The Maryland Healthcare Commission Health Information Organization Research Kentucky - KHIE

Section		February, 2009	Definitions	Kentucky KHIE
Vision	l.	Vision		
	A.	Vision and Mission	Clear description of how to respond the unique needs an opportunities of HIE in state	Kentucky is a forming HIO - Vision is to create a laboratory to design, develop and research RIO and HealthCare outcomes for HIE. Purpose is to have a statewide implementation of the Kentucky HIE (KHIE)
Strategy and Planning	В.	Principles Financial Model and Sustainability	Economic Analysis of cost and benefit for each phase of implementation	
3	A.	Revenue Sources		
	A1	Transaction fees		
	A2	Subscription fees		
	A3	Membership fees		
		One time set up fee		
	A4	Hospital funding		
	A5	State Funding		
	A6	Federal Funding		
	A7	Health Plan funding		
	A8	,		
	A9	Philanthropic funding		
	B.	Budget		
	B1	capital		
	B2	operating costs	We have MICHIE and CRISP and some information on Vanderbuilt	
	B2-1	Salaries		
	B2-2	Benefits		
	B2-3	Office expense		
	B2-4	Rent		

Section		February , 2009	Definitions	Kentucky KHIE
	B2-5	Utilities		
		Software purchase and		
	B2-6	maintenance		
		Hardware purchase and		
	B2-7	maintenance		
	B2-8	Taxes		
	B2-9	Cyber Liability Insurance	Colorado only	
	В3	cash flow		
	B4	break even analysis		
	C.	Community Benefit		
	D.	Benefit Realization		
		ROI - financial		
	D1	measurement		
	D2	ROI - quality measurement		
		ROI - System use		
	D3	measurement		
	D3-1	how many users		
	D3-2	what do they access		
			A multi-stakeholder approach	
			that represents the needs of the	
trategy and			community and all stakeholders	
lanning	III.	Governance Framework		
		Ownership model: Public-Private		
	B.	Partnership		
	C.	Profit Status: Not-for-profit		
	D.	Articles of Governance		
	E.	Role of Local HIEs:		

Section		February , 2009	Definitions	Kentucky KHIE
Section		·	Definitions	Kentucky Krit
		May include but not require		
		creation of independent		
		governance entities to		
		oversee regional or local HIE.		
		All HIEs would conform with		
		statewide policies, standards		
	5 4	and rules.		
	E1	DUID and distant and the		
		RHIO participation will be		
		required (required as		
	50	regional governance entities)		
	E2	T. I I.O		
	F.	Technical Operations		
		Separate governing structure		
		from technical operations		
		(potential for combination in		
		latter stages) (governing		
		structure for technical		
		operations)		
	F1			
		Governance and technical		
		operations in single entity		
	F2			
	G.	Accountability Mechanisms		
		Direct oversight through		
		contracts with incentives for		
		adherence and penalties for		
		non-adherence		
	G1			
		Direct oversight via		
	G2	legislation		

Section		February , 2009	Definitions	Kentucky KHIE
	H.	Board of Director Composition		governed by the e-health network board and the Healthcare Infrastructure authority.
	H1	Governor's Office		
	H2	State Medicaid Agencies		
	H3	State Department of Health		
	H4	State Healthcare and Hospital Association		
	H5	State Medical Association		
		Other non-profits who are involved in the medical		
	H6	,		
		Government Agencies who may be a stakeholder		
	H7			
	H8	Consumers		
	H9	Employers / Purchasers		
	H10	Insurers		
	H11	Individual Health Care Providers		
		Hospitals		
		Clinics		
	H12	Pharmacy		
	H13	Clinical Laboratories		
	H14	Higher Education		
	H15	Quality Organizations		
		Local HIEs		
	J	Board Committees and Responsibilities		
	J1	Governance Board		
	J1-1	Maintain vision, strategy, and outcome metrics		

Section		February , 2009	Definitions	Kentucky KHIE
		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		
		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,		
	14.44	risk management		
	J1-11	Educate and resultat		
	J1-12	Educate and market		
	J1-13	Facilitate consumer input		

Section	February , 2009	Definitions	Kentucky KHIE
	Determining compensation for		<i>,</i>
J1-1	- '		
	2 Board Committee Charter		
	Broadens stakeholder		
	representation in governance		
J2-	-		
	Provides content expertise in		
J2-	-2 very specific areas		
	Represents clinicians,		
	consumers, employers and		
J2-	-3 payers		
J3	Types of Committees		
J3-			
	Privacy and Security (legal, S &		
J3-	·		
J3-			
J3-	·		
J3-			
	Finance		
	Operational / Management Positions		
l.	and Responsibilities		
	1 Management		
I1-			
	Responsibilities of HIO		
12	Management and Staff		
	Execute strategic, business		
	and technical plans		
12-			
	Coordinate day-to-day tasks		
12-	2 and deliverables		

Section		February , 2009	Definitions	Kentucky KHIE
		Establish contracts and other		
		relationships with		
	12-3	•		
		Provide industry knowledge		
	12-4			
	12-5	Advise the Board		
Strategy and				
Planning	IV.	Privacy and Security		
	A.	Registration		
		Type of Registration authority		Plan for a credentialing service
	B.	Authentication		Early planning stages
	B1	providers		Authentication of user identity - Unique user Id
	B2	consumers		Authentication of user identity - Unique user Id
	В3	public health		Authentication of user identity - Unique user Id
		other institutions		
	B4	(educational)		Authentication of user identity - Unique user Id
	B5	non licensed providers (if any exist in state)		
		data authentication (in and		
	В6	· · · · · · · · · · · · · · · · · · ·		
		system authentication (system		
	B7	<u> </u>		Planned for also as cross referencing in the master
	C.	Identification		person index - must have identity verification at registration
	C2	public health		
	+	other institutions		
	C3			
	+	non licensed providers (if any		
	C4			
	C5	· · · · · · · · · · · · · · · · · · ·		

Section		February , 2009	Definitions	Kentucky KHIE
	C6	system identification		Planned for by having organization identification
		Credentialing of health care		
	C7	providers		Plan for a credentialing service
	D.	Audit		Audit trail of all transactions, include data and time, use of data, code module making the change
	D1	what is audited		Activity logging of data accessed - logging of authorization history
	D2	who audits		Vendors
	D3	how often		
	D4	external audit requirements	Could include consumer audit requirements as well	
	E.	Authorization		
		providers authorized to see		
	E1	what data		Limit to data
		consumers authorized to see		
	E2	what data		Consumers in charge of authorizing who can see data
	E3	public health authorized to see what data		
	E4	other institutions (educational) to see what data		
	E5	non licensed providers (if any exist in state) to see what data		
	E6	data authorization		
	E7	system authorization		
	F.	Access	Role Based using HL7 Standards	
	F1	Who can access what data		provide for role based access - restrict data based on role

			- 6 w	
Section		February , 2009	Definitions	Kentucky KHIE
		Who can change, update data	Consumer controlled access	
	F2			Consumer access control
		Sensitive specially protected		
		health information - substance		
		abuse, HIV/AIDS, genetic etc.		
	F3			Must be protected per federal and state laws
	G.	Consent Framework		
	G1	Type of Consent		
	H.	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		
	l1	authentication		
	12	audit		
	13	authorization		Support for policy governing patient authorization for data sharing
	14	access		
	15	consent		
	17	Break the glass		

Section		February , 2009	Definitions	Kentucky KHIE
300000		Support for Policies Governing	Definitions	Remedery Rine
		Patient Authorization for Data		
		Sharing as in HRB		
	110	Sharing as in till		
	J.	Legal Issues		
	J1	HIPAA considerations		HIPAA compliant
				·
	J2	MDCMRA as may be required		
			Ensure Transparency, convene all	
			stakeholders, educate.	
			Understand market forces,	
			patterns of care, who to connect	
			to and political environment and	
			form relevant policy to enable	
			improved community health	
Strategy and			status	
Planning		Stakeholder Outreach and Education		
	B1	Consumers		
	B2	Under-served		
	В3	Providers		
	B4	Public Health		
	B5	Government Agencies		
	В6	Non-profits		
			Implementation Sequencing –	
			Who has access first and	
			Implementation Phasing - What	
			information is available first	
Detail Design	VI.	Care Delivery		
	A.	Data Partners		
	A1	<u>'</u>		
	A2	Laboratories		
	A3	Clinics		

Section		February , 2009	Definitions	Kentucky KHIE
	A4	Pharmacies		
	A5	Individual Physician Practice		
	A6	Nursing Homes		
	A7	State Health Agencies		
	A8	Quality Organization		
	A9	Medicare		
	A10	Medicaid		
	A11	Insurers		
		Data Exchange Requirements	Use case analysis to determine	
			actors, information they need,	
			how to provide:	Physician Order Entry, Disease Mgmt, Public Health, de-
	В.			identified data
		Medication history and		
	B2-1	reconciliation		Planned for
		e-prescribing and prescription		
	B2-1-3	histories		Planned for
	B2-2	Lab results		Planned for
	В3	Radiology Results		Planned for
	В4	Radiology images		Planned for
	B5	Inpatient episodes		
	В6	Dictation / transcription		
	В7	Claims		
	B8	Pathology		
	В9	enrollment / eligibility		Planned for
	B10	Cardiology		
	B11	GI		
	B12	Pulmonary		
	B13	Hospital discharge summary		
	B14	Emergency room reports		
	B15	Patient Reported Data		
		Immunization		Planned for
		Bioterro alerts		Planned for

Section		February , 2009	Definitions	Kentucky KHIE
		Ambulatory electronic health		
	B16	record		
	B19	Medical Alerts		Planned for
	B20	Demographics		Planned for
	C.	Application Functionality	Evaluate the following applications based on use case analysis:	
	C1-1	clinical messaging		Planned for
	C1-2	Continuity of care records (CCD)		
	C1-2	Longitudinal health records		
	C1-5	Insurance Eligibility		
	CI 3	Health Services Research, public		
	C1-6	health		Planned for
	C1-8	Master person index		Credentialing service
	C1-9	Record Locator Service		
	C1-10	Health Record Banking		Planned for
	B17	Disease Management Tools		Planned for
	B19	Medical Alerts		
	D.	System Architecture		ASP Model
	D1	Plan for interfaces of data from data providers		Physicians with EMR systems must be allowed to connect seamlessly - need interfaces to Centricity, Eclipsys, Epic, McKesson, Meditach and Siemens SMS Invision
	D3	Central Repository / Federated Model		Central system where data maybe stored and a Distributed system which includes more than one HIE, insurance companies, e-prescribing repositories
	D4	Record Locator - Edge Servers		Planned for
	D5	Hybrid Model		Hybrid model - data remains in the same location as the source system

Section		February , 2009	Definitions	Kentucky KHIE
	D6	MPI		Credentialing of Health Care Providers - Master Person Index
	D7	HRB with opt-in		Planned for - still deciding on opt-in or opt-out
		SOA - Service Oriented Architecture		
	D8	Web-based application (portal)		EMR - lite provided for physicians who do not have an EMR
	C1-11	Auditing		
	C1-12	Security Applications		
	E.	Analytics - Reporting		
	F.	Standards		MITA
		Standards for Message and		
	F1	Document Formats (HL7)		Planned for
	F2	5,		
	F3	CCHIT - ENHAC Standards for Certification		All systems connecting to the HIE must be CCHIT certified
	F4	HITSP		Yes
	F5	ASTM Standards		
	F6	NIST e-authentication		
	F7	IHE		
		Project Management	Method for ensuring smooth	
Implementation	VII.		planning and implementation	Project Management provided by ASP
		Gap Analysis of current technologies		System Analysis - Identification of barriers
			We can only address this in	
			general - intended to be in	
			general who is running the project	
			and if PM standard techniques in	
	A.	Team Selection	place.	Planned for
	B.	Detail Schedule		Planned for
	C.	Task development		Planned for

Section		February , 2009	Definitions	Kentucky KHIE
	D.	Hardware infrastructure		Planned for
	E.	Software Solution Deployment		Planned for
	F.	Interface analysis		Planned for
	G.	Interface Development		Planned for
	H.	Agreement negotiation		Done by Kentucky
	I.	Solution Testing		Planned for
Maintenance	VIII.	Operations processes	Support functions	ASP model
	A.	Staffing		
				Change control, 24x7 support, System test planning,
	B.	Support Services		disaster recovery plan