



NCVHS

Value Metrics Framework

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david.degandi@cambiahealth.com



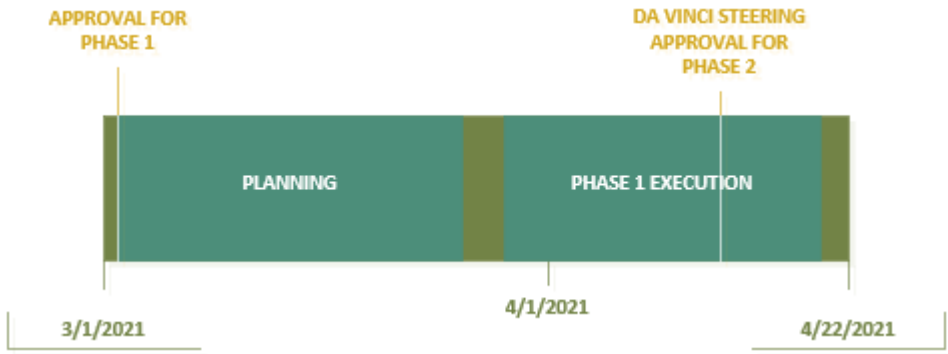
Value Metrics Framework: Phase 1 - Ideation

Idea: Create a value metrics framework which can be applied to all use cases.

- This idea grew from an ask from leadership “What is the value of our interoperability initiatives?”.
- The intended use of the content is to:
 - Provide insight to others considering use case implementation.
 - Provide insight to those needing to determine the value of an implementation.
 - Provide the means for organizations to share real world experiences.
 - Provide guidance towards measuring points of value.
- This framework is created as supplemental information and not part of the balloted content.
- Remain open to future content contribution and expansion beyond the initial content.

Value Metrics Framework Discovery and Creation

- After gaining approval of the Da Vinci Steering Committee for the execution of a pilot effort to create the framework.
- Cambia Health Solutions facilitated community sessions and gathered points of value for the Member Attribution and Data Exchange for Quality Measures use cases.
- The Da Vinci Steering Committee approved the results of the pilot effort and supported the gathering of points of value for their remaining use cases.



Value Metrics Framework Results

- Process to create content:

- Select a Use Case of interest.
- Determine industry representation of Use Case experts.
- Gather points of value from experts (Measurement of Value).
- Determine qualified Type and Description combination which enables the point of value.

- Characteristics associated with a point of value:

- Measurement of Value – Tangible definition of a point of value
- Type of value
 - Abrasion: Relief from requiring others to perform undesirable tasks
 - Accuracy: The degree to which the result of a measurement, calculation, or specification conforms to the correct value or a standard
 - Clinical: Relating to the observation and treatment of actual patients
 - Efficiency: The ratio of the useful work performed in a process to the total effort expended
 - Financial: Reduction of expenses
 - Foundational: The basis on which something can be built
 - Market: Improved marketability of a product
 - Regulatory: Satisfies regulation requirements
 - Security: Refers to management practices that protect data across applications and platforms.
- Description of Value – Normalized description of what enables a point of value
- Real World Experiences – Share quantified results of points of value
- Value Recipient
- Value applies to use case (Y/N)

Value Metrics Framework: Phase 2 - Execution



- The Cambia Grove provided the full force of its Innovator Fellowship Program allowing for the expansion to all HL7 FHIR Accelerator use cases of interest.
- The Innovator Fellowship program was responsible for the creation of the value metrics work product content in alignment with the value metrics framework.



Value Metrics Framework: Sample results

Type of Value	Description of Value	Measurement of Value	Real world experiences	Payer	Clinical Provider	Admin Provider	Patient	Employer	HIE	Regulator	Academic Researcher	Pharma	IT Vendor	Value Recipients	Argonaut	CARIN	Code	CRD	DTB	PAS	CDL	DEO M	GIC	HRE	
Market	HealthCare Innovator	Usage of information by Marketing for sales		Y		Y						Y	Y	4	4	1	0	Y	Y	Y	Y	Y	Y	Y	Y
Efficiency	Scalable Solution through use of standards	Compare time to market for scaled solutions vs. initial implementation		Y	Y	Y	Y				Y	Y	Y	7	5	0	0	Y	Y	Y	Y	Y	Y	Y	Y
Financial	Scalable Solution through use of standards	Scaled solutions where you can reuse vs. non-scaled solution which must be custom built for each integration		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	10	3	0	0	Y	Y	Y	Y	Y	Y	Y	Y
Financial	Scalable Solution through use of standards	Multiple non-scaled solutions must be individually maintained and financed. A scaled solution would reduced this to a single instance, thus saving xxx hours in labor and cost of resources.		Y	Y	Y							Y	4	3	0	0	Y	Y	Y	Y	Y	Y	Y	Y
Efficiency	Scalable Solution through use of standards	As a result of using a single solution it allows for easier migration to a replacement standard		Y	Y	Y							Y	4	4	0	0	Y	Y	Y	Y	Y	Y	Y	Y
Security	Provides an industry security model for data transfer	consistent protocol across integration end points		Y		Y			Y	Y	Y	Y	Y	7	7	0	0	Y	Y	Y	Y	Y	Y	Y	Y
Security	Provides an industry security model for data transfer	industry wide usage forces a reliable model which will adapt as needed		Y		Y	Y	Y	Y	Y	Y	Y	Y	9	7	0	0	Y	Y	Y	Y	Y	Y	Y	Y
Security	Provides an industry security model for data transfer	Reduces liability risk when compliant with an industry standard		Y		Y							Y	3	7	0	0	Y	Y	Y	Y	Y	Y	Y	Y
Efficiency	Receive standardized format from all payers	Automation of data ingestion into downstream systems		Y	Y	Y	Y	Y	Y	Y	Y		N	8	7	0	0				Y	Y		Y	
Efficiency	Receive standardized format from all providers	Automation of data ingestion into downstream systems		Y	N	Y	Y	Y	Y	Y	Y	Y	N	8	5	0	0					Y			
Financial	Automatic ingestion of data into downstream systems	xxx Hours of manual processing of the data files saved; Review chart	Cambia determined savings per chart of \$20to\$50 broken into \$10to\$30 for retrieval plus	Y	Y	Y	Y		Y	Y	Y			7	3	0	0				Y	Y		Y	
Accuracy	Automatic ingestion of data into downstream systems	Reduction of errors due to manual processing of the data files	One hospital manages 50+ different registry system submissions, with	Y	Y	Y	Y	Y	Y	Y	Y		Y	9	6	0	0				Y	Y		Y	
Foundational	Potential for new and enhanced business processes	Using standards based solutions for data exchange turns that functionality into a commodity and opens the door for innovative ideation at the business process level	Automated reporting allows for management of measure outside of just the regulated Medicare scope	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	10	7	1	0					Y			
Abrasion	Data is transferred automatically with minimal as possible provider involvement	Reduced impact from reduced Payer chart chasing and other points and methods of contact to manage the measure		Y	Y	Y	Y	Y	Y	Y	Y			8	1	0	0				Y	Y		Y	
Accuracy	Structure data transmission to normalize data content	Data more accurate and reduce provider burden by focusing on true gaps.	Exposes true gaps in care.	Y	Y	Y	Y	Y	Y	Y	Y			8	2	0	0				Y	Y		Y	
Accuracy	Structure data transmission to normalize data content	Greatly reduces human chart chasing efforts		Y	Y	Y								3	3	1	0				Y	Y		Y	
Efficiency	Structure data transmission to normalize data content	Realtime/daily transmission of data to allow for better measure intent and compliance	Actionable data in realtime	Y	Y	Y	Y							4	3	0	0					Y			
Financial	Structure data transmission to normalize data content	xxx Hours of manual chart chasing and non-scaleable reporting; Retrieve chart.	Cambia determined savings per chart of \$20to\$50 broken into \$10to\$30 for retrieval plus \$10to\$20 for review.	Y	Y	Y								3	1	0	0				Y	Y		Y	
Financial	Structure data transmission to normalize data content	Due to better measure management improved Stars ratings and QIP reporting		Y	N	Y				Y				3	2	0	0					Y			
Financial	Structure data transmission to normalize data content	Due to better measure management improved measure compliance	Validate type of value	Y	N	Y	Y			Y				4	2	0	0				Y	Y		Y	
Efficiency	Standardized business processes to reduce	Reduction in FTE's dedicated to managing		Y	Y	Y							Y	4	3	0	0				Y	Y		Y	

Value Metrics Framework: Sample results



Type of Value	Description of Value	Measurement of Value	Real world experiences	Payer	Clinical Provider	Admin Provider	Value Recipients	DEQM	G
Accuracy	Automatic ingestion of data into downstream systems	Reduction of errors due to manual processing of the data files	With each system requiring a different layout (and different transformations) of the same base data.	Y	Y	Y	9	Y	
Foundational	Potential for new and enhanced business processes	Using standards based solutions for data exchange turns that functionality into a commodity and opens the door for innovative ideation at the business process level	Automated reporting allows for management of measure outside of just the regulated Medicare scope	Y	Y	Y	10	Y	
Financial	Structure data transmission to normalize data content	xx Hours of manual chart chasing and non-scaleable reporting; Retrieve chart.	Cambia determined savings per chart of \$20to\$50 broken into \$10to\$30 for retrieval plus \$10to\$20 for review.	Y	Y	Y	3	Y	

Value Metrics Framework: Sample Users

Users	Reason for interest
Standards Reviewers	<ul style="list-style-type: none">Understand the points of value a specific use case offers to aide in the standards creation
Standards Organizations	<ul style="list-style-type: none">Offers the means for the industry to understand use case value in support of the goal to encourage the adoption of standards-based solutions
Regulators	<ul style="list-style-type: none">Identify values offered by a specific use case to resolve industry problems
Implementation Guide Creators	<ul style="list-style-type: none">Provides the means to make the industry aware of points of value a specific use case offers
Implementers	<ul style="list-style-type: none">Offers the means to make the industry aware of realized points of valueInform of potential points of value to watch for
*Promoters	<ul style="list-style-type: none">Someone looking for the potential points of value offered when considering to implement a specific use case

*Promoter covers a wide range of stakeholders that could use this Value Metrics Data Store as an authoritative source of value information. These can range from Business Leaders and Architects, to vendors creating products, to reporters looking for supporting content, the list goes on and on.



Value Metrics Framework: A Path Forward

Next Steps:

1. To determine where this framework should exist.
2. Establish some form of custodian governance.
3. To determine how it can be used to further encourage organizations to implement standards-based solutions.
4. To determine how it can remain open to future content contribution and expansion beyond the initial content.

Value Metrics Actors



For more info: david.degandi@cambiahealth.com