Expert COSYSMO - Systems Engineering Cost Model Risk Advisor

Model(s)
COSYSMO ▼
Monte Carlo Risk Off ▼
Auto Calculate Off ▼

System Size

	Easy	Nominal	Difficult
# of System Requirements	3	2	0
# of System Interfaces	1	1	0
# of Algorithms	1	0	0
# of Operational Scenarios	1	1	

System Cost Drivers

Requirements Understanding	Nominal ▼	Documentation	Low ▼	Personnel Experience/Continuity	Low ▼
Architecture Understanding	Nominal ▼	# and Diversity of Installations/Platforms	Nominal ▼	Process Capability	Low ▼
Level of Service Requirements	Nominal ▼	# of Recursive Levels in the Design	Low ▼	Multisite Coordination	Nominal ▼
Migration Complexity	Nominal ▼	Stakeholder Team Cohesion	Low ▼	Tool Support	Nominal ▼
Technology Risk	Low ▼	Personnel/Team Capability	Very Low ▼		

Maintenance Off ▼

System Labor Rates

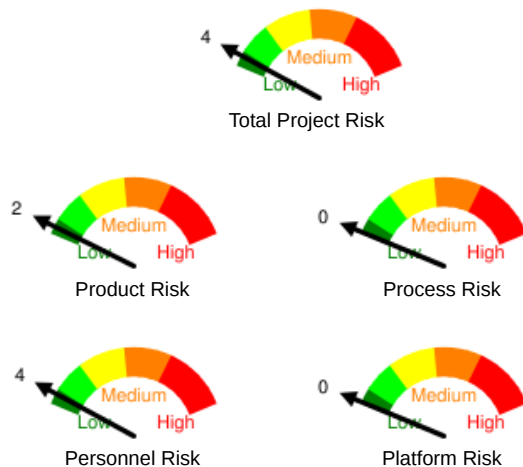Cost per Person-Month (Dollars) 6000

Calculate

Results

Cost and Schedule

Effort =16 Person-months
Schedule = 3 Months
Cost = $101401

Effort Distribution (Person-Months)

Phase / Activity	Conceptualize	Develop	Operational Test and Evaluation	Transition to Operation
Acquisition and Supply	0.3	0.6	0.2	0.1
Technical Management	0.6	1.1	0.7	0.4
System Design	1.7	2.0	0.9	0.5
Product Realization	0.3	0.8	0.8	0.6
Product Evaluation	0.9	1.4	2.1	0.8

Risk Exposures

Total Project Risk

Product Risk

Process Risk

Personnel Risk

Platform Risk

Risk Mitigation Guidance

The risk mitigation guidance below shows alternatives for consideration in specific project environments. Risks are ordered by highest risk exposure.

Risk Exposure Points	Description	Alternatives
1.5	*Level of Service Requirements* = Nominal and *Personnel/Team Capability* = Very_Low	Get more capable engineering team on the 'illities
1.5	*Requirements Understanding* = Nominal and *Personnel/Team Capability* = Very_Low	Facilitate workshops, get training, hire experts, set up IPTs, subcontract, get customers involved, prioritize requirements
1.5	*Architecture Understanding* = Nominal and *Personnel/Team Capability* = Very_Low	Hire core competency, subcontract part of the system, conduct training

Total Risk Exposure Points = 4.4

Your output file is http://csse.usc.edu/tools/data/COSYSMO_April_10_2018_12_58_20_715331.txt

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