AMDIS Presentation

BRADLEY HUNTER RESEARCH DIRECTOR, KLAS RESEARCH

© Copyright KLAS 20:

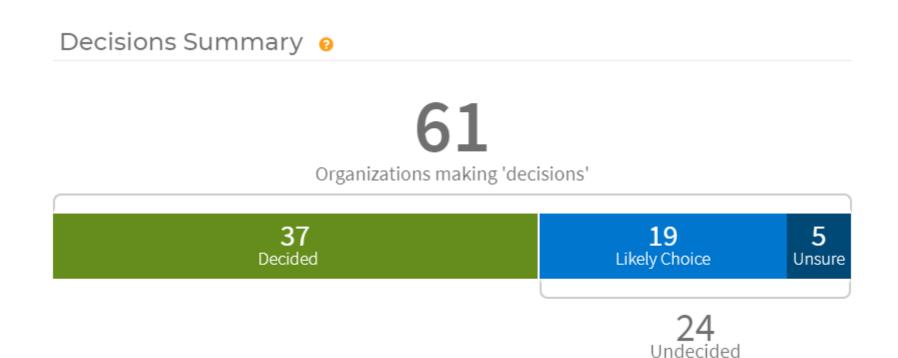
KLAS



Decision Insights

KLAS[®] Decision Insights

Population Health



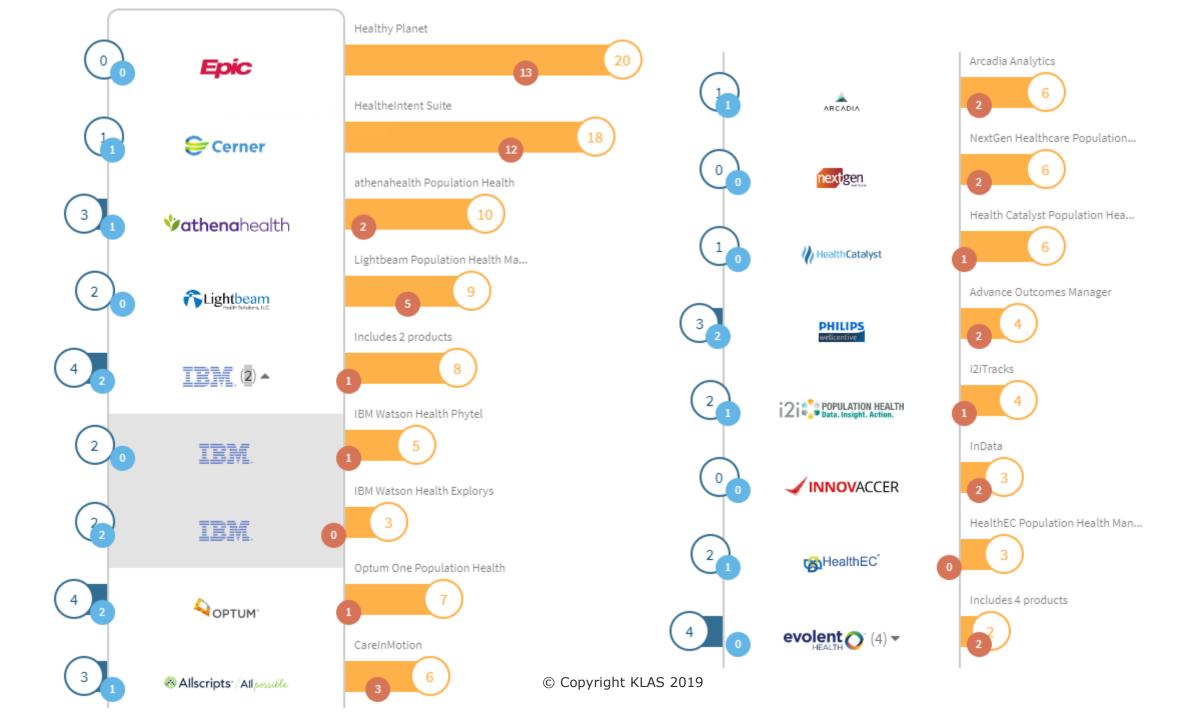
KLAS[®] Decision Insights

Orientation

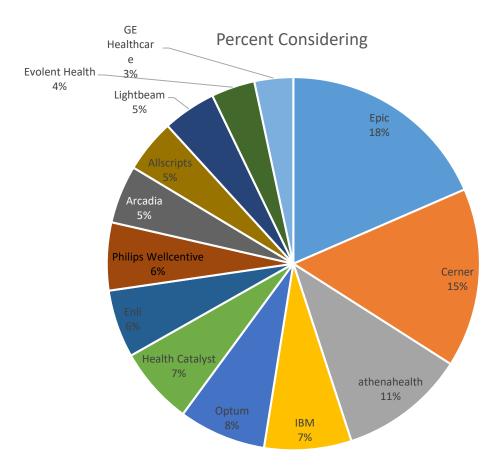


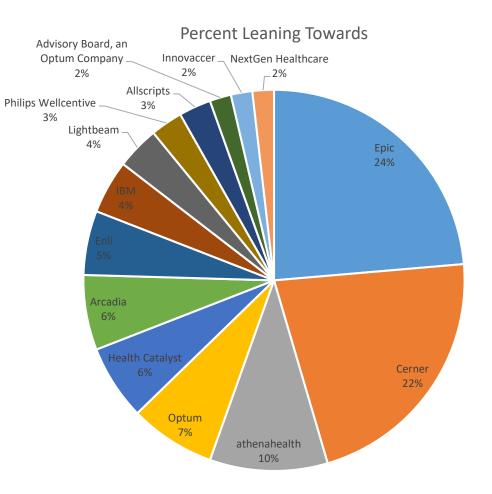






KLAS[®] Vendors Being Considered and Chosen

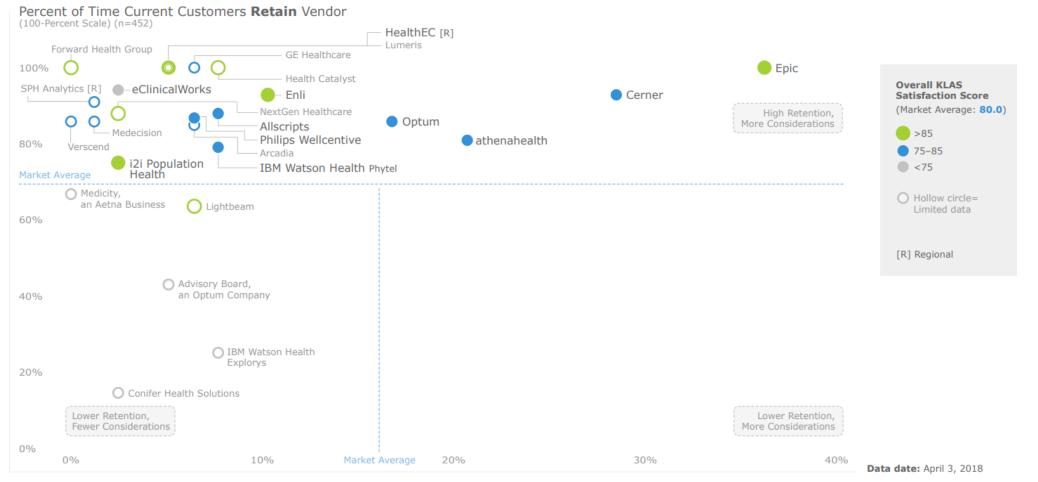




© Copyright KLAS 2019

KLAS[®] Why are Pop Health Solutions Being Replaced?

Retention vs. Consideration



Percent of Potential Customers That **Consider** Vendor (n=77)

KLAS[®] Why are Pop Health Solutions Being Replaced?

What Drives New Energy?

Number of Responses:

The top reasons vendors are considered in a PHM purchase are product functionality and market forces (e.g., hospital consolidation and platform standardization). Company culture and customer relationships are the next-most-often mentioned reasons vendors make an organization's short list.

2 01

31

Reasons	for	Win
---------	-----	-----

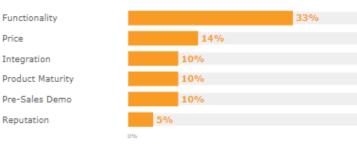


Epic considerations are being driven by the fact that the product has now reached a viable maturity level. something that wasn't the case as recently as a year ago. athenahealth is seen as offering good value. Strong relationships drive considerations of Philips Wellcentive. Vendors drive better value when they help customers deploy functionality to address specific challenges or goals.

Despite continued development, Allscripts, athenahealth, Cerner, and Epic are viewed by some provider organizations as still immature in PHM. When established PHM vendor Evolent Health is not selected, it is often due to the cost of their managed services business model. Organizations that pass on Health Catalyst, a recent PHM entrant, often do so because they feel the system is more complex than they need or can implement.



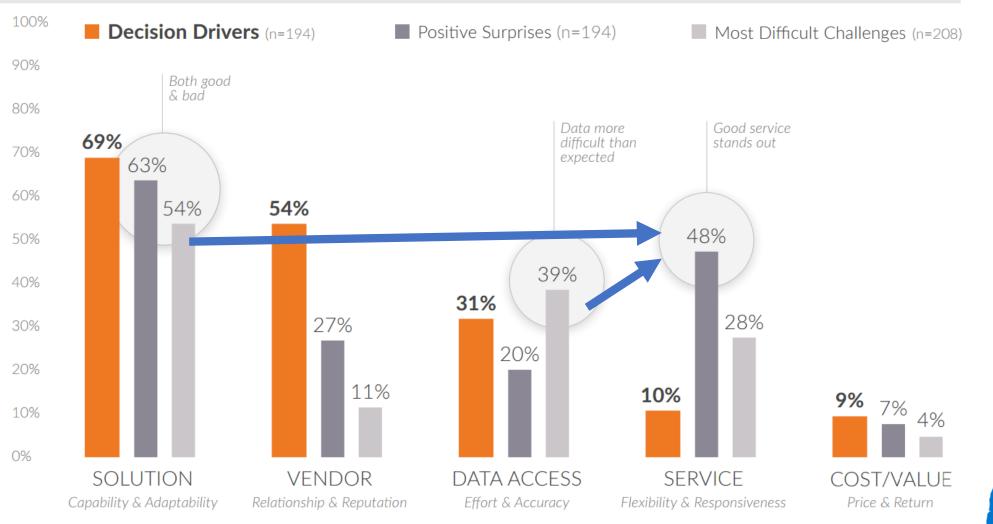
Price



Less than 5%: Implementation, system design, business model, current experience, expertise, product flexibility, promises, responsiveness, embivalance, facility too small, post-sales responsiveness, pre-sales contracting, prior experience, references, road map, sales, technology, vendor stability, vision, and workflow.

KLAS[®] What distinguishes vendors?

SELECTION CRITERIA VERSUS REALITY



KLAS® No one can do everything

We evaluated 12 different pop health vendors and we narrowed it down to 3 and ended picking the one that met our current needs and that is to do care management. One thing we learned was that no one *can do everything.* They all had their various strengths and weaknesses. We were looking for a tool that can pull data from other EMR's outside our core EMR. We will still leverage our EMR's Pop Health tools, but none of the tools out there can do everything that we need them to do. So we will likely continue to use multiple tools.

- VP of Population Health



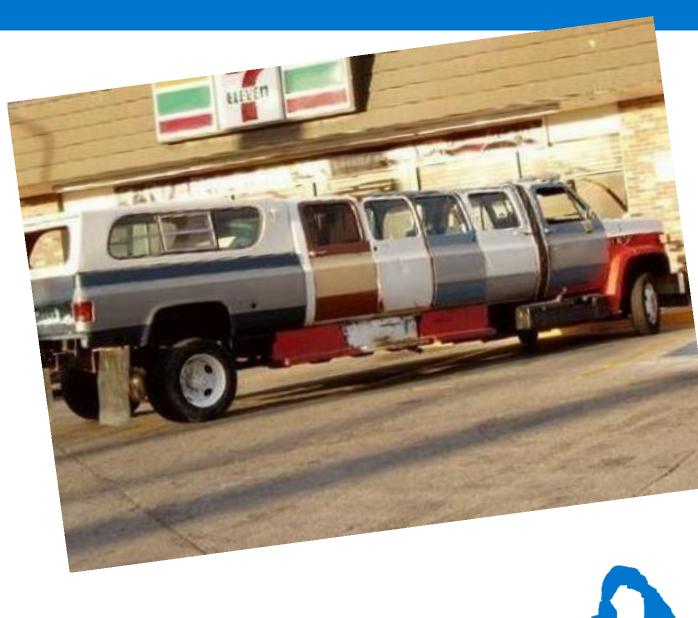
KLAS[®] Not Uncommon

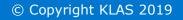
"We are using several different tools. **Humedica**, with their recent upgrade, is more robust. They now have predictive analytics for COPD, diabetes, and coronary heart failure.

We have **Epic as our EMR**, and we pull data out of there for population management. We also use **Epic Clarity** for registries.

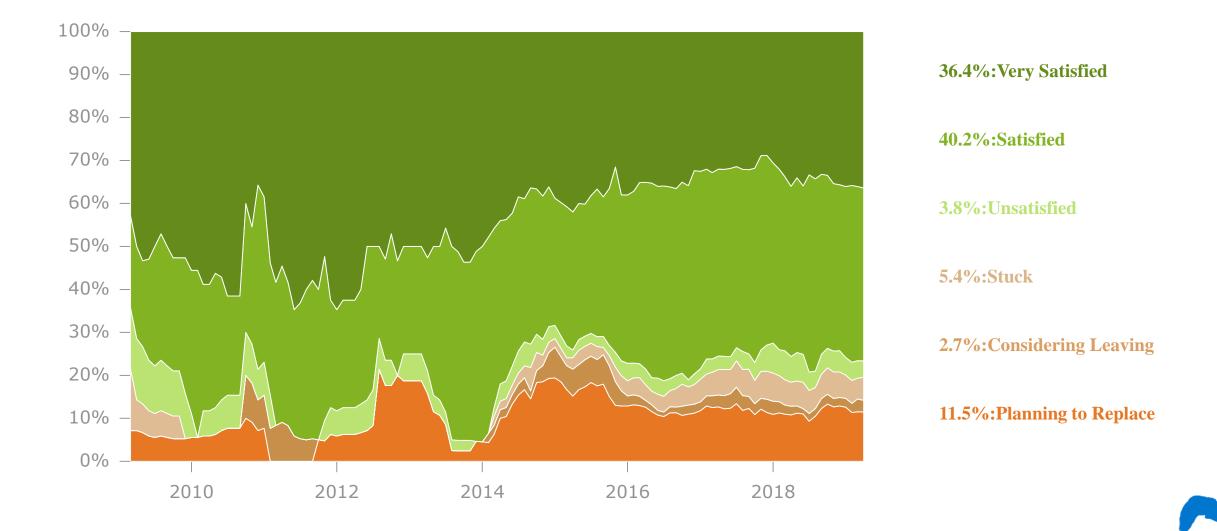
We pull financial information from **Crimson** by The Advisory Board so we can look at our patients who have been discharged from the hospital and get them in for follow-up care.

We will be using **Medventive** with our clinicallyintegrated network for data aggregation. We have people that are out on different EMRs. They are not all on Epic. We are going to have to gather all that data together, and that is what they are helping us with."





KLAS[®] Organizational Plans Chart



© Copyright KLAS 2019

KLAS[®] Population Health Combined Vulnerability



© Copyright KLAS 2019



Aggregation and Analytics

Cerner

Aggregation and Analytics



Care Management

⊗ Allscripts ' / All possible

Aggregation and Analytics

vathenahealth

Mixed Bag



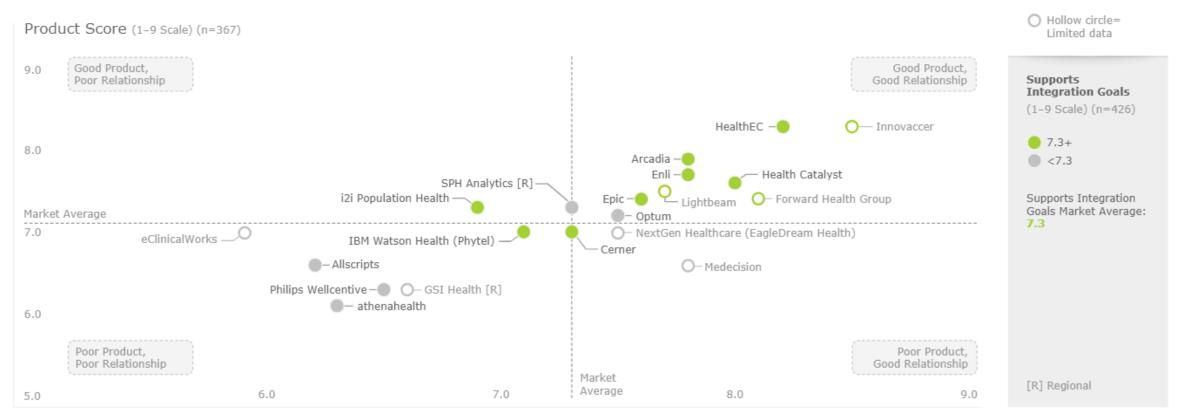
What are Providers Looking For?

PARTNERING

What Metrics Are Used to Measure Vendor Partnering?

In over 20 years of HIT research, KLAS has observed that a few core metrics form the main factors in whether a vendor is a strong partner. Some of these are obvious, like strong executive relationships or proactive support, while others, like delivering new, high-quality technology and providing strong integration, are less intuitive but just as indicative of a partnering approach.

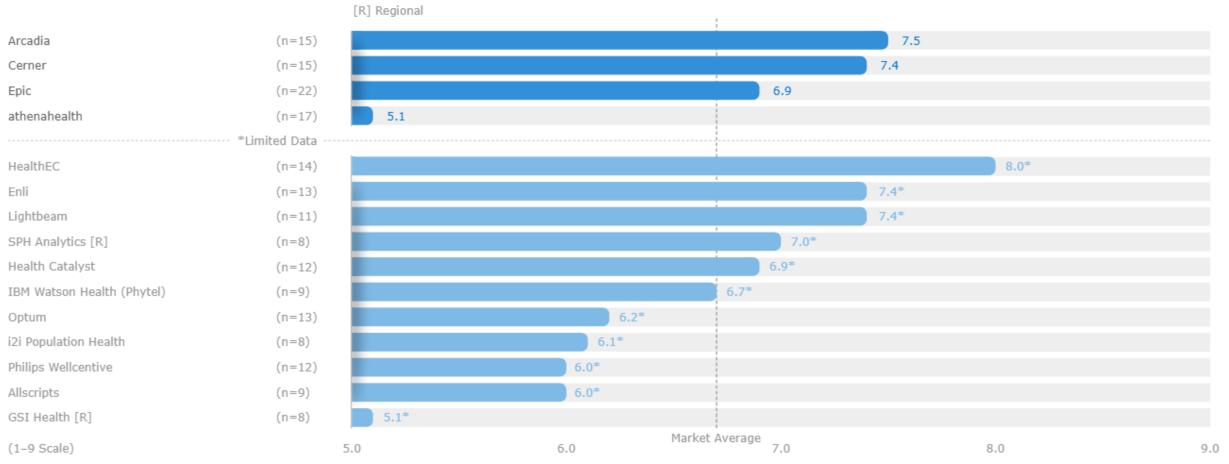
Strength of Partnership



Relationship Score (1-9 Scale) (n=354)

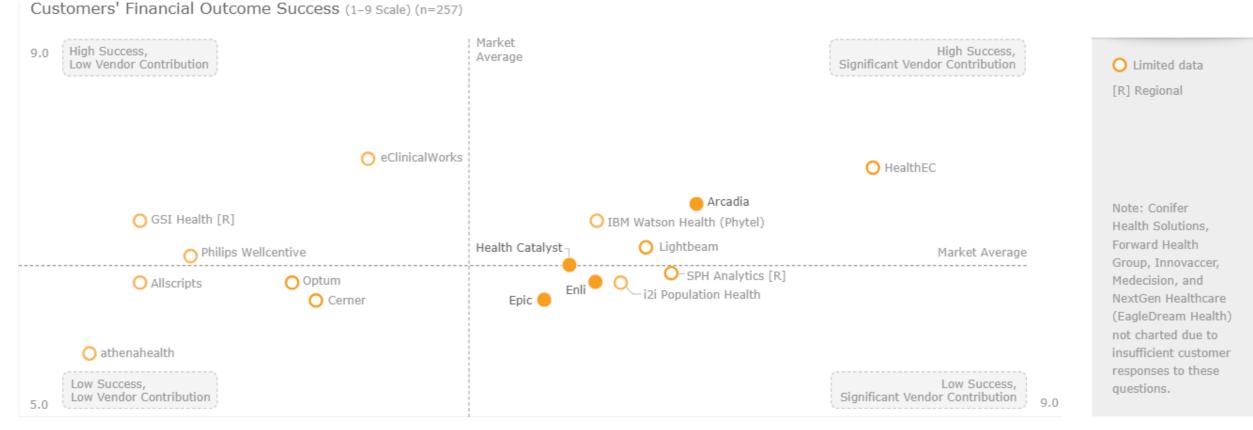
Note: Conifer Health Solutions not charted due to insufficient customer responses to these questions.

Strategic Guidance



FINANCIAL OUTCOME SUCCESS

Financial Outcome Success

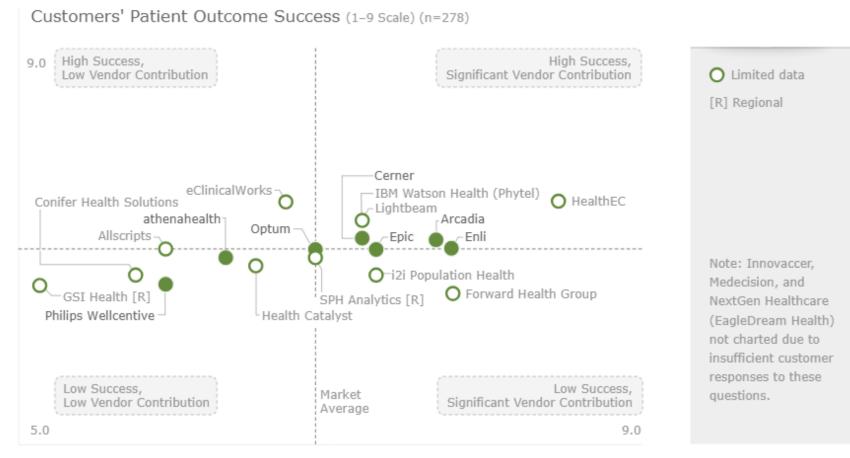


Vendor Contribution to Financial Outcome Success (1-9 Scale) (n=245)

KLAS

PATIENT OUTCOME SUCCESS

Patient Outcome Success



Vendor Contribution to Patient Outcome Success (1-9 Scale) (n=269)

KLAS[®]

KLAS Thank You

Questions?

For additional questions or access to a KLAS report, please contact:

Bradley Hunter Research Director, KLAS Bradley.Hunter@klasresearch.com

KLAS[®] 2016 Keystone Summit



Administrative/ Financial

Internal and external strategic program analysis

KLAS Keystone

Population Health IT Definition

DEFINITION AND CRITICAL CHALLENGES OF PROVIDER POPULATION HEALTH IT SOLUTIONS

In September of 2016, executives from 16 healthcare IT vendor companies, 3 healthcare services firms, 31 provider organizations, and 2 payer organizations met just outside of Salt Lake City for one day. Goals of the summit included the following:

- Definition of the required core competencies for a population health tool set
- Identification of critical challenges in vendor/provider partnerships, specifically those that might allow for more successful population health IT deployments

The results of this summit are publicly shared in an effort to improve the success with which population health IT solutions are deployed and adopted.

Population Health IT Framework

Objective

Define core competencies of a population health IT solution and recognize the vendors that have developed and widely implemented these solutions.

Validation of Solution Success

The following method for ongoing validation and reporting of which vendor solutions are "complete" has been developed by KLAS and the provider visionaries. Feedback on this process is also welcomed by summit participants.

- Principle: A solution is deemed complete after five provider organizations report to KLAS that all specified required functionalities in a vertical are implemented and live within their organization.
- Method: In order to ensure that these functionalities are implemented at scale, only provider organizations with more than 30,000 risk-based lives will be asked to report on their experiences. KLAS will continually ask organizations to report on these verticals until five fully adopted organizations can be identified.
- Reporting: KLAS will validate market and vendor progress toward the framework twice during 2017 (once mid-year and once at year-end).
 All providers and any subscribing vendors will have access to this research.

After this initial first draft, all summit participants were asked to give significant feedback into a second draft iteration developed and released before the September Summit. Subsequently, this final definition is released after feedback and agreement by Summit participants. While not all participants agree with all portions of the definition, this work represents a multidisciplinary, multi-organizational, and multi-Interested work effort around a unified goal.

Framework Development alidation The initial definition was developed by four ions are provider leaders:

provider leaders:

 Shawn Griffin, MD: Chief Quality and Informatics Officer for Memorial Hermann Physician Network

 Richard Vath, MD: Chief Clinical Transformation Officer at Franciscan Missionaries of Our Lady Health System

 Keith Fernandez, MD: Senior Physician Executive at Privia Health

- Rick Schooler: VP and CIO at Orlando Health
- It is expected that this strawman will evolve based on feedback before the Keystone Summit and during the summit from all participants.

© Copyright KLAS 2019

KLAS

Population Health Framework

Data Aggregation

Incorporation

of ADT Data

Functionality for compiling from disparate sources the data necessary to understanding the health of a population (e.g., claims, EMR, pharmacy, ADT).

Vertical **Functionalities**

Ability to Incorporate Data in a Timely Mannger Using Common Standards

Incorporation of Pharmacy Data

Incorporation Incorporation of Claims/ of Inpatient Payer Data EMR Data

Incorporation of Outpatient EMR Data

Incorporation of

Other Platform-Generated Data (e.g., state registries)

Ability to Ability to Continuously Normalize and Monitor Quality Clean Incoming of Incorporated Data Data

Reliable Master Patient Index (MPI)

Compilation of A Longitudinal Patient Record

Data Analysis

Automated tools to stratify a population across risk factors and to facilitate communication through reports, benchmarking, and predictive analytics.

Patient Registries/ Patient Stratification/ **Risk Stratification**

Provider Attribution of Patients

Quality Measures and Analytics Scaled Down to Facility/ Caregiver Level

Tracking of Internal **Common Predictive** Goal Targets, Simple Analytics Benchmarking

Regulatory Reporting Submission



Tools that enable care managers to track, plan, and coordinate care for a population and that can also track the care managers themselves.

Tools for Care Coordination and Care Management Workflows

Tools for Chronic **Disease Management**

Configurable Care Plans

Supplemental Tools for **Care Managers**

Tools for Managing Care Managers

KLAS[®]

Population Health Framework

Admin/Financial Reporting

Dashboards and reporting used by executives to analyze financial and clinical results.

Financial Performance Role-Based Dashboard	Role-Based	Executive Level	Total Cost of Care	Export/Import	
		Dashboard Reporting	Performance Tracking	Analytics for Individual	Capabilities for
Tracking Under Risk-	Reporting for	for Executives/	Including Standard	Patients, Patient	Integration with External
Based Contracts	Physicians/Clinicians	Administrators	Ouality Metrics	Groups	Data Visualization Tools

Patient Engagement

Tools used to securely communicate with patients, track outreach, and keep patients informed of results.

Platform or Services for Patient Communication/ Engagement Secure Messaging Between Patients & Patient Care Providers/ Delivery Care Managers

Patient Education T Delivery Functionality

Tracking of Outreach P. Efforts H

Patient Accessible Health Dashboard

Patient Satisfaction Monitoring of Programs and Providers

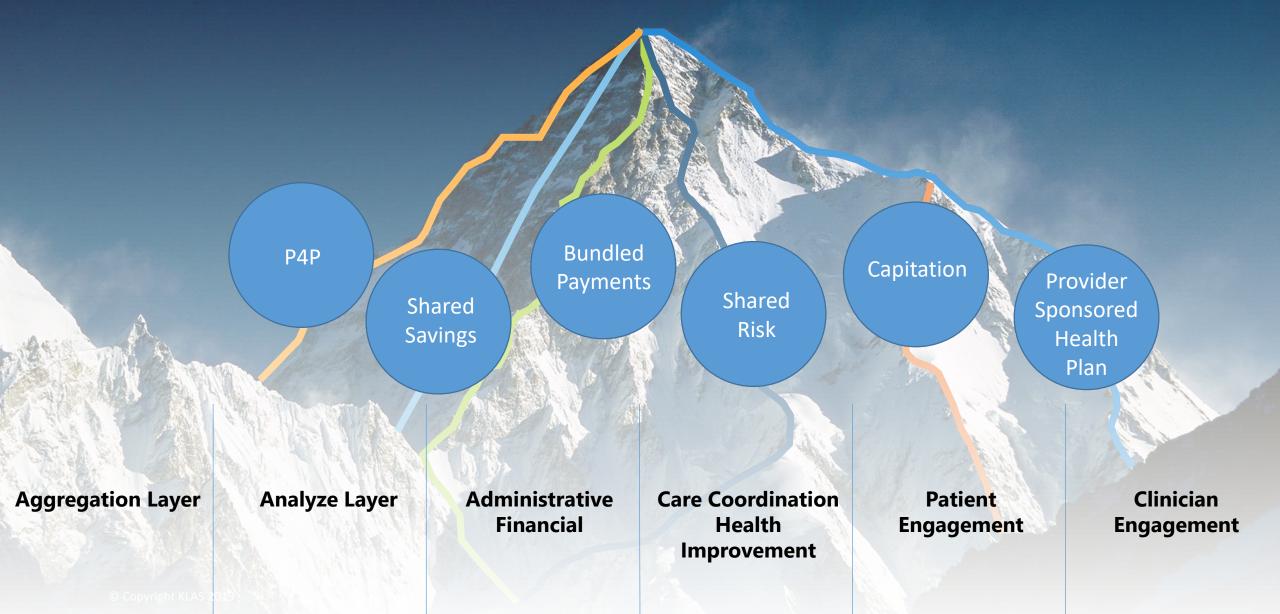
Clinician Engagement

Functionality that enables physicians to use PHM data at the point of care and also tracks that utilization.

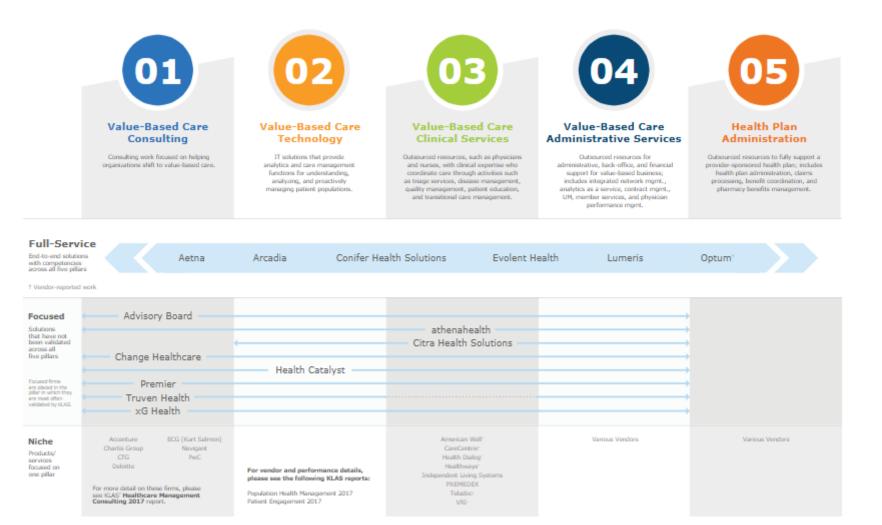
Supports Single Sign-On Integration Integration Allows Care Providers Working in the PHM Tool to Initiate Actions within an EMR Integrations Allows Care Providers Working in an EMR to See Care Gaps and Alerts from the PHM Tool

Ability to Track Clinician Usage and Activity within PHM Tools

Climbing the Population Health Mountain of Success



KLAS[®] Value-Based Care Framework



© Copyright KLAS 2019

KVAlidations

Depth of Adoption by Vertical

50%-74% 75%+

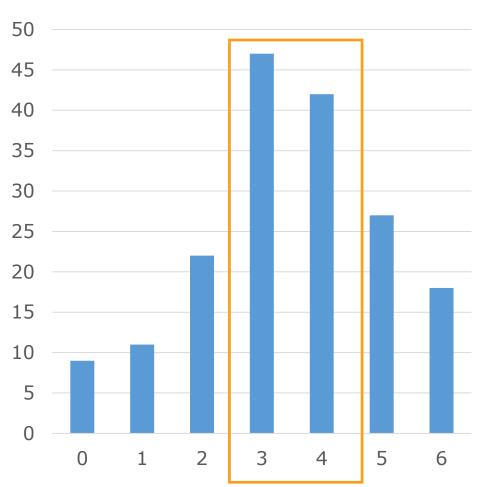
25%-49%

1%-24% Blank = 0%



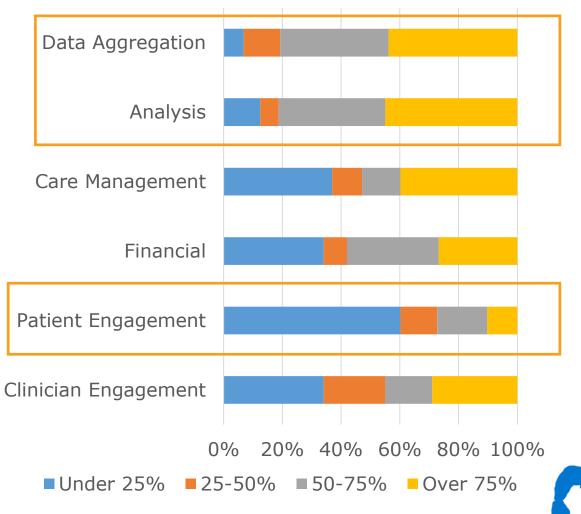
© Copyright KLAS 2019

KLAS[®] Population Health Validation Report



Frequency of the deployed verticals

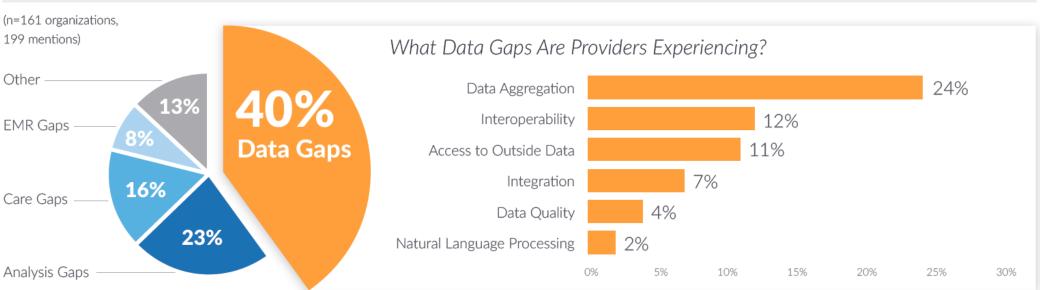
Percentage of deployed functionality within each vertical



KLAS[®] Population Health Perception 2016

PROVIDER ATTENTION SHIFTS TO DATA-RELATED GAPS

Earlier KLAS research confirmed vendor claims of data expertise, but provider needs have become more complex as focus has shifted from claims-based analytics to comprehensive care management. Hurdles in data collection and quality are now providers' largest concern. Interest in enterprise data warehouses that mesh clinical and claims data is growing. Providers decry the lack of interoperability that would ease collection of outside data into integrated EMR-based solutions. Even the most capable aggregation solutions require extensive configuration efforts.



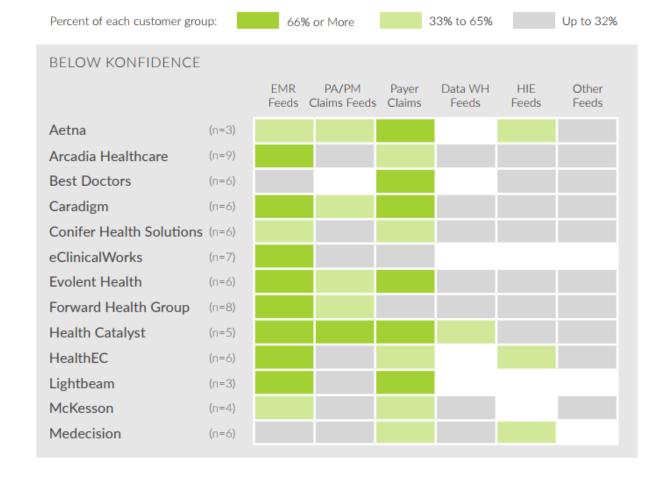
PROVIDERS' POPULATION HEALTH TECHNOLOGY GAPS

KLAS[®] Population Health Performance 2017

TYPE OF DATA FEEDS VALIDATED

FULLY RATED							
		EMR Feeds	PA/PM Claims Feeds	· ·	Data WH Feeds	HIE Feeds	Other Feeds
Advisory Board	(n=12))					
Allscripts	(n=14))					
athenahealth	(n=12))					
Cerner	(n=18))					
Enli	(n=17))					
Epic	(n=22))					
i2i Population Health	(n=17))					
IBM Watson Health	(n=15))					
Optum	(n=15))					
Philips Wellcentive	(n=16))					
Valence Health	(n=10))					
Verscend	(n=10))					

Chart depicts current customer reporting and validation of data integration sources. Vendors may provide more capabilities than what customers currently use or adopt.

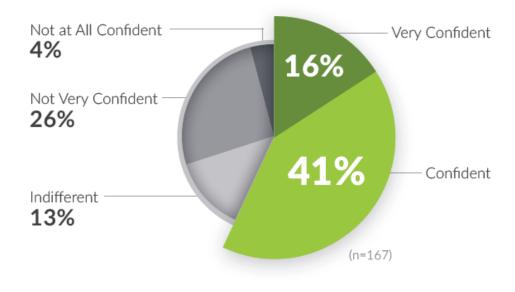


KLAS[®] Value Based Care Timing Report 2016



CONFIDENCE IS GROWING

How confident is your organization in its current ability to manage a population's health?





KLAS[®] Value-Based Care Provider Profiles

Managed Services

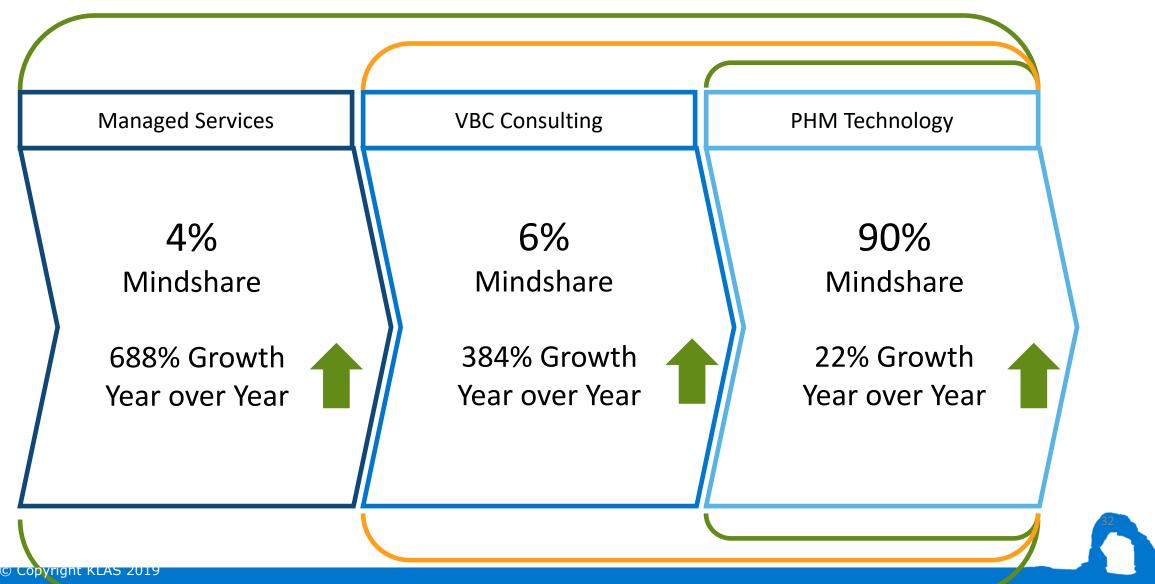
Engaging a third party for VBC managed services: Some organizations engage managed services firms, which offer a suite of endto-end solutions to manage the transformation and provide *ongoing* support for VBC initiatives. **VBC Consulting**

Engaging a third party for VBC consulting/advisory services: Some organizations engage firms in an advisory capacity to support them as they learn the skills needed to sustain their own VBC initiatives. PHM Technology

Tackling the transition inhouse: Some advanced organizations may have the necessary experience and capabilities to make the transition to VBC independently.

© Copyright KLAS 2019 © Copyright KLAS 2019

KLAS[®] Value-Based Care Provider Profiles Online Downloads



Copyright KLAS 2019