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Advanced Information Services Inc.

Report on a Multi-Team, Multi-Discipline, Multi-Distributed Launch

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“It takes a lot of unspectacular preparation to get spectacular results.”

Roger Staubach

The Assignment

- Launch Requirements Phase
- Two Software Development teams
- Integrate two System Engineers
- Include in the launch a separate development team with three products

Challenges

- Teams are located on both coasts
- First launch for System Engineers
- First strictly requirements launch
- Separate development team included in launch

Background

- Software Engineers experienced members of TSP teams
- Development processes slightly different
- Historic data pertinent to each team

Preparation

- Training for System Engineers
- Agreement on common processes
- Productivity rates for new team members
- Normal launch preparation

The Launch

- Seventeen Team Members
- Five Team Leads
- Three sets of requirements

Launch Challenges

- One room
- Coordination of tasks
- Process differences
- Defect definition

Launch Lessons Learned

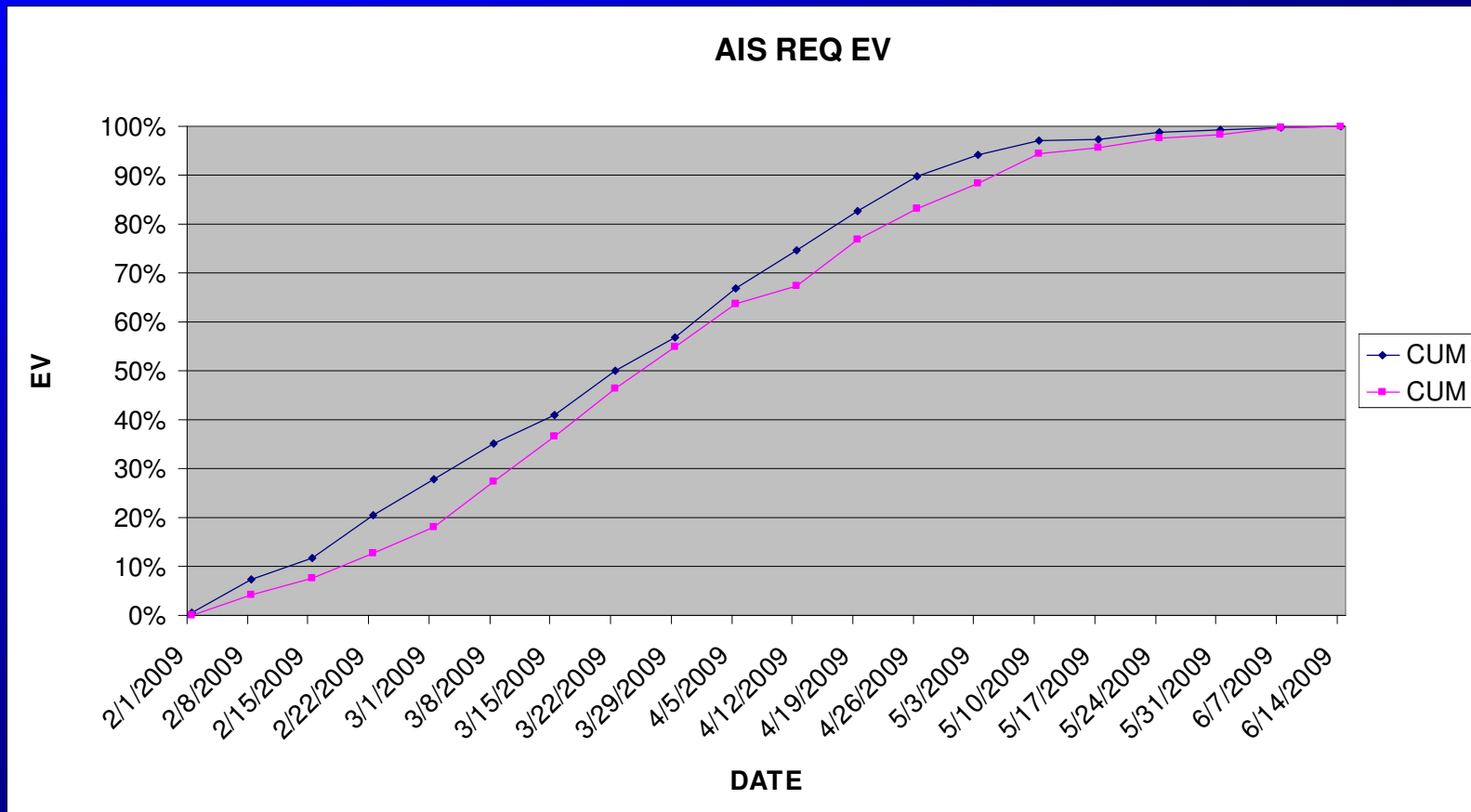
- Have breakout rooms and additional equipment
- Determine melded Quality data prior to launch

Execution

- Weekly Team Meetings
- Technical Coordination Meetings
- Role Coaching
- Healthy Competition

Post Mortem

➤ EV Data



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Post Mortem

➤ Size, Effort, Productivity, Schedule Data

Program Size	Plan	Actual
Total Requirements Pages (SRS)	745	701
Actual is -----	94.09% of plan	
Actual deviation is	5.91% less than plan	

Time in Phase (hours)	Plan	Actual
Total	1735.9	1621.1
Actual is -----	93.38% of plan	
Actual deviation is	6.62% less than plan	

Objects per Hour	Plan	Actual
Productivity	0.4	0.4

Schedule	Plan	Actual
Week	20.0	20.0

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Post Mortem

➤ Quality Data

Defects/Page	Plan	Actual
REQ Inspection	0.47	0.46

Development Time Ratios	Plan	Actual
REQ Inspection/Write Requirements	1.93	1.14

Inspection/Review Rates	Plan	Actual
REQ Inspection	1.11	1.47

Defects Removed	Plan	Actual
Total Development Defects Removed	522.4	482
Acceptance Test	0.0	1

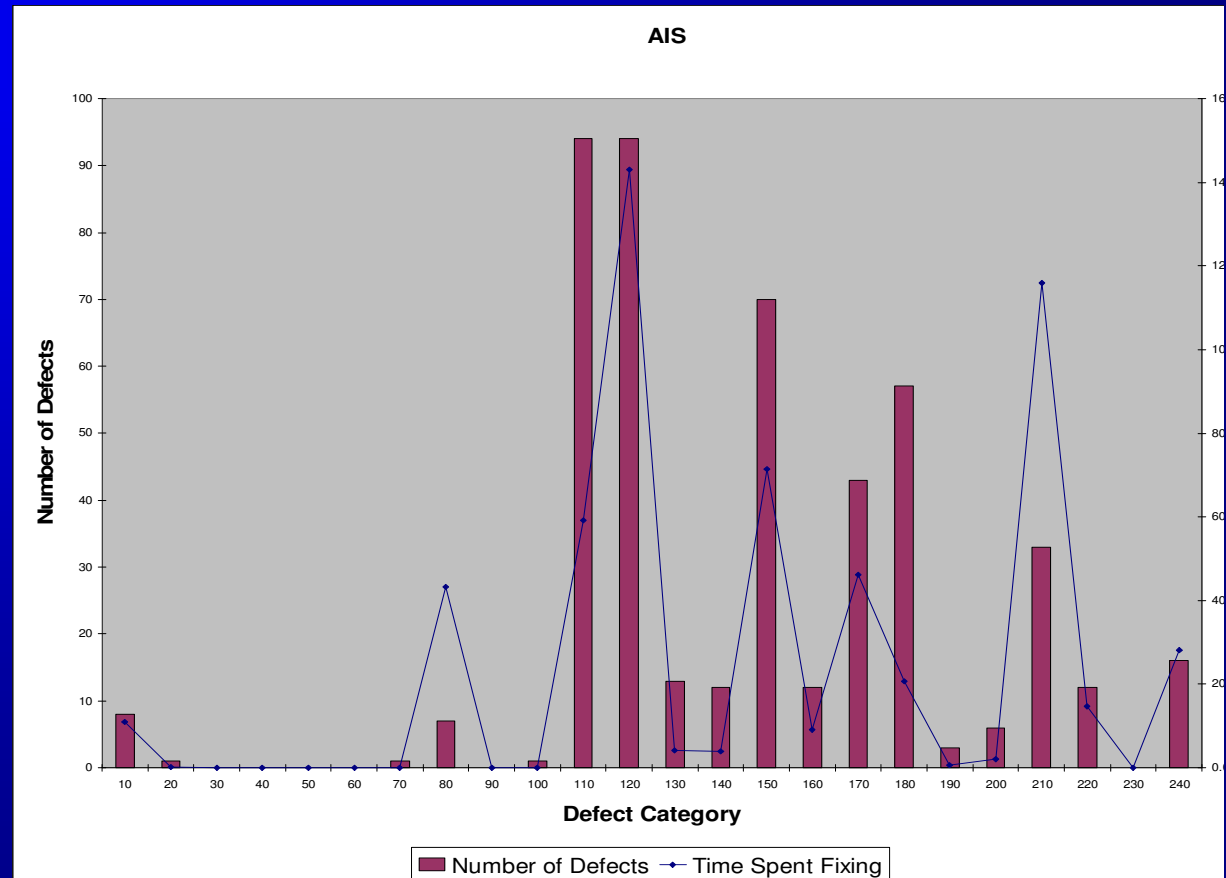
Phase Yields	Plan	Actual
Planning		0%
Write Requirements		0%
Requirements Review	27%	33%
REQ Inspection	92%	99%
Acceptance Test		100%

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Post Mortem

➤ Defect Data

- 10 Documentation
- 20 Syntax
- 30 Build, Package
- 40 Assignment
- 50 Interface
- 60 Checking
- 70 Data
- 80 Function
- 90 System
- 100 Environment
- 110 R-Clarity
- 120 R-Completeness
- 130 R-Duplicate
- 140 R-NamingConsistency
- 150 R-Functionality
- 160 R-Scope
- 170 R-InconsistentFormatting
- 180 R-SpellingGrammar
- 190 R-Conflicting
- 200 R-Ambiguity
- 210 R-DetailLevel
- 220 R-DOORS Attributes
- 230 R-Testability
- 240 R-User Change Request



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Conclusions

➤ Very Beneficial

Larger Picture

- Team Process Integration (TPI)
- Integration of software engineers and system engineers can lead to a higher quality product
- And a better controlled schedule
- And promulgate high quality processes across the organization

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Summary

- Pre-Launch planning and agreement is essential
- Plan for breakout rooms and additional equipment
- Be prepared to mediate disagreements
- Stick to the launch process



Questions?

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