



# **Managing Object Oriented Projects – Introduction**

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# Objective

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- **Provide a process to manage object-oriented projects.**
- **Focus on projects**
  - **duration of less than 6 months**
  - **team of 2 dozen or less**
  - **general business applications (vs. military or other highly regulated industry)**



# Introduction

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- **Craig Wilson, Lead Consultant  
Matincor, Inc. ([www.matincor.com](http://www.matincor.com))**
- **20 years IT management  
experience**
- **Project experience**
  - **teams of up to 200**
  - **annual budgets of up to \$15 million**



# Today's Challenges

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- **Rapidly evolving technologies**
- **Multi-tier environments**
- **Ever-shrinking development timeframes**
- **Lack of common software engineering discipline**



# Tomorrow's Challenges

- **Web Services**
  - **Physically distributed development**
  - **Limited control over communications layer**
  - **More business / legal issues**
  - **Evolving standards**
- **Increased use of wireless technologies and specialized platforms**

# Project Approach

- **Software engineering process focused on predictable, repeatable results.**
- **This course utilizes the On-Target 4D™ methodology**

# On-Target 4D™

- **Software development methodology**
  - **Tools (*how*)**
    - **Unified Modeling Language**
    - **Various custom models and templates**
  - **Processes (*who, what, and when*)**
    - **Based upon subset of industry standard object-oriented analysis and design techniques**
    - **Specifically delineated**
      - **Activities and artifacts designated by role, by project phase**



# On-Target 4D

- **Designed for small to medium sized projects**
  - **Project window < 6 months**
  - **Project staff < 30 members**
- **Focus on shared team experience and knowledge**
  - **vs. individual tasks and project artifacts**



# On-Target 4D **SDLC**

- **System Development Life Cycle**
  - **Discover**
  - **Design**
  - **Develop**
  - **Deploy**
- **Multiple iterations**
  - **Risk mitigation**
  - **Discover & Learn revisions**



# On-Target 4D **SDLC**

- **For purposes of this discussion, 3 iterations will be targeted towards a production release**
- **Product should be available for demonstration at end of each iteration**



# SDLC Iteration Focus

- **First Iteration**
  - **Requirements discovery**
  - **Conceptual design**
  - **Architecturally significant functionality and qualitative factors**
  - **Validating the design model**

# SDLC Iteration Focus

- **Second Iteration**
  - **Requirements clarification**
  - **Conceptual design refinement**
  - **Architectural modifications**
  - **Adding functionality to system**
  - **Establishing regression tests**

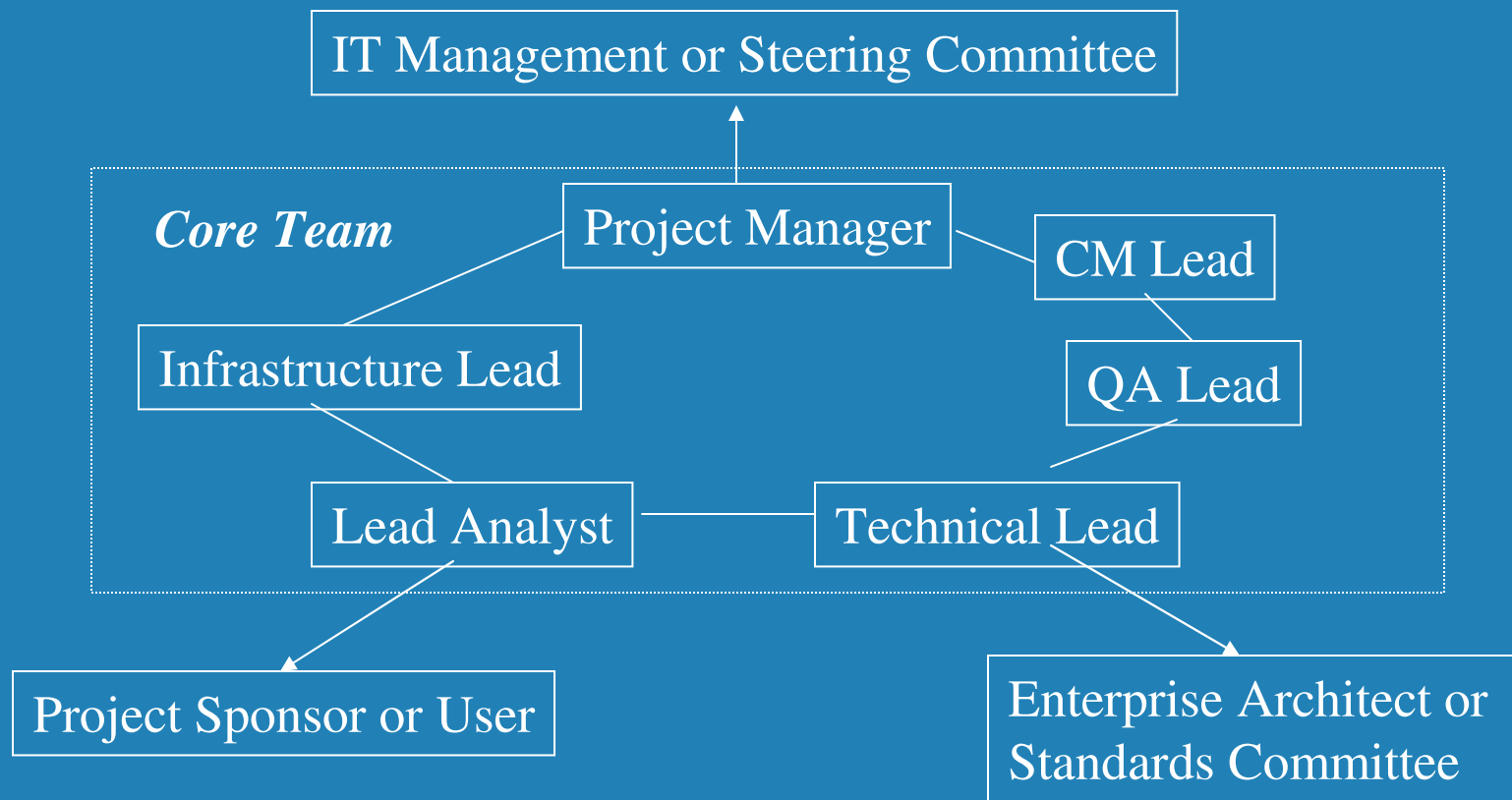


# **SDLC Iteration Focus**

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- **Third Iteration**
  - **Finalize secondary requirements and design for initial release**
  - **Stabilize application – limited architectural changes**
  - **Certification testing**
  - **Deployment to production environment**

# OT4D Team Model





# Team Communications

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- **Each team role has specific communication responsibilities**
  - **Internal**
    - **Inter-team**
  - **External**
    - **Extended project team**



# Project Manager

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- **Internal**
  - **Coordinates and facilitates inter-team activities and communications**
  - **Represents management's interest**
- **External**
  - **Reports project status & progress to IT management**
  - **Represents team's interests and concerns to management**
  - **Addresses intra-project, personnel, and resource issues with management**





# Lead Analyst

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- **Internal**
  - Provide requirements and understanding of the project “vision”
  - Represents client’s or users’ interest
- **External**
  - Reports project status & progress to business sponsor / users (w/ PM)
  - Represents team’s interests and concerns to business sponsor / users
  - Expectation Management

# Technical Lead

- **Internal**
  - Provides the architectural vision of the solution
  - Ensures standards compliance
- **External**
  - Presents architectural plan to Standards Comm. for approval or variance authorization



# Quality Assurance Lead

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- **Internal**
  - Reports to team the “health” of the product
- **External**
  - Participates in User Acceptance Test activity and results reporting



# Infrastructure Lead

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- **Internal**
  - Reports to team on status of, and changes to, infrastructure
- **External**
  - Coordinates installations across and between organizations



# Configuration Management Lead

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- **Internal**
  - Reports on status of baseline artifacts
  - Reports progress during system promotion process
- **External**
  - Coordinates product promotion to production environment with production services group



# The Project

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- **Over the next series of slides, we will discuss each phase in the SDLC including:**
  - **Activities**
  - **Artifacts**
  - **Responsibility by role**