



**Technology Briefing:  
State and Local Government**

**The Power and Benefit of**

# **Automated Legacy System Modernization**

**Convert Legacy Systems to newer platforms  
in a fraction of the time with little to no risk  
with a substantial reduction of cost... at a fixed price.**

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Automated Modernization is a safe, proven methodology designed to reduce the time, risk and cost associated with manual “Rip and Replace” of old Legacy mainframe applications to newer platforms. Through the use of automated tools, conversion is achieved without manually re-writing the application. For example, an application delivering the intended value may require additional capabilities to share or make data available to other systems and new User Interfaces. Automated Modernization will convert old code, such as COBOL, Lotus Notes, Oracle Forms, or Adabas/Natural, to a new platform such as C#/SQLServer, ready for testing and production. The result is a project completed with minimal risk, in a fraction of the time and at a reduced cost.

- Automated modernization provides a safe, cost effective strategy and roadmap to achieve Government IT modernization goals
- Modernization supports breaking down existing silos for data sharing
- Provides at least a 50% reduction in system conversion costs and lifecycle allowing projects to be completed in months, not years
- Proven and repeatable methodology delivers large cost savings and reduces risk
- Code, database and data is converted producing a completely modern application, ready for testing
- Maintains functionality and “like for like” user interface; new look and feel can also be defined
- Produces code that is flexible, scalable, cost effective and supportable with no proprietary licenses required
- Application archiving technology allows data to be stored in a single repository when retiring old data systems
- Interactive documentation available for COBOL or Natural systems staying on the Mainframe

### **Automated Modernization supports three Government strategies:**

1. **Consolidation:** systems can run on a single/fewer code and databases
2. **Cost Reduction:** license, maintenance, and production costs are significantly reduced on newer platforms
3. **Data Availability:** data is easily accessible to other applications and eliminates the need for multiple instances

### **Automated Modernization Options:**

1. A functional “like for like” conversion which provides for a 100% functionally equivalent migration to a new code/database with no business rule or UI changes
2. Automated modernization providing some ability to add enhancements and/or redesign the UI using automated workbench tools; requires more client involvement and additional testing time

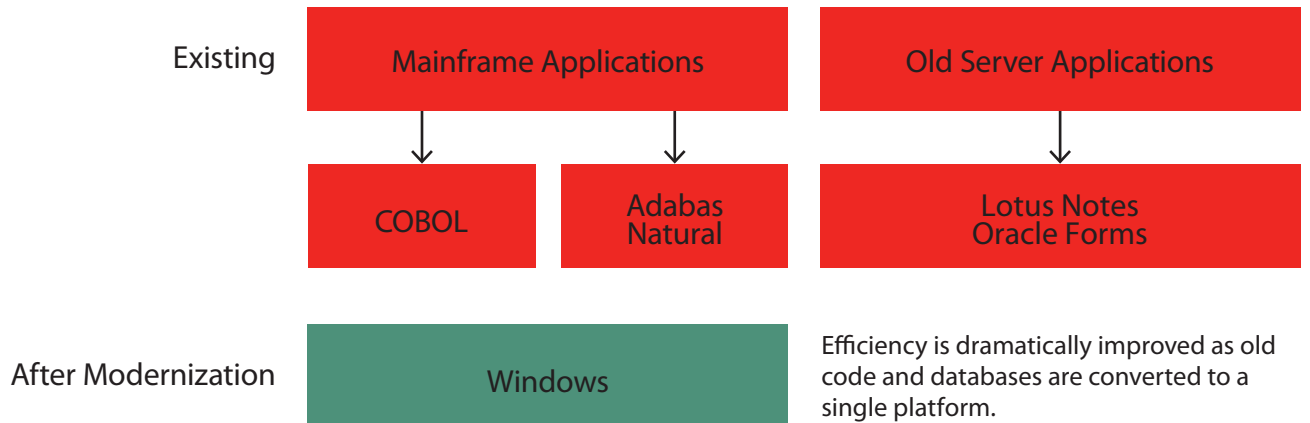


Data Centers support many different programming languages, databases and middleware in order to provide critical information to users. With retirement, attrition, lack of up to date documentation and consistently changing regulations, the demand for new information is stressing IT's ability to meet Service Level Agreements. Consolidation wherever possible is key among many Government organization's strategic objectives.

Reducing the number of code and databases increases department response time and allows managers to hire new skill sets.

### Typical User Skill Set Before Modernization

It is not uncommon for a department to support 3 - 4 different code and databases.



The time and cost to manually consolidate to a single or fewer platforms is outside the reach of Government today. Not to mention the risk of failure and cost overruns that factor into "do nothing" decisions. The utilization of Automated Modernization can be the difference maker in moving forward.

### Benefits of Application Modernization:

- Moves toward a single code and database quickly and safely
- Eliminates multiple skill sets and support teams
- IT staff becomes more effective; reduces cost and time for user support
- Eliminates multiple vendor licensing cost
- Reduces production costs

## Recent State Projects

- State of California - EDD: in production
- State of California - Department of Industrial Relations: in production
- State of California - OSHA Appeals Board: in production
- State of California - Caltrans: in production
- State of California - Department of Insurance: in final test

## New project started July 2010 - State of California Department of Social Services

- Conducted an automated assessment to identify and prioritize enterprise applications
- The assessment resulted in a strategic modernization roadmap
- The decision was to take an increment approach to modernize 26 COBOL and ADABAS/ Natural applications to a Microsoft SQLServer and .NET environment

## Government Contracts

- Federal GSA
- Western States Contract Alliance
- State of California SLP
- State of California CMAS

## Additional Completed Projects

### Mainframe

- GE Global Services
- National Life Insurance
- Edward Jones
- ACS
- US Postal Service
- State of New Jersey
- Progressive Insurance
- University of Miami
- Alaska Waste Water
- New York Life
- State of California - EDD
- GE Financial

### Lotus Notes

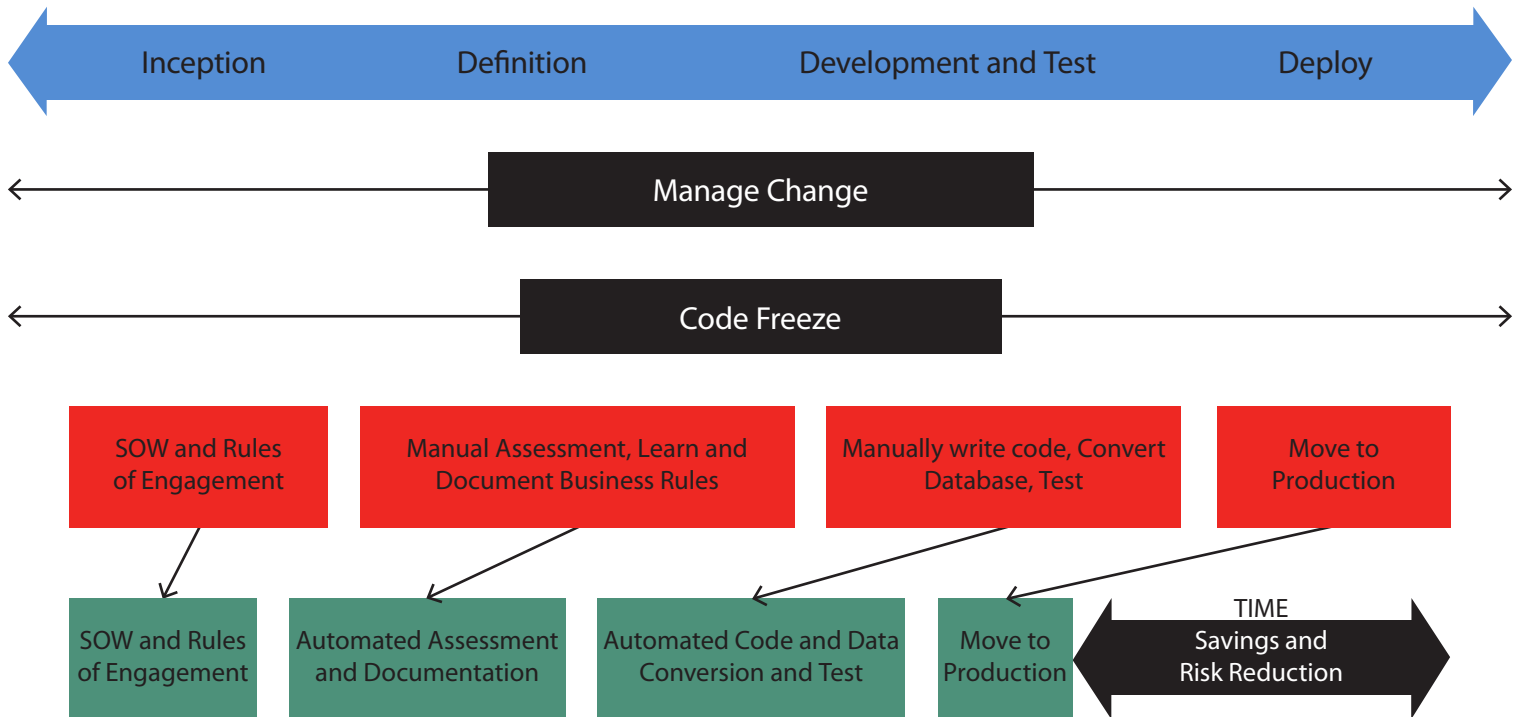
- Price Waterhouse
- US Navy
- WorldSpan
- Large Financial Institution

### Oracle

- USDA
- DOD
- Arizona Public Service
- McKesson
- Northrop Grumman
- FedEx
- University of Puget Sound
- Sysco
- State of California - Caltrans
- State of California - OSHA
- City of Baton Rouge
- Detroit Edison



## Automated Modernization Versus Manual "Rip and Replace"



In most manual conversion projects, over 50% of project time is lost trying to learn and document the existing system and manage ongoing functional change requirements. This entire process is avoided with Automated Modernization and is reflected in the length and cost of the project. Additionally, change management and code freeze happen approximately two weeks prior to conversion. Once the "Like for Like" conversion (Phase 1) is complete, the test and move to production process begins.

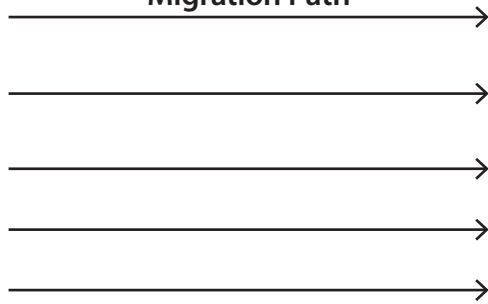
At this point the new application can be modified and enhanced with general cleanup, user interface improvements, and portal interfaces as a "Phase 2" project. This approach eliminates the majority of risk associated with manual re-writes.

Unify has automated solutions for most of the Legacy code and databases found in today's Data Centers and IT departments. The chart below outlines standard migration paths Unify provides for Legacy Applications.

### Legacy Environment

Code Base	Database
Lotus Notes Apps/Email	NSF
Oracle Forms Applications	Oracle
COBOL/CICS/ADSO	IDMS, IMS, VSAM
Ideal	Datacom
Natural	Adabas

### Migration Path



### New Platform Options

Code Base	Database
.NET SharePoint Exchange	SQLBase, SQLServer
JAVA/Oracle ADF, 11G, or .NET	Oracle, SQLBase, SQLServer
COBOL/CICS, JAVA, .NET	DB2, Oracle, SQLServer
COBOL/CICS	DB2, Oracle
.NET, COBOL/CICS	DB2, Oracle, SQLServer

- Take advantage of new, modern, less costly code bases
- Move data to fully relational databases capable of sharing information
- Eliminate multiple occurrences of like data
- Skill sets are easy to find and re-training is available for staff



## Turn Data into Information

### Aging Legacy Systems

Mission critical systems running on 1970 technology

Increasingly expensive to support

Sharing data with newer systems often impossible

Major hurdles meeting Fed/Legislative/User requirements

Re-write is high risk, lengthy to procure, build and deploy

### Staff Turnover a Significant Challenge

Number 1 impact to Legacy Systems is the change in workforce demographics

39% turnover in public sector

60% of workforce over 55 years old

Losing legacy system skill sets and subject matter expertise

Difficulty attracting new hires (what do I have to offer)

New hires bring new skill and mind sets

### Call for Change

Need for consolidation to reduce redundancy

Budget reductions require new ways to gain efficiencies

Consumer demands for newer lower cost technology that improves their business

Employees want to accomplish their jobs using new technology that coincide with their skill sets



Unify is a global provider of application development, data management, and migration solutions. Unify's software helps companies to maximize value and reduce cost in the development, deployment, management and migration of business applications and data. Unify is headquartered in Roseville, Calif., with offices in Rutherford NJ, London, Munich, Calgary, Paris, Sao Paulo and Sydney, in addition to a network of worldwide reseller and distributor partners.

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