GECOMO

Extensions and Usage

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GECOMO :-

Full Implementation of Detailed COCOMO
Extensive User Interface

Extensions for

Incremental Development
Multi-level component hierarchy
Project History

Widely Used in UK, Europe and USA
GECOMO and The Project Management Toolset

Inspiration → Implementation

GECOMO Extensions  gec software

CONTROL
Four steps from Inspiration to Implementation

1. GECOMO Estimating
2. GECOMO Staff Option Personnel Planning
3. G-TASKPLAN Task Planning
4. G-CONTROL Monitoring
Task Structure
From Phase X Activity Matrix

Team Structure
Staff Option

WBS

Static Structure
COCOMO Component hierarchy

GECOMO Extensions
gec software
Staff Forcing

Applied Team Size
Work Rate
Task Priority

Revised effort, Considering team efficiency

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Labour Grades

Cost Table
Effort by Major task
Improved Costings

GECOMO Extensions – gec software
Team Efficiency Algorithm Considers:

- Number of teams
- Team Size
- Task Priority
- Original Estimate

\[ n(n-1)/2 \]
G-TASKPLAN  Project Planning

Direct Screen Entry

GECOMO Staff Option

Progress Forecasts

Tabular Reports
Activity bar charts
Resource Usage Histogram
Progress Chart
Network Diagram

Work Assignment

Project Management Toolset
gec software
Integration is the Key to Control

Project Management Toolset
gec software
GEHOMO Users

Project Managers
  Prepare and justify budgets
  Negotiation aid
  Plan work against constraints

Consultants

Estimators

Defence
  Scientific
  Avionics
  Telecommunications
  Commercial

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Successful for

CCCI Radar Simulators Engineering / Process Control Some commercial applications

E.g.

Estimates successfully produced for 250 KDSI project.

Project structure planned according to phase and activity estimates

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Problem Areas

Complex Algorithms
Data preparation
Documentation
Phase definition (commercial)
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A few quotes ...

Using GECOMO whilst negotiating costs ... led to considerable cost saving

...GECOMO helps profit on the lessons of the past

...GECOMO provides proof against erosion of expertise due to staff loss

GECOMO is vastly superior to SLIM

...Bosses collapse pretty quickly if you say GECOMO...
Summary

Staff Option provides manpower forcing
Integrated into full planning toolset
Widely Used – mostly successful
Some problem areas