

Name: COPLIMO

Presenter(s): Winsor Brown (for Ye Yang)

Objective: This basic version of the Constructive Product Line Investment Model (COPLIMO) is designed to help users get started in assessing the costs, savings, and return on investment (ROI) associated with developing and reusing software product line assets across families of similar applications.

Rationale: Basic COPLIMO is based on the well-calibrated COCOMO II software cost estimation model. It includes a minimum-essential set of parameters, which are relatively easy to estimate from an organization's current practice, and to refine as further information becomes available. If there is uncertainty about input parameter values, default values are provided in the model, and one can perform sensitivity analyses with the model to see how the ROI changes with different parameter values. Basic COPLIMO is a standard Excel spreadsheet application that can be easily modified, combined with other Excel applications, or interfaced with other Microsoft Office applications.

Target Users: This tool is designed for Project Managers looking to estimate the life cycle cost of product line investment.

Scope: Product Line Cost Estimates; ROI Analysis.

Project Type: Multi-year USC-CSE research project

Runs On:

- Windows 95, 98, NT, 2000, XP
- Microsoft Excel (Enabled Macros)

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Technical Approach: <fill in>

Developers:

Model Principle: Dr. Barry Boehm

Tool Development: Ye Yang

Future Directions: Elaborate on model inputs, outputs and add more features.