



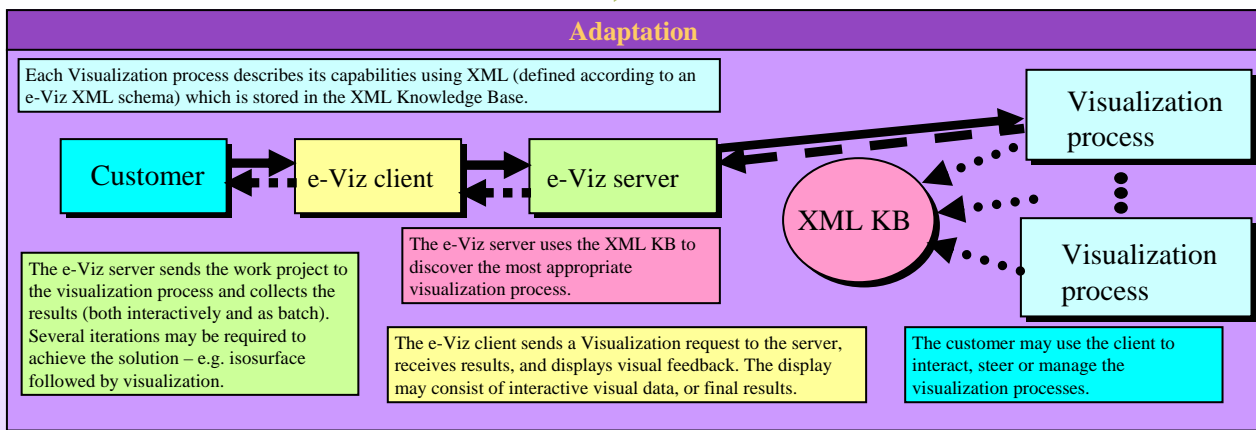
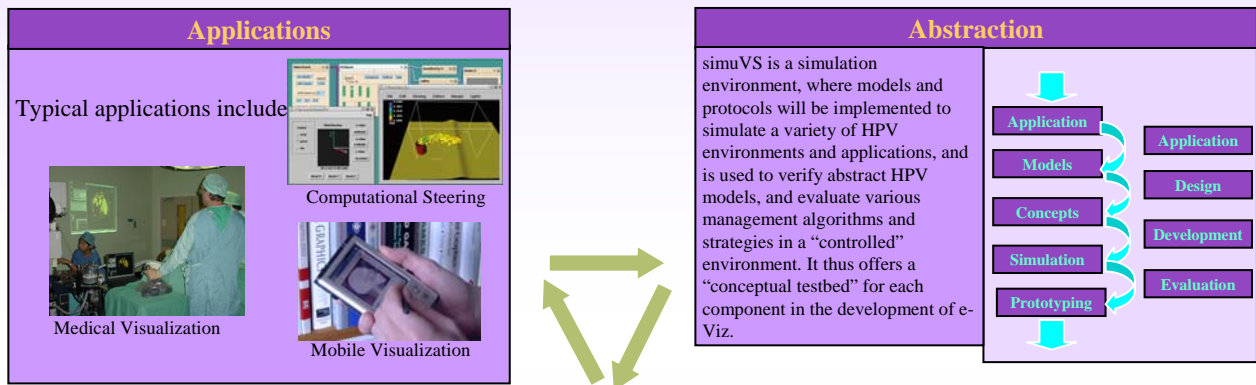
e-Viz – An Advanced Environment for Enabling Visual Supercomputing

University of Wales at Bangor and Swansea
Universities of Manchester and Leeds

The e-Viz Project

<p>Challenge</p> <p>To deliver an advanced infrastructure that enables complex visualization tasks to be carried out seamlessly in Grid and High Performance Computing environments.</p>	<p>The Project</p> <p>e-Viz is a collaborative research project funded by EPSRC and the e-Science programme, involving Bangor, Leeds, Manchester and Swansea. Its main aim is to develop a conceptual framework for HPV automatically. It will develop a prototype software system, together with a collection of conceptual models, interaction protocols and algorithms, for automated HPV management. The work will be integrated with existing Grid middleware.</p>	<p>What is HPV?</p> <p>HPV (High Performance Visualization) is the delivery of visualization services, using state-of-the-art algorithms and high performance computing, graphics and network resources.</p>
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Application Abstraction Adaptation



Graphics Technologies

Rendering Strategies

Cluster Rendering

An increase in performance can be gained by parallelising rendering – we are exploiting Chromium to enable cluster visualization and tiled displays.

Remote Rendering

Remote Rendering exploits powerful OpenGL hardware on a server delivering frames over the network to the client display. We are developing portable remote rendering software



Further information at: <http://www.eviz.org>

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