



## CONVENTIONAL METHOD vs. ADVANCED METHOD (BRITEWORKS™)

### An Example of Old vs. New

To best illustrate the difference between conventional development methods and BriteWorks™, let us take an example of building a simple web application.

<p><b>Old – Conventional Methods</b> - The development cycle and decision making process has been broken up into several sub-headings for ease of reference.</p> <p>The following are amongst the decisions and steps required</p> <ul style="list-style-type: none"> <li>❖ <b>Environment</b> <ul style="list-style-type: none"> <li>✓ What platform (hardware) will the new application run on?</li> <li>✓ What database will the application run on?</li> <li>✓ What are the implications of the above?</li> <li>✓ What development environment will be used – today, typical Java or dotNET.</li> <li>✓ For the purpose of this example, let's assume Java is selected.</li> </ul> </li> <li>❖ <b>Recruitment of Developers</b> <ul style="list-style-type: none"> <li>✓ Next is the arduous task of finding a good team of developers, let's say five good Java programmers have to be recruited. Because it's a web application, they may need skills in JSF, JSP and possibly AJAX and Java Scripts.</li> <li>✓ Java developers are hard to come by. There is a regional shortage of these resources and good programmers are expensive and job hop.</li> <li>✓ There is no point in taking graduates and training them in Java because it will take a long time before they are productive.</li> </ul> </li> </ul>	<p><b>New – The BriteWorks™ Method</b> - The following is the same list, however with a much simplified process:</p> <ul style="list-style-type: none"> <li>❖ <b>Environment</b> <ul style="list-style-type: none"> <li>✓ No early decision making is required</li> <li>✓ BriteWorks™ is Java based, so it will run on all platforms and databases</li> </ul> </li> <li>❖ <b>Recruitment of Developers</b> <ul style="list-style-type: none"> <li>✓ No need for highly experienced developers</li> <li>✓ You can employ graduates with very little experience, one or at most two instead of the five experienced Java developers</li> <li>✓ It will take three days to train any IT person to user BriteWorks™</li> </ul> </li> </ul>
--	--



<ul style="list-style-type: none"> <li>❖ <b>Architecture</b></li> <li>✓ Let us assume that the end user requirements have already been captured, so the next main step is to build an entire architecture,</li> <li>✓ Building an architecture typically constitutes 30% to 40% of an application</li> <li>✓ Very detailed technical knowledge is required to build a good architecture</li> <li>✓ A bad architecture will make the whole system collapse</li> <li>✓ An architecture diagram has to be created</li> <li>✓ Architectural details and interfaces have to be disseminated to the developers</li> <li>✓ Full Documentation has to be done for future reference</li> </ul>	<ul style="list-style-type: none"> <li>❖ <b>Architecture</b></li> <li>✓ No Architecture Design is required</li> <li>✓ BriteWorks™ architecture is entirely reusable</li> </ul>
<ul style="list-style-type: none"> <li>❖ <b>Design</b></li> <li>✓ Each window/program has to be designed</li> <li>✓ The system flow has to be pinned down</li> <li>✓ Reviews have to be conducted amongst the development team</li> <li>✓ Full Documentation</li> </ul>	<ul style="list-style-type: none"> <li>❖ <b>Design</b></li> <li>✓ If the requirements are captured and a data model is developed, developers can start creating fully functional windows literally within seconds.</li> <li>✓ Flows can be put together very easily</li> </ul>
<ul style="list-style-type: none"> <li>❖ <b>Prototyping</b></li> <li>✓ This step allows the user to see an early version of a solution.</li> <li>✓ Typically, this is done in a tool such as Microsoft Visio, which means it has to be thrown away and has to be redone during the next stage</li> <li>✓ This could take several weeks depending on the size of the project.</li> </ul>	<ul style="list-style-type: none"> <li>❖ <b>Prototyping</b></li> <li>✓ The design step above basically constitutes the prototyping.</li> <li>✓ The prototypes need not be thrown away. They form part of the system as they are fully functional windows.</li> </ul>



## CONVENTIONAL METHOD vs. ADVANCED METHOD (BRITEWORKS™)

<ul style="list-style-type: none"><li>❖ <b>Coding</b><ul style="list-style-type: none"><li>✓ This is the most complicated portion of development</li><li>✓ The least business oriented</li><li>✓ The most costly and time consuming</li><li>✓ Potentially hundreds of thousands or even millions of lines of code have to be crafted. Sometimes only the developer understands the code written.</li><li>✓ Some development teams conduct Code Reviews</li><li>✓ Full Documentation</li></ul></li><li>❖ <b>Quality Assurance</b><ul style="list-style-type: none"><li>✓ Integration Testing</li><li>✓ System Testing</li><li>✓ Functional Testing</li><li>✓ Performance Testing</li><li>✓ User Reviews</li><li>✓ Bug Fixes (by developers)</li><li>✓ Performance Tuning (by developers)</li></ul></li></ul>	<ul style="list-style-type: none"><li>❖ <b>Coding</b><ul style="list-style-type: none"><li>✓ No Coding Required</li><li>✓ The system is self documenting</li></ul></li></ul>
<ul style="list-style-type: none"><li>❖ <b>Quality Assurance</b><ul style="list-style-type: none"><li>✓ Integration Testing – much smaller scale</li><li>✓ System Testing – much smaller scale</li><li>✓ Functional Testing – still required</li><li>✓ Performance Testing – much smaller scale</li><li>✓ User Reviews – still required</li><li>✓ Bug Fixes (by developers) – much smaller scale</li><li>✓ Performance Tuning (by developers) – much smaller scale</li></ul></li></ul>	



## CONVENTIONAL METHOD vs. ADVANCED METHOD (BRITEWORKS™)

<ul style="list-style-type: none"><li>❖ <b>Training / Acceptance / Migration / Move to Production</b><ul style="list-style-type: none"><li>✓ Migration Plans have to be written</li><li>✓ Code and databases have to be migrated and kept in synch</li><li>✓ Final Developer Testing</li><li>✓ Training</li><li>✓ User Acceptance Testing</li><li>✓ Fixing/Testing (by developers) – followed by new migration.</li></ul></li></ul>	<ul style="list-style-type: none"><li>❖ <b>Training / Acceptance / Migration / Move to Production</b><ul style="list-style-type: none"><li>✓ Migration Plans have to be written – still required</li><li>✓ Code and databases have to be migrated – ONLY the repository is migrated</li><li>✓ Training – still required</li><li>✓ User Acceptance Testing – still required</li><li>✓ Fixing/Testing (by developers) – followed by new migration. Smaller scale</li></ul></li></ul>
<ul style="list-style-type: none"><li>❖ <b>Additional Features</b><ul style="list-style-type: none"><li>✓ Desktop vs. Web – in conventional methods, you have to do two sets of developments, so you almost double the time spent.</li><li>✓ Security, Auditing, Localization, Import/Export facilities, Preferences</li></ul></li></ul>	<ul style="list-style-type: none"><li>❖ <b>Additional Features</b><ul style="list-style-type: none"><li>✓ Desktop vs. Web – with BriteWorks™, you develop once and deploy in both Desktop and Web, without additional work.</li><li>✓ The BriteWorks™ runtime comes ready made out of the box with: Security, Auditing, and Localization, Import/Export facilities, Preferences, etc.</li></ul></li></ul>