



# Re-baselining Life Cycle Architecture

Dan Port, USC  
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([dport@sunset.usc.edu](mailto:dport@sunset.usc.edu))  
(<http://sunset.usc.edu>)

# CS577b Brings Many Change...

- As with many projects, circumstances change!
  - Some CS577a projects have been canceled
  - Team changes (people from canceled projects, new people)
  - Changes in customer expectations, desires
  - Changes in requirements, constraints (e.g. budget)
  - New risks
  - New opportunities!
- Deeper dive into software engineering principles and practice
  - Apply experience from CS577a (e.g. best practices)

# Where are we now?

(RLCA)



**Inception**

**Elaboration**

**Construction**

Architecture Iterations

Release Iterations



Contract award  
(LCO)

Architecture baseline  
under change control  
(LCA)

Competitive design phase:

- Architectural prototypes
- Planning
- Requirements analysis

Early delivery of “alpha”  
capability to user

# What is RLCA?

- Literally a re-baseline effort of your projects LCA
- After LCA, a short time before construction begins, it addresses CS577b changes:
  - Re-establish team roles and responsibilities
  - Clean up system analysis, design, and development plans with respect to current project considerations
  - Update and refine requirements
  - Identify new project risks
  - Address outstanding LCA risks
  - Pre-position for IOC success

# What Should You Be Doing?

1. Establish your new team ASAP
2. Assign new team roles and responsibilities
3. Carefully review LCA package, particularly with respect to LCA ARB feedback; note defects, risky items, and areas of concern
4. Meet with client to review requirements and areas of concern
5. Look to other projects and previous projects for “best” practices
6. Update LCA package models (note LCA milestone elements)
7. Set up for development effort (use CTS guidelines)

# The Road Ahead Ahead: IOC

Success criteria

**The initial operational capabilities of the system as constructed satisfy the architecture models**

- \* This includes all the MBASE models, not just SSAD
- \*\* Completeness is not as important as soundness

# Keep in Mind...

- The ultimate success of your project depends on more than simply delivering a functional product
  - The product must be the *right* product for your customer
  - The Product must be *feasible* for your customer to own and operate
  - You must build the product in a disciplined, well-planned, *assurable* way



# Questions about RLCA

