

**Name:** COCOTS Risk Analyzer

**Presenter(s):** Ye Yang

**Objective:** The COCOTS Risk Analyzer is an automation tool to enable the user to obtain a COTS glue code integration risk analysis with the set of cost drivers the user submits to get a COCOTS estimate.

**Rationale:** Most risk analysis tools and techniques require the user to enter a good deal of information before they can provide useful diagnoses. The COCOTS Risk Analyzer is built on a knowledge base with 24 risk identification rules and a 3-level risk probability weighting scheme obtained from an expert Delphi analysis. Each risk rule is defined as one critical combination of two COCOTS cost drivers that may cause certain undesired outcome if they are both rated at their worst case ratings. The 3-level nonlinear risk weighting scheme represents the relative probability of risk occurring with respect to the individual cost driver ratings from the input.

**Target Users:** This tool is designed to help project managers to perform project risk identification and assessment and prepare risk mitigation plan.

**Scope:** Risk identification and assessment, mitigation advice with respect to COTS integration.

**Project Type:** USC-CSSE research project

**Runs On:**

- Windows 95, 98, NT, 2000, XP
- Microsoft Access

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**Developers:**

Model Principle: Ye Yang

Tool Development: Ye Yang

**Future Directions:** Extend to cover COTS Assessment and Tailoring submodels.