



# Trinity Millennium Group, Inc.

Your sole source for fast, automated legacy modernization

## Introducing the **Trinity** Modernization Process

### **The Legacy Challenge**

Organizations worldwide face significant problems due to their legacy application portfolios. Typical challenges include difficulty keeping pace with changing business needs, limited Internet access and data sharing, obsolete technology, and spiraling costs of legacy platforms. Plans to replace or re-write aging systems are often put on hold because of the high cost and technical risk associated with such projects. If this sounds familiar, the Trinity Modernization Process (TMP) provides a proven solution.

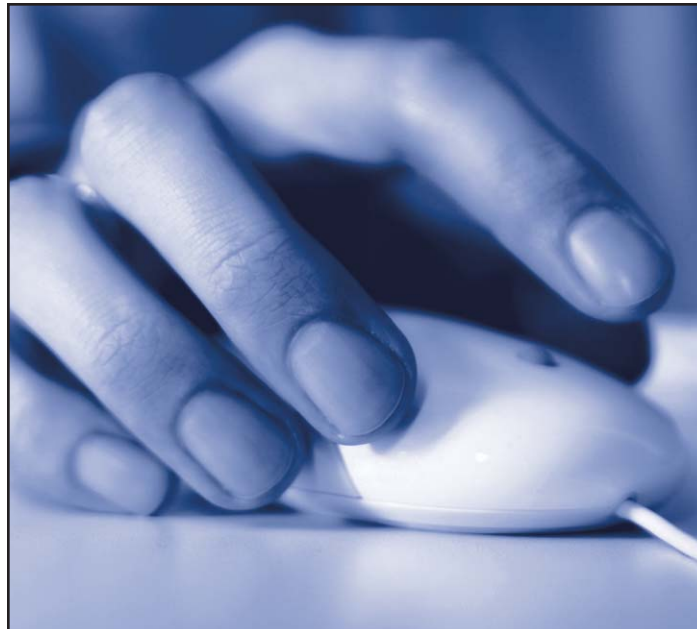
### **A Unique Process**

Trinity Millennium Group has offered the TMP as a service for the past eleven years, providing an effective alternative to other legacy modernization approaches. The TMP leverages Trinity's extensive suite of automated tools, automating on average 85 percent of the conversion process. Our full-time staff of modernization professionals take care of critical tasks such as understanding your transformation requirements, application design, optimization, and recognizing opportunities for application improvement. The result is an unparalleled combination of speed, low cost, and high quality results.

## **Other Legacy Modernization Approaches**

### **The High Cost of Re-development**

A common first instinct is to consider replacing a system the same way it was originally built, with traditional manual development. The problem is



that most legacy systems evolve over many years. Sifting manually through multiple layers of patches and poorly documented changes is a complex, error-prone task. Our industry is rife with stories of re-development projects that ultimately failed, years late and hugely over-budget. Even efforts that succeed in producing a replacement system cost much more than they should.

### **COTS Replacement**

Purchasing replacement applications can be an attractive alternative when packages are available that provide the required functionality. Packages are rarely a perfect fit with business needs, however, which means an extensive customization effort. As with custom development, such projects tend to be time-consuming and expensive. More than that, a large percentage of corporate applications support enterprise-specific functions and business rules. Often no COTS packages are available to support such unique functionality.

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# Legacy Modernization Decision Matrix

Legacy Challenges	Legacy Modernization Approaches				
	Re-develop	COTS Replacement	Code Transformation Tools	Wrap	Trinity Modernization Process
Large complex applications	●	○	○	○	○
Re-development cost & time	●	◐	○	○	○
Unique functionality	○	●	○	○	○
Slow, costly maintenance	○	◐	●	●	○
Mix of programming languages	○	○	●	○	○
Legacy platform costs	○	○	○	●	○
Obsolete technology	○	○	○	●	○
Poor connectivity	○	○	○	◐	○

○ Appropriate solution    ◐ Partial solution    ● Inadequate solution

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## Code Transformation Tools

Tools are available for a limited set of the most common legacy programming languages. Many organizations find, however, that their application portfolios contain a mix of several programming languages, many of which are not covered by available tools. Moreover, such tools tend to perform relatively simplistic line-by-line translations, producing code that mimics the structure of the source programs. This suspect level of quality can increase long-term maintenance costs. The TMP produces high quality code that looks as if it were written by hand, taking full advantage of the to-be environment. For example, a recent project translated over one hundred Natural programs to two VB.Net programs and six SQL Server stored procedures.

## To Wrap or not to Wrap?

Middleware can be “wrapped” around legacy functionality to integrate existing applications into a web-based or service oriented architecture. While this approach can provide value, several legacy challenges are unaffected by this strategy. Many

organizations are faced with rising mainframe costs, impending loss of support for their hardware and software, a shrinking pool of programmers for their languages, and an ongoing challenge to keep old code up-to-date with business needs. Retaining the existing code means keeping these problems.

## The Trinity Modernization Process – A Proven Alternative

Trinity Millennium Group has used the TMP to process over 1.4 billion lines of source code for organizations both large and small worldwide. A key success factor is that our tools are designed to evolve on the fly. As our modernization team encounters new language features, the necessary changes are incorporated into the tool set and processing continues. This gives Trinity a unique ability to tackle uncommon mixes of languages. To date we have processed over a hundred different programming and database languages. We combine extensive use of automation with just the right level of manual processing to offer a fast, flexible, low-risk legacy migration alternative. The comparative advantages of the TMP are summarized in the legacy modernization decision matrix provided above.