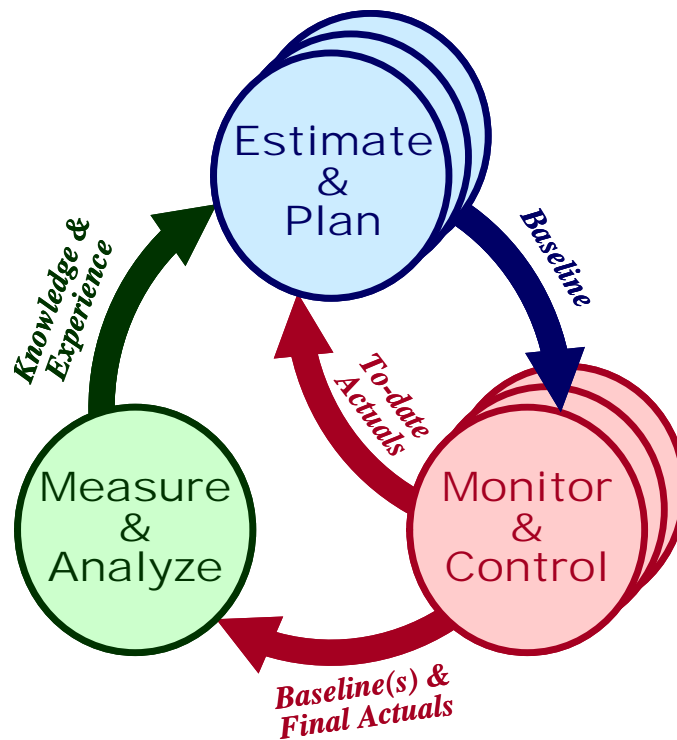


SEER Supports All Phases of the Software Project Life Cycle

The SEER Software Estimation Suite has been structured to ensure that it provides both the methods and tools to support three process areas of the software project life cycle that are crucial to effective and efficient software project management, namely *Project Planning*, *Project Monitoring and Control*, and *Measurement and Analysis*.

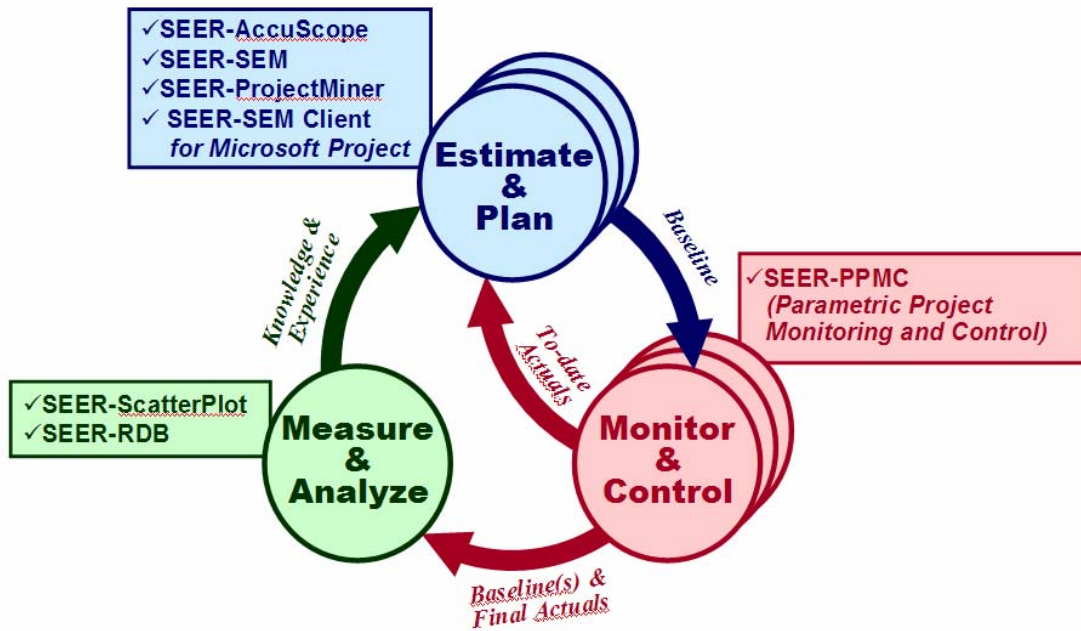


There are specific tasks that must occur in each of these areas as follows:

- **Project Planning**
 - Establish Estimates
 - Develop a Project Plan
 - Obtain Commitment to the Plan
- **Project Monitoring and Control**
 - Monitor Project Against Plan
 - Manage Corrective Action to Closure
- **Measurement and Analysis**
 - Align Measurement and Analysis Activities
 - Provide Measurement Results

The SEER Software Estimation Suite provides methods and tools to support these three process areas:

- **Project Planning**
 - History-Based Sizing
 - Direct Measure Sizing
 - Parametric Estimation
 - Estimation by Data Mining
 - Planning
- **Project Monitoring and Control**
 - Performance (Earned Value) Measurement
 - Health and Status Indication
 - Performance-Based Forecasting
- **Measurement and Analysis**
 - Estimation Accuracy Assessment and Improvement
 - Calibration
 - Knowledge Base Management
 - Benchmarking



The SEER-SEM estimation and analysis suite of applications provides an integrated solution that supports all phases of the software project life cycle.

Galorath offers 6 product editions for SEER-SEM. Each edition is tailored for specific types of users:

SEER-SEM Editions

| Edition | SEER-SEM | SEER-AccuScope with Common Repository | SEER-Scatterplot | SEER-ProjectMiner | SEER-Client For Microsoft Project | SEER-PPMC |
|----------------------------------|----------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------|
| SEER-SEM Estimator | • | • | | | | |
| SEER-SEM Planner | • | • | | • | | |
| SEER-SEM Performance Measurement | • | • | | | | • |
| SEER-SEM Analyst | • | • | • | | | |
| SEER-SEM Project Manager | • | • | • | • | • | • |
| SEER-SEM Studio | • | • | • | • | • | • |

Tools that provide complete software project management solutions.

SEER-SEM

SEER-SEM is a powerful decision-support tool that estimates software development and maintenance cost, labor, staffing, schedule, reliability, and risk as a function of size, technology, and any project management constraints. SEER-SEM is effective for all types of software projects, from commercial IT business applications to real-time embedded aerospace systems. This tool will help you make vital decisions about development and maintenance of software products, ensuring project plans that are realistic and defensible.

SEER-AccuScope

SEER-AccuScope allows you to ascertain a project's scope using powerful comparative analogy techniques. It is extremely useful for project sizing, value assessment and other quantitative assessments where estimation of absolute value is difficult. SEER-AccuScope allows you to size early as a means of providing reasonable size ranges prior to a detailed understanding of the project. It allows you to estimate size by pairwise comparison or analogies by an array of metrics such as Function Points, Source Lines of Code and Function-based sizing. SEER-AccuScope's estimation algorithm accounts for uncertainty in your comparisons and can be integrated with repositories of past corporate knowledge making it a powerful enterprise-wide solution. The outputs from SEER-AccuScope are fully associative to SEER-SEM.

SEER-SEM Client for Microsoft Project

SEER-SEM Client for Microsoft Project transforms Microsoft Project into a powerful tool for planning software development projects. With relatively few inputs the SEER-SEM Client automatically constructs a complete project plan, letting you anticipate every aspect of the development life cycle. You can also have the SEER-SEM Client automatically construct a complete project plan from your SEER-SEM project estimate. Use the SEER-SEM Client without any modifications or configure it to suit the needs of your business or organization. You can create custom life cycle templates that build best practices directly into your project plans. You can also customize labor categories to reflect the way that your organization assigns tasks to departments or labor categories to accurately plan staff allocation for a project.

SEER-PPMC

SEER-PPMC (Parametric Project Monitoring and Control) couples traditional Performance Measurement methods with Parametric Estimating techniques providing project managers with progress tracking, status indication, performance-based forecasting, and support for analyzing course correction alternatives. This capability provides indications of project health that are more timely, accurate, and closely connected to the root cause of potential trouble. The standard metrics are an integral part of the status indications process and include schedule, cost, and time variances, schedule and cost performance, and to-complete performance index.

SEER-PPMC is designed to enable project managers to track in-process activities and make appropriate course corrections when necessary. It provides a powerful process for estimating that feeds directly into project management. Actuals-to-date can be used to do performance based forecasting for a project in process. With SEER-PPMC, SEER-SEM is brought seamlessly into the monitoring and control (tracking) process. SEER-PPMC is a unique tool in that in addition to tracking progress to date, it also tracks defect discovery and removal and artifact completion.

SEER-ScatterPlot

SEER-ScatterPlot is a repository analysis tool that allows users to view past data, perform regressions, develop and display trends, and provide and compare them to new estimates. Users may filter datasets to the points of interest based on numerous, configurable criteria and may click on individual points to examine their values or to drop outliers. SEER-ScatterPlot also generates an equation based on the data and shows the correlation and other statistics. SEER-ScatterPlot can be configured to work with different datasets. ScatterPlot offers the option of displaying a crosscheck of the current estimate based on either the historical data or the selected benchmark. The crosschecks provide a built-in secondary estimation methodology.

SEER-ProjectMiner

SEER-ProjectMiner produces regression-based estimates directly from historical data and provides an independent crosscheck to SEER-SEM parametric estimates.

SEER-DB

SEER-DB is an optional open database for saving, maintaining, and sharing SEER-SEM project estimates across the enterprise. SEER-DB allows for version control, estimate archiving, and access control of project data along with the ability to pre and post process data for integration with other applications.

SEER-CriticalMass

SEER-CriticalMass, an optional application to any of the SEER-SEM editions, generates software size estimates from use cases specified in IBM's Rational Systems Developer and/or Rational Software Architect (RSD and RSA). It automatically extracts information from RSD and/or RSA and then permits the user to specify how imported use cases should be hierarchically organized in an estimate. Sizing is carried out using Use Case Points (UCP), a widely accepted metric. UCPs are then automatically translated, using statistically valid means, to an alternative metric such as source lines of code, function points or one you define. Unlike other tools, in which Use Case Points generally are available only at the system rollup level, SEER-CriticalMass produces a detailed estimate range for each use case. Estimates are made using reference items with known size; the tool is therefore augmented with a repository in which past, sized items can be stored. A user-assisted relative sizing module is also available within the tool to augment automatic sizing. Completed estimates can then be exported to text, CSV, XML formats, or directly into a SEER-SEM project file.

SEER-SEM assists users in making vital decisions about the development and maintenance of software products to ensure that project plans are realistic, objective and defensible.

More information about the SEER suite for software can be found at <http://www.galorath.com>