



SERUG
2007

Jacksonville, FL
May 2-4

ArcGIS Server Mobile

Matt Still
ESRI Charlotte

ArcGIS Mobile



- An ArcGIS Server developer solution for mobile applications
- An SDK that ships with ArcGIS Server for building Mobile applications.
- A Suite of .NET Components for developing custom server-centric lightweight mobile applications

ArcGIS Mobile



- Supports field workflows
 - Data viewing
 - Feature inspection
 - Basic data collection
- Direct synchronization with ArcGIS Server
- Connected and disconnected environments
- Windows Mobile and Desktop platforms



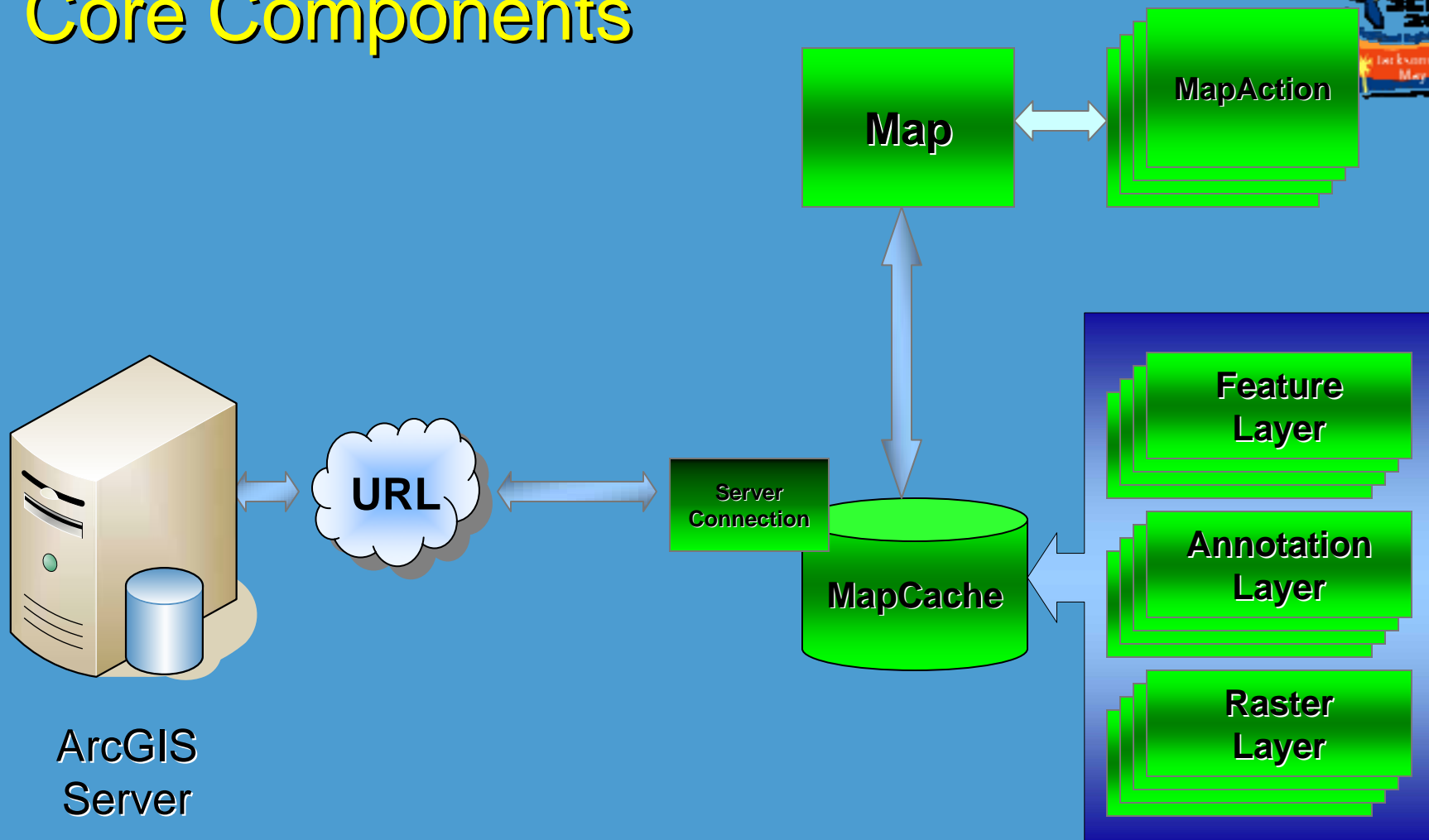
ArcGIS Mobile Architecture

ArcGIS Mobile : Features Overview



- Full Support of Geodatabase Transaction Model
- Leverage Visual Studio 2005 WinForms
- Small footprint and high performance
- Comprehensive developer help
 - Visual Studio integration
 - Walkthrough, Samples
 - Online documentation

ArcGIS Mobile: Core Components



ArcGIS Mobile : Target Platforms



- Microsoft .NET/.NET Compact Framework 2.0
- Windows Mobile 5.0
 - Pocket PC
 - Smartphone
- Windows Mobile for Pocket PC 2003
- Windows CE 5.0
- Windows XP

ArcGIS Mobile : Prerequisites

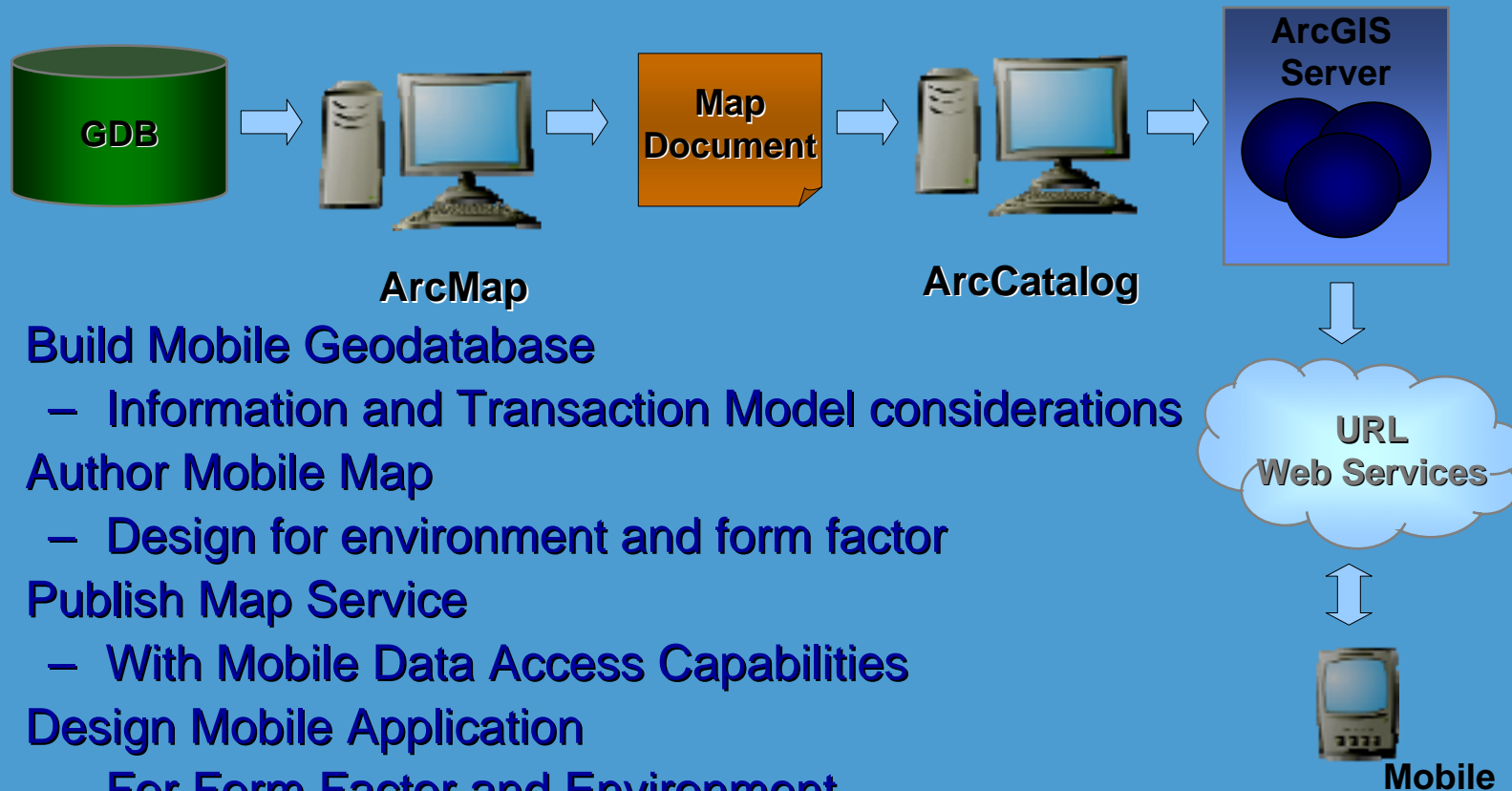


- Visual Studio 2005
 - C# or Visual Basic .NET
- Familiarity with
 - .NET Framework 2.0/.NET Compact Framework 2.0
- Windows Mobile 5.0 SDKs (Pocket PC/Smartphone)
- Active Sync 4.1 or higher installed
- Familiarity with ArcGIS Server



ArcGIS Mobile Workflow

ArcGIS Mobile Workflow

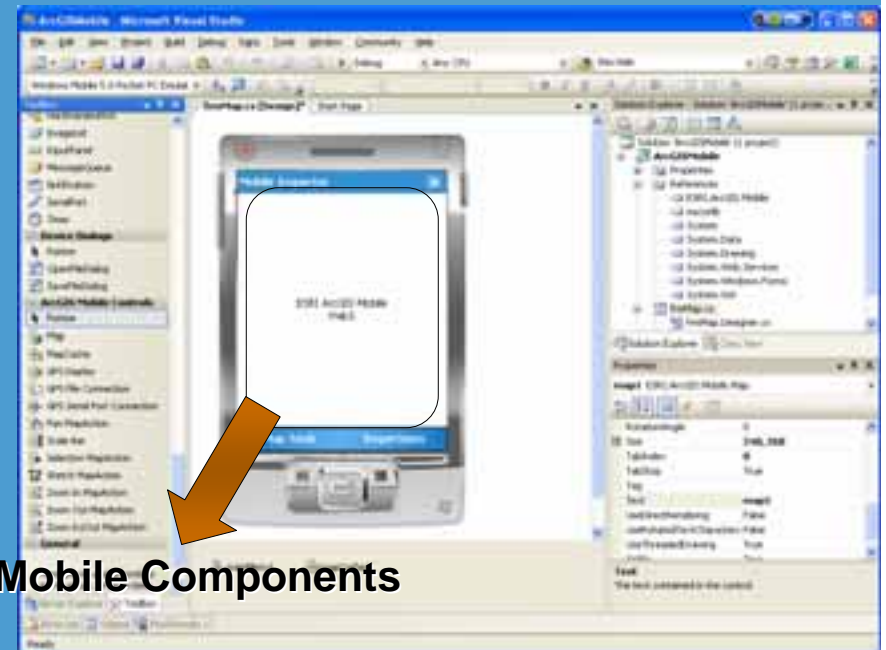


- Build Mobile Geodatabase
 - Information and Transaction Model considerations
- Author Mobile Map
 - Design for environment and form factor
- Publish Map Service
 - With Mobile Data Access Capabilities
- Design Mobile Application
 - For Form Factor and Environment
- Deploy Mobile Solution
 - Provision devices
- Synchronize Mobile GIS solution
 - Consider bandwidth and battery

Designing Mobile Applications



- Mobile SDK installed as part of ArcGIS Server
- Use Visual Studio 2005:
 - Windows Mobile 5.0 for Pocket PC
 - Pocket PC 2003
 - Windows Mobile 5.0 for Smartphone
 - Tablets and Notebooks (Windows XP)
- IDE Integration
- Build Simple and focused user interfaces
- Develop for function and form factor



ArcGIS Mobile Components

Synchronize Mobile GIS Solution



Application:

- Takes responsibility for managing the sync process
- Pushes and pulls new and updated features
- Leverages spatial and attribute queries to optimize feature pull from the Server

