



John F. Kennedy Space Center's PrimeSupplier Software

A cross-program impact analysis and economic stability indicator simulation model from John F. Kennedy Space Center



NASA's Kennedy Space Center is seeking partners interested in commercial applications for PrimeSupplier software, a next-generation hybrid supply chain management (SCM) solution. Using programmatic and enterprise demand data as well as industry financial benchmarks, this advanced software application forecasts economic influences on product and supplier viability throughout a product life cycle. PrimeSupplier software helps organizations identify at-risk suppliers by providing a holistic assessment of suppliers' total economic stability—accounting for programmatic and enterprise-wide demands and general economic conditions. No other tool provides such a complete view of suppliers' economic viability, coupled with the ability to simulate changing demands and conditions.

www.nasa.gov

BENEFITS

PrimeSupplier software helps organizations be more

- **Strategic:** Proactively manage suppliers' economic stability by gaining visibility into program, cross-program, and industry-wide demand and financial data.
- **Responsive:** Improve order fulfillment and on-time delivery through early demand planning.
- **Efficient:** Identify optimum timing for placing new procurement orders.
- **Cost Effective:** Minimize procurement overhead, obsolete inventory, and re-engineering to eliminate obsolete parts.
- **Integrated:** Take advantage of an excellent complement to Integrated Manufacturing Network/Supplier City and procurement simulation.

FORUM

APPLICATIONS

- Supply chain management
- Enterprise resource planning
- Product and programmatic life cycle management
- Manufacturing, materials, and financial resource planning
- Integrated manufacturing networking
- Integrated logistics support

TECHNOLOGY STATUS

- Patent pending
- U.S. patent
- Copyrighted
- Available to license
- Available for no-cost transfer
- Seeking industry partner for further codevelopment

Licensing and Partnering Opportunities

This technology is part of NASA's Innovative Partnerships Program, which seeks to transfer technology into and out of NASA to benefit the space program and U.S. industry. NASA invites companies to inquire about the licensing possibilities for PrimeSupplier (KSC-13185) for commercial applications.

Technology Details

Initially developed for NASA Shuttle Program transition activities, PrimeSupplier software has been used by NASA to view early indicators of supplier and product line stability while identifying various project elements and programs affected by terms of multiple contracts. The software analyzes causes and effects of supply chain events with parameters based on a supplier's financial liquidity, quality measures of performance, and other internal programmatic data relative to functional capabilities such as source, make, buy, repair, and deliver. The result is a comprehensive picture of schedule impact and funding risks from supplier obsolescence or requests for additional time-gap funding.

The software calculates two categories of benchmarks— programmatic demands and financial liquidity. Programmatic data used in these calculations is collected from internal logistics support analyses. Other programmatic weighting factors include:

- Procurement data
- Contract value
- Suppliers' percentage and distribution of business
- Procurement order time-gap exposure

The financial benchmarks include liquidity performance measures such as:

- Total revenue
- Net profit margin
- Current ratio (current liability and current revenue)
- Price/Earnings ratio

These financial indicators are compared against industry standards and can be automated with a real-time data feed.

PrimeSupplier software is the first demand planning and supplier stability indicator model to include programmatic demand influence alongside financial benchmarks for determining and proactively managing future product or supplier economic stability.

IP Protection

Kennedy is seeking patent protection for this technology.

For More Information

If you would like more information or want to pursue transfer of this technology, please contact:

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For more information about other technology licensing and partnering opportunities, please visit:

Innovative Partnerships Program Office
NASA Kennedy Space Center
<http://technology.ksc.nasa.gov>

Fuentek is a contractor to NASA's Innovative Partnerships Program, providing support for the access and transfer of technology.