



CTS Guidelines – Construction Planning

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CS 577B

Spring 2003



Outline

- • **Overview**
- **Activities and Schedule**
 - **Working Deliverables**
 - **Tracking and Control Metrics**

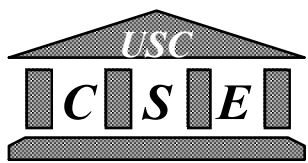
IOC Construction Deliverables

- Construction Specialty Plans
 - In Construction Transition Support (CTS) MBASE guidelines
- Construction Working Deliverables
 - New plans and reports
 - Code base
 - COTS packages (integrated, configuration)
 - Revised documentation
- Tracking and Control Deliverables
 - Metrics
- Extra deliverables at end



Specialty Plans

- Iteration Plan
- Quality Management Plan
- Test Plan
- Peer Review Plan
- Security Plan (optional)
- Safety Plan (optional)



Outline

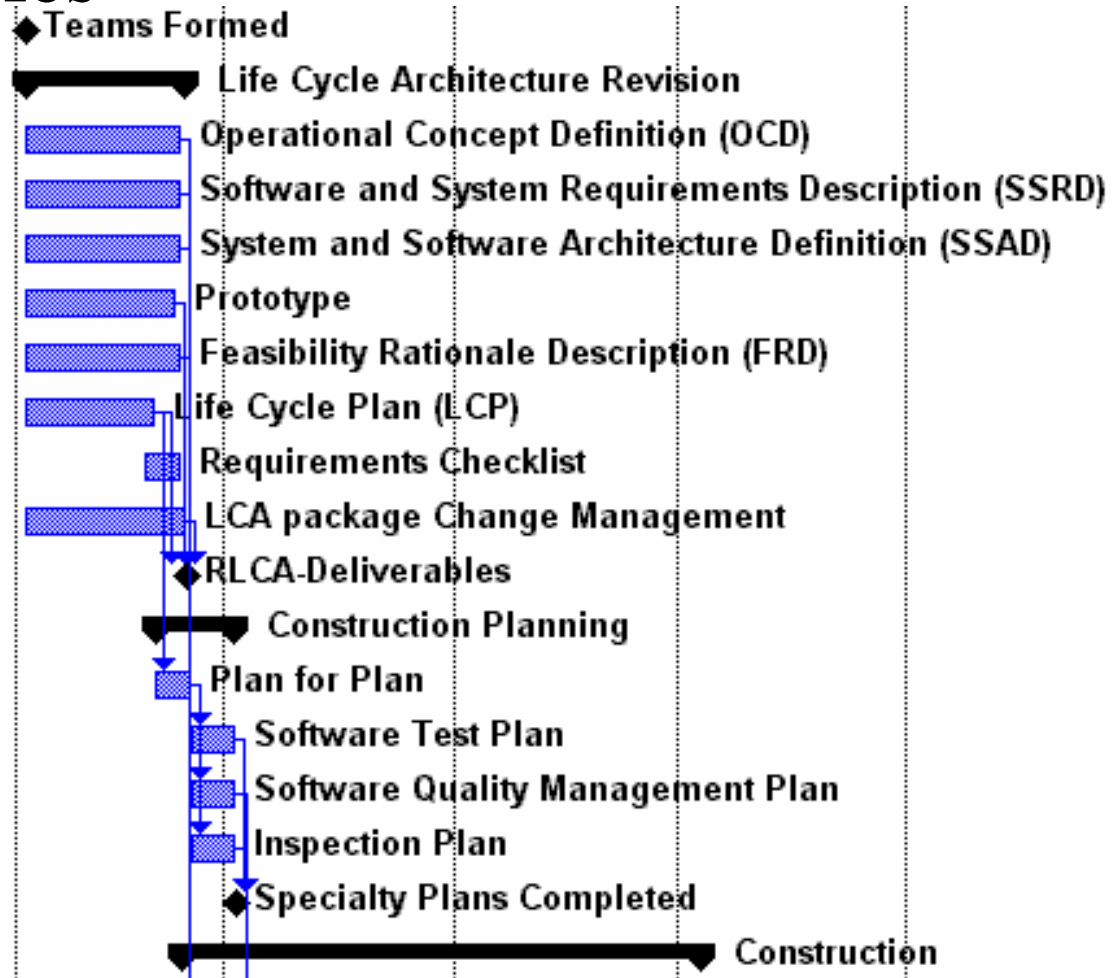
- **Construction Deliverables Overview**
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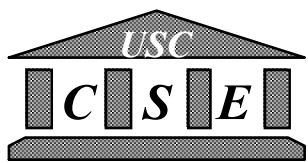
All Plans and Major Activities Should be Explicitly Planned

- Allocate effort and people in LCP to
 - Write plans
 - Execute plan activities
 - Prepare for RLCA and TRR reviews, core capability demos
- Anticipate and account for risks
 - Allocate extra time for risky items
 - Explicitly schedule critical contingency plans
- Be consistent with the class schedule

Construction Planning Activities, Milestones and Deliverables

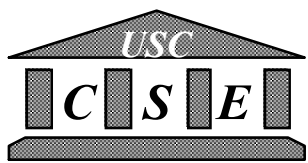
Teams Formed	
<input type="checkbox"/>	Life Cycle Architecture Revision
	Operational Concept Definition (OCD)
	Software and System Requirements Desc
	System and Software Architecture Definiti
	Prototype
	Feasibility Rationale Description (FRD)
	Life Cycle Plan (LCP)
	Requirements Checklist
	LCA package Change Management
	RLCA-Deliverables
<input type="checkbox"/>	Construction Planning
	Plan for Plan
	Software Test Plan
	Software Quality Management Plan
	Inspection Plan
	Specialty Plans Completed
<input type="checkbox"/>	Construction





Project Schedule

- Jan. 24 - Re-form teams**
- Feb. 10 - Draft LCA-Rebaseline on Web**
- Feb. 20-21 - LCA-Rebaseline ARB reviews**
- Mar. 12-28 - Core Capability Drive-Thrus**
- Apr. 9 - Draft Transition Pkg. on Web**
- Apr. 17-18 - Transition Readiness Reviews**
- May 7 - Product Delivery**
- May 9 - Individual Critiques, Client Evaluations, Final project deliverables**



Summary of Client Activities

Jan 17 - Feb 19: Work with teams:

- Rebaseline prototype, prioritized requirements
- Consider use of Easy Win Win
- Plan for CS 577b specifics, including transition strategy, key risk items

Feb 20-21: Participate in ARB review of rebaselined Life Cycle Architecture Package

Feb 24- Apr 16: Nominal Weekly Meetings with Teams to:

- Discuss status and plans
- Provide access to key transition people for strategy and readiness discussions

Mar 12-28: Core Capability Drive-Thrus

Apr 17-Apr 18: Project Transition Readiness Reviews

Apr 21: Begin Installation and Transition

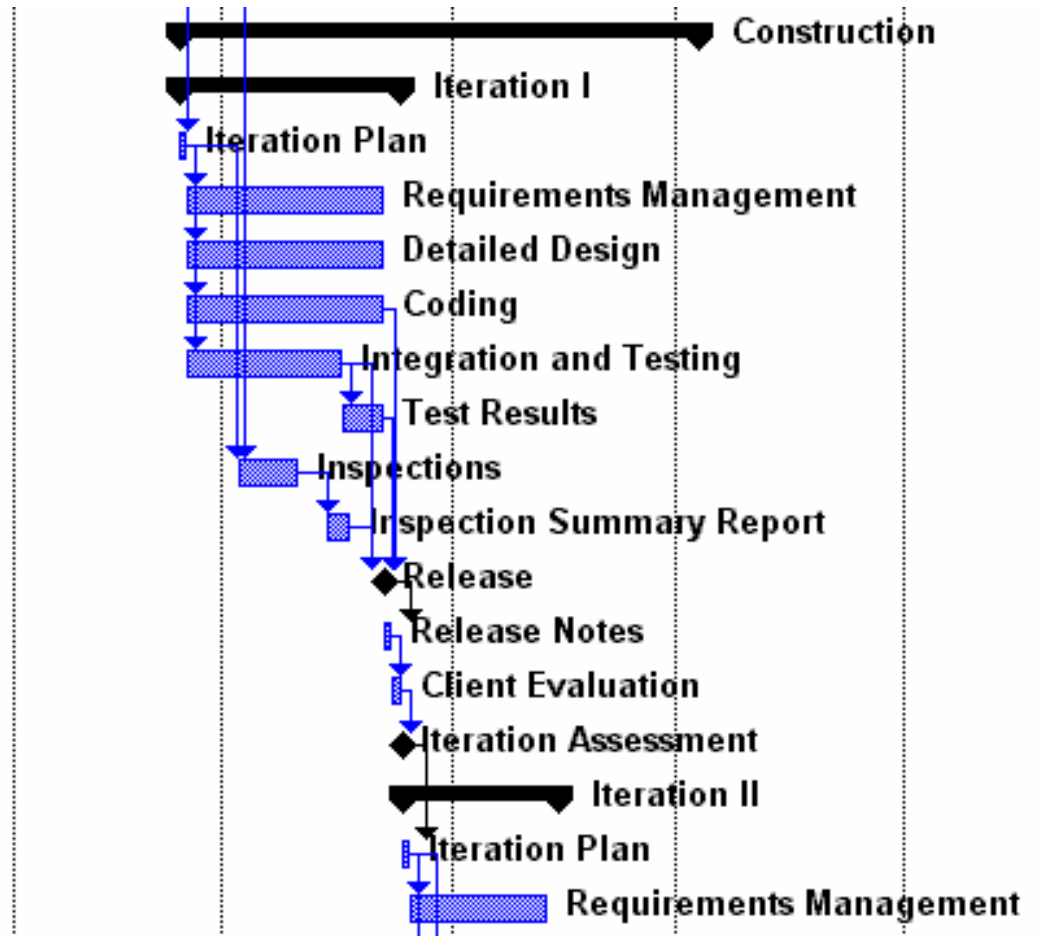
- Install Product
- Execute Transition Plan

May 7: Release Readiness Review for Product Release (client acceptance)

May 9: Client Evaluations

Iteration Activities, Milestones and Deliverables

[-] Construction
[-] Iteration I
Iteration Plan
Requirements Management
Detailed Design
Coding
Integration and Testing
Test Results
Inspections
Inspection Summary Report
Release
Release Notes
Client Evaluation
Iteration Assessment
[-] Iteration II
Iteration Plan
Requirements Management





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Construction Working Deliverables

(per iteration)

- Peer Review Plan
- Test Reports
- Peer Review Reports
- Release Notes
- Iteration Assessment Report
- Source Code (under CM)
- *As-built specs* OCD, SSRD, SSAD, FRD, LCP, MDL



Iteration Plan

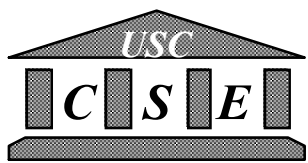
- Plan for the upcoming iteration is planned in the current iteration
- One iteration plan is input to the next iteration plan.
 - Iteration Content
 - Use Cases/Requirements Addressed
 - Objectives
 - Schedule of Activities
 - Team Responsibilities
 - ...

Iteration Assessment Report

- Each iteration is concluded by an iteration assessment
 - Objectives Reached
 - Adherence to Plan
 - Use Cases/Requirements Implemented
 - Results Relative to Evaluation Criteria
 - External Changes Occurred
 - Rework Required
 - ...

Release Notes

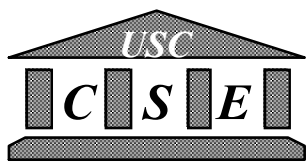
- The purpose of the Release Notes is to describe the release
 - New Features and Important Changes since the previous release
 - Upcoming Changes that will be incorporated in future releases
 - Known Bugs and Limitations
 - ...



Final Iteration Extra Deliverables

- Final archive
- Closeout report
- Data collection set

- *All due May 9*



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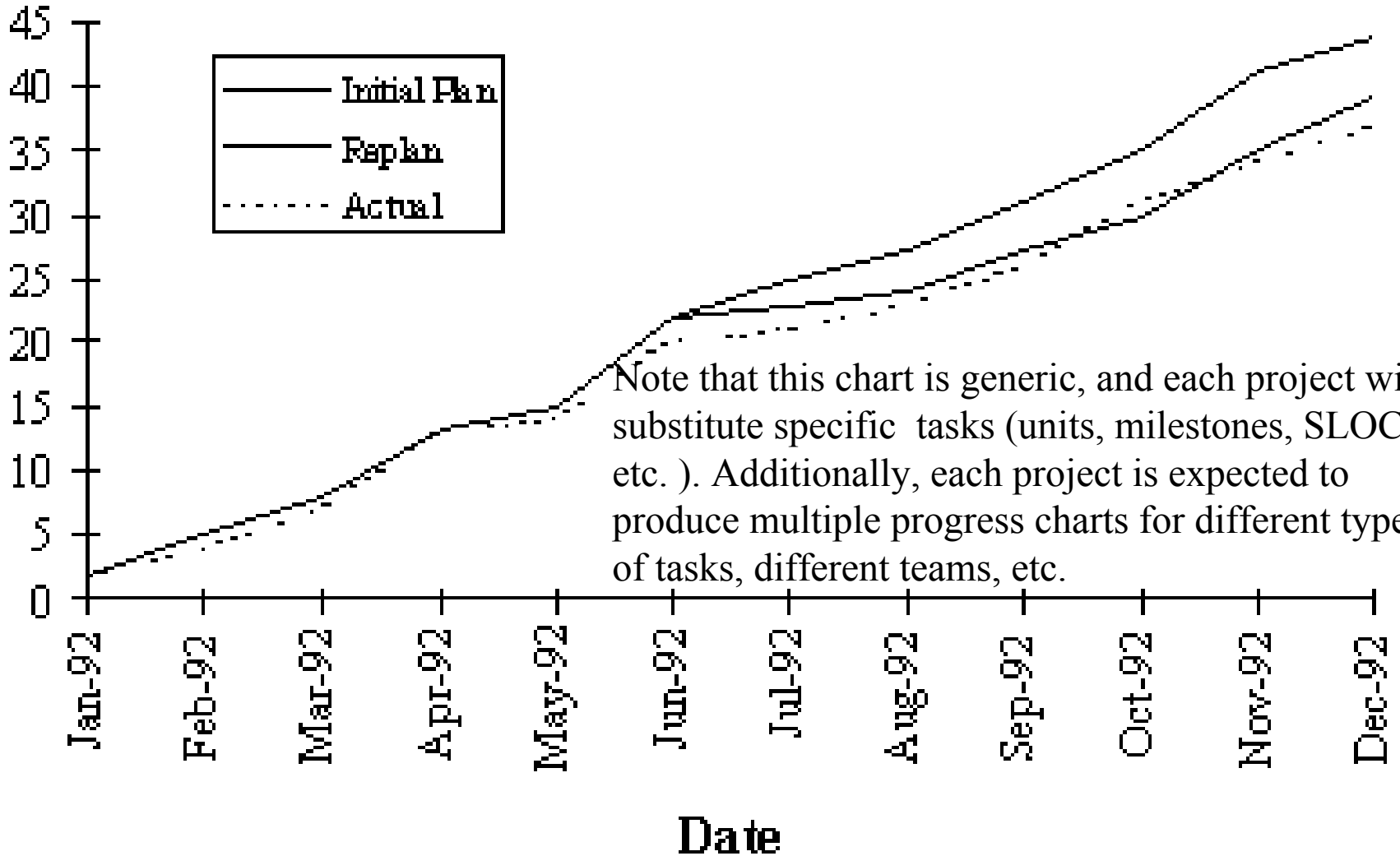
→ • **Tracking and Control Metrics**

Metrics

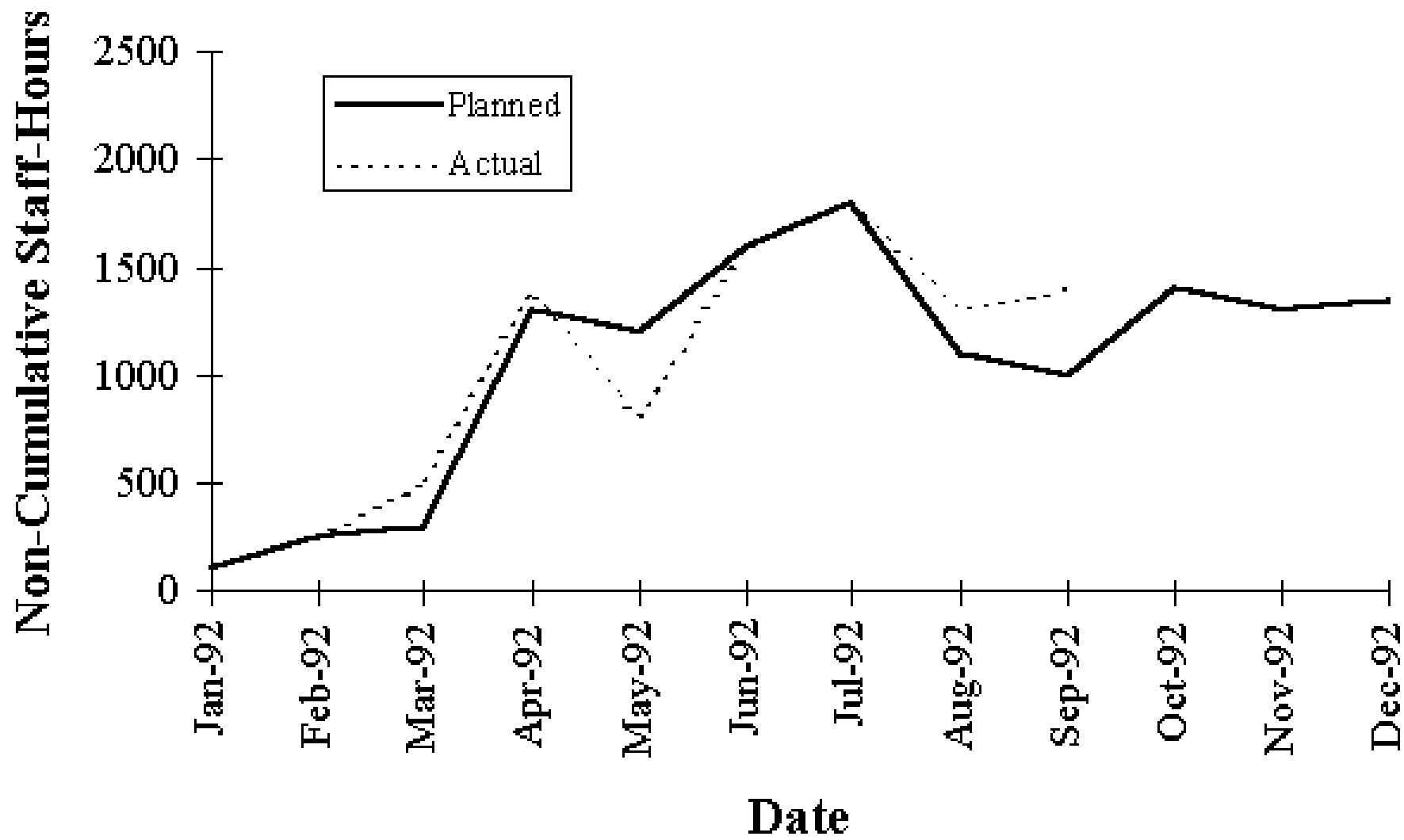
- A metric quantifies a characteristic of a process or product.
- Metrics can be directly observable quantities or can be derived from one or more directly observable quantities.
 - Examples of raw metrics include:
 - number of source lines of code,
 - number of documentation pages,
 - number of staff-hours,
 - number of tests,
 - number of requirements
 - Examples of derived metrics include:
 - source lines of code per staff-hour,
 - defects per thousand lines of code,
 - cost performance index.

Progress

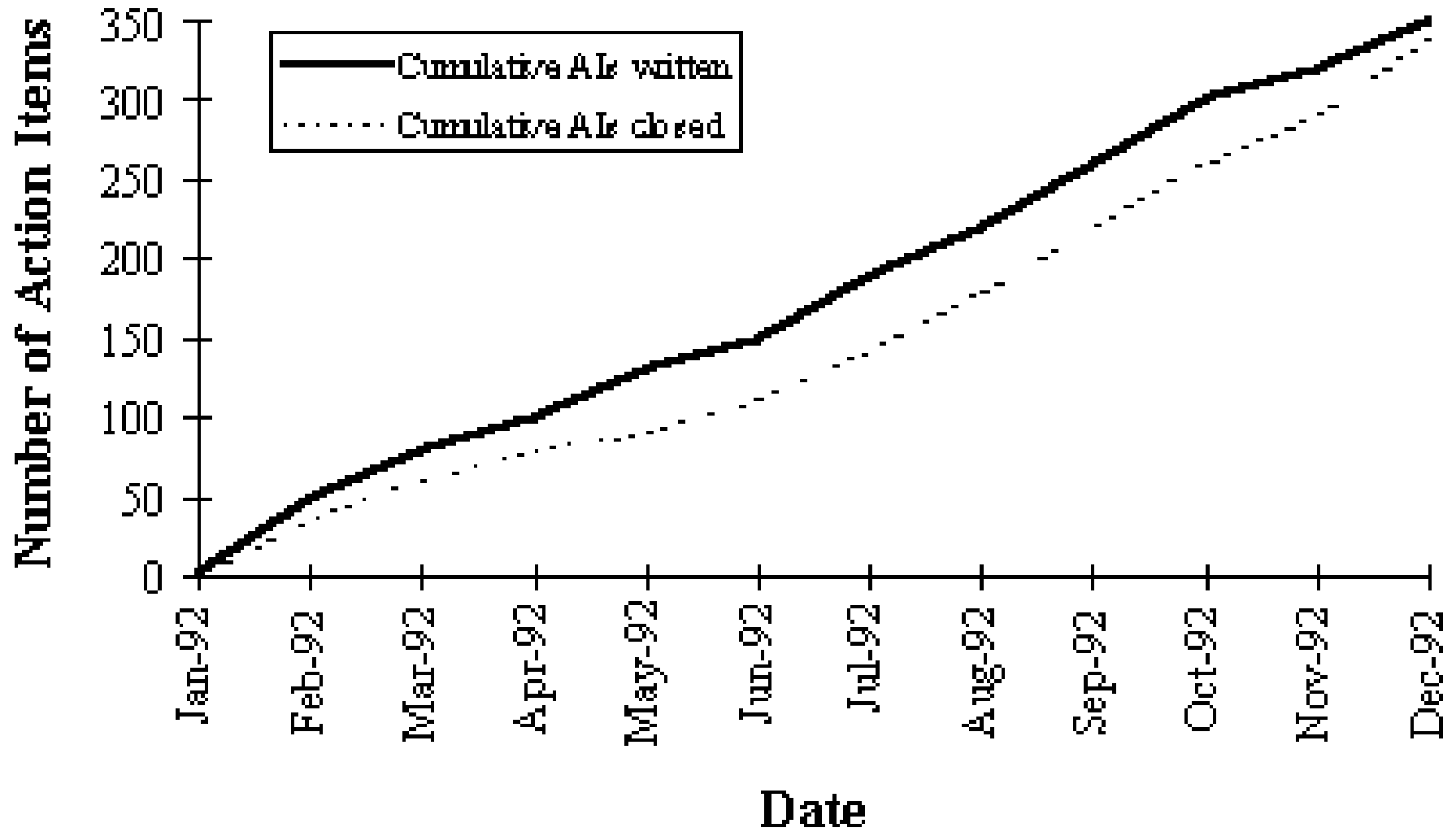
Cumulative Tasks Completed



Effort



Review Results



Trouble Reports

