

COSYSMO Risk/Confidence Estimation Prototype

Objective: This excel-based tool is a prototype of an add-on to the COSYSMO systems engineering labor estimation model. It enables the user to quantify his belief in the uncertainties in the values of various parameters of the COSYSMO model, and hence in the value of the output of the model, systems engineering person months (PM). Each uncertainty is represented by two equivalent distributions, one for "risk" and the other for "confidence." The former is the probability that the actual value of the variable of interest, say PM, exceeds some target value. In the risk literature, such a probability is often termed the "exceedance probability." This probability is actually equal to 1-the Cumulative Probability. In the statistics literature, it is thus termed the "complementary cumulative distribution function (CCDF)."

Target Users: System Engineers, Cost Analysts

Scope: Effort Estimate Risk Assessment

Project Type: Add-on to COSYSMO effort

Developers:

Principal Investigator: John Gaffney

Execution Platform: Win2000/XP

Intellectual Property Rights Status: Limited distribution among CSE Affiliates only.

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