

ANALYTIC CAPABILITY ASSESSMENT & ACTION PLAN

DATA STEWARDSHIP

DATA GOVERNANCE

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 valuedriven 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 leaders involved with and supportive of data efforts, issues and analytics in your organization?	Managers t issues as th are rarely ir such issues	ey arise; ser nvolved in th	nior leaders ne detail of	Managers/l responsible issues and I they relate	e for departr resolving pro	nental data oblems as	for ensurin for driving resources t	ers have res g that data i decisions an to ensure its and timeling	s available d allocate quality,	throughout ensure hea efforts, and departmen and aligned	ers sponsor the organiza Ithy data and I ensure that tal efforts ar I to maximiza 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.

1. PEOPLE													
Capability Levels		Reactive			Responsive			Proactive			Predictive		
departmental staff identified	No formal ownership within departments; staff use their own initiative and rely on "gut feel" or self-defined standards of accuracy and quality.			experts have an informally acknowledged role in assuring			called out f	ined, formal for data stew priority area ts.	ardship in	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	
The state of the s		ical and business analysts are the human resources that facilitate analysis and use of data the business purpose of the data and can translate it into useful intelligence.									e organizat	ion.	
roles and staff exist within the organization to understand	Limited to no analytics staff; analytic capabilities ebb and flow with staff turnover in informal roles/skills.			the organiz assigned ro part-time o	les for exper ation or limi les for analy r not the sta primary resp	ted sts (i.e., off	analytics st participate teams and decision-m may be pro organizatio	and centralizaff exists that in cross functions function	at ctional a driven tics staff upport consortia,	Advanced analytics skills are in place (e.g., research scientist, clinical informaticist, epidemiologist); analysts promote advanced uses of data (e.g., predictive modeling) and build data literacy across the organization.			
SCORE	0	1	2	3	4	5	6	7	8	9	10	11	
Data Driven Culture: A data-driv change through continuous imp			_	tional clima	ite that em	braces use	of data in	achieving o	rganizatior	n goals and	making po	sitive	
literacy and require supporting	manageme accurate hi	f data and in nt is mostly storical data ve reporting	on and	and used b but not uni making ope	Data and information is available and used by department heads, but not uniformly required when making operational decisions or changing strategy.			nformation is and leaders of shed down a cation, and is business cas	on a regular and across required	lar pervasive in the organization as levels. Line staff knows how the day-to-day actions affect			
SCORE	0	1	2	3	4	5	6	7	8	9	10	11	

1. PEOPLE Capability Levels Reactive Responsive Proactive Productive Total your scores and divide by 4 to determine your organization's average score within the People domain:

2. P R O C E S S												
Capability Levels		Reactive			Responsive	!		Proactive			Predictive	
Data Strategy: A data strategy acquisition, completeness, acc		•	•	• •		defines re	source allo	cation, acti	vities and ti	meframes	to address	the
organization have a	explicitly co or executing objectives;	explicitly considered when defining or executing strategic plans and objectives; data needed to evaluate progress toward goals is often missing.			specific projects and efforts such as PCMH recognition, MU, UDS or other reporting requirements but it's not well-documented, widespread or integrated with			ntal plans an onal strategy accompanyind analytics a rategy also a data literacy ation.	explicitly ng data approach; addresses	Strategic priorities and the dat analytics strategy are aligned a widely understood, including consideration of data from external sources that are critic to achieving goals; strategy is periodically reviewed and updated to remain responsive changing priorities.		
SCORE	0	1	2	3	4	5	6	7	8	9	10	11
Data Governance: Data govern conflicts, definitions and gaps achieving organization goals.		•			•		_		~			
2B: To what extent are data issues and opportunities prioritized, resourced, and managed within your organization?	Motivated individuals or groups within a department take ownership of their priority data needs and do what they can within their control; IT generally makes most data decisions.			manageme initiatives v clinical/bus	initiatives when a problem or new clinical/business case requires it and depends on the project team			ent structure nization to e	is emerging ensure that ctives can be	regularly to definitions requirements standardize and data a	ents are inte ed and docu access is opt organizatio	grated, umented, imized both
SCORE	0	1	2	3	4	5	6	7	8	9	10	11

2. PROCESS												
Capability Levels		Reactive			Responsive	9		Proactive			Predictive	
Performance Measurement: Toperational, financial and patie			~	for monito	oring perfo	rmance usi	ng a balanc	ed set of ir	ndustry stan	dard meas	sures in clir	nical,
organization turn data into measures that assess	or very few mandated b		eyond those tate or other	as needed clinical/bus or departm measure pe	to monitor s iness proce ents are be	sses; teams ginning to but	monitor cli performand teams or de	nical/busine ce of stratege epartments ce in alignm	ss process ic priorities; measure	A strategically balanced set of clinical, operational, financial patient experience measures in place to systematically mor performance for all strategic priorities (e.g., MU, P4P, PCM)		
SCORE	0	1	2	3	4	5	6	7	8	9	10	11
Data Quality: Data quality refeand timeliness.	ers to the tr	rustworthin	ess of data	used in the	organizati	on for decis	sion-making	g and the e	fforts to en	sure accur	acy, compl	eteness,
organization ensure accurate data across the organization?	Not a priority. Most efforts are focused on cleanup and individual intervention; data quality review does not occur with rigor or regularity in the organization.			selected teams, departments or sites but the efforts are usually one-time efforts and not sustained on an ongoing basis.			Departmental data quality tracking reports are produced on a regular basis and are integrated and aligned across the organization; common errors are assessed and training occurs to address them.			Data collection and aggregation highly automated with built-in data quality checks and excepti reports; measures of data quali (e.g., % accuracy) prioritize and inform ongoing data quality efforts and trace errors to individuals for training.		
SCORE	0	1	2	3	4	5	6	7	8	9	10	11
Analysis of Data: Analysis of data format for effective use by all s			•	erformance	measures	are turned	into inform	nation, and	communic	ated in a vi	isually appe	ealing
analyzed and results communicated to allow staff at all levels to act on information?	together da domains bu widely acce to draw cor presentatio	eporting (UD ata from mul at the inform essible and it nclusions fro an of data (no s or scorecar	tiple lation is not is difficult m the	on perform quarterly fr basic dashb scorecards	oards and/	nt least nd produce for e not widely	accessible t a monthly be departmen enterprise- (dashboard to all levels	to track perfoasis but var ts; departm wide data a	ental and nalysis ls) cascades exploration	and drive provem timely das scorecards organization are used to in advance Analyses a incorporation and drive proventions.	on is used to performance ent at all leveloped and available action. Predictive inform care or at point and visualizare internal aravailable da	e and vels, with d cross the re analytics e decisions of care. tions
SCORE	0	1	2	3	4	5	6	7	8	9	10	11

2. PROCESS												
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.												
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 organ ad hoc effor owledge sha rce of acting quality is to	oblem; ization are ts and aring is the	is recognize senior leade major proje department successful a	ts/sites are in the state of th	ant by mited to more sent efforts s limited	Data and m are used ro impact of pi efforts Most depar successfully improveme with some a measurable selected pro	utinely to de rioritized im tments / sit r leverage da nt and susta accountabili r outcomes	emonstrate aprovement es ata for ainability, ty for (e.g.,			
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. TECHNOLOGY												
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	platforms to rd data (e.g.,	and support hat capture , EHR, PM). ems 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 seen interest stems are n with existing "standalone"	high e pockets of some akeholders but ot fully g health IT	IT supports analytics systems that 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 all departments and data stakeholder groups.		
SCORE	0	1	2	3	4	5	6	7	8	9	10	11
Integration: Data is integrated health data, social determinar											n plan/clair	ns, public
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 i is stored in not consiste	nternally-gei separate sys	nerated data tems and is es extensive	Specific rep from differ are available sets of data project-by- effort is ma combine ar	ports combinent internal le but only for and conduction project basis and use importa, but it is r	ning data sources or limited cted on a s; some fy, rtant	Core data f selected ex periodically performand for strategi feeds to a r	rom interna ternal source combined to ce measurer	l and es are to support nent needs omated data e available	Data from sources ar automated internal da insight on to industry	multiple ext e systemation d) combined to provid performance and help di ent of Triple	cally (fully with le full data e relative rive
SCORE	0	1	2	3	4	5	6	7	8	9	10	11

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 the time and place needed via information technology tools and access points.												
3C. To what extent are the right data tools in place and accessible to meet the needs of all users in the organization?	requires ad turn into us information timeliness of based on in	ailable is lary ditional proceeful, actional Access to a confection actionable dividuals that g., QI, IT staff	able and data is at process	provide act for selected reports ma time. Data	pically mont tionable info d departmen y be genera and informa e care team	rmation nts and ted at any ntion to	provide act all departn capability i and inform proactive o	rpically real-tionable infonents and res widely avanation select are efforts a on-making to	ormation for porting ilable. Data ively support and point of	variety of modes to information stakehold (prescript intelligeno managem	ive, predictive te on proact ent and imp business ar	delivery onable by all data ed analytic ve) provide ive care roving and
SCORE	0	1	2	3 4 5 6 7 8 9 10								11

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

Action Plan: DATA STEWARDSHIP

Capability Levels		Reactive		F	Responsive	!		Proactive		Predictive			
Data Stewardship : The role of site for all the queries/issues and or site in measuring performance	d usability	of the data	a. Ďata stev	•		•	_	, , , ,		•	•		
1B. 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?	departmer	ownership v nts; staff use nd rely on "g d standards nd quality.	their own gut feel" or	experts hav acknowled that data a	ntal data use ve an inform ged role in a re captured y and accura	nally assuring	called out	fined, forma for data stev -priority are nts.	wardship in				
SCORE	0	1	2	3	4	5	6	7	8	9	10	11	
IDEAS FOR ACTION: Imme													
IDEAS FOR ACTION: 3-6 M	lonths						Success C	riteria (Ap	proval, Bu	y in, Reso	urces, etc.)		

Action Plan: DATA GOVERNANCE

Capability Levels		Reactiv	re		Responsive	<u>;</u>		Proactive)		Predictive)
Data Governance: Data g	s within an											
2B: To what extent are data issues and opportunities prioritized, resourced, and managed within your organization?	formed to a gement for o when a probl siness case re ds on the pro	one-off em or new equires it	manageme emerging i ensure tha	ent structure n the organ t priority go can be met	ization to	regularly t definitions requireme standardiz and data a both acros	ents are inte	grated, umented, imized ization and				
SCORE	0	1	2	3	4	5	6	7	8	9	10	11
IDEAS FOR ACTION: 3-6	Months						Success (Criteria (Ap	pproval, Bu	y In, Reso	urces, etc.)