

Software process workflows

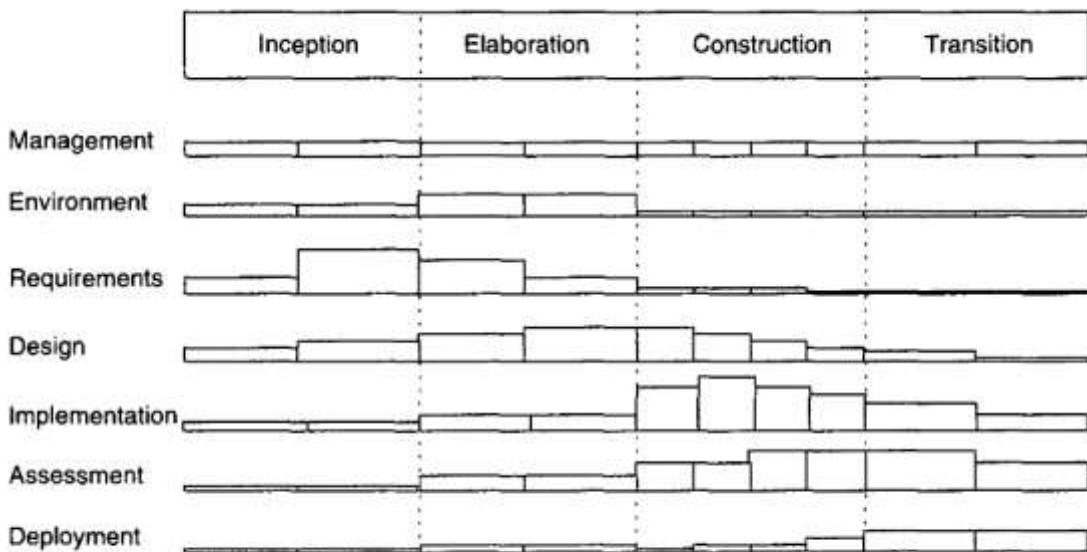


FIGURE 8-1. *Activity levels across the life-cycle phases*

- Architecture first approach
- Iterative lifecycle process
- Round-trip engineering
- Demonstration-based approach

TABLE 8-1. *The artifacts and life-cycle emphases associated with each workflow*

WORKFLOW	ARTIFACTS	LIFE-CYCLE PHASE EMPHASIS
Management	Business case	Inception: Prepare business case and vision
	Software development plan	Elaboration: Plan development
	Status assessments	Construction: Monitor and control development
	Vision	Transition: Monitor and control deployment
	Work breakdown structure	
Environment	Environment	Inception: Define development environment and change management infrastructure
	Software change order database	Elaboration: Install development environment and establish change management database
		Construction: Maintain development environment and software change order database
		Transition: Transition maintenance environment and software change order database
Requirements	Requirements set	Inception: Define operational concept
	Release specifications	Elaboration: Define architecture objectives
	Vision	Construction: Define iteration objectives
		Transition: Refine release objectives
Design	Design set	Inception: Formulate architecture concept
	Architecture description	Elaboration: Achieve architecture baseline
		Construction: Design components
		Transition: Refine architecture and components
Implementation	Implementation set	Inception: Support architecture prototypes
	Deployment set	Elaboration: Produce architecture baseline
		Construction: Produce complete componentry
		Transition: Maintain components
Assessment	Release specifications	Inception: Assess plans, vision, prototypes
	Release descriptions	Elaboration: Assess architecture
	User manual	Construction: Assess interim releases
	Deployment set	Transition: Assess product releases
Deployment	Deployment set	Inception: Analyze user community
		Elaboration: Define user manual
		Construction: Prepare transition materials
		Transition: Transition product to user

Iteration workflows

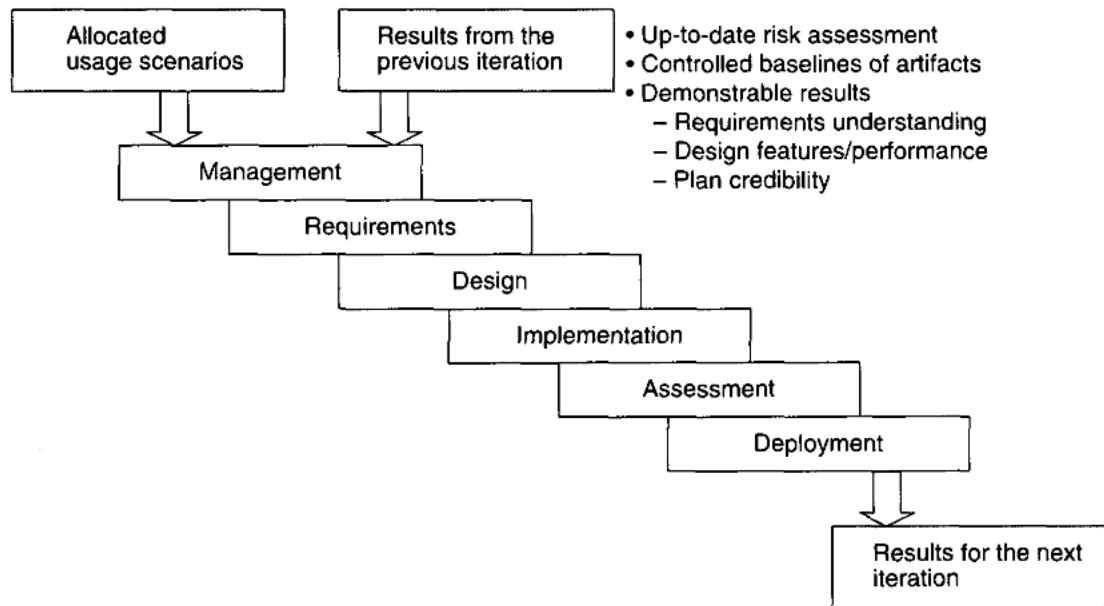


FIGURE 8-2. *The workflow of an iteration*

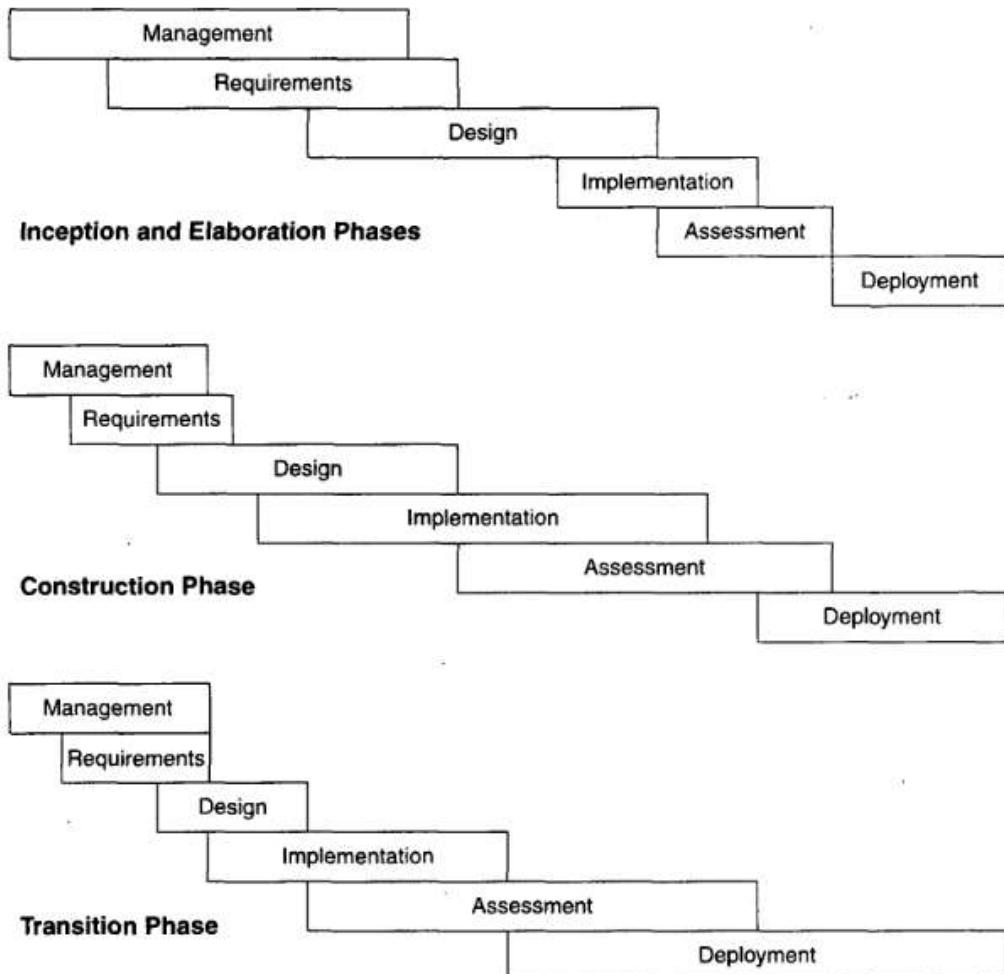


FIGURE 8-3. *Iteration emphasis across the life cycle*

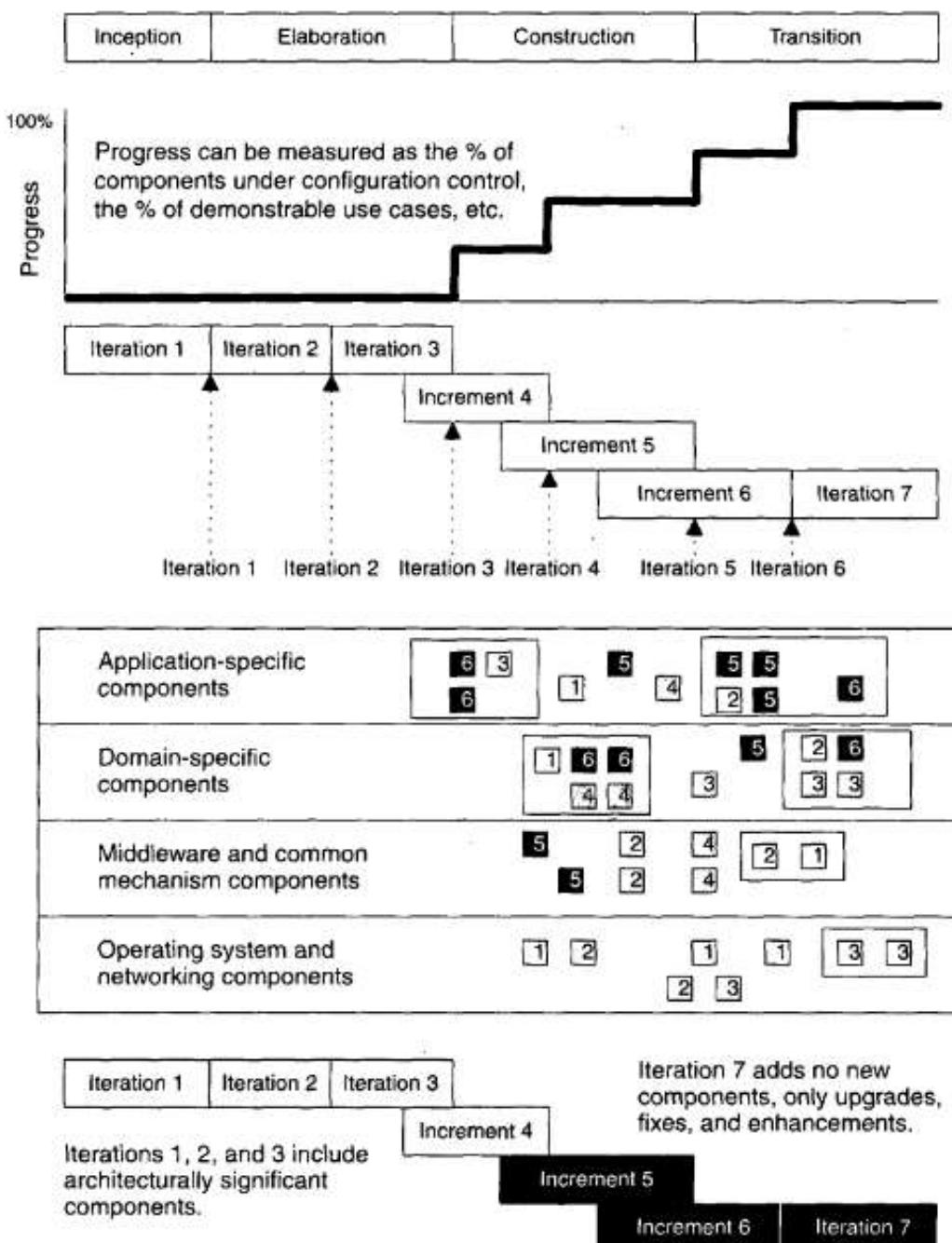


FIGURE 8-4. A typical build sequence associated with a layered architecture