

Smart Client Baseline Architecture Toolkit (SC-BAT)

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patterns & practices
Proven practices for predictable results

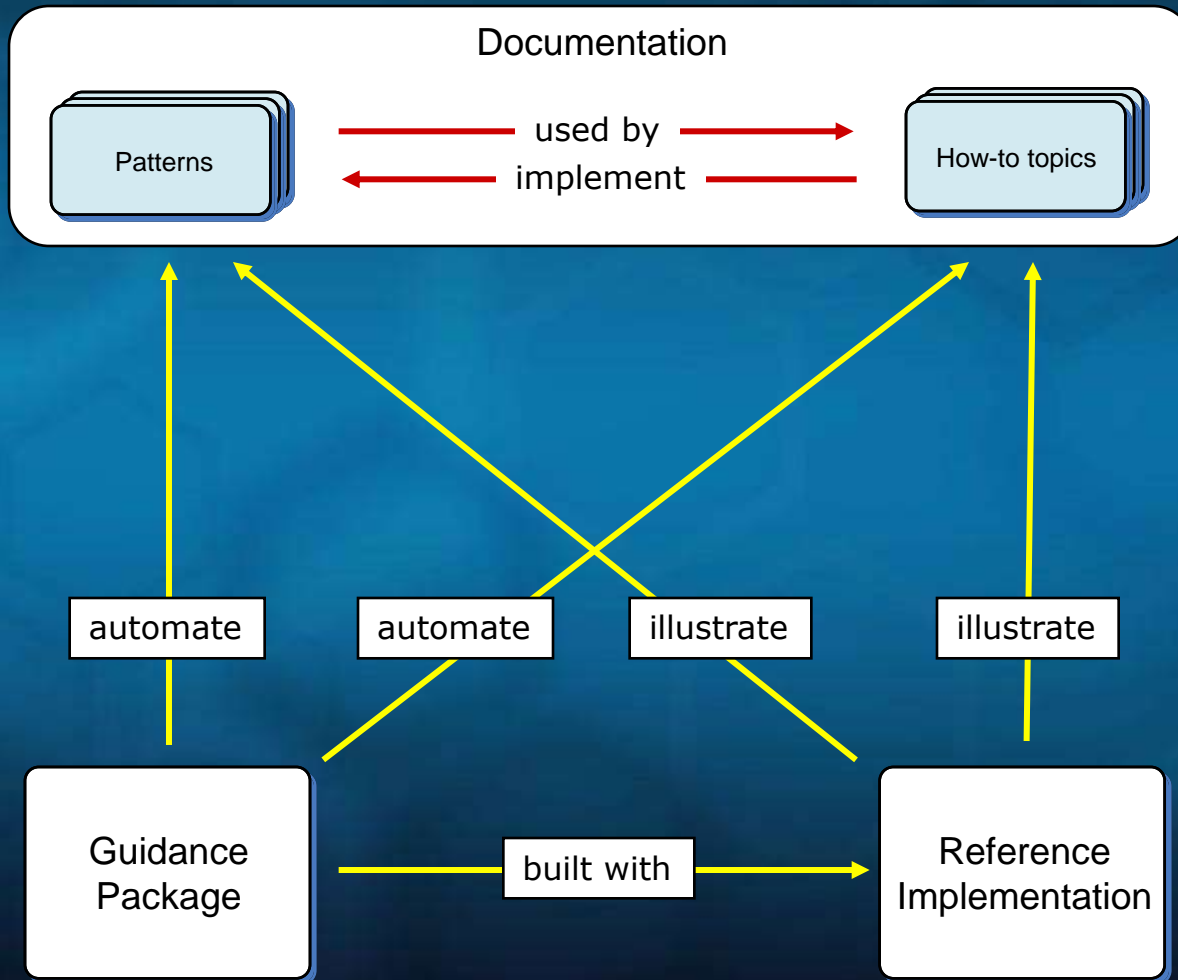
What is SC-BAT?

- Integrated guidance for smart clients
 - Narrative guidance
 - Reusable assets
 - Guidance automation
 - Reference implementations
 - Hands on labs

Scenarios

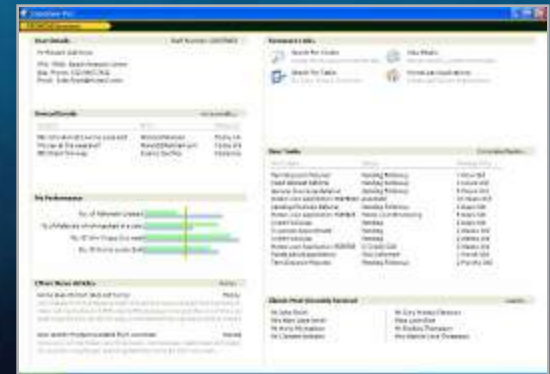
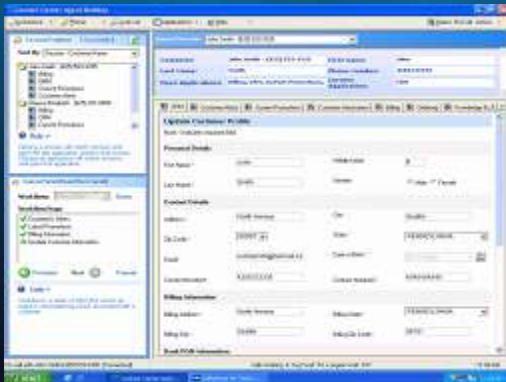
- Windows Forms on .NET 2.0
- Existing patterns & practices assets
 - Composite UI Application Block (CAB)
 - Enterprise Library
 - Guidance Automation Toolkit (GAT/GAX)
- Reference applications based on the Global Bank scenario

Integrated Guidance



What is CAB?

- Framework for building enterprise Smart Client apps
- Based on proven design patterns
- Aligned with future Microsoft Client technologies



CAB Design Objectives

- Composite client applications
- Cooperating, loosely coupled “parts”
 - Communicate with minimum knowledge
 - Independently developed and deployed
 - Heavy use of dependency injection
- Reuse of common services
- Separation of concerns
- Designed for extensibility

Key CAB Concepts

- Shell application
- Loadable modules
- WorkItem
 - Smart object factory
 - Dependency injection container
 - Service locator
- EventBroker
- Workspaces
- UI extension sites
- Commands

Reference Implementations

- Reference Implementation 1:
Appraiser Workbench
- Reference Implementation 2:
Global Bank Workbench

Appraiser Workbench

- Composable UI
 - Reusable Shell Application
 - Appraiser Workbench Module
 - Common Utility Library
- ClickOnce deployment
- Service Agent
- Occasionally connected
 - Server operations as asynchronous
 - Operations queued when off-line
 - Local data cache

Appraiser Workbench

- Windows authentication
- Exception handling
 - Enterprise Library Exception Handling Block
 - Centralized configuration
- Service operation logging
- Simple back-end service provided

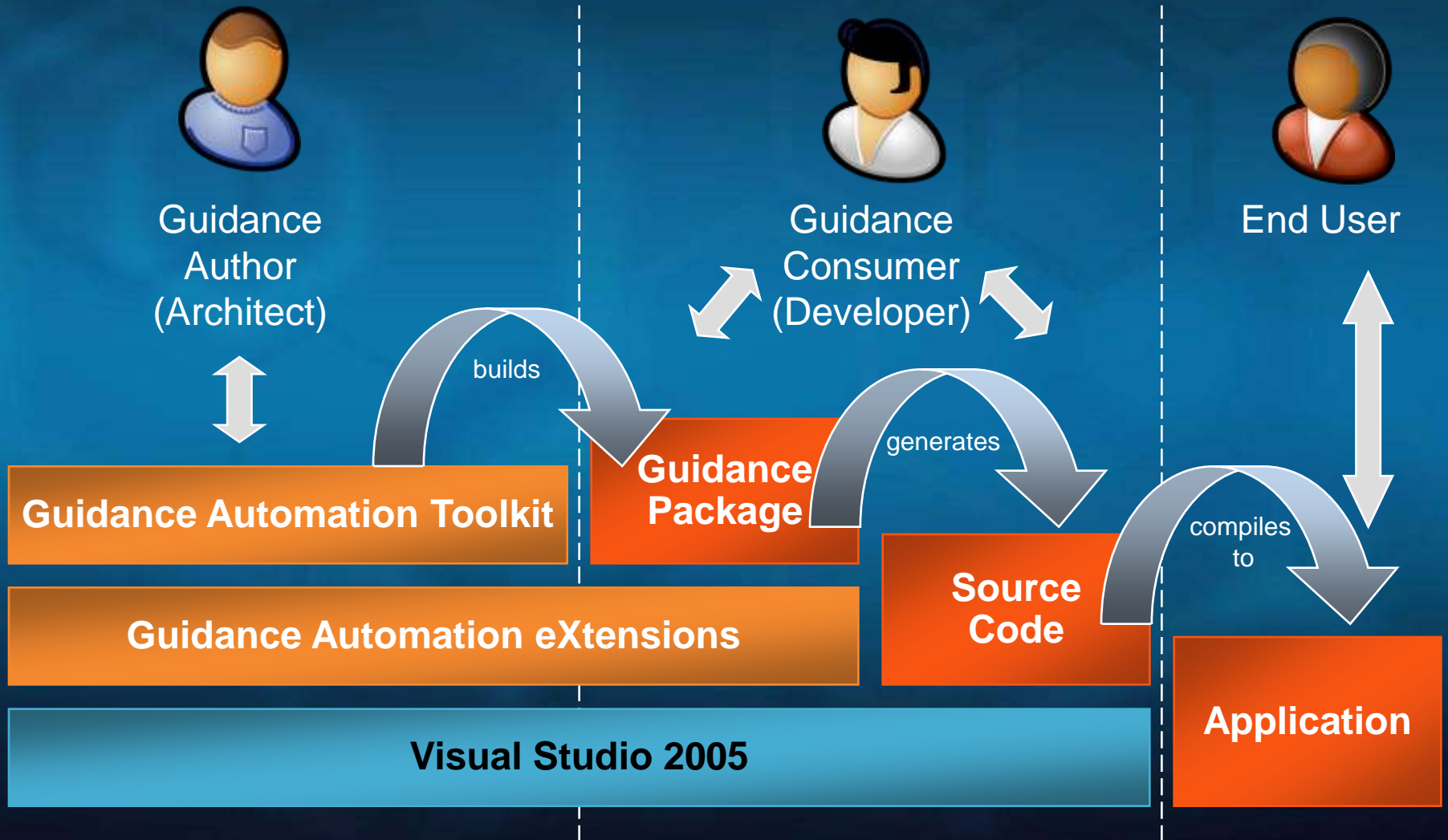
Demo

Appraiser Workbench

What is GAT?

- Two pieces:
 - Guidance Automation Extensions (GAX)
 - Guidance Automation Toolkit (GAT)
- Lightweight Visual Studio extensibility
- Simplified authoring experience
- Delivers contextual guidance to devs
 - Patterns
 - “How-To”s
 - Company conventions

Guidance Lifecycle



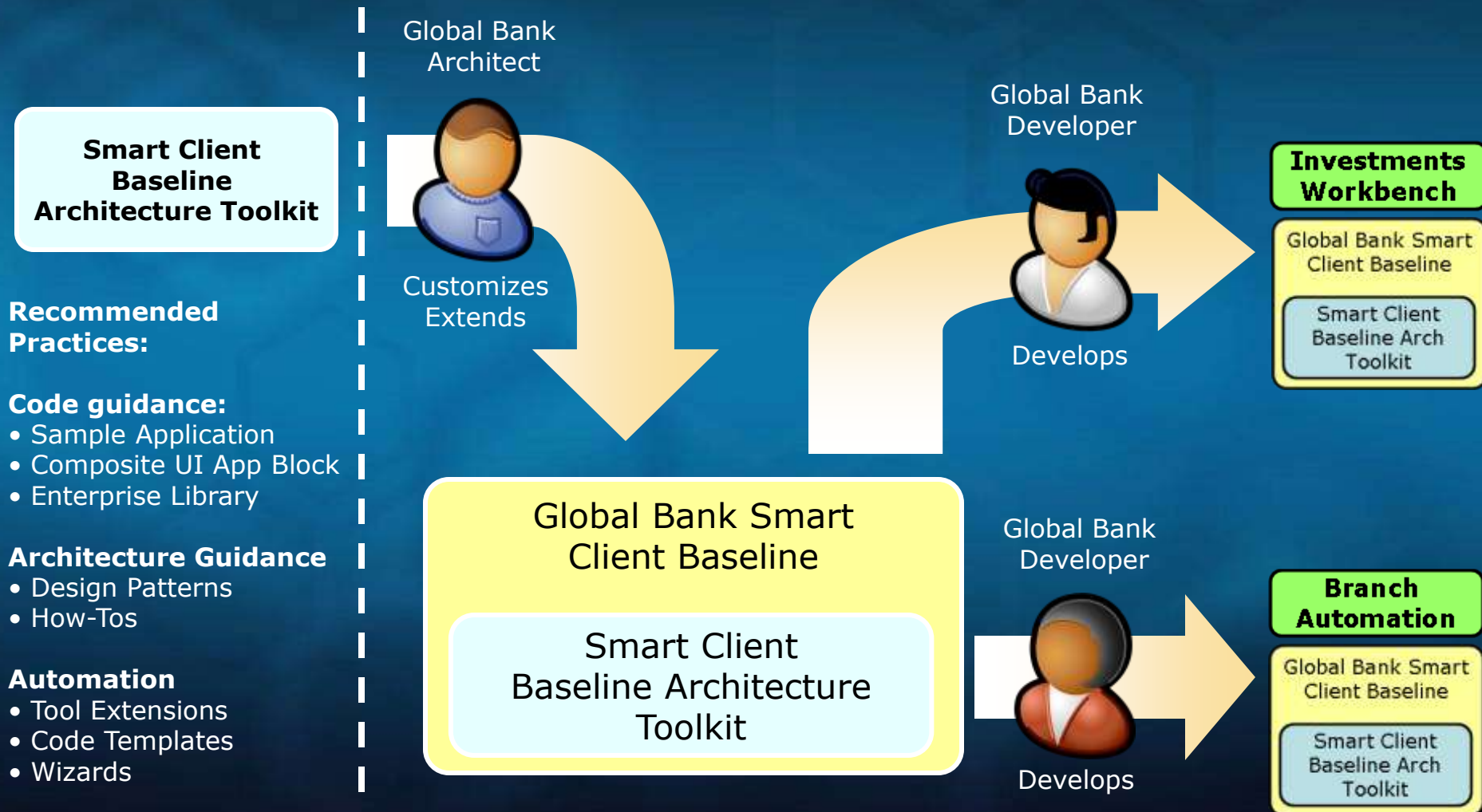
Guidance Automation Toolkit

- Deliver contextual guidance within the Visual Studio environment
- Automate How Tos and Patterns
- Customizable and extensible
- Familiar user experience

Demo

Smart Client Guidance Package

Customizing Guidance



Q&A

Links

Composite UI Application Block

<http://codegallery.gotdotnet.com/cab/>

<http://msdn.microsoft.com/library/en-us/dnpag2/html/cab.asp>

Smart Client Baseline Architecture Toolkit

<http://codegallery.gotdotnet.com/scbat/>

<http://msdn.microsoft.com/library/en-us/dnpag2/html/scbatlp.asp>

patterns & practices

<http://msdn.microsoft.com/practices/>

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