	The Maryland Healthcare Commission Health Information Organization Research Ohio - HealthBridge February , 2009					
Section		Requirement	Definitions	Ohio - HealthBridge		
Vision	I.	Vision	Clear description of how to respond the unique needs an opportunities of HIE in state			
	A. B.	Mission		Our mission is to improve the quality and efficiency of healthcare in our community. To do this we serve as a trusted third party working with all participating healthcare stakeholders to facilitate creation of an integrated and interoperable community healthcare system.		
	В. С.	Principles from Appendix B Interoperability				
	D.	Quality of care	-			
Strategy and			Economic Analysis of cost and benefit for each phase of	HealthBridge is one of only a handful of HIEs nationwide that has a self-sustaining, cash positive business model that does not		
Planning	II.	Financial Model and Sustainability	implementation	rely on grant funding for ongoing costs.		
	Α.	Financially sustainable				
	A1					
	A2	· · ·				
	A3					
	A4	· · · · ·				
	A5	<u> </u>				
	A6					
	A7					
	A8	Physician funding				

Section		Requirement	Definitions	Ohio - HealthBridge
	A9	Philanthropic funding		
В		Budget		
	B1	capital		
	B2	operating costs		
	B2-1	Salaries		
	B2-2	Benefits		
	B2-3	Office expense		
	B2-4	Rent		
	B2-5	Utilities		
		Software purchase and		
	B2-6	maintenance		
		Hardware purchase and		
	B2-7	maintenance		
	B2-8	Taxes		
	B2-9	Cyber Liability Insurance		
	B3	cash flow		
	B4	break even analysis		
C		Community Benefit		
D).	Benefit Realization		
	D1	ROI - financial measurement		Ave hosp cost for result delivery anticipated to \$.75. Actual for 2007 was \$.12. Total cost reduction based on volume for 2007 was \$16,380,000. Based on current volume, ROI/mo. to community is \$1.5M (does not factor in inflation, physician office efficiencies, or quality of care improvements. Quality reporting/performance
				measurement in near future for diabetes
	D2	ROI - quality measurement		care.

Section		Requirement	Definitions	Ohio - HealthBridge
Jettion		ROI - System use		
	D3	-		
	D3-1			
	D3-2			
			A multi-stakeholder approach	
			that represents the needs of the	
Strategy and			community and all stakeholders	
Planning	III.	Governance Framework		
		Plan for engaging stakeholders		
	Α.			
		Ownership model: Public-Private		
	В.	Partnership		
		Profit Status: Not-for-profit		HealthBridge is a not for profit formed in
	C.			1997
	D.	Articles of Governance		
	Ε.	Role of Local HIEs:		
		May include but not require		
		creation of independent		
		governance entities to		
		oversee regional or local HIE.		
		All HIEs would conform with		
		statewide policies, standards		
		and rules.		
	E1			

Section	Requirement	Definitions	Ohio - HealthBridge
	RHIO participation will be		
	required (required as		
	regional governance entities)		
E	2		
	Local HIEs must be inclusive		
	and non-discriminatory		
E	3		
F.	Technical Operations		
	Separate governing structure		
	from technical operations		
	(potential for combination in		
	latter stages)		
	-1		
	Governance and technical		
	operations in single entity		
	-2		
G.	Accountability Mechanisms		
	Direct oversight through		
	contracts with incentives for		
	adherence and penalties for		
	non-adherence		
	G1 Direct oversight vis		
	Direct oversight via		
	G2 legislation Board of Director Composition		
	Board of Director Composition		12 member board representing employers,
			health plans, hospitals, physicians and
н.			other community members
	H1 Governor's Office		outer continuity members
	12 State Medicaid Agencies		
	State Department of Health		
	H3		

Section	Requirement	Definitions	Ohio - HealthBridge
	State Healthcare and		
	H4 Hospital Association		
	H5 State Medical Association		
	Other non-profits who are		
	involved in the medical		
	H6 community		
	Government Agencies who		
	may be a stakeholder		
	Н7		
	H8 Consumers		
	H9 Employers		
н	10 Insurers		
H	11 Health Care Providers		
Н	12 Pharmacy		
Н	13 Clinical Laboratories		
Н	14 Higher Education		
Н	15 Quality Organizations		
	Operational / Management Positions		
۱.	and Responsibilities		
	I1 Positions		
1	-1 Executive Director		
1	2 Staff		
	2 program staff, controller, 2		
	adm assistants		
1	3		
	Privacy and Security Officer		
1	-4		
2	Responsibilities		
	Execute strategic, business		
	and technical plans		
2	2-1		

Section		Requirement	Definitions	Ohio - HealthBridge
Jection	T 1	Coordinate day-to-day tasks	Definitions	Onio - Healthbridge
	12-2	and deliverables		
		Establish contracts and other		
		relationships with		
	12-3	local/sectoral initiatives		
		Provide industry knowledge		
	12-4	, 3		
	12-5	Advise the Board		
		Board Committees and		
	J.	Responsibilities		
	J1	Governance Board		
		Maintain vision, strategy, and		
	J1-1	outcome metrics		
		Build trust, buy-in and		
		participation of major		
	J1-2	stakeholders statewide		
		Assure equitable and ethical		
	J1-3	approaches		
		Develop high-level business		
		and technical plans		
	J1-4			
		Approve statewide policies,		
		standards, agreements		
	J1-5			
		Balance interests and resolve		
	J1-6	disputes		
		Raise, receive, manage and		
		distribute state, federal,		
	J1-7	private funds		

Section		Requirement	Definitions	Ohio - HealthBridge
		Prioritize and foster		
		interoperability for statewide		
		and sub-state initiatives		
	J1-8			
		Implement statewide projects		
		and facilitate local/sector		
	J1-9	projects		
		Identify and overcome		
	J1-10	obstacles		
		Financial and legal		
		accountability, compliance,		
		risk management		
	J1-11			
	J1-12	Educate and market		
		Facilitate consumer input		
		(Others in MCHIE document		
		worth reviewing and making		
		sure tie back to above)		
	J1-13			
		Determining compensation for		
	J1-14	staff		
	J2	Board Committees		
		Broadens stakeholder		
		representation in governance		
	J2-1	body		
		Provides content expertise in		
	J2-2	very specific areas		
		Represents clinicians,		
		consumers, employers and		
	J2-3	payers		
	J3	Suggested Committees:		
	J3-1	Steering Committee		

Section		Requirement	Definitions	Ohio - HealthBridge
	T	Privacy and Security (legal, S &		
	J3-2			
	J3-4			
	J3-5	Technical		
	J3-6	Standards		
	J3-7	Outreach and Education		
Strategy and				
Planning	IV.	Privacy and Security		
	Α.	Registration		
	A1	Registration authority		
		Trusted relationship (i.e.		
	A2	hospital)		
	В.	Authentication		
	B1	providers		
	B2	consumers		
	B3	public health		
		other institutions		
	B4	(educational)		
		non licensed providers (if any		
	B5	exist in state)		
		data authentication (in and		
	B6	out of HIO)		
		system authentication (system		
	B7	accessing HIO)		
	C.	Identification		
		Use of a master person index		
		to provide provider and		
	C1			
	C2			
		other institutions		
	C3	(educational)		

Section		Requirement	Definitions	Ohio - HealthBridge
		non licensed providers (if any		
	C4			
	C5	data identification		
	C6	system identification		
		Credentialing of health care		
	C7	providers		
	D.	Audit		
	D1	what is audited		
	D2	who audits		
	D3	how often		
		external audit requirements		
	D4			
	D5	rules of enforcement		
	Ε.	Authorization		
		providers authorized to see		
	E1	what data		
	E2	consumers authorized		
	E3	public health		
		other institutions		
	E4	(educational)		
		non licensed providers (if any		
	E5	exist in state)		
	E6			
	E7	system authorization		
		Accord	Polo Pacad using ULZ Standarda	
	F.	Access	Role Based using HL7 Standards	
	F1	Who can access what data		
	F2	Who can change, update data		

Section		Requirement	Definitions	Ohio - HealthBridge
		Sensitive specially protected		
		health information - substance		
		abuse, HIV/AIDS, genetic etc.		
	F3			
(G.	Consent Framework		
		Opt In	*if patient opts out does the data	
			still go to the HIO without	
			allowing it to be viewed, changed	
	G1		etc.	
		Opt Out	Recommend reviewing California	
			consent models - very detailed	
			based on use cases	
	G2			
		Notice only to consumer that		
		their information in accessible		
	G3	via HIO		
	G4	Use of de-identified data		
ŀ	Н.	Legal Agreements		
		master participation		
	H1	agreement		
	H2	use agreement		
	НЗ	business associate agreements		
			Develop sound policy to manage	
			authorization and access to	
			electronic patient information in a	
			consumer centric approach to	
			health information exchange	
			(Privacy and Security Policies)	
	l.	Policy and Procedures		
	11	authentication		

Section		Requirement	Definitions	Ohio - HealthBridge
Section	12	-	Definitions	Onio - nearmbridge
	13	authorization		
	14	access		
	15	consent		
		enforcement - statewide that		
		all must adhere to and may		
		require legislation or		
	16	ownership by AG office		
	17	Break the glass		
		Form relevant policy to enable improved community health		
	18	status		
	19	HRB		
		Support for Policies Governing		
		Patient Authorization for Data		
		Sharing		
	110			
	J.	Legal Issues		
	J1	HIPAA considerations		
	J2	MDCMRA as may be required		
Strategy and			Ensure Transparency, convene all	
Planning	V.	Stakeholder Outreach and Education	stakeholders, educate	
	А.	Part of statewide governing body		
	В.	Documented process to educate:		
	B1	Consumers		
	B2			
	B3	Providers		
	B4	Public Health		
	B5	<u> </u>		
	B6	Non-profits		

Section		Requirement	Definitions	Ohio - HealthBridge
		Understanding of market forces -		
		patterns of care , who to connect		
	C.	with and political environment		
			Implementation Sequencing –	
			Who has access first and	
			Implementation Phasing - What	
			information is available first	Coding Assistance and Clinical Reference
Detail Design	VI.	Care Delivery		tools
	Α.	Data Partners		
	A1	Hospitals		29 Hospitals
	A2			
	A3	Clinics		
	A4	Pharmacies		
	A5	Individual Physician Practice		4400 physicians
	A6	<u> </u>		
	A7	State Health Agencies		17 local health departments
	A8	Quality Organization		
	A9	Medicare		
	A10	Medicaid		
	A11	Insurers		
	В.	Data Exchange Requirements		
		Use case analysis to determine		
		actors, information they need, how		
	B1	· · · · · · · · · · · · · · · · · · ·		
	B2			
		Medication history and		HealthBridge has an e-prescribing initiative
	B2-1	reconciliation		(see web site)
	B2-1-1	outpatient prescriptions		
	B2-1-2	pharmacy prescriptions		
		e-prescribing and		
	B2-1-3	prescription histories		

Section		Requirement	Definitions	Ohio - HealthBridge
		Allergy and drug-drug		
	B2-1-4	interaction alerts		
		Access to drug formularies		
		for Medicaid and MD's two		
		top private insurers		
	B2-1-5			
	B2-2	Lab results		Yes
	B2-2-1	outpatient lab results		Yes
	B2-2-2	Outpatient episodes		Yes
	B3	Radiology Results		Yes
	B4	Radiology images		Yes
	B5	Inpatient episodes		
	B6	Dictation / transcription		Yes
	B7	Claims		
	B8	Pathology		Pathology and Microbiology
		enrollment / eligibility		
				Verify insurance eligibility, check status of
	B9			claims, submit referral request.
	B10	Cardiology		Yes
	B11	GI		
	B12	Pulmonary		
		Hospital discharge summary		
	B13			Yes - admissions, discharge and transfers
	B14	Emergency room reports		
	B15	Patient Reported Data		
		Ambulatory electronic health		
		record		Ambulatory order entry allows hospitals to
	B16			receive lab orders from physician offices
		Disease Management Tools		Electronic disease reporting and public
				health alerts; diabetes disease registry
				planned for beginning with 11 physician
	B17			practices.

Section		Requirement	Definitions	Ohio - HealthBridge
		Wellness and prevention		
		support based on national		
		proactive guidelines - disease		
	B18	management		
	B19	Medical Alerts		
	B20	Demographics		
	C.	Application Functionality		Axolotl's Elysium [®] Exchange solution
		Evaluate the following applications		
		based on use case analysis:		
	C1			
	C1-1	clinical messaging		
		Continuity of care records		
		(CCD)		Planned for in future along with
				community wide CDR, advanced
				administrative functions and advanced pop
	C1-2			health and research capabilities
	C1-3	Longitudinal health records		
		Elements of Shared Health		
	C1-4	Record		
		Insurance Eligibility		
	C1-5			Planned for future - web based eligibility
		Functionality to Support Access		Planned for in future along with
		to Data for Research		community wide CDR, advanced
				administrative functions and advanced pop
	C1-6			health and research capabilities
		Support for External		
	C1-7	Information Requests		
	C1-8	Master person index		
	C1-9	Record Locator Service		
		Health Record Banking		PHR integration planned for in next 1-2
	C1-10			years
	C1-11	Auditing		

Section		Requirement	Definitions	Ohio - HealthBridge
Section	C1-12	Security Applications	Definitions	
	D.	System Architecture		
		Plan for interfaces of data from		
	D1	data providers		Yes - uses secure connections
	D2	Push / Pull		
		Central Repository vs.		
	D3	Federated Model		
		Record Locator - Edge Servers		
	D4	ő		
	D5	Hybrid Model		
	D6	MPI		
	D7	HRB with opt-in		
		Web-based application (portal)		
	D8			
	E.	Reporting		
	F.	Standards		
		Standards for Message and		
	F1	Document Formats (HL7)		
		Standards for Clinical		
	F2	Terminology		
		Provide and implement CCHIT		
		certified EMRs for selected		
		physicians as determined by		
		XXXXX with options including:		
		EMR license with physician		
		storing in office; license with		
		storage at hospital or health		
		bank; license with storage at		
		vendor; ASP model		
	F3			

Section	1	Requirement	Definitions	Ohio - HealthBridge
		HITSP-endorsed IHE approach		
		appropriate for supporting		
		distributed data or HRB		
	F4			
	F5	ASTM Standards		
	F6	NIST e-authentication		
	F7	IHE		
		Project Management	Method for ensuring smooth	
Implementation	VII.		planning and implementation	
	Α.	Team Selection		
	В.	Detail Schedule		
	C.	Task development		
	D.	Hardware infrastructure		
	Ε.	Software Solution Deployment		
	F.	Interface analysis		
	G.	Interface Development		
	Н.	Agreement negotiation		
	Ι.	Solution Testing		
Maintenance	VIII.	Operations processes	Support functions	
	Α.	Staffing		
	В.	Support Services		