CodigoXpress™

BEST PRACTICES OUT OF THE BOX℠

Executive Overview

Realize Enormous Benefits Through Implementing CodigoXpress

CodigoXpress is an innovative software development tool that achieves high-quality, design-pattern based, end-to-end code automation. Implementing the CodigoXpress™ development tool helps an organization realize enormous benefits in all aspects of software development—in new projects, in migration efforts, and during application lifecycle management.

Easy to Implement

CodigoXpress is both platform and tool-neutral so there is no need to change your current development environment or tool set in order to use it. Because of this flexibility, CodigoXpress will fit into your current environment or can easily migrate to new environments as your organization evolves.

Built-In Environment Optimization

CodigoXpress lets you take advantage of the vendor-specific enhanced features that exist in your development environment. When generating code, CodigoXpress takes the production environment (application server, database, etc.) into consideration and produces code that is optimized for your specific environment.

Incorporates Industry Best Practices and Industry Technology Standards

CodigoXpress takes an object model in UML and generates a production-quality, optimized implementation based on development best practices. Because this tool generates optimal implementations from proven design patterns, your engineers spend more time designing software and less time writing redundant code patterns. When used to develop highly sophisticated software systems, the CodigoXpress code-generation features enable you to:

• Generate cleaner, more consistent code
• Reduce the time required to generate a persistence layer
• Decrease the time required to generate JavaBeans
• Minimize the technical staff required to debug and test code
• Spend more time implementing business rules
• Focus more time and attention on the user experience
• Bring your system to market more quickly
• Complete more projects without increasing staff

Increase Your Development ROI

CodigoXpress is the answer to maintaining your current technical staffing requirements, while increasing your development ROI on each project. The implementation of CodigoXpress on new projects helps organizations achieve substantial savings in both time and money.

Mid-Sized Project Savings

Without CodigoXpress, a typical four-month project utilizing nine developers would cost just over $275,000. With CodigoXpress, that same project could be accomplished with an approximate 61% reduction in project team size and an overall savings of 69% or close to $200,000.

Typical Development Team

Role	Salary	Fully Burdened*
Senior Architect	$120,000	$156,000
Senior DBA	100,000	130,000
DBA	90,000	117,000
Senior Engineer	90,000	117,000
Engineer	75,000	97,500
QA Engineer	60,000	78,000
Systems Engineer	50,000	65,000

* Fully-burdened costs adds additional 30%

Mid-sized Project (4 mos.) without CodigoXpress

Role	F-B Cost/mo.	Months	Project Cost
Senior Architect	$13,000	2	$26,000
Senior DBA	10,833	2	21,666
DBA	9,750	4	39,000
Senior Software Engineer	9,750	4	39,000
Senior Software Engineer	9,750	4	39,000
Software Engineer	8,125	4	32,500
Software Engineer	8,125	4	32,500
QA Engineer	6,500	4	26,000
Systems Engineer	5,417	4	21,667
Total Project Costs			**$277,333**

Mid-sized Project (4 mos.) with CodigoXpress

Role	F-B Cost/mo.	Months	Project Cost
Senior Architect	$13,000	1	$13,000
DBA	9,750	1	9,750
Senior Software Engineer	9,750	2	19,500
Software Engineer	8,125	2	16,250
QA Engineer	6,500	1	6,500
Systems Engineer	5,417	4	21,668
Total Project Costs			**$86,668**

Large Project Savings

CodigoXpress can help organizations realize considerable returns on large projects. On a large project scheduled to last nine months with a 17-person development team, CodigoXpress would most likely allow you to reduce the project team size by 65% and the overall cost of the project by as much as 66%. This reduction in resources allows you to develop more projects using the same project staff. In fact, using CodigoXpress, you could almost develop two large projects for the price of one.

Lifecycle Management

Because of its sophisticated automation and code generation capabilities, CodigoXpress can help you manage the lifecycle of your large-scale, enterprise applications with a smaller pool of resources and with substantial gains in change implementation timeframes. In fact, a change taking two months without CodigoXpress can be accomplished in a week using the accelerated development capabilities of this tool.

Platform Migration

Using CodigoXpress as a vehicle to perform application migration from one platform to another—for instance, migrating a database from Oracle to DB2 or migrating from WebLogic to WebSphere—translates into large gains in time and impressive savings in expenditures. Implementing CodigoXpress when undertaking a migration effort can mean:

- Over 60% reduction in team size
- Over 60% reduction in time
- Over 80% reduction in total costs

Jump-Start the Iteration in Your Development Efforts

Using CodigoXpress, you can begin the process of getting feedback on application or system functionality much earlier in your development cycle. By equipping your business analysts with CodigoXpress and any UML modeling tool capable of exporting an XMI file, they will be able to use CodigoXpress to generate an optimized, production-quality implementation based on the model. This will allow your development team to access the usability and functionality of the project at a much earlier point in the development process. Getting early feedback and beginning to iterate will result in a better end product delivered in a shorter period of time.

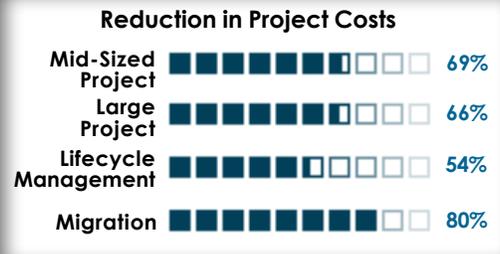## Team Development and Satisfaction

CodigoXpress changes the dynamics of team software development. In a CodigoXpress project there is a tendency to move to more iteration at the design level. Because of this, teams spend less time focusing on implementation issues and more time on design issues. The net result is a significant improvement in the productivity of your software engineers. These productivity gains can give your technical staff more time to stay abreast of current technology and industry trends.

In many respects implementing CodigoXpress can improve more than just your bottom line. This tool allows your developers to focus on the more interesting and challenging aspects of software development and do less of the tedious. Because of this your staff may have greater job satisfaction. With the jump-start that CodigoXpress gives to software development, the ability to finish one project and go onto the next, which is appealing to developers, can be achieved with greater ease.
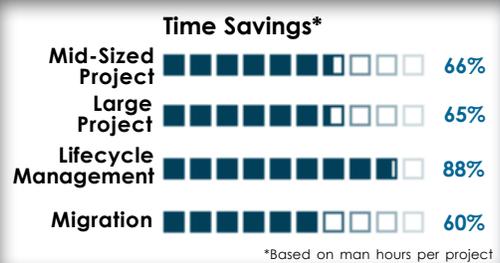

CodigoXpress ROI Benefits

Realize Significant Reduction in Project Costs

Based on salary expenditures for the resources needed for projects, CodigoXpress significantly decreases your per project costs.

Reduction in Project Costs

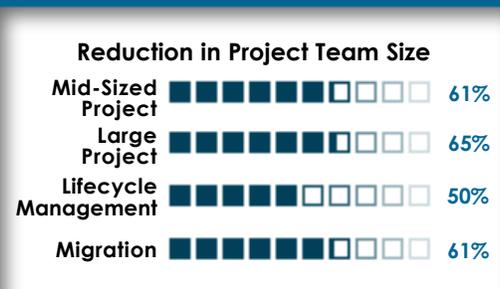|	
Mid-Sized Project	69%
Large Project	66%
Lifecycle Management	54%
Migration	80%

Realize Tremendous Time Savings on Projects

Based on project man hours, CodigoXpress development efforts gain anywhere from 60% to over 80% savings in time.

Time Savings*

Mid-Sized Project	66%
Large Project	65%
Lifecycle Management	88%
Migration	60%

*Based on man hours per project

Reduction in Project Team Size

Not only can you reduce the size of your teams when you utilize CodigoXpress on your projects, you can also engage less experienced developers than are needed with traditional tools. Because the best practices are built in and the automated code generated is of superior quality, you need fewer senior software engineers per project.

Reduction in Project Team Size

Mid-Sized Project	61%
Large Project	65%
Lifecycle Management	50%
Migration	61%

Lowering the Barrier for Development— Senior Level Developers Required

Without Codigo	
With Codigo	65% Fewer