

Conceptual Review and Business Case (Version 3)

for Information Technology (IT) Projects for the 2017-18 Budget Cycle

GENERAL GUIDELINES

Use this form to provide information about your project for \underline{both} conceptual review \underline{and} your business case.

<u>Conceptual Review Instructions</u>: Answer questions #1 to 21 in Sections 1 to 5 below. You must submit this completed form via email to Karl Nygard in PSB. King County's Office of Performance, Strategy and Budget (PSB) and Chief Information Officer (CIO) will evaluate your proposed concept. **If** your concept is **approved**, you will later use this same form to develop your business case.

<u>Business Case Instructions</u>: Answer questions #21b to 26 in Sections 6 to 9. Additionally, complete a Cost-Benefit Analysis (CBA) workbook and Benefits Achievements Plan (BAP). Submit this completed form, CBA, and BAP via **SharePoint**. Contact Gaukhar Serikbayeva in PSB if you have any questions. If your business case, CBA, and BAP are approved, your project will be included in the County Executive's budget proposal for the 2017-2018 budget cycle.

CONCEPTUAL REVIEW QUESTIONS (1-21a)

Section	n 1:	Prop	osal/Con	tact Info	rmation
	_				

1	Depart	ment/Agency Name	KCSO	Division	Choose an item.
2	Projec	t Sponsor (Last, First)	John Urquhart	Job Title	Sheriff
3	Projec (Last, F	t Contact Name First)	Frisk, Donna	Job Title	IT PM III
4		ubmitted DD/YYYY)	03/13/2017		

Section 2: Project Background

5	Project Title	RMS I	RMS Replacement		
C Tayant Dates	Towart Dates	Start (Quarter # Year) End (Quart	End (Quarter # Year)		
6	Target Dates	6.1	4Q 2016	6.2	4Q 2017

Business Need/Problem Statement (max 250 words). Describe how this concept will transform your business to solve a <u>business</u> problem? What external factors (e.g., compliance guidelines, legal mandates, and audit findings) exist to drive this concept?

Past State

The legacy Records Management System (RMS), IRIS, was built in 1997 and TESS, evidence tracking system, were not designed for the demands and capabilities of current and evolving environment or for high performance, security and scalability in a heavy multi-user environment. Audit logs are minimal and deputies spend too much time writing case reports vs. patrol community policing. This situation causes a significant patrol productivity impact and limits participation in county integration projects. IRIS/TESS are past their end of life, very fragile, and the system platform is no longer supported. Therefore, King County Sheriff's Office (KCSO) will be implementing a SaaS to replace the fragile IRIS/TESS systems.

Recent State

KCSO has been working to implement a new RMS (TE) for the past several years. Property Management Unit (PMU) went live with TE July 2014 and TESS was decommissioned. 250 (30% of KCSO) professional staff went live in October 2015. CID went live March 2016 and Kenmore/Shoreline were trained in April. As soon as TE was piloted to patrol and detectives, it became clear that police work was being compromised due to the length of time it took to writing case reports and TE was not a viable solution for patrol (70% of KCSO). On May 31st, 2016 Sheriff Urguhart made the decision to suspend TE for officers.

Future State

Since TE is not a viable replacement solution for patrol, KCSO's selected option is a Sole-source 1 year Subscription Pilot with Mark43. The project

Project Description (max 250 words). Describe the proposed project and IT investment and how it will solve your business need/problem. List any system(s) that will be replaced. What business function(s) will this proposed investment support?

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Incident/case reports and property are being entered in the legacy IRIS RMS by officers. The data in IRIS is populating TE via daily periodic migration, allowing PMU to manage property/evidence. At this time TE is the repository for all KCSO RMS/Property data. However, TE is not a viable RMS option for officers to use for their incident/case reports due to issues described in above Problem Statement. The addition of the federal NIBRS process to TE caused the officers writing of reports to be 4X greater than normal

KCSO's goal is to replace both IRIS and TE with a product that minimizes patrols case report writing time and allows PMU to manage property. KCSO is looking for a web-based, subscription solution that can be piloted for 1 year before committing to the solution long term. The selected option (Mark 43's Cobalt) is a Sole-source, web-based 1 year Subscription Pilot that resides in the AWS Gov-Cloud.

Historical incident/report data from TE will be migrated to Cobalt. Ninety (90) after KCSO is fully deployed on Cobalt (October 1, 2017), IRIS and TE will be decommissioned.

Since this is the same RMS replacement project with a different solution, the remaining \$1,187,631 of the projects \$5,832,209 funding will be spent on Training Over Time, IT Project Manager, IT Business Analyst and Functional Analyst, with \$60,000 in contingency. KCSO requested funding in the 2017-18 budget for the 1 year subscription for the Cobalt Pilot.

Project Value and Anticipated Benefits (max 250 words). Describe the value that your solution will provide to King County's constituents and organizations. What are the anticipated, tangible benefits (i.e. new revenue, reductions in cost or time, customer service delivery improvements) and intangible benefits (i.e. cost avoidance) of your proposed IT investment? List expected outcomes, and when will the results be measured for each to the best of your ability using the information available now?

In summary:

- Benefit 1. Improved officer safety
- Benefit 2. Improved ability to research and identify problem causes through full audit logs
- Benefit 3. Ability to report NIBRS (hence, compliance with Federal Government requirement)
- Benefit 4. Reduced amount of officers' and Comm Center's time spent on writing reports

With the implementation of a new system improved business processes will be identified and deployed, reducing officer's time spent writing reports and increasing time spent community policing. New system will decrease down time associated with system failures and troubleshooting, significantly improving service area coverage and reducing overtime incurred by technicians supporting antiquated systems. It will substantially improve delivery of services to contract cities by enhancing officer's ability to quickly recognize, analyze and respond to crime trends.

Cobalt will capture the NIBRS data using built in rules within the application, reducing officer report writing times and providing statistical data on crimes and trends to contract cities and the FBI. NIBRS compliance makes federal funding potentially available to KCSO in the future.

Cobalt creates new opportunities for future regional data sharing with other Mark 43 customers. The system could also be shared directly with PAO. Seattle Police Department is also looking at Cobalt for their RMS. KCSO and SPD could link their RMS and have view only access to each other's cases.

Business Process Impact(s) (max 250 words). Describe the business process(es) impact this concept will have. How significant the business process/processes change will be? Will the business change include Lean efforts and/or continuous service improvement?

With the implementation of a new SaaS system this gives KCSO the opportunity to review and improve business processes that have been in place for decades, improving efficiencies. For example Cobalt provides an officer's dashboard containing recent cases, cases assigned to them, persons involved with associated alerts, and BOLOs allowing for proactive investigative work. This is something KCSO did not

have before and will reduce the time patrol spends writing reports and increases time spent on the streets, improving community policing.

The identified process changes will be identified and worked with the vendor, Business Analyst and project team during the design phase of the project. Training scenarios (for officers, 911 operators, and professional staff) will be developed based on the findings of the business process mapping (highlighting differences between the old and the new systems). Approximately, 5 hours of training is envisioned per person. No impact on the union is anticipated.

	on 3: Funding Sources and High-level Cost Es	timates			
11	Project Funding Sources				
	Identify the potential funding sources for this pro-	oject.			
	☐ King County General Fund		☐ Debt Financing		
	⊠ King County Non-General (Agency) Fund		☐ Unknown		
	☐ King County Non-General (Agency) Fund	(Operating)			
	☐ External, non-King County funding (e.g.,	grant): Click here to	enter text.		
12	Project Cost Estimates				
	Use the drop-down list below to select the estim	nated initial project cost,	, not including ongoing annual op	perations and	
	maintenance costs				
	Level 2 - \$1M-2M				
13	Ongoing Annual Operations and Maintenar	nce Cost Estimates			
	Use the drop-down list below to select the estim	nated ongoing annual O	&M cost of your project.		
	Less Than \$5K				
Section	n 4: Strategic Alignment				
14	Alignment with King County's Strategic Plan		iding Principle or Goal that your	project best helps	
	to accomplish. Click the link to view the King Cou				
	Quality Local Government	Safety and Justice			
15	Alignment with Your Organization's Missio	n and Goals. Describe	how the proposed investment w	ill contribute to	
	achieving your organization's mission and goals.				
	KCSO's mission is to be a trusted partner in				
	reduce crime and the fear of crime, as well	ll as develop and sust	tain public value and support	t.	
	By implementing a new RMS that is web-b	ased, intuitive and e	asy to use, patrol will spend	less time in the	
	office writing reports. This allows them m	ore time in their serv	vice area providing visible po	lice presence	
	and working with the community to reduc	e the fear of crime, i	dentifying crime trends thro	ugh the new	
	RMS, proactively investigating crimes, and	l improving communi	ity policing.		
	The new RMS will also reduce the Comm.	Center call taker's tir	me to write 911 call reports,	allowing them	
	to answer calls and dispatch the officer fas			_	
16	Measuring Strategic Impact (250 word max).		·		
	impact of the areas impacted in King County and		_	Significant	
	much of an impact you anticipate this project ha	ving toward this goal.		Impact	
	Since the RMS is the core application of KCSO, implementing a new RMS will impact the entire department.				
	Commission of Officers The new DMC will significantly the state of the				
	Commissioned Officers: The new RMS will significantly enhance the department's ability to keep its				
	deputies in the field, providing an increase in community service without a corresponding increase in				
	personnel. Having the RMS and CAD inter	tace will give the offi	icers the ability to access all	records	
	associated with an incident.				
	PMU: Cohalt will streamline some of the o	urrent nrocesses eli	minate manual naner proces	ss for disposing	

of property, eliminate the duplicate manual process used to track evidence chain of custody and the correction of incorrectly entered case numbers. Having the property in the same system will allow officers

to view property from cases centrally.

Records: Potentially replace several faltering databases (pistol licenses, citations, etc.). Eliminate manual eFiling processes, offsetting need for additional staff to complete current work. The addition of NIBRS reporting demands additional resources. Will add edit and validation checkpoints to increase data integrity and reduce workload and improve bi-directional public access.

Comm. Center: Improved report writing times and processes also benefit the Comm. Center's call answering efficiency (taking 30% of KCSO reports). Reduce call taker's time to record 911 calls, answering calls and dispatching officers faster. This will decrease the caller's time on the phone.

Data: Eliminate the manual process of Comm. Center faxing vehicle cards to Data so they can enter them into NCIC for stolen and recovered vehicles. Eliminate the manual missing person notification to the Missing Persons Unit.

Risks (max 250 words). Identify the risks of this concept and what will be planned to mitigate risks in the project? Some of the areas that you should consider when assessing the risk of this project to be included in the formal risk plan to be developed during the project are: The number and type of business process changes required, the number and type of integrations and with what types of systems, the need for external Q&A, managerial and staff capacity both for the business and technology, training and change management within your agency and externally if required, key staffing and retention risks, the ability to support the technology implementation and ongoing needs, and how these risks are reflected in the project budget.

Risk	Mitigation		
User Acceptance of System	Sheriff/Command Staff support, better communication to the department		
User Adoption/Culture change	Early and mass communication of process changes. Updating GOM with new policies		
Ability to meet Go Live October 2017	Started contract wording/negotiations, prep work on configuration/setup, historical data cleanup so when approval is given, sign contract and hit the ground running		
Cobalt does not work for KCSO	Payment based on 60/day System Acceptance. If KCSO does not accept system, KCSO could walk away without paying anything		
Unclear Implementation/Project Plan	Require detailed plan with dates in the SOW		
Property Module built and functional,	Vendor working closely with PMU Sgt. on requirements. Tied		
June 2017	to 60/day acceptance payment		
Case Management Module built and	Vendor working closely with Major Crimes Sgt. on		
functional, January 2017	requirements. Tied to 60/day acceptance payment		
Business requirements unclear, not	More specific definitions of requirements, Met with SMEs to		
well defined by end users	review requirements, Worked with PAO on legal wording, Received feedback from other agency PMs/Business Analyst		
Inadequate # SME/Trainers	Have CD and Chiefs identify 24 total SME/Trainers, pulling from each Unit/Location		
Availability of key staffing (PM, BA, FA, Developer)	Chief of Tech Services identify budget and resources		
NIBRS meeting FBI requirements for accuracy	NIBRS requirements in SOW. Hire Record's NIBRS QA staff		
Available Night Mode, officer safety issue	Contract requirement. Possible alternate software to accomplish		
Active Directory Authentication	Requirement in SOW. Tied to 60/day acceptance payment		
Auto-save available	Requirement in SOW. Tied to 60/day acceptance payment		

18 Alignment with King County's Strategic Technology Plan. Select the "What" goal that best aligns with your project. Click the link to view the King County Strategic Technology Plan, slide 2. **Systems Effectiveness** Alignment with King County's Enterprise Architecture (EA) Principles. Select the overarching EA principle that is 19 most important for this effort. The purpose of this section is to elicit meaningful discussions with King County's CIO and the EA Team during the evaluation of your business case. Minimize cost/complexity Are you aware of a technology, solution, or application in use at the County that provides 20 similar functionality to this project? If a potential technology solution or product that would likely No meet the needs of the proposed concept been identified, describe the technology solution or product. Click here to enter text. 21.a Have potential systems (i.e., Oracle EBS, PeopleSoft, Hyperion) that may need to integrate with the proposed solution been identified? If yes, identify the organizations and describe the impact of this project on other business systems. If your project impacts Oracle EBS, PeopleSoft, or Yes Hyperion, you must provide the following information in the space below: 1) Central business system Change Management Board (CMB) review date and 2) the business or system expertise you anticipate needing for this project and target dates for required resources. The new RMS will interface with several external systems to provide data to help solve crimes. Mark 43

will work with those vendors to develop the interface to the new RMS. Those systems are:

TriTech's CAD	Create reports based on the reporting event number from the CAD ticket and pre populate basic information (based on current data being transferred to TE) on a report.
FBI NIBRS	Will send user entered data to the State NIBRS for each KCSO entity (i.e. Shoreline reports are submitted under their agency ORI where as KCSO are submitted under the KCSO ORI
Citizen Online Reporting (CopLogic)	The RMS will receive low level incident reports from CopLogic for processing by Sheriff's Office users (public enters this data online)
KC Jail's BARS	Allow users to electronically send booking information to BARS prior to the user's arrival at the King County Jail
KC DAJD's Crimes	Provide a mechanism for users to retrieve mugshots from CRIMES and be attached to person profiles on reports
ACCESS	Allow role based users to submit data from reports to local, statewide, and federal data exchanges through the ACCESS Message Switch. Vendor will develop functionality for authorized users to search sensitive data from local and federal sources, so authorized users do not need to continue using the Omnixx portal and TE CAD to query data from ACCESS.
Federal LinX NW	Records management to federal information sharing allows data from approved County case reports to transfer automatically to the LInX NW regional data exchange
PublicEngines CrimeReports.com (Socrata)	Incident Reports that are in 'Approved' or 'Filed' status presented to the public (location converted to: 100 block only)
WSP Sector – eTicketing	Users will be able to retrieve data from Sector to populate system data fields
PAO eLodi	For Detectives to transmit case reports, with electronic signature, to the PAO eLodi system

<END OF CONCEPTUAL REVIEW QUESTIONS>

BUSINESS CASE QUESTIONS (21b-26.17)

Have you consulted with Records Management to verify that the records retention plan and policy for the solution proposed with this project is in accordance with standard county procedures? If yes, please describe how the records retention needs, that proposed solution would have, are considered as a part of the project budget and how resourcing requirements are considered as a part of the ongoing cost. If no, please describe why this solution is exempt from records retention requirements.

No

Reviewing with internal KCSO Public Records Program Manager

Section 6. Project Planning

Major Milestones and Estimated Costs. In accordance with King County Code, Section 2.16.0757, this information will be used to develop King County's Annual Technology Business Plan to report progress against milestones. Identify at least two major milestones (e.g., planning, preliminary design, design, implementation, and/or close out) for each year of the project and the estimated costs associated with each milestone.

Start Date	End Date	Major Milestones	Estimated Cost (\$)
(select from calendar)	(select from calendar)	(enter descriptions)	(no commas)
12/18/2016	02/10/2017	Initiation	Included in
			subscription rate
03/01/2017	06/15/2017	Configuration	Included in
			subscription rate
02/20/2017	06/15/2017	Interfaces	Included in
			subscription rate
05/01/2017	07/30/2017	TestingInterfaces	Included in
			subscription rate
08/01/2017	09/20/2017	Training	Included in
			subscription rate
10/01/2017	12/31/2017	Go Live & Pilot Final Acceptance Complete	Included in
			subscription rate

Section 7: Alternatives Analysis

Alternative Solution(s) Analysis. Identify any alternative solutions considered to solve your business problem. You must provide a brief description, a high-level cost estimate, and the pros and cons for each alternative listed. Alternative A should describe your preferred alternative, followed by a brief statement why it is your preferred solution.

Alternative A Pros

Aiternative A		Pros	Cons	
Name:	Mark 43 – Cobalt	Very intuitive, looks like Turbo	No auto save of work	
Estimated Cost:	\$56,320/month	Tax (i.e.: scroll through report)	30 second software	
Estimated Cost.	(\$80*704 officers)	Officer could spend less time	programmed with inactivity	
Description : Prefe	erred option is a	writing reports	time out - causing multiple	
Sole-source 1 year	r Subscription Pilot	Working with Major Crimes Det.	interruptions for patrol	
with Mark 43.		Sgt to develop Case	officers (KCSO uses	
		Management, will be available	computer based time-out to	
		for Go Live	meet CJIS audit)	
		Working with Property	Case Management currently	
		Management Sgt to develop	under development & in	
		Property Module	"test"	
		NIBRS fields are within the case	Property Module under	
		vs. showing on separate NIBRS	development, not available	
		tabs	until June 2016	
		 Ability to list all missing, but 	Case level sealing currently	
		required NIBRS fields	under development & in	
		 Newly revised Case Report was 	"test"	
		developed to meet KCSOs needs	Additional CJIS audit	
		(fewer pages)	management necessary	
		AWS Gov-Cloud based servers	(note: with Azure, WSP	

- · Enhancements are built and delivered based on client/vendor brainstorming (on vendor's timeline)
- Ability to interpret needs of the client and program into software correctly
- Direct communication of vendor with business SME (better than IT interpreting)
 - system issues (more Agile)

- manages partial audit requirements)
- Vendor help desk with issues log and expected dates of completion not available to the county

• Very knowledgeable at solving

Describe why Alternative A is your preferred solution:

It is web based and located on AWS Gov-Cloud. It is very intuitive. The officer will be able to reduce the amount of time writing reports, improving community policing.

What is the expected useful life, in years, of the proposed technology associated with Alternative A? This is a 1 year subscription based pilot. If the solution is accepted by KCSO, the subscription could be

Could pull out. Alternative B Name: TriTech - Inform Estimated Cost: \$ 13,687.50/month Description: 1 year Subscription Pilot with TriTech. Pros • Officers could spend less time writing reports • Auto saves every 20 seconds • Integrated with Active Directory	Cons Converting Inform to
Name: TriTech - Inform Estimated Cost: \$ 13,687.50/month Description: 1 year Subscription Pilot Officers could spend less time writing reports • Auto saves every 20 seconds	
Estimated Cost: \$ 13,687.50/month writing reports Description: 1 year Subscription Pilot • Auto saves every 20 seconds	Converting Inform to
 No time-out due to inactivity Property Module is available, but not web bases yet IQ Analytics - data warehouse module available robust search capability ongoing maintenance provided access to data through queries and reports in real time ability to remove all data immediately if necessary NIBRS fields are within the case vs. showing on separate NIBRS tabs 	web base but will not be complete until end of 2017 so some module are used on the web and other are not Clicking on various tabs is less intuitive Case management under development Supervisor must approve report before property can be accessed by PMU Disposal of property is not a fully-automated process Case file cannot be sealed at a folder level Reports are lumped together and printed as one document Reports do not delineate who wrote what narrative (difficult to determine who did what on an investigation) Since it is not fully web, on premise in-house servers (physically

secured, but extra

overhead)

			Best practices are shared among user community		
	Alternative C		Pros		Cons
	Name:	Click here to enter text.	Click here to enter text.	Click here	to enter text.
	Estimated Cost:	Click here to enter text.			
	Description: Click	nere to enter text.			
	Alternative D		Pros		Cons
	Name:	Click here to enter text.	Click here to enter text.	Click here	to enter text.
	Estimated Cost:	Click here to enter text.			
	Description: Click				
	n 8: Required Atta				
24	•	rsis (CBA) Workbook.	Check the box below to confirm that you have	e uploaded a c	completed CBA in
	Innotas.	at la a a fit a a a l i a			_1
25	<u> </u>		orkbook is included with this business c		
25		• •	the box below to confirm that your agency h ble for updating this plan.	as upioaded a	completed BAP in
		•	ded with this business case document		
Section		hnology Consideration			Drop-down Values
26.2			ology(s) to the County?		Yes
20.2	Solution is new to		blogy(s) to the county:		163
26.3			olution for multiple groups in the County	2 In other	
20.5	Can the project result in an enterprise solution for multiple groups in the County? In other words, does it have functionality that might be re-used by others?				
			iture regional data sharing with other N	Nark 43 cust	omers. The
		• •	th PAO. Seattle Police Department is a		
	•	•	AS and have view only access to each of	_	
26.4			(s)? If yes, list the system(s) being replaced.		Yes
		RIS and TE RMS syste			
26.5	<u> </u>	· · · · · · · · · · · · · · · · · · ·	ond immediate needs? For example, have	you factored	
	in the likely growth i Have you taken into	n the number of users ar	nd amount of data over the estimated life of tredicted future requirements of other County	the solution?	Yes
	Cobalt creates nev	w opportunities for fu	iture regional data sharing with other N	/lark 43 cust	omers. The
	system could also	be shared directly wi	th PAO. Seattle Police Department is a	lso looking a	t Cobalt for their
	RMS. KCSO and S	PD could link their RN	AS and have view only access to each of	ther's cases.	
26.6	·				Yes
	Worked with offic concerning the ne		Center, data, Tech Manager, CID, prope	erty and othe	er Units
26.7		se or leverage techno ficant investment?	logies or applications from vendors in w	hich the	No
	Click here to ente	r text.			
26.8	Will the solution a data?	llow the County to ge	t a more holistic view of County process	es and	No
	Click here to ente	r text.			

26.9 Have you reviewed KCIT's IT policies that may be applicable to your project? Refer to the	
following link for more information regarding King County's IT policies.	Yes
http://kcweb.metrokc.gov/oirm/policies.aspx	
Reviewed KC IT Security policies tied to CJIS audits	
26.10 If you answered "yes" to question 21.a, describe the proposed method(s) to interface/integral	ate with other
systems.	
KCSO will be using a Message Switch internally supported server for Interfaces	
26.11 Will the solution require a client installation on a computing device?	No
Click here to enter text.	
26.12 Will the solution be available in a format optimized for mobile devices to enhance the	Yes
customer experience?	res
Mobile laptops will continue to be used by the officers with the RMS	
26.13 Will the solution require the movement of additional large amounts of data across the	
network? If yes, use the space below to describe the # of records, type of processing, or type of files	No
(e.g. voice, video) being transmitted.	
Similar amount of data that was being sent in IRIS & TE.	
26.14 Will this project introduce any new type of information asset risk for which the County	
must develop a plan to manage? If yes, describe the approach to accessing, storing, managing or	Yes
using data that the County has not managed before and identify potential mitigation strategies.	
AWS Gov cloud solution	
26.15 Will the solution create another version of existing data? If a replica of an existing database	No
must be made, use the space below to describe why it is necessary.	
26.16 Does the solution follow any applicable industry standards or Community of Interest (COI)	Yes
standards (e.g., HL7 standards for health records) that apply to the data in your project?	
CJIS security standards apply	
26.17 Will the solution use protected information? (e.g., Personally Identifiable Information (PII), credit	Yes
card information, Protected Health Information (PHI), or Criminal Justice Information)	
CJIS and PII data are contained in the RMS	
<end business="" case="" of="" questions=""></end>	