

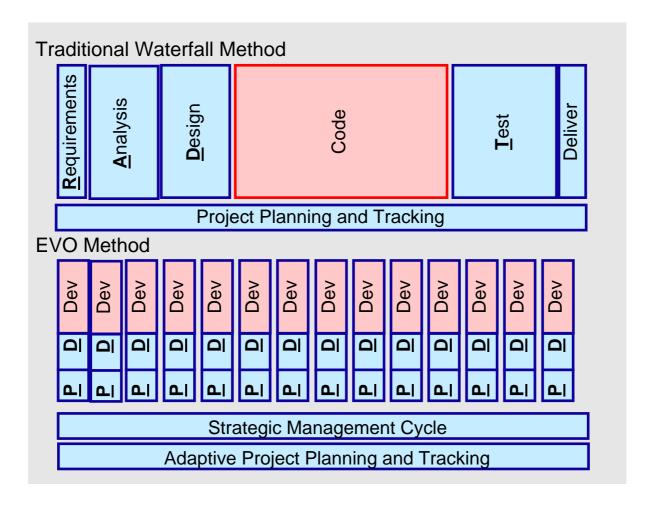


Goal

Agile Testing Principles
Tutorial on Design and XP reflections (d401a, s601d)
EVO

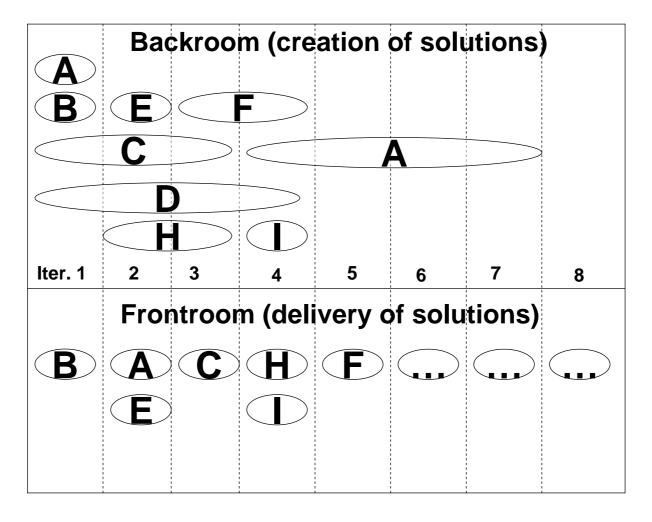


Process





Inventory Based Production





EVO Practices

Find stakeholders

Top 10 critical requirements

Define function specifications

Define performance specifications

Specification clear and where possible measurable

Planguage (optional, for req. as well as design)

Evolutionary project management (iterations 2-5% of total time and costs)

Evolutionary Delivery

Measure impact of delivered solutions



Design

Design specifications
Impact estimations
Describe connection to requirements
Tests and measures in requirements (meters)
Early Inspection/QA
Traceability links



EVO cycle

Kick-off day (all, ideas, estimates, distribution of work) Execution of Iteration (I-2 weeks) Last day

- PM checks developers and dev. reflect
- PM checks with stakeholders
- PM and developers generate new tasks



Roles

PM System Architect, Implementer Owner, Stakeholder



Planguage (Function, Performance, Design)

Tag: FLF

Type: Function Specification

----Basic Information

Gist: Find Lowest Fare for travel

Description: <input: dates, airports, carriers. Output: flights sorted by costs>

----Relationships

Supra-functions: Res.search

Sub-functions: none

Is Impacted by: {Call Center, Web Front End}

Linked to: Supports: Res.Booking

---- Measurement

Test: TI < correctness test I >

---- Priority and Risk Management

Rationale: <our competitor have it> <- Marketing Director

Assumptions:

AI: [before end of next year]: Competitor X doesn't upgrade

A2: <??>

Dependencies: Res.DB

Risks: R2, R6

Priority: Must be in first public release <- Marketing Director

---- Specific Budget Financial Budget: <??>



Impact Estimation Table

Design Ideas -> Req.	Server Cluster	High Performance hardware	Sum of Impact				
Responsive Browsing: Baseline: 5 sec, Goal: 3sec							
Scale and % impact	3±1sec. 100%±50%	4±1 sec. 50%±50%	150%±100				
Evidence and credibility	Competitor X has this configuration and response <- Jill Jones 0.2	Moon microsystems has customers acieving this <- moon Sys. Eng. 0.1					
	sum 140%	sum 70%					
Capital/Dev Cost Baseline: 0\$, Budget: \$200K							
Amount and %	\$20K±10K 10%±5	\$100K±10K 50%±5	60%±10				
Evidence and Credibility	0.1	1.0					
Benefit-to-cost Ration	14 (140%/40%)	1.4 (70%/50%)					
Impact credibility adjust	0.84 (14 * .2 * .3)	0.01 (1.4 * .1 * .1)					
Cost credibility adjust	0.08 (.84 * 0.1)	0.01 (.01 * 1.0)					



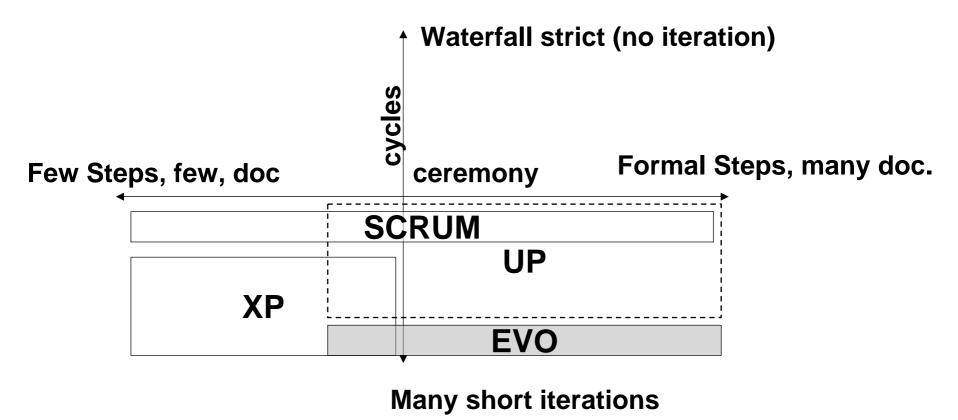
Cockburn scale Criticality

Life (L)	L6	L20	L40	LI00
Essential Money (E)	E6	E20	E40	E100
Discretionary Money (D)	D6	D20	D40	D100
Comfort (C)	C6	C20	C40	C100

People



Degree of Ceremony and Cycles





Summary

Testing
Tutorial on XP and Design
EVO