

The background of the slide is a still from the movie Star Trek: The Motion Picture. It shows the USS Enterprise (NCC-1701-A) in space, flying towards the viewer. The ship is dark with a glowing blue engine. In the background, there is a large planet with a ring system, a smaller planet, and a bright star. The text "To Boldly Go..." is written in yellow at the top.

# To Boldly Go...

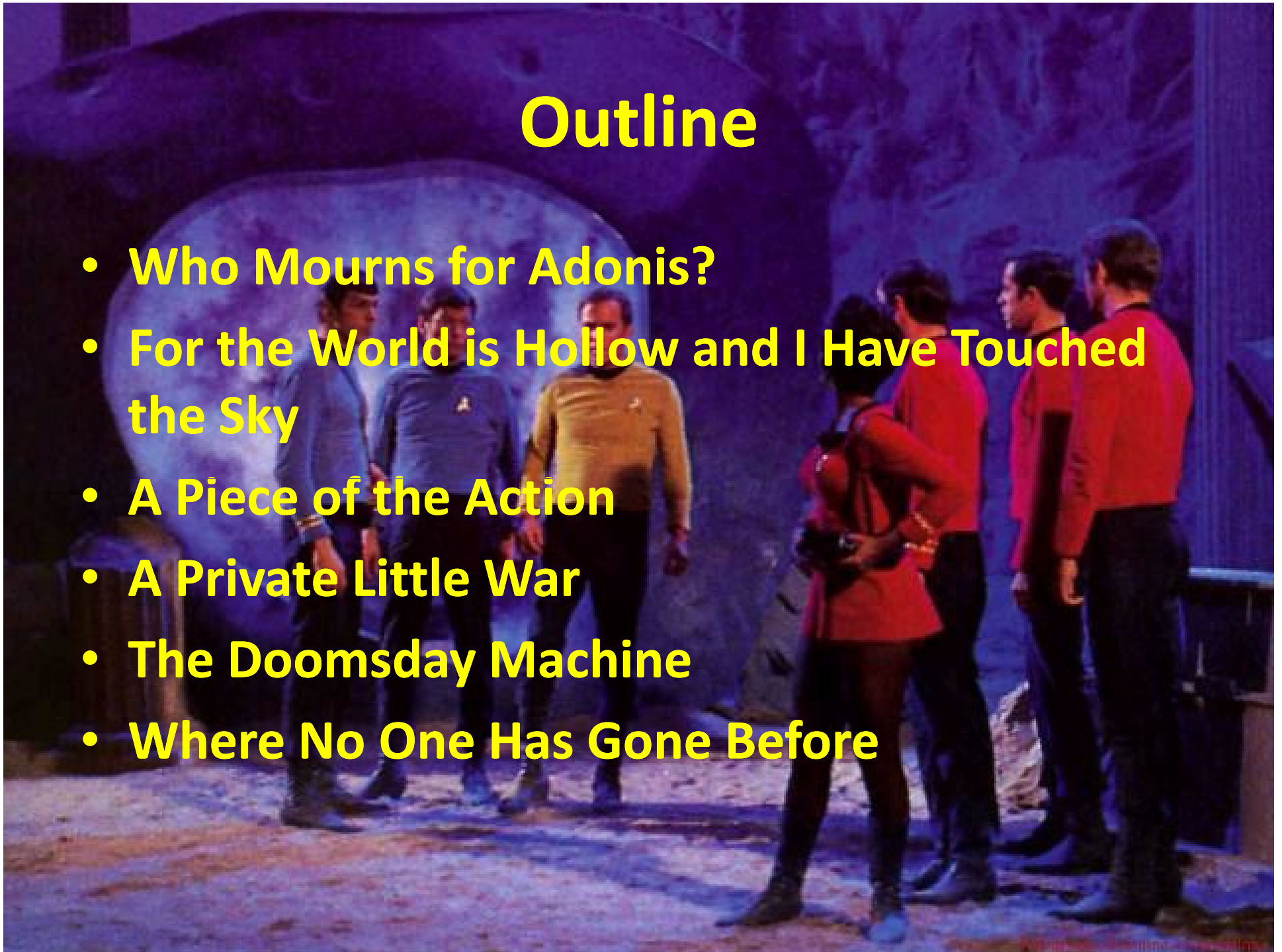
**David R. Webb**  
**Hill Air Force Base**  
**TSP Symposium 2010**

Star Trek®, in all its various forms, is a trademark of Paramount Pictures and CBS.



# Outline

- Who Mourns for Adonis?
- For the World is Hollow and I Have Touched the Sky
- A Piece of the Action
- A Private Little War
- The Doomsday Machine
- Where No One Has Gone Before



# Who Mourns for Adonis?



# Who Mourns for Adonis?



- Have you ever encountered this?
  - Adoption resistance from management, teams, and even customers
  - Partial TSP<sup>SM</sup> implementation
  - Misapplication of TSP/PSP<sup>SM</sup> practices
  - Tool issues being equated to TSP issues
  - Bad press from departing employees
  - Project failures blamed on TSP “heavy overhead”

**For the World is Hollow and I Have  
Touched the Sky**



TrekMovie.com

# For the World is Hollow and I Have Touched the Sky



## How We See Ourselves



## How Teams See Us

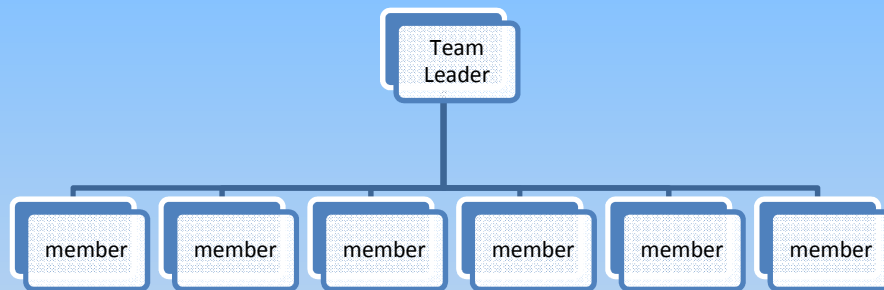


For the World is Hollow and I  
Have Touched the Sky

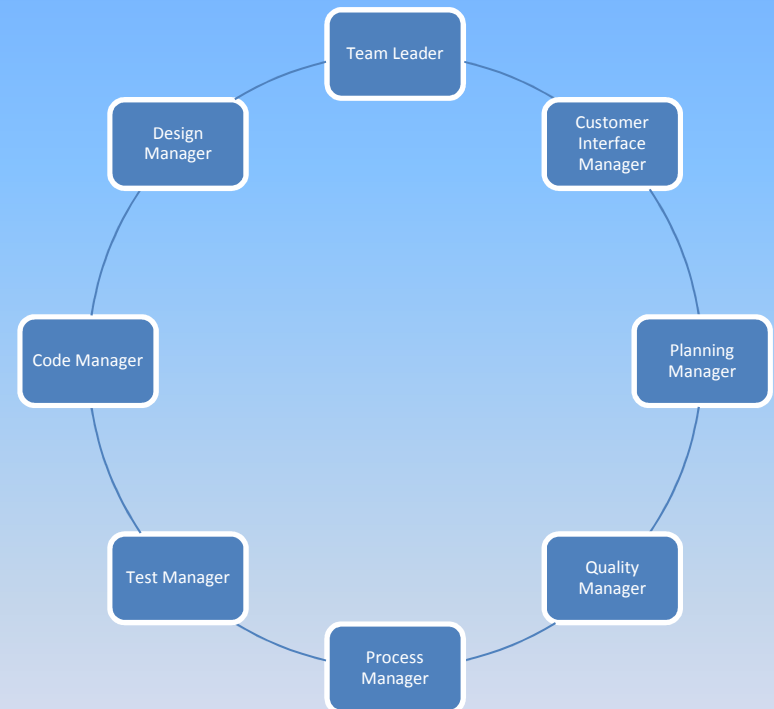


**Never give TSP the credit your  
Team deserves!**

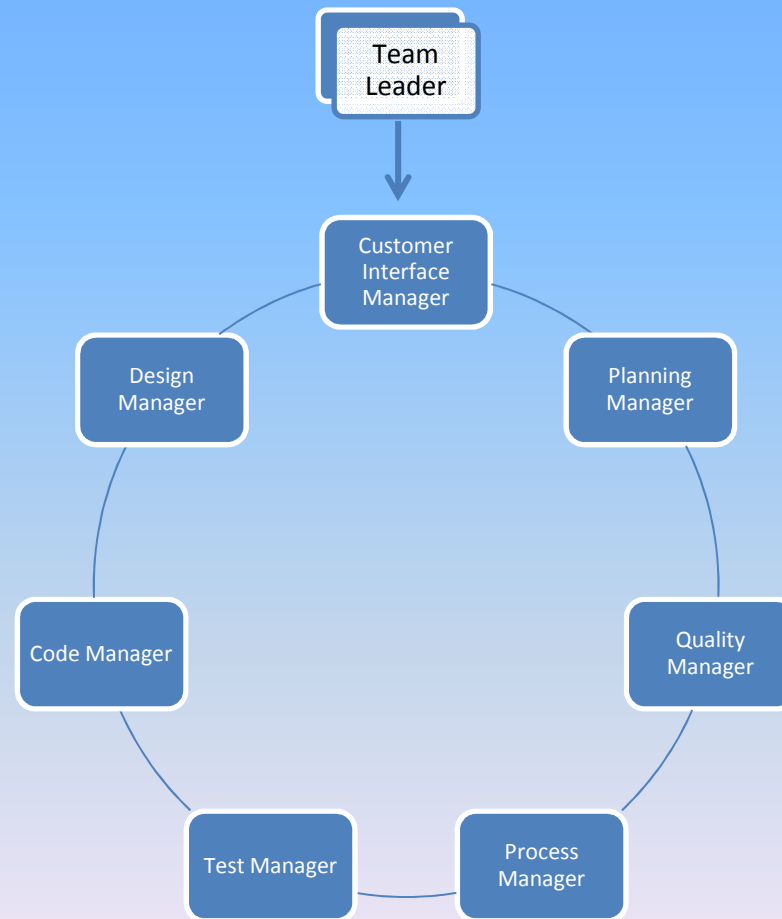
# For the World is Hollow and I Have Touched the Sky



VS



# For the World is Hollow and I Have Touched the Sky



# A Piece of the Action



- Task and Schedule**

File Edit View Tools Help

| Project/Task                  | PT   | Time | PV    | Plan Date | Replan  | Forecast | Date    | Dep | %C   | %S   | EV    |
|-------------------------------|------|------|-------|-----------|---------|----------|---------|-----|------|------|-------|
| 06-18-2010                    | 4:00 | 3:10 | 100%  | 6/18/10   | 6/18/10 | 6/18/10  | 6/18/10 |     | 100% | 79%  | 100%  |
| 06-18-2010                    | 4:00 | 3:10 | 100%  | 6/18/10   | 6/18/10 | 6/18/10  | 6/18/10 |     | 100% | 79%  | 100%  |
| Planning                      | 0:15 | 0:15 | 6.2%  | 6/18/10   | 6/18/10 | 6/18/10  | 6/18/10 |     | 100% | 100% | 6.2%  |
| MIG Update - DIR              | 0:20 | 0:14 | 8.3%  | 6/18/10   | 6/18/10 | 6/18/10  | 6/18/10 |     | 100% | 70%  | 8.3%  |
| MIG Update - DDR              | 0:50 | 0:49 | 20.8% | 6/18/10   | 6/18/10 | 6/18/10  | 6/18/10 |     | 100% | 98%  | 20.8% |
| MIG Update - DD               | 0:30 | 0:19 | 12.5% | 6/18/10   | 6/18/10 | 6/18/10  | 6/18/10 |     | 100% | 63%  | 12.5% |
| Risk Management Process       | 1:00 | 1:27 | 25%   | 6/18/10   | 6/18/10 | 6/18/10  | 6/18/10 |     | 100% | 145% | 25%   |
| 520th Process AI's            | 0:20 | 0:00 | 8.3%  | 6/18/10   | 6/18/10 | 6/18/10  | 6/18/10 |     | 100% |      | 8.3%  |
| 520th SEP Prelim Architecture | 0:20 | 0:00 | 8.3%  | 6/18/10   | 6/18/10 | 6/18/10  | 6/18/10 |     | 100% |      | 8.3%  |
| Planning Process Outline      | 0:20 | 0:00 | 8.3%  | 6/18/10   | 6/18/10 | 6/18/10  | 6/18/10 |     | 100% |      | 8.3%  |
| Postmortem                    | 0:05 | 0:06 | 2.1%  | 6/18/10   | 6/18/10 | 6/18/10  | 6/18/10 |     | 100% | 120% | 2.1%  |

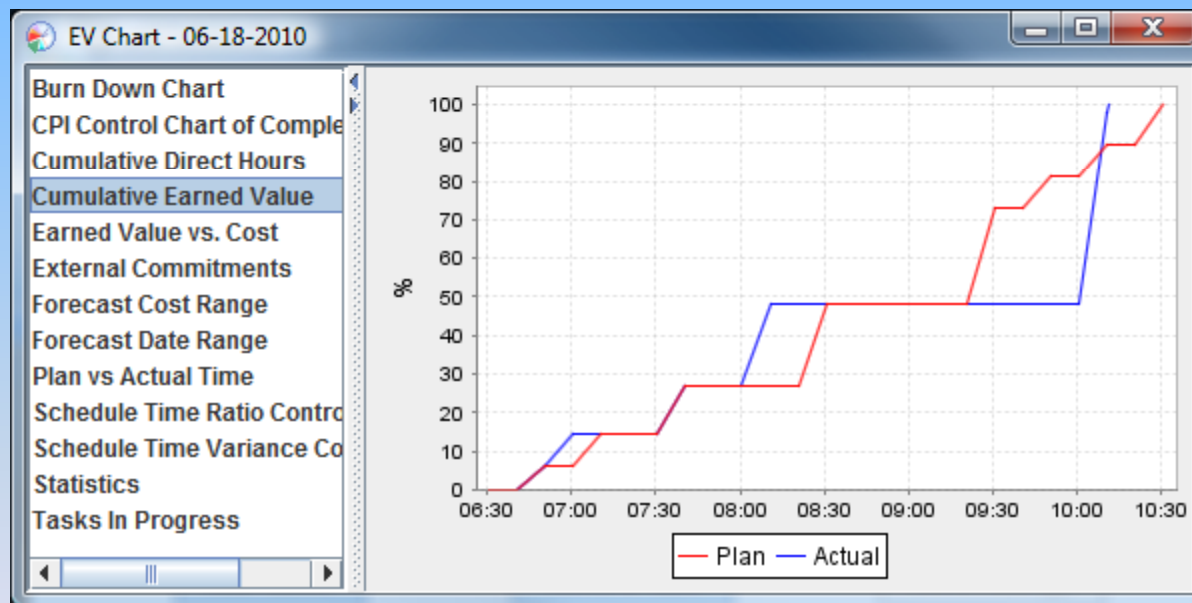
☐ Flat View

| From    | To      | PT   | CPT  | CPV   | Time | CT   | EV    |
|---------|---------|------|------|-------|------|------|-------|
| 6/18/10 | 6/18/10 | 0:10 | 0:10 | 0%    | 0:15 | 0:15 | 0%    |
| 6/18/10 | 6/18/10 | 0:10 | 0:20 | 6.2%  | 0:14 | 0:29 | 6.2%  |
| 6/18/10 | 6/18/10 | 0:10 | 0:30 | 6.2%  | 0:19 | 0:48 | 14.6% |
| 6/18/10 | 6/18/10 | 0:10 | 0:40 | 14.6% | 0:00 | 0:48 | 14.6% |
| 6/18/10 | 6/18/10 | 0:10 | 0:50 | 14.6% | 0:19 | 1:07 | 14.6% |
| 6/18/10 | 6/18/10 | 0:10 | 1:00 | 14.6% | 0:00 | 1:07 | 14.6% |
| 6/18/10 | 6/18/10 | 0:10 | 1:10 | 27.1% | 0:30 | 1:37 | 27.1% |
| 6/18/10 | 6/18/10 | 0:10 | 1:20 | 27.1% | 0:00 | 1:37 | 27.1% |
| 6/18/10 | 6/18/10 | 0:10 | 1:30 | 27.1% | 0:00 | 1:37 | 27.1% |
| 6/18/10 | 6/18/10 | 0:10 | 1:40 | 27.1% | 1:27 | 3:04 | 47.9% |
| 6/18/10 | 6/18/10 | 0:10 | 1:50 | 27.1% | 0:00 | 3:04 | 47.9% |
| 6/18/10 | 6/18/10 | 0:10 | 2:00 | 47.9% | 0:00 | 3:04 | 47.9% |
| 6/18/10 | 6/18/10 | 0:10 | 2:10 | 47.9% | 0:00 | 3:04 | 47.9% |

# A Piece of the Action



- Understanding Ourselves



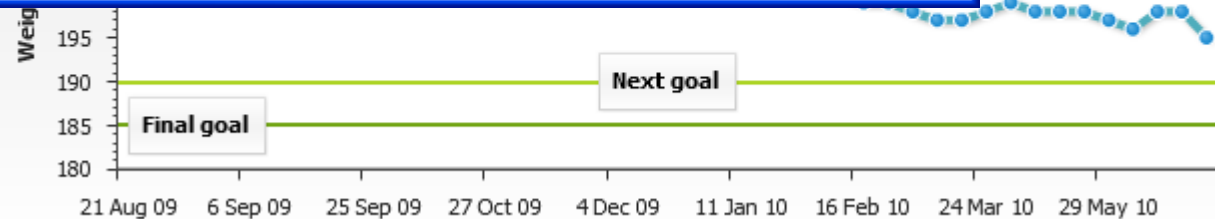
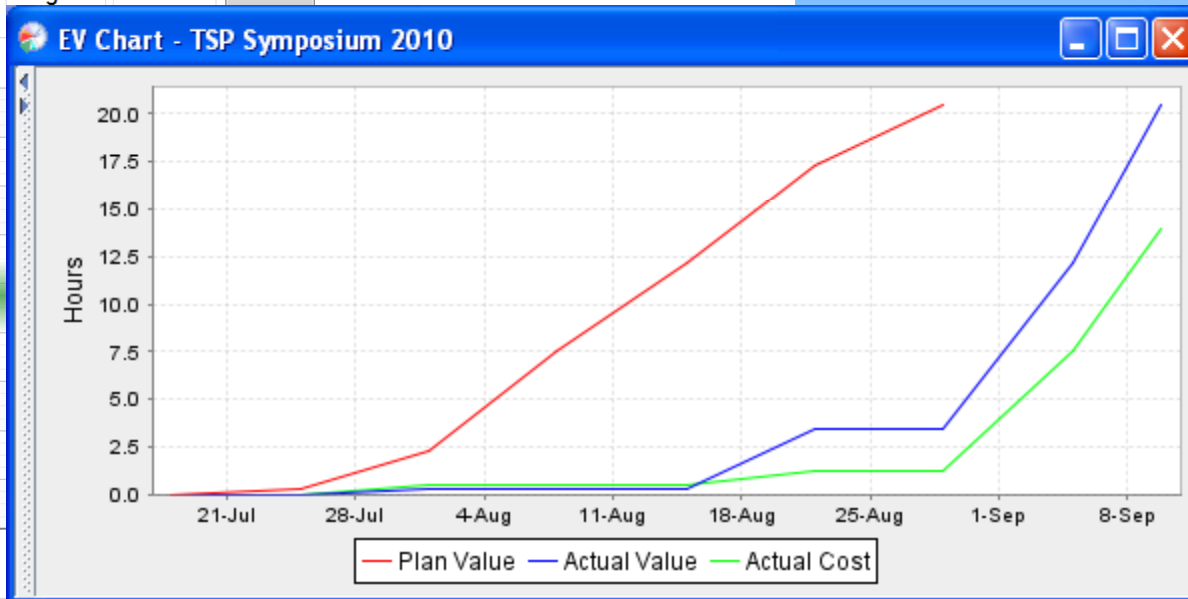
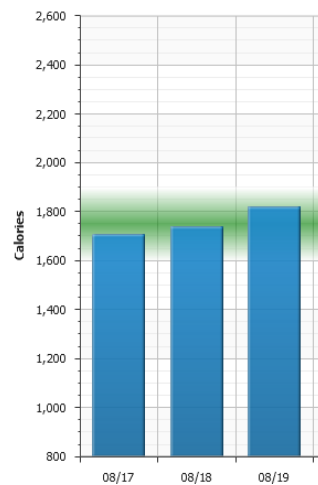
# A Piece of the Action



- Understanding Ourselves

## CALORIES

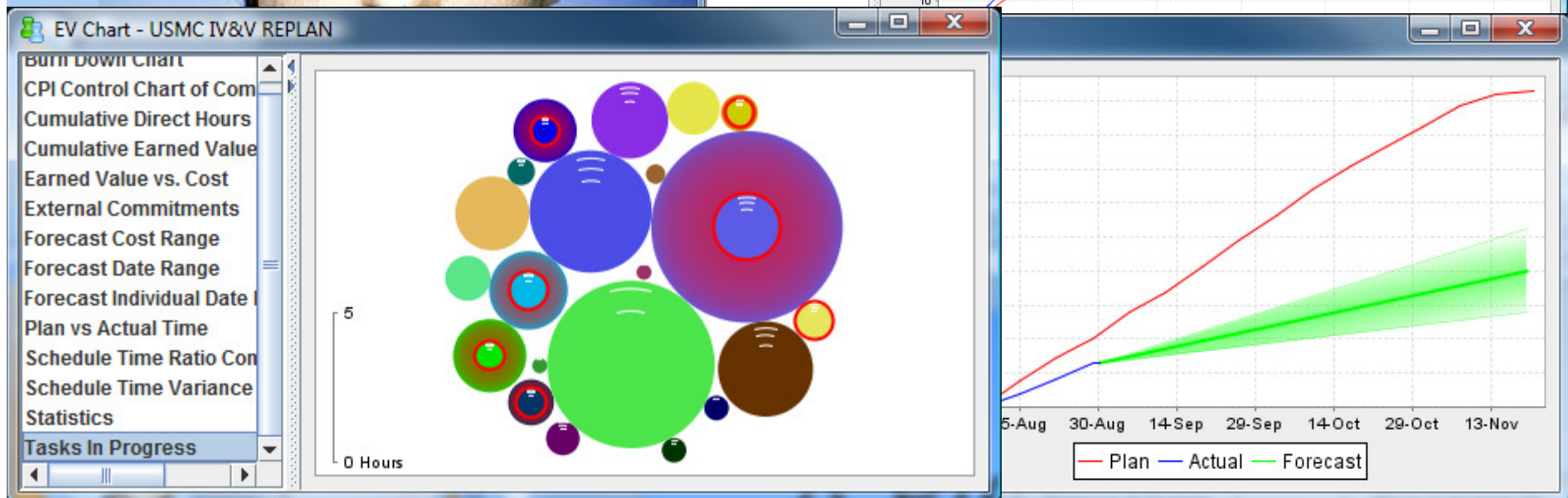
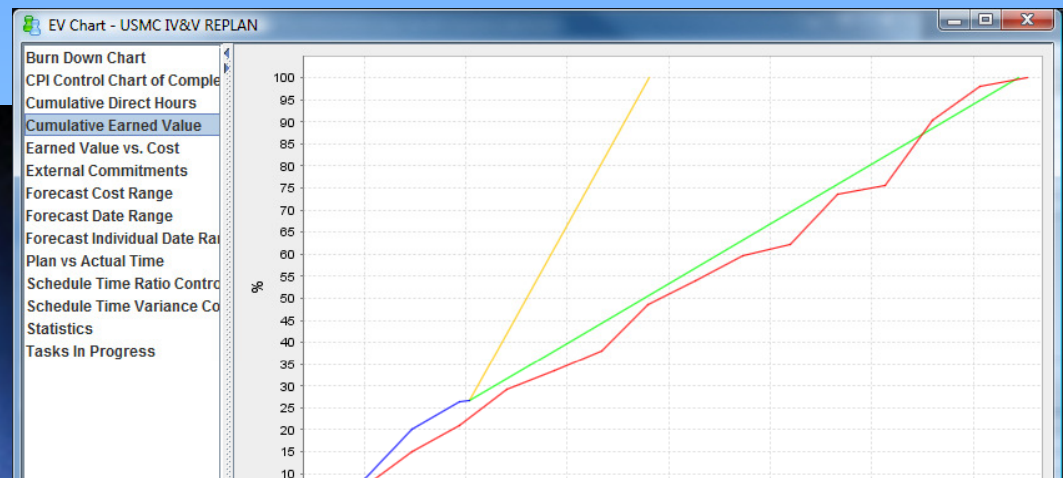
2 weeks ▾ starting 17 ▾ Aug ▾ 2010 ▾ Show



# A Piece of the Action



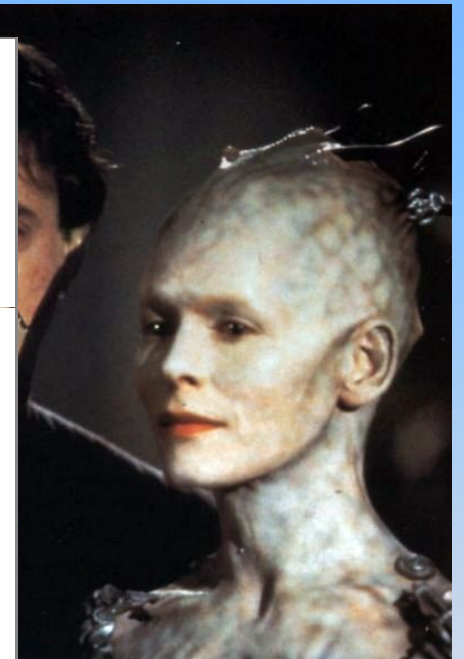
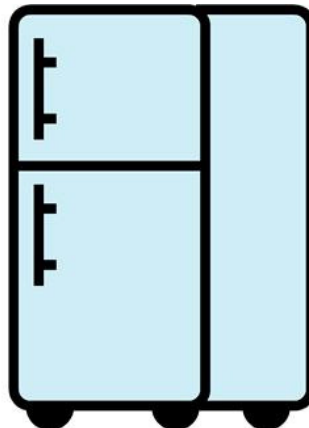
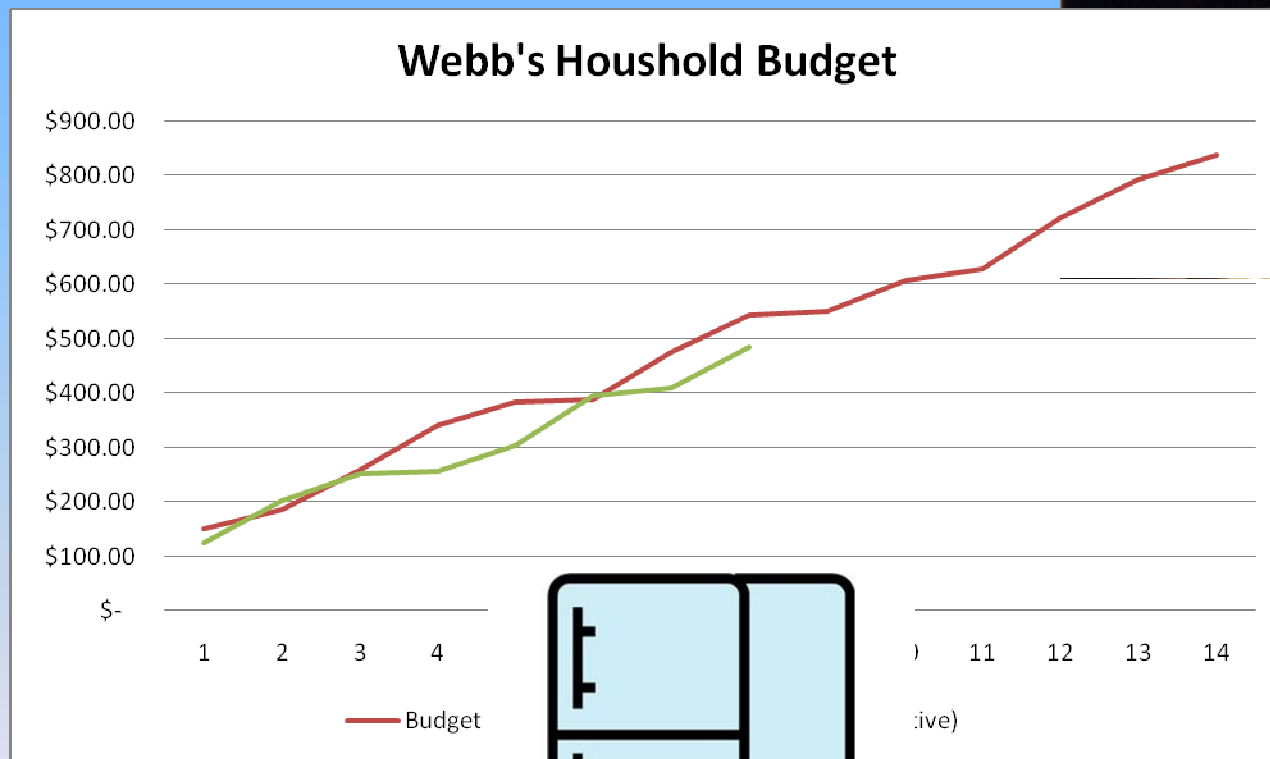
- We love Data!



# A Piece of the Action

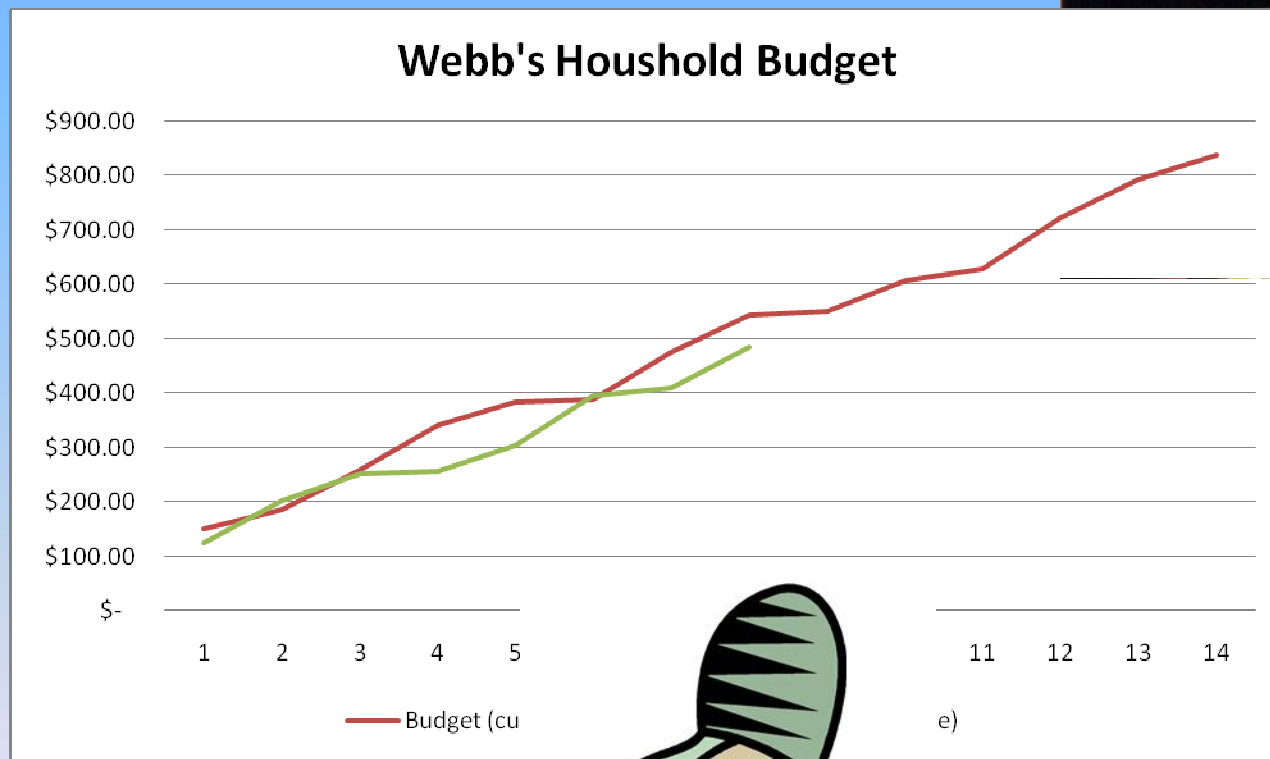


- Not Everyone Loves Data

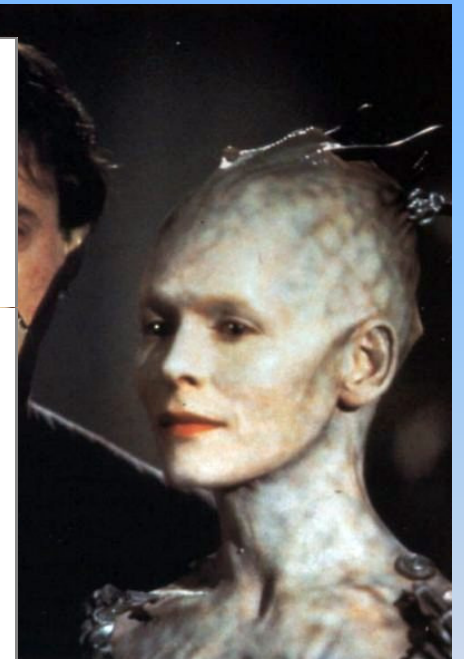


# A Piece of the Action

- Not Everyone Loves Data



e)



# A Piece of the Action

- Not Everyone Loves Data



# A Private Little War



# A Private Little War



- Overview

- Of the many challenges we face as change agents for TSP, some of the greatest are within our own organizations:

- Management
      - Misunderstandings
      - Reluctance
      - Training challenges
    - Bad Press
      - Failed projects
      - Departed personnel
      - Rumors

# A Private Little War



- Overview

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# The Doomsday Machine



# The Doomsday Machine

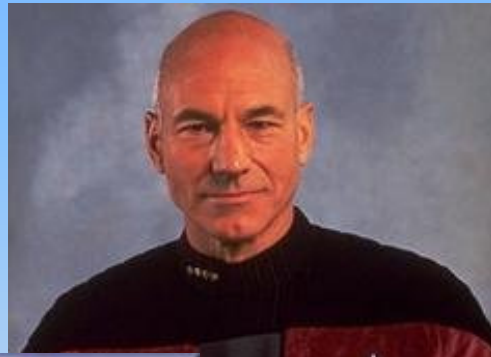
- Coaching Issues



# The Doomsday Machine

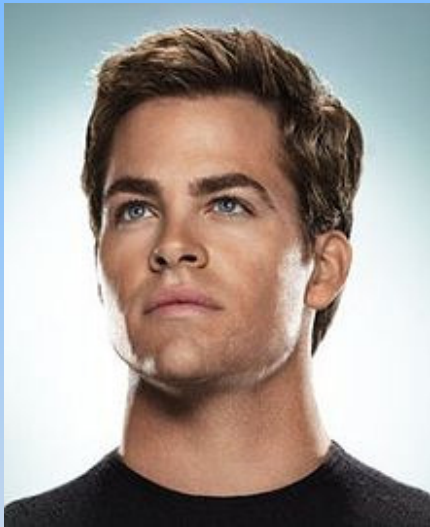
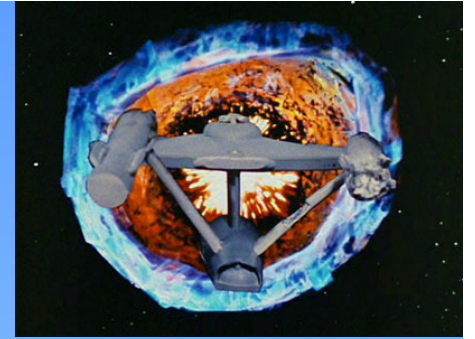


- Management Turnover



# The Doomsday Machine

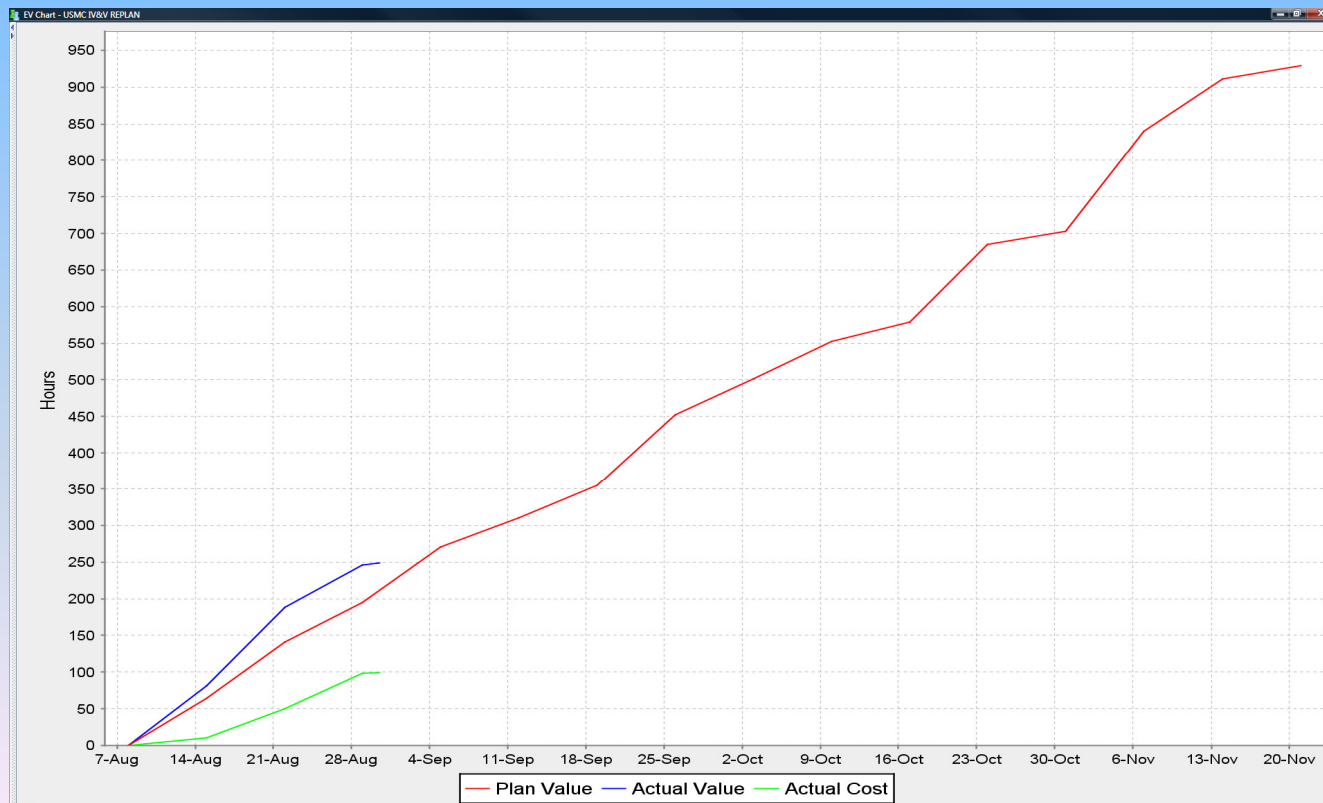
- Management Turnover



# The Doomsday Machine



- Management & Customer Misunderstanding
  - TSP Earned Value Plans



# Where No One Has Gone Before



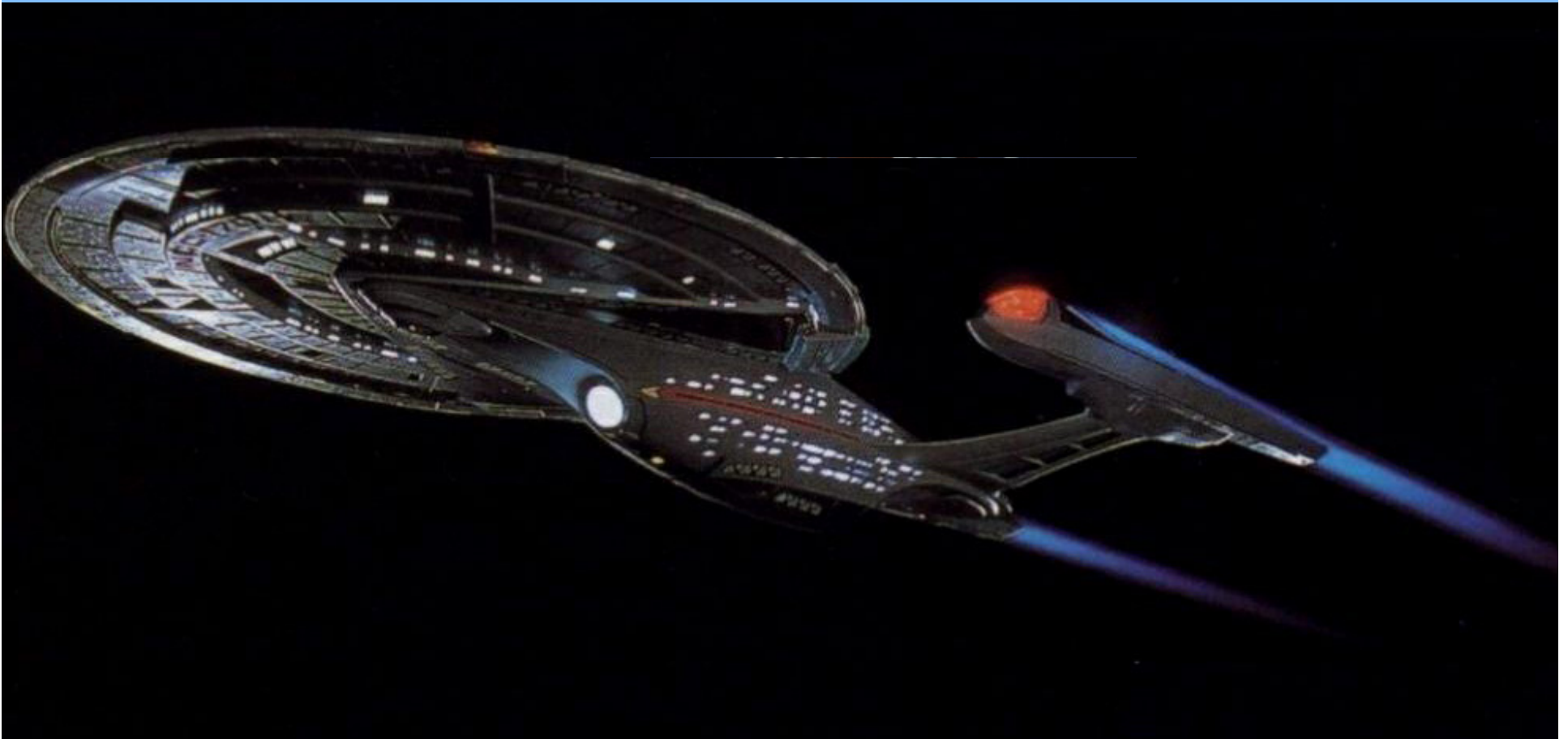
**Worked the *FIRST TIME!***



Defect Density < 16 Defects / Million LOC!

# Where No One Has Gone Before

“Discipline dramatically improves performance.”  
- Robert Musson



# The Human Adventure is Just Beginning



**Communicate!**



**Counsel!**

# The Human Adventure is Just Beginning

**CROSSTALK** 

The Journal of Defense Software Engineering

Oct 2006 Issue

## All We Need to Know About Software Project Management, We Can Learn From Watching Star Trek

David R. Webb , 309 Software Maintenance Group, Hill Air Force Base

*Are you Kirk, Spock, Sulu, Chekov, Uhura, or Scotty? If you are part of a modern-day software engineering team, chances are you fit one of these roles. As we have read about Star Trek's influence on technology, sit back for a warp drive look at how a software engineering team's structure mimics that of the Star Trek bridge crew.*

