



ECOSYS™

DRIVING PROJECT PREDICTABILITY ACROSS YOUR ENTERPRISE

EcoSys is the only software platform that enables you to measure and improve project predictability, leading to overall project cost and schedule reduction across your enterprise.

The Cost of Low Predictability

Project predictability can be simply defined as how early in a project the outcome is known. For years, the construction and engineering industry has struggled with low predictability. Construction Industry Institute (CII) research found that on average, forecast variance reporting starts at 65 percent of project duration. When forecasts increase very late in the project, management is left with little or no time to implement corrective actions. Yet, the industry is still focused primarily on final outcome variance, with little regard for how early in the project the outcome becomes known.

This contributes directly to the industry's endemic cost and schedule overruns.

Poor predictability can be caused by any number of factors – insufficient effort or attention, low maturity of processes, optimism bias, or lack of transparency or accountability – and organizations have lacked the tools to measure and improve predictability ... until now.

Improving Predictability with EcoSys

The EcoSys Enterprise Projects Performance platform is the only solution in the industry that incorporates predictability metrics from CII's research to help drive predictability throughout portfolios, projects, and contracts.

EcoSys enables you to measure projects based on Normalized Cost Timeliness (NCT), a metric measuring how timely cost variances are predicted, and Cost Predictability (CP), a metric that combines NCT with overall cost variance. These metrics ensure that both accurate AND early forecasts are emphasized in one universal metric that can be applied across the enterprise.

With EcoSys, you can apply these predictability metrics to historical projects for benchmarking and analysis. Leverage dashboards and predictability graphs to figure out where you stand and drill down into root causes of low predictability.

With the technology to measure and deliver accurate forecasts, EcoSys arms you with the tools to incentivize project teams based on predictability, decrease optimism bias, and create a culture of transparency and accountability.

The Pillars of Predictability

As a critical step ensuring that you have the right people, processes, and technology to drive high predictability, EcoSys drives standards and provides real-time analytics in an easy-to-use, integrated, flexible enterprise performance platform.



EcoSys serves as the basis for ensuring all the following “Pillars of Predictability” are supported across your organization:

- **Portfolio Management** – Rank, score, benchmark, and analyze projects to make sure you are executing the right projects. Then optimize and balance resources across the organization to ensure projects are progressing unhindered.
- **Project and Contract Management** – Manage change easily, accurately, and consistently using EcoSys Visual Workflows. Integrate risk and issue management with live project data.
- **Project and Contract Controls** – Ensure end-to-end transparency with native and automated integration of project data, bringing contract and project controls into the same environment. Utilize EcoSys Live Connectors for real-time, on-demand integration with any source of project data. Drill-down to understand the root-cause of predictability problems.
- **Performance Management** – Consume progress data from any source and utilize multi-method progress measurement and forecasting. Easily configure methods to your needs.
- **Predictability Measurement** – Adopt metrics to provide visibility into forecast timeliness. Tie performance incentives to forecast timeliness, not just outcome variance. Aggregate predictability by multiple dimensions to pinpoint institutional issues. Review past performance for lessons learned.
- **Control** – Control of the project team, e.g., owner scope changes and currency fluctuation.
- **Improve** – Identify areas for improvement by drilling down into root causes of predictability. Drive high predictability and address low predictability.
- **Visibility** – View and analyze predictability by any dimension – over time, by division, region, project team etc.
- **Incentivization** – Measure and evaluate project teams based on predictability rather than strictly project outcomes, leading to a more transparent organizational culture.
- **One login, one database, many solutions** – Drive predictability from a single platform that integrates all project data needed for portfolio, project, and contract management.
- **Confidence** – High predictability increases management confidence and trust in project teams.
- **Capital Efficiency** – Early identification of issues leads to optimized return on capital employed (ROCE) and fiscal year performance.



Early predictability adds value by enabling proper response to surprises and changes.”

Construction Industry Institute

Key Benefits

- **Be Proactive** – Early warning of overruns gives you the ability to take corrective action, leading to overall cost and schedule reduction.
- **Benchmarking** – Easily apply predictability metrics to all existing projects in EcoSys. Compare all your past project to determine where current projects stand. Identify trends in predictability across your enterprise. Analyze predictability both with and without issues outside the



For More Information visit us online at www.ecosys.net, hexagonppm.com/ecosys, or email info@ecosys.net

ABOUT HEXAGON

Hexagon is a global leader in digital solutions that create Autonomous Connected Ecosystems (ACE). Our industry-specific solutions create smart digital realities that improve productivity and quality across manufacturing, infrastructure, safety and mobility applications.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.5bn EUR. Learn more at hexagon.com and follow us @HexagonAB.