

# King County Cost Benefit Worksheet

## Summary - Form 1



King County

Project Name  
Submittal Date

KCSO RMS Replacement  
Mar-2017

Version

1

2017-18 Biennial Budget

Input data in white cells only

Year:	2009-2016	2017	2018	2019	2020	2021	2022	2023	TOTAL
PROJECT COSTS (Form 2): Current Request	4,660,207	1,036,803	675,840	-	-	-	-	-	6,372,850
Contingency % (See Tab A)	0%	13%	0%	0%	0%	0%	0%	0%	0.00%
Contingency \$	-	135,199	-	-	-	-	-	-	135,199
Project Costs - Prior Appropriations	-	-	-	-	-	-	-	-	-
TOTAL PROJECT COSTS	4,660,207	1,172,002	675,840	-	-	-	-	-	6,508,049
OPERATING COSTS (Form 3)	-	-	-	-	-	-	-	-	-
Total Cost Outflows	4,660,207	1,172,002	675,840	-	-	-	-	-	6,508,049
BENEFITS	-	-	-	-	-	-	-	-	-
Net Annual Cash Flow	(4,660,207)	(1,172,002)	(675,840)	-	-	-	-	-	(6,508,049)
Cumulative Cash Flow	(4,660,207)	(5,832,209)	(6,508,049)	(6,508,049)	(6,508,049)	(6,508,049)	(6,508,049)	(6,508,049)	(6,508,049)
Net Present Value	(4,660,207)	(5,776,399)	(6,389,406)	(6,389,406)	(6,389,406)	(6,389,406)	(6,389,406)	(6,389,406)	(6,389,406)
IDENTIFY REVENUE SOURCES									
Project	1111808	5,832,209							5,832,209
Project	2017 Operations		675,840						675,840
Project									-
Total Project Revenue	5,832,209	675,840	-	-	-	-	-	-	6,508,049
O&M									-
Total Revenue	5,832,209	675,840	-	-	-	-	-	-	6,508,049
TOTAL PROJECT CASH NEEDED	(1,172,002)	496,162	675,840	-	-	-	-	-	(0)

Cost of Capital	Breakeven Period- yrs.* Non-Discounted	Breakeven Period- yrs.* Discounted	NPV \$ (7 yr)	IRR %
5.00%	No Payback	No Payback	(6,389,406)	NA

\* - IRR% will display as #num if an error has occurred. Contact PSB for help.

# King County Cost Benefit Worksheet

## Project Costs - Form 2



Project **KCSO RMS Replacement**  
 Submittal **3/1/2015**

Solution Alternative **1**  
 Version **2017-18 Biennial Budget**

*Input data in white cells only*

PROJECT COSTS	Account	2009-2016	2017	2018	2019	2020	2021	2022	TOTAL
IT - Salaries, Wages & Benefits	511XX			0	0	0	0	0	0
Business Salaries, Wages & Benefits	511XX			0	0	0	0	0	0
<b>Total Salaries and Benefits</b>		0	0	0	0	0	0	0	0
<b>Supplies</b>	52110								0
<b>EDP Supplies</b>	52212								0
<b>Consulting IT Services</b>	53127	2,470,695							2,470,695
<b>Travel</b>	53310	1,960							1,960
<b>Hardware/Software</b>	56740			675,840					675,840
<b>System Vendor Equipement/Work</b>	56780								0
<b>Capital IT Lease - Principal</b>	57303								0
<b>KCSO Salaries</b>		580,151	171,000						751,151
<b>Training OT</b>			500,000						500,000
<b>Quality Assurance</b>			50,000						50,000
<b>PMO Service</b>			108,000						108,000
<b>BA Service</b>			97,800						97,800
<b>Interfaces</b>			10,000						10,000
<b>Other</b>		1,607,401	100,003						1,707,404
<b>CAPITALIZED Project Costs</b>		4,660,207	1,036,803	675,840	0	0	0	0	6,372,850

## King County Cost Benefit Worksheet

## Project Labor Costs - Form 2A



## King County

Project  
Submittal Date

KCSO RMS Replacement  
3/1/2017

**Solution Alternative  
Version**

1  
2017-18 Biennial Budget

**Input data in white cells only**

[illegible]

## King County Cost Benefit Worksheet

[illegible]

# King County Cost Benefit Worksheet

## Ongoing Operations and Maintenance Costs - Form 3



Project **KCSO RMS Replacement**  
 Submittal Date **3/1/2017**

Solution Alternative **1**  
 Version **2017-18 Biennial Budget**

*Input data in white cells only*

O&M COSTS	Account	2009-2016	2017	2018	2019	2020	2021	2022	2023	TOTAL
IT - Salaries & Wages	511XX	-	-	-	-	-	-	-	-	-
Business Salaries & Wages	511XX	-	-	-	-	-	-	-	-	-
<b>TOTAL SALARIES</b>		-	-	-	-	-	-	-	-	-
Employee Benefit Costs	511XX	-	-	-	-	-	-	-	-	-
Supplies	52110	-	-	-	-	-	-	-	-	-
EDP Supplies	52212	-	-	-	-	-	-	-	-	-
Consulting IT Services	53127	-	-	-	-	-	-	-	-	-
Subcontract IT Services	53179	-	-							-
Travel	53310	-	-	-	-	-	-	-	-	-
Printing	53806	-	-	-	-	-	-	-	-	-
Training-IT	53813	-	-	-	-	-	-	-	-	-
IT - Internal Service	55xxx	-	-			-	-	-	-	-
Hardware/Software	56740	-				-	-	-	-	-
Communication Equipment	56780	-	-	-	-	-	-	-	-	-
Capital IT Lease - Principal	57303	-	-	-	-	-	-	-	-	-
Capital IT Lease - Interest	57304	-	-	-	-	-	-	-	-	-
Other (specify)		-	-	-	-	-	-	-	-	-
Other (specify)		-	-	-	-	-	-	-	-	-
Other (specify)		-	-	-	-	-	-	-	-	-
<b>TOTAL O&amp;M Cost</b>		-	-	-	-	-	-	-	-	-

# King County Cost Benefit Worksheet

## A. Contingency Calculation



Project Submittal Date **KCSO RMS Replacement** 3/1/2017 Solution Alternative **1** Version **2017-18 Biennial Budget**

### Input data in white cells only

**Instructions:** Fill in project self-rating and estimating accuracy - contingency will automatically be filled in on the summary sheet. Review the guidelines below if you feel a different contingency is warranted. For different contingencies, enter the percentage directly onto the Summary - Form 1 tab, row 7.

**Background:** Contingency is utilized to reduce the risk associated with completing a project. The intent is that creating a financial buffer will enable projects to deal with un-anticipated issues/activities, with higher risk projects needing larger contingencies. Contingency is added on top of project estimates/expectations to be utilized should unplanned activities occur. Project teams should strive to complete projects without using any contingency. When this happens, contingency is returned to the original funding source.

### Contingency Determination

Project self-rating Organization historical estimating accuracy Score	2	See PRB self-rating guide on the intranet (1 or 2) <a href="http://kcweb.metrokc.gov/oirm/tools_templates/PRB-ProjectOversightSelfRatingForm.doc">http://kcweb.metrokc.gov/oirm/tools_templates/PRB-ProjectOversightSelfRatingForm.doc</a>
	3	Average estimating accuracy of prior projects sponsored by this organization - as determined by project benefit realization reports to PRB. 1 = actuals within 10% of PRB phase 2 estimates, 2 = within 20%, 3 = greater than 20% or no history.
	5	Scores of 1-3 = 10%, 4 = 20%, 5 = 30% contingency

**NOTE:** A higher contingency factor can be assigned manually based on the contingency guidelines presented by the PRB- see link below for full details. To assign manually, enter % on Summary - Form 1 tab line 7

#### 10% Contingency

- Project team is very experienced in estimating and completing this type of project
- Technology to be implemented is not complex, requirements are clear, user procedures will not change significantly
- Involves a single agency
- Project risk is mitigated through a fixed bid with a vendor

#### 20% Contingency

- Project team has some experience in estimating and completing this type of project
- Technology to be implemented is moderately complex, involves multiple systems and some changes to user procedures
- Involves multiple agencies
- Part of the risk is mitigated through a fixed bid, but the project schedule and budget assume county staff will be available to support the project

#### 30% Contingency

- Project team has little experience in estimating and completing this type of project
- New or very complex technology will be implemented; user processes and procedures will change significantly
- Involves many agencies or is countywide
- Most of project staffing is from loaned county staff where there is a risk the staff will become unavailable when needed due to, for example, competing priorities for their time