

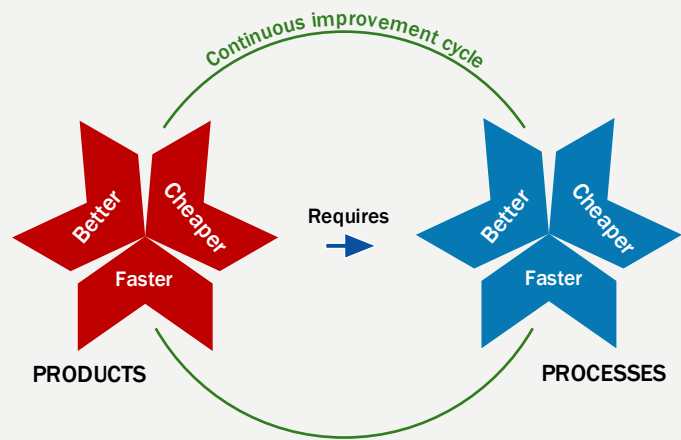
Better, Cheaper, Faster

Agility demands adaptive software

The constant escalation of demands on a company means that sustainable advantage can only come from continuous optimization of processes, structure and resources.

This requires designing processes that are not only better, cheaper and faster, but are able to adapt to changing conditions.

You can do this only if your software support systems are capable of rapid change.



Conventional software: Rigid & Inflexible

Most organizations are locked in place by rigid and inflexible information systems. Though many of these problems are related to legacy systems, the problems will not go away simply by using 'modern' programming languages like Java, C# or XML. They stem from developing software from scratch using labor-intensive methods.

The current trend in attacking this problem has a common thread – code optimization. They typically involve Eclipse based IDEs, that provide code skeletons, code generation or some variant of modifying code. As the size of the system grows, so does the complexity. Development is plagued by delays, requirements mismatches and quality issues resulting in maintenance that squanders over 70% of the IT budget. It's reported that there are 40 billion lines of COBOL code running corporations today. That number pales in comparison to the Java code that will pose graver problems in years to come.

The only way forward is not by tweaking the methods of manual coding, but by automating the tedious and repetitive work that is intertwined with solving the business problem at hand.

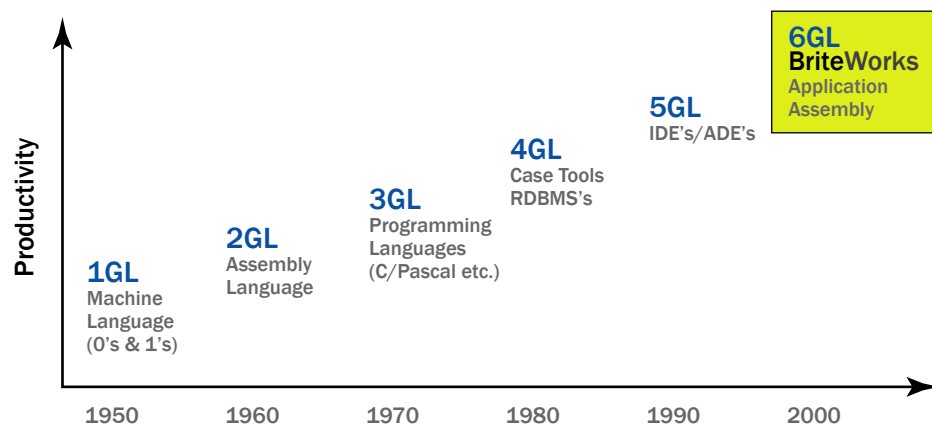
Software development with BriteWorks

BriteWorks is the most complete evolution of some familiar advances – model-driven development, SOA, languages, patterns, frameworks and tools to automate development.

With BriteWorks you start with a stable infrastructure and you build your business logic on top of it.

The result is a system that not only slashes the development time and cost, but also accommodates change easily.

BriteWorks incorporates a radically different development model resulting in virtually no coding or code generation!



"A programming language is low level when its programs require attention to the irrelevant."

[Alan Perlis]

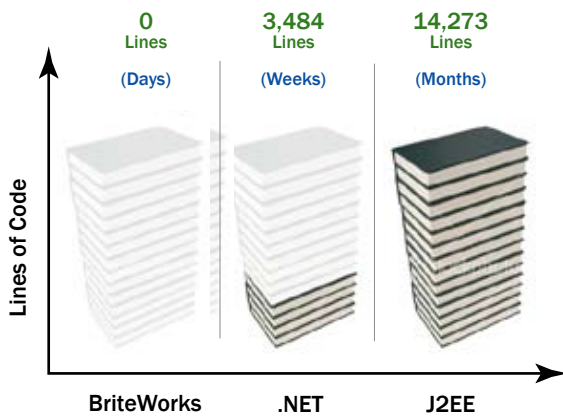
20 times faster!

Awesome results: 10-20 times faster!

With BriteWorks you don't start from scratch - you get a head start with an application that has the complete infrastructure for distributed systems; BriteWorks is ready for deployment out of the box.

You *adapt* BriteWorks to your exact requirements through a process of specification and configuration. Programming is turned into a process of dynamically modifying a running system.

The Java PetStore metrics demonstrates vividly the resulting productivity gains. A lone developer was able to build the same application in 2 days with BriteWorks that typically takes months or weeks of development with teams of 3-4 people.



- ✓ Zero Code!
- ✓ 2 Days to Develop!
- ✓ 1 Person!

There are many aspects of BriteWorks that come into play in making this possible, but the key leverage comes from starting with a running application and adapting it to your specific needs.

This enables developers to build applications at astounding speeds and modify them with ease.



The Java™ Pet Store is a Java BluePrint, an e-commerce application published by Sun to disseminate J2EE best practices.

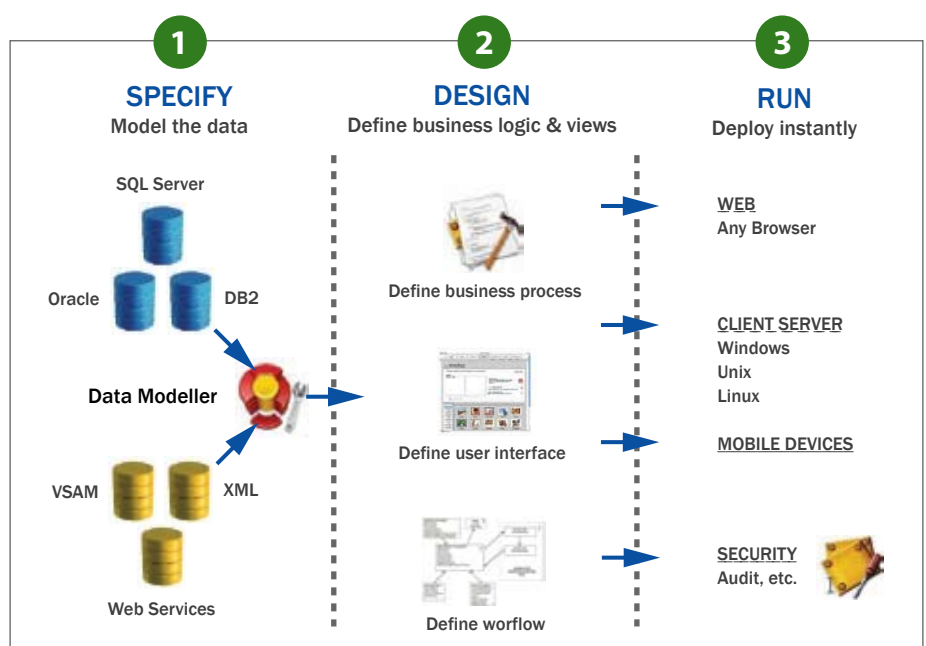
“What, not How” simplifies development

BriteWorks operates on the principle of “What, not How.”

BriteWorks provides a direct mapping of the requirements model – the “WHAT” – to the application model. This results in a high level of transparency while eliminating errors and tedious steps.

Programming languages have no constructs that map to requirements and must go through a series of transformations – the “HOW” – that distort the requirements to fit the software.

BriteWorks provides the infrastructure, so developers can focus on the business functionality and avoid the menial task of coding that drowns the development effort.



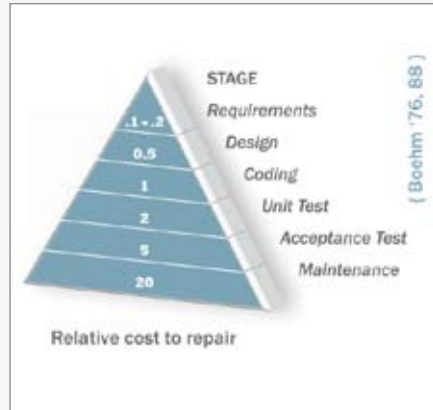
BriteWorks Development Workflow

Architected for uncertainty

Rapid Iterative Production Prototyping

The biggest challenge in software development is achieving clarity on user requirements. The most effective and proven mechanism for verifying user requirements is prototyping.

With BriteWorks, prototyping is used to demonstrate solutions to users very early in the life cycle – typically within days. Domain experts can verify requirements immediately since BriteWorks is executable instantly. Development can proceed incrementally, adapting to new require-



ments as they are discovered.

As much as 200:1 cost savings can result from finding errors in the requirements stage. Furthermore, 56% of all bugs can be traced to errors made during the requirements stage. BriteWorks avoids these pitfalls from Day One.

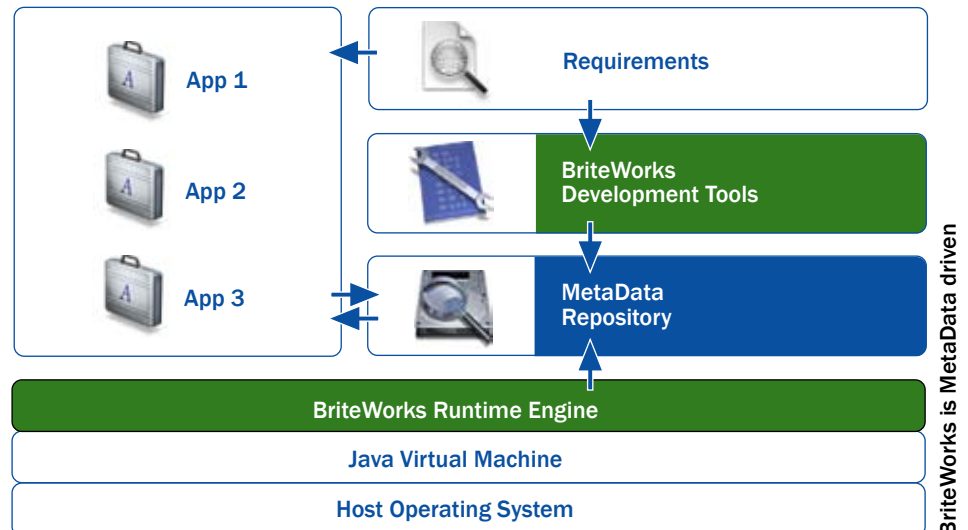
BriteWorks prototypes are not throwaways – they are working prototypes that can be turned over to production.

Architected for uncertainty

The era when business rules were buried in code is coming to an end. Today, users themselves often seek to dynamically change their business rules without the writing of new code. Customers require systems that can adapt more easily to changing business needs and can scale from small to large installations.

There is a fundamental problem in traditional software development that renders it unsuitable for change. Systems are based on a static object model - the objects are fixed at design time and cannot be changed at run-time. BriteWorks uses a radically different approach, based on dynamic object modeling, known as Adaptive Object Models (AOM). AOM as used in BriteWorks successfully confronts the need for change by casting information like business rules as metadata rather than code.

ALL specifications are converted into metadata that is stored in the Metadata Repository. BriteWorks does not generate or compile code. As no code is generated, the code-base remains the same even as more applications are developed or the applications grow in complexity. BriteWorks is optimized for distributed deployment and you automatically benefit from any performance enhancements made to the BriteWorks Engine.



Maintenance on par with development

The BriteWorks approach brings about a fundamental change in the attitude towards maintenance as it puts it on equal footing with development. Maintenance is now treated as requirements refinement – it is highly localized without the worrisome ripple effect that is commonplace with code-centric systems.

As the complete application is captured in metadata your business rules are not buried in code and you benefit from a high level of transparency. You can interrogate the metadata repository and treat it like any database – make inquiries, generate reports and study the implications of change. Traceability and reconstruction are no longer a nightmare.

The ability to make a change and see its impact instantly simplifies maintenance immensely.

Awards recognize breakthrough technology

BriteWorks technology has garnered recognition in both Asia and the US with two awards in 2005:

Merit Award for Applications and Infrastructure Tools
(APICTA, Malaysia)

Extraordinary Performance Centered Design Tool Award
(EPSScentral LLC, USA)

Enterprise-ready Operational Services

Business applications, as diverse and unique as they may seem, share many similarities that are almost universally required in enterprise class applications. These requirements are operational features, known as 'aspects' that must be distributed across functional features. Because of this cross-cutting, implementations of aspects become tangled with the implementation of functional features, making maintenance difficult.

BriteWorks provides these system functions as services that are automatically invoked without any additional effort.

Authentication/Authorization

Access control in BriteWorks is based on a rule-base of authorization options. Authorization rules can quickly define in a coarse-grained way which users may perform which actions on which objects and they have a global scope.

Audit


BriteWorks provides the crosscutting function of auditing transactions at a high level of granularity. Authorization rules also govern how the auditing is performed. You have control over specifying what types of events, actions are audited, and also audit by named user or by role.

Internationalization/Localization

BriteWorks is designed from the ground up to support multilingual and multi-currency deployment. It supports double-byte characters and is compliant with Asian and East European languages.

Web Services

Web Services are provided natively within BriteWorks. Developers are shielded from the intricacies of WSDL and a web service is treated as just another data source to be consumed by BriteWorks.

 BriteWorks	The next-generation platform
	<ul style="list-style-type: none">⊙ Develop new applications⊙ Modernize legacy applications⊙ Integrate disparate information silos⊙ Create composite applications⊙ Consume web services

“Any sufficiently advanced technology is indistinguishable from magic.”

[Arthur C Clarke]



www.britesoftcorp.com

Suite G-2, Ground Floor, Incubator 1, Technology Park Malaysia,
Bukit Jalil, 57000, Kuala Lumpur, Malaysia.

Tel: +603 8996 8100

Fax: +603 8996 8102

Email: info@britesoftcorp.com