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# CanyonBlue

- Presents



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# Cittera

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- The Next Generation Collaborative Tool
  - Modeling
  - Integrated Development
  - Documentation & Knowledge Sharing

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# Modeling



# Why Model

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- Visually represent a problem and its solution delineating objectives to mitigate risk
- Provide an architectural “blueprint” assuring business functionality and program design requirements are met before coding begins
- Enhance productivity and improve project coordination through standards-based pre-defined vocabulary and rules



# Unified Modeling Language

- UML™ 1.3 - the language for modeling systems of varying complexity
  - OMG standard supported by IBM, Oracle, HP, Microsoft, etc.
  - Highly expressive addressing multiple views relative to development and deployment
  - Focuses on creating easy to understand models



# Modeling with Cittera

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- Visually represent a problem and its solution
  - graphically represent what is being designed and built
- Supports the UML standard
  - version 1.3 compliance
  - internal UML validator
  - supports all 9 diagrams
- A collaborative internet-based solution
  - independent of time or location
  - virtual whiteboard

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# Cittera Modeling Provisions

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- UML 1.3 compliance
- UML Validator
- Support for all 9 diagrams supported by the UML
- Collaboration
- Intelligent Locking
- Modeling Differencing and Merging
- Tight coupling between Sequence, Collaboration, and Class Diagram

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# Benefits of Cittera Modeling

- Visually portray what is being designed and built
  - represent objectives while managing the risk factors
  - highlight opportunities for simplification
  - enable reuse of objects and component libraries
- UML compliance
  - provides a standardized development methodology ensuring easy work conversion
  - the internal UML validator ensures compliance of a model to this standard
- Collaboration enhances communications and project coordination
  - model differencing and merging capabilities provide unsurpassed flexibility



# Integrated Development

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# Why Use Integrated Development Tools

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- Manage development processes from concept to deployment assuring clear a understanding of design goals
- Improve communications and enhance productivity to minimize time-to-market
- Anticipate and manage risks to move quickly from requirements to code



# Integrated Development with Cittera

- Manage development processes from concept through deployment
  - system architecture and software coding occur in the same environment
    - language options for code generation include C++ and Java
    - forward and reverse engineering
- Predictable results based on common references
  - common understanding of tasks, responsibilities and artifacts
    - building on standards-based open source practices
    - provides an infrastructure allowing teams to collaborate effectively
- Incremental or iterative, MDA, RDA or XP approach
  - leverage reuse of previous development work

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## Integrated Development Provisions

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- Extensive language specific options for code generation
- Java/C++ roundtrip engineering
- Editable view for a class/component
- Syntax highlighting
- Code formatting support
- Generating Java Doc for Java Models
- J32EE support (EJB-2.0 and Servlets-2.2)

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# Benefits of Cittera Development

- Architecture and coding in the same environment
  - move easily from model to code
  - faster more efficient development
    - model components can be leveraged across projects
- Common understanding of tasks, responsibilities and artifacts
  - Increased visibility into a project
    - early understanding of business and development requirements
    - reuse of artifacts assures time-to-market gains
- Infrastructure for teams to collaborate
  - enhances communications and project coordination
  - improves delivery time as well as quality

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# Documentation & Knowledge Sharing

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# Documentation & Knowledge Sharing

- Why document
  - have a developmental history of a model as well as its attributes and operations
  - effectively manage all aspects of the development process and team
  - capture project reasoning and activities
- Why share knowledge
  - make the most of organizational assets for development including experience, personnel, and best practices
  - build on the strengths of others



# Documentation with Cittera

- Provide a history of a model's development
  - a searchable bulletin board to exchange ideas and ensure common understanding
    - archival log of activities at each stage
- Manage the development process
  - version control and historical services ensure each version is retrievable
    - provides an audit log to previous model versions
- Capture project reasoning and activities
  - document requirements, tests, comments or annotations



# Knowledge Sharing with Cittera

- Make the most of organizational and development assets
  - experience, personnel, and best practices
    - leverage components and knowledge across new projects
    - garner information through customizable reporting
- Build on the strengths of others
  - broaden understanding of techniques and approaches
    - increase visibility into projects before undertaking
    - use as training aids

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# Cittera Documentation and Knowledge Sharing Provisions

- Bulletin board
- Audit trail
- Annotation
- Copy/past across models
- Entity search
- Bulletin board search
- Customizable visual properties
- Option support, user can set option as per requirement
- Reports
- Configuration Management



# Benefits of Cittera Documentation

- Maintain complete project history
  - review changes to a model in each stage of development
    - improve communications to maximize productivity and minimize time-to-market
- Enable virtual teams to work together
  - irrespective of time or location
    - mitigate risk and integration concerns
    - enhance project coordination
    - enable user accountability
- Leverage previous assets for efficient modeling
  - enable reuse of quality tested components

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# Benefits of Cittera Knowledge Sharing

- Enhance organizational and development assets
  - custom visual aids to identify and depict model information
    - provide the team with a clear understanding of design goals
    - increase visibility into a project
- Leverage the strength of others
  - understand project reasoning and activities
    - increase understanding of techniques or approaches
    - easily identify dependencies and associations
  - cultivate UML skills



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# Why Cittera

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- A collaborative environment for application development providing
  - an easy to understand visual depiction of what is being designed and built
    - graphically represent objectives
  - an integrated development tool that manages project processes from concept through deployment
    - manage risk factors across the team and business functions
      - protection of valuable knowledge assets
  - a developmental history of a model as well as its attributes and operations
    - make the most of organizational assets for development including experience, personnel, and best practices

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# Cittera Advantages

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- **Productivity**
  - enhance team productivity and improve project coordination
- **Time-to-Market**
  - provide a history of the development cycle for higher quality software with faster development time
- **Cost reduction**
  - leverage previous development assets for efficient effective modeling reducing costs
- **Investment Protection**
  - serves as a robust cost-effective collaboration extension to current investments in modeling tools

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# Cittera Advantages (cont.)

- Minimize Corporate Risks
  - Cittera enables iterative development and object reuse
    - increase return-on-investment by utilizing time-tested, proven components
    - leverage corporate knowledge assets accelerating time-to-market
    - provides unsurpassed flexibility by enabling the reuse of any portion of an object into any level of a model
    - significantly improves development time as well as quality



# CanyonBlue

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CanyonBlue was founded by leaders from the software development industry. Their mission is to provide Internet-enabled tools that empower software professionals to build solutions that meet the challenging needs of the new economy.

To accomplish this they are leveraging their significant experience in the practices of software reuse and fast ramp-up to bring to market timely and high-quality applications.

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