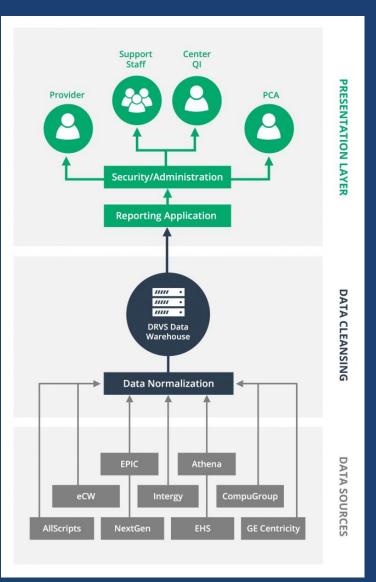


Azara's EHR Connections, Visualized





...and onwards, we connect to 30+ EHR types





The Connector

Lives in the source environment

"Phones home" regularly for instructions

Designed to pull data incrementally

Ships data via SFTP back to Azara

Azara's EHR Connections, Visualized 1 2024







Tenant Architecture



DAdmin



azara healthcare	DAdmin	Data Sources →	Connectors -	Report Admin	Core ETL Journal	ob+ Security+ L	ogs + Products +	PRD V	Help Log off
								Search:	
Tenant	♠ DbServe	rAlias 🛊 Last	t Start 🕴 La	ast End 🕴 N	Next Run 🛊	Core ETL Job Status	Connectors	Data Extracts	Actions \$
AACHC	az-prd-sq	ıl15 04/2	5 09:30 AM 04	4/25 09:34 AM 0	04/25 12:00 PM	✓	0 2	•	Actions ▼
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AL	az-prd-sq	119 04/2	5 10:00 AM	0	04/25 01:00 PM	00:00:36 115%	-	✓	Actions ▼
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СВНА	az-prd-sq	115 04/2	5 10:00 AM	0	04/25 10:25 AM	00:00:30	✓	0 1	Actions ▼





Interfaces &







LOINC Mapping

Lab data is critical to population health

Measures require codes, LOINCs for labs specifically

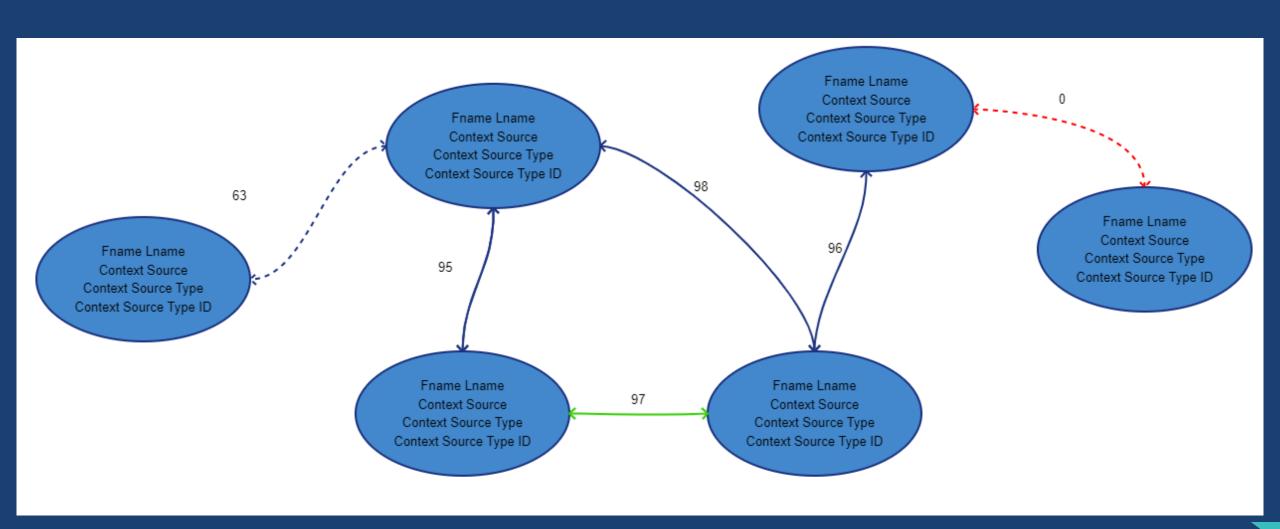
A large segment of lab data comes over with missing or bad codes

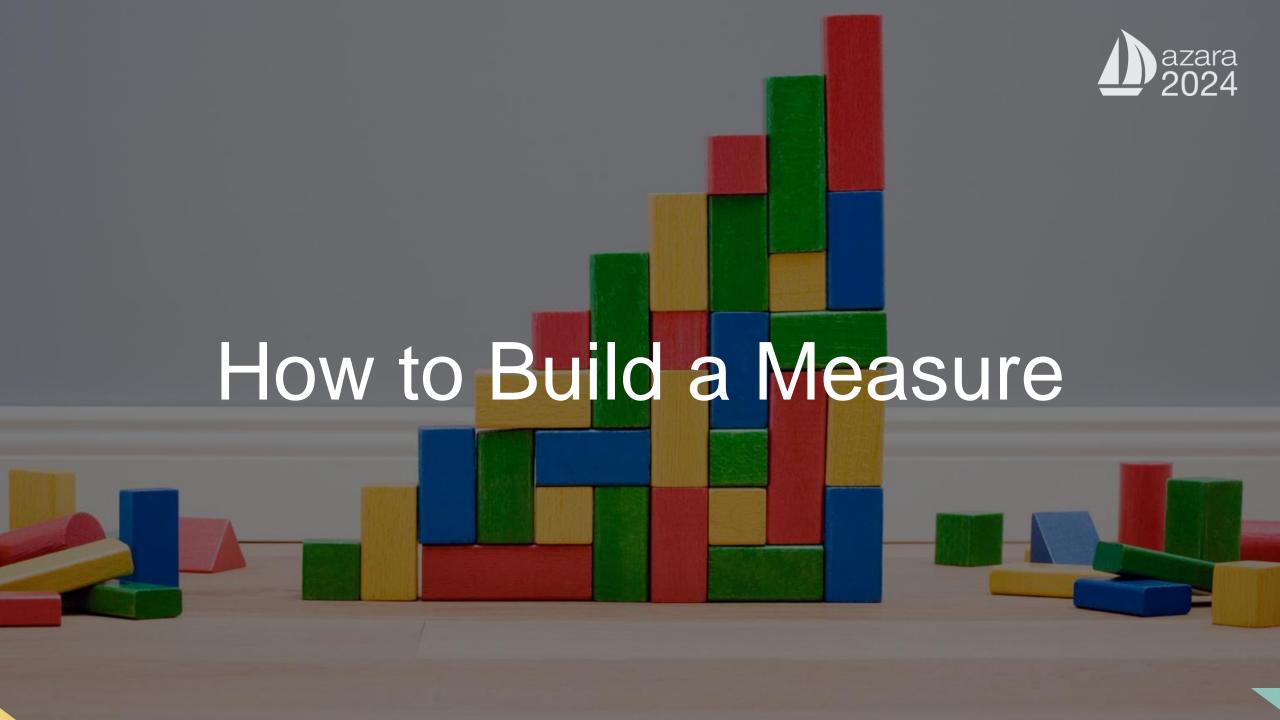
Azara uses Al/ML technology to assist us in mapping labs to LOINC codes



E Pluribus Unum - MPI

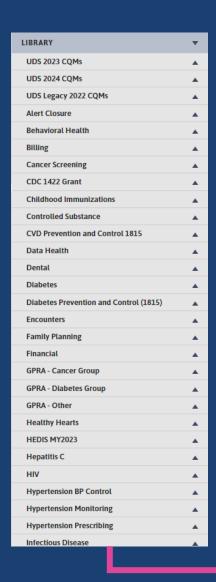






Azara Measure Suite







Technically, Azara has 1,000+ measures

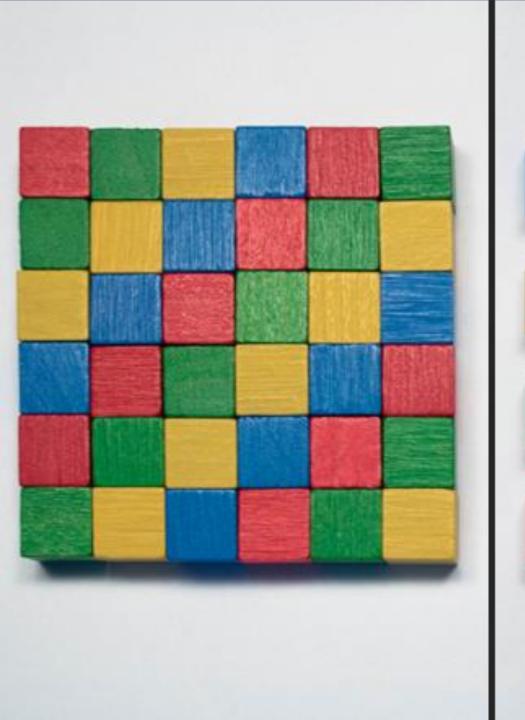
- Many versions of the same measure
- Many retired measures

Azara pre-aggregates (processes) measures

- Weekly, generally on weekends
- Some exceptions to this rule

We also process measures for dozens of period types and periods

- Years
- Quarters
- Months
- Etc.





Building Blocks – "Observations"

Calculating all measures individually would be impossible (we tried)

Many measures share logic

- Patient must have Diabetes
- Most Recent Encounter

We can first build these "observation" building blocks, then use them in measures

Observation = curated data point





Not Just Building Blocks

Observations are useful in their own right, and power many of Azara's other features:

- Registries
- Alerts
- Filters
- Azara Patient Outreach (Texting)

ALERT	MESSAGE	DATE	RESULT
A1c	Overdue	3/25/2023	9.3
LDL	Overdue	3/25/2023	187
Depression Screen	Overdue	3/25/2023	Negative
Tobacco Scr	Overdue	3/25/2023	Υ
BMI & FU	Overdue		
BP	Overdue	3/25/2023	135/88
Asth Severity	Overdue	1/12/2023	
Foot	Overdue	1/12/2023	Υ
E/D Encounter	Occurred	4/27/2024	St. Josephs Hospital

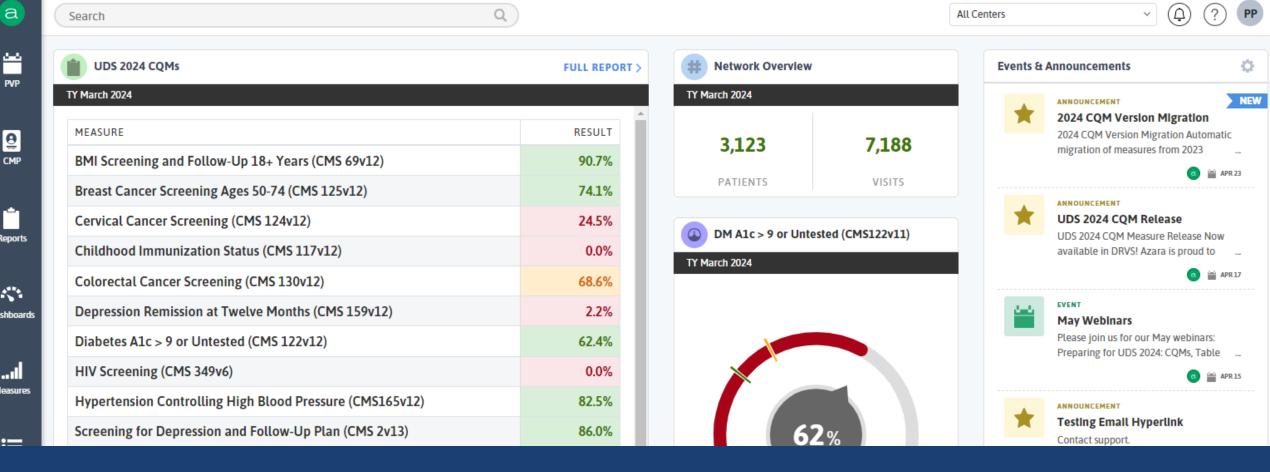
API

Before you ask, it is not public (maybe someday!)

What is an API?

Structured method of interacting with a database



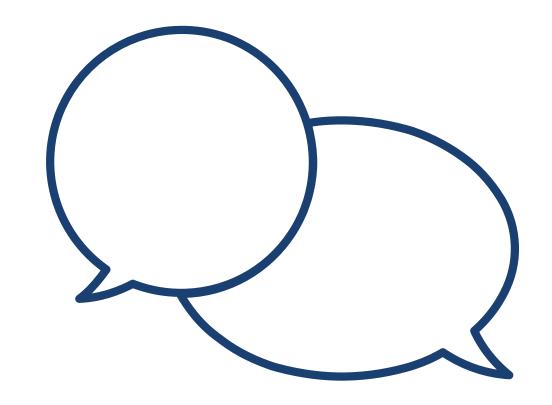


Finally, DRVS!

Custom built front end

10,000+ Monthly Active Users

Questions?

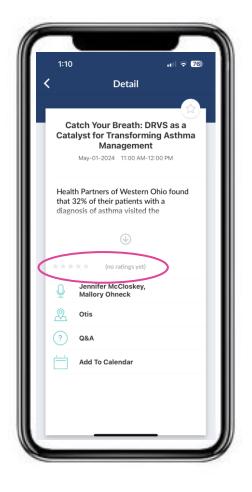




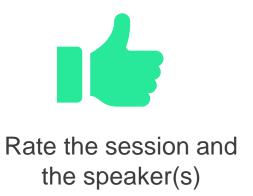


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Provide brief feedback or ideas

