## **Analytics Capability Assessment**

**Instructions:** Evaluate each question in the first column of the assessment matrix and select a score that reflects your organization's capability by circling a corresponding number. Total your score in each of the three domains then divide by the number of factors in each one (People = 4, Process = 6, Technology = 3) to determine your average score for that domain. To assess your organization's capability level overall, total the scores of each domain and divide by 3. General characteristics of each level are described below.

Capability Levels	Reactive	Responsive	Proactive	Predictive
General Characteristics	No evidence or very limited evidence of capability, decentralized efforts to get data, access to information for the first time, situational reporting.	Some departmental evidence but not integrated or aligned, initial data marts, standardized reporting through IT, improved data capture at department level, some historical trending and analysis.	Evidence of an emerging integrated approach, clinical and business process improvements based on analytics, analytics driving change and strategy, culture change, integration of measure across domains (clinical, financial, operations, patient experience).	Fully integrated and aligned organizationally, leading edge tools and skills, data services provide robust support across the health center, automated analytic results are fed back into predictive models for value- driven health care.

## ASSESSMENT

1. PEOPLE												
Capability Levels		Reactive			Responsive			Proactive			Predictive	
Senior Leader Sponsorship: Senior Leader Sponsorship assesses the degree to which leaders in the organization sponsor healthcare analytics efforts, advocate for a structured approach to analytics and allocate resources to it. 1A. To what extent are senior Managers typically firefight data Managers/Directors are Senior leaders have responsibility Senior leaders sponsor efforts												dvocate
leaders involved with and supportive of data efforts,	Managers t issues as th are rarely ir such issues	ey arise; ser wolved in th	nior leaders	responsible issues and i	Directors are for departr resolving pro to operation	nental data oblems as	for ensuring for driving resources t	ers have res g that data i decisions an o ensure its and timeline	s available d allocate quality,	throughout ensure hea efforts, and departmen and aligned	ers sponsor the organiz Ithy data and I ensure that tal efforts ar I to maximiz strategic as	ation to d analytics : e balanced e the use
SCORE	0	1	2	3	4	5	6	7	8	9	10	11

Data Stewardship: The role of the "data steward" may be formally defined or informally recognized and is typically the "go to" person within a department or site for all the queries/issues and usability of the data. Data stewards ensure the data is complete, accurate, and timely and that it is useful to the department or site in measuring performance and making improvement.

existing organization data,

explore new sources of data,

and to present insights from

SCORE

data.

roles/skills.

0

1

1. P E O P L E													
Capability Levels		Reactive			Responsive			Proactive			Predictive		
<b>1B.</b> To what extent are departmental staff identified as being responsible for defining data requirements and ensuring departmental or project based data quality and effective use?	departments; staff use their own initiative and rely on "gut feel" or self-defined standards of accuracy t			experts hav acknowled that data a	tal data use re an inform ged role in a re captured y and accura	ally ssuring	called out f some high-	Clearly defined, formal roles are called out for data stewardship in some high-priority areas or departments.			Data stewards are present and acknowledged throughout all departments the organization, and held accountable for accurate, reliable, integrated data to achieve organizational goals.		
SCORE	0	1	2	3	4	5	6	7	8	9	10	11	
			-		e the human resources that facili a and can translate it into useful				of data thr	nroughout the organization.			
<b>1C.</b> To what extent do skills, roles and staff exist within the organization to understand	analytic cap	no analytics pabilities eb urnover in ir	b and flow		les for expe ation or lim les for analy	ited	analytics st	and centraliz aff exists tha in cross fund	at	Advanced analytics skills are in place (e.g., research scientist, clinical informaticist,			

Data Driven Culture: A data-driven culture refers to an organizational climate that embraces use of data in achieving organization goals and making positive change through continuous improvement in all areas.

3

2

part-time or not the staff

member's primary responsibility).

4

5

teams and support data driven

decision-making; analytics staff

may be provided by a support

for all analytics needs.

6

organization (network, consortia,

hospital) but not always sufficient

7

8

epidemiologist);

organization.

9

analysts promote advanced uses

of data (e.g., predictive modeling)

and build data literacy across the

10

11

organization promote data literacy and require supporting	manageme accurate his	f data and ir nt is mostly storical data ve reporting	on and	Data and in and used by but not unit making ope changing st	y departmer formly requi rational dec	nt heads, red when	0	and leaders of shed down a ation, and is	on a regular and across arequired	day-to-day performanc achievemer	n the organia staff knows actions affe ce metrics a nt of goals. I hallmark of	zation at all how their ct nd Data
SCORE	0 1 2			3	4	5	6	7	8	9	10	11

## Analytics Capability Assessment

1. P E O P L E				
Capability Levels	Reactive	Responsive	Proactive	Predictive
Total your scores and divi	ide bv 4 to determine you	r organization's average s	core within the People don	nain:

2. PROCESS **Capability Levels** Reactive Responsive Proactive Predictive Data Strategy: A data strategy is a documented plan and/or systematic approach that defines resource allocation, activities and timeframes to address the acquisition, completeness, accuracy, timeliness and use of data in the organization. 2A: To what extent does your Data strategy or data needs are not Departmental plans and Strategic priorities and the data Data strategy may be evident for explicitly considered when defining specific projects and efforts such organizational strategy explicitly analytics strategy are aligned and organization have a or executing strategic plans and as PCMH recognition, MU, UDS or include an accompanying data widely understood, including systematic approach to objectives; data needed to evaluate other reporting requirements but strategy and analytics approach; consideration of data from developing and executing a progress toward goals is often it's not well-documented. the data strategy also addresses external sources that are critical data strategy that supports missing. widespread or integrated with increasing data literacy throughout to achieving goals; strategy is the organization's strategic organization strategy. the organization. periodically reviewed and goals and objectives? updated to remain responsive to changing priorities. SCORE 0 1 2 3 4 5 6 7 8 9 10 11

**Data Governance:** Data governance refers to the processes and structures in place to oversee and manage the Data Strategy, data and information needs, conflicts, definitions and gaps within an organization. The purpose of data governance is to improve data quality, increase data literacy and maximize data use in achieving organization goals.

ssues and opportunities prioritized, resourced, and managed within your preanization?	Motivated i within a dep ownership o needs and o their contro most data d	partment tal of their prior lo what they I; IT general	ke rity data / can within	manageme initiatives w	vhen a probl iness case re ls on the pro	ff em or new equires it	manageme in the orgai	nt structure nization to e als and object	is emerging ensure that ctives can be	regularly to definitions requireme standardiz and data a	and data ints are integ ed and docu ccess is opti- organizatior	rated, mented, mized both
SCORE	0	1	2	3	4	5	6	7	8	9	10	11

Capability Levels		Reactive			Responsive			Proactive			Predictive	
Performance Measurement: T operational, financial and patie				for monito	oring perfor	mance usi	ng a balanc	ed set of ir	dustry stan	idard mea	sures in clir	nical,
2C: To what extent does your organization turn data into measures that assess performance on the organization's strategic goals?	res in place eyond those ate or other MU.	as needed t clinical/bus or departm measure pe	ce measures co monitor s iness proces ents are beg erformance l ent areas are	elected sses; teams ginning to but	monitor cli performan teams or d	are develope nical/busine ce of strateg epartments ce in alignme pals.	ss process ic priorities; measure	clinical, op patient ex in place to performar	cally balance perational, fi perience me o systematica nce for all str fe.g., MU, P4	nancial and easures are ally monito rategic		
SCORE	0	1	2	3	4	5	6	7	8	9	10	11
<b>Data Quality:</b> Data quality refease and timeliness.	ers to the tr	ustworthin	ess of data	used in the	organizatio	on for decis	sion-makin	g and the e	fforts to en	sure accur	acy, compl	eteness,
,	Not a priori focused on interventior does not oc regularity ir	cleanup and n; data quali cur with rigo	l individual ty review or or	selected tea sites but th one-time ef	y reviews oc ams, depart e efforts are fforts and no n an ongoin	ments or e usually ot	reports are basis and a aligned acr common e	ntal data qua produced o re integrate oss the orga rrors are ass curs to addre	d and nization; essed and	highly aut data quali reports; m (e.g., % ac inform on efforts and	ction and ag omated with ty checks an neasures of c curacy) prio going data q d trace error s for training	n built-in d exception data quality ritize and uality rs to
SCORE	0	1	2	3	4	5	6	7	8	9	10	11

Torritat for encetive use by an a	stattenoraei		Barnzacioni									
analyzed and results communicated to allow staff at all levels to act on information?	widely acce to draw cor presentatio	ta from mul t the inform ssible and it nclusions fro n of data (no or scorecar	tiple hation is not is difficult m the o	on perform quarterly fr basic dasht scorecards	is, departme lance with a requency an boards and/o but they are or cascading	t least d produce or e not widely	accessible t a monthly b departmen enterprise- (dashboard to all levels	to track perf basis but var ts; departme wide data an s, scorecard	ental and nalysis ls) cascades exploration	and drive j improvem timely das scorecards organizatio are used to in advance Analyses a incorporat		e and els, with cross the e analytics e decisions of care. cions nd
SCORE	0	1	2	3	4	5	6	7	8	9	10	11

2. P R O C E S S													
Capability Levels		Reactive			Responsive			Proactive			Predictive		
	Acting on Results:Translating data into action to successfully harness opportunities from data analytics, identifying processes that need to change and motivating staff to take accountability for improvement.2F. How effectively does theUsing data to make improvement isUsing data to make improvementData and measurable outcomes												
organization act on the results of data analyses and reports, ensuring that change and improvement efforts are prioritized with assigned accountability and	not a prima is on fixing a individuals i involved in informal kn primary sou Information	ry considera a specific pro n the organi ad hoc effor owledge sha rce of acting quality is to	tion, focus oblem; zation are ts and ring is the	is recognize senior lead major proje departmen successful a than others	ed as import ership but li	ant by mited to more ent efforts is limited	are used ro impact of p efforts Most depar successfully improveme with some a	utinely to de rioritized im thents / sit / leverage de ent and susta accountabilit e outcomes	emonstrate provement es ata for ainability, ty for (e.g.,	drive orga improvem industry le with clear incentives improvem pervasive; organizatio	neasurable on nization focu- ent efforts to ading perfor accountabili and consequ- ent. Data lite staff in the on is fully tra- ata for impro-	is and owards mance ty, uences for eracy is iined to	
SCORE	0	1	2	3	4	5	6	7	8	9	10	11	
Total your scores and di	vide by 6	to deter	mine you	r organiz	ation's a	verage s	core with	in the Pro	ocess don	nain:			

3. T E C H N O L O G Y												
Capability Levels		Reactive			Responsive			Proactive			Predictive	
IT Tools and Support for Anal clinical and business analysts a			help select,	, integrate,	support an	d maintain	analytics t	echnologie	s and tools,	and provi	de access to	o data for
3A: To what extent does IT provide the needed staff, services, and resources to help the organization integrate and support data analysis and visualization tools?	mainly of m of database health reco Dedicated a	e platforms t rd data (e.g.	and support hat capture , EHR, PM). cems or tools	support for reporting and data mining from existing systems and basic analytics support. Analysis tools are limited to spreadsheets and databases with limited functions for systematic reporting, advanced data analyses, and self-			meet need priority are IT analytics departmen who have k analytics sy integrated	analytics sy s of selected as; there are support for ts or data st ceen interest vstems are n with existing "standalone	l high e pockets of some akeholders t but ot fully g health IT	IT supports analytics systems t interface with and leverage existing IT platforms (e.g., data warehouse), fully support organization data needs to achieve strategic goals, and support a data-driven culture with self-service analytics for a departments and data stakeholder groups.		
SCORE Integration: Data is integrated											10 n plan/clair	11 ns, public
health data, social determinar 3B: To what extent are data from different internal and external sources/systems consistent and readily available through the organization's analytics systems and tools?	Important in is stored in not consiste	nternally-gei separate sys	nerated data tems and is es extensive	Specific rep from differd are availabl sets of data project-by- effort is ma	orts combinent internal e but only for and condu- project basind de to identi ad use impo ta, but it is r	hing data sources or limited cted on a s; some fy, rtant	Core data f selected ex periodically performan for strategi feeds to a r	rom interna ternal sourc combined t ce measurer	l and es are to support ment needs omated data re available	Data from sources ar automated internal da insight on to industry	multiple ext e systematic d) combined ata to provid performance and help di ent of Triple	cally (fully with e full data e relative rive
SCORE	0	1	2	3	4	5	6	7	8	9	10	11

3. T E C H N O L O G Y												
Capability Levels		Reactive			Responsive			Proactive			Predictive	
-	Self Service Analytics: Self-service analytics refers to the degree to which data and performance measures are available to all stakeholders in the organization at he time and place needed via information technology tools and access points.         Sec. To what extent are the       The data available is largely raw and Reports, typically monthly,       Reports, typically real-time,       Data is widely accessible in a											
3C. To what extent are the right data tools in place and accessible to meet the needs of all users in the organization?	The data av requires add turn into us information timeliness c based on in the data (e.	ditional proc eful, actiona . Access to a of actionable dividuals tha	essing to able and data is at process	provide actionable information for selected departments and reports may be generated at any time. Data and information to support the care team is limited.				ionable info ents and re s widely ava	rmation for porting ilable. Data vely support nd point of	variety of f modes to informatio stakeholde (prescripti intelligenc manageme	formats and provide action on required b ers. Advance ve, predictiv e on proaction ent and import business an	delivery onable oy all data d analytics e) provide ve care roving and
SCORE	0	1	2	3	4	5	6	7	8	9	10	11
											_	

Total your scores and divide by 3 to determine your organization's average score within the Technology domain:

To assess your organization's capability level overall, total the scores of each domain and divide by 3: