

# Team Center Community Has Rocketed Forward at ATK

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Premium Partners:

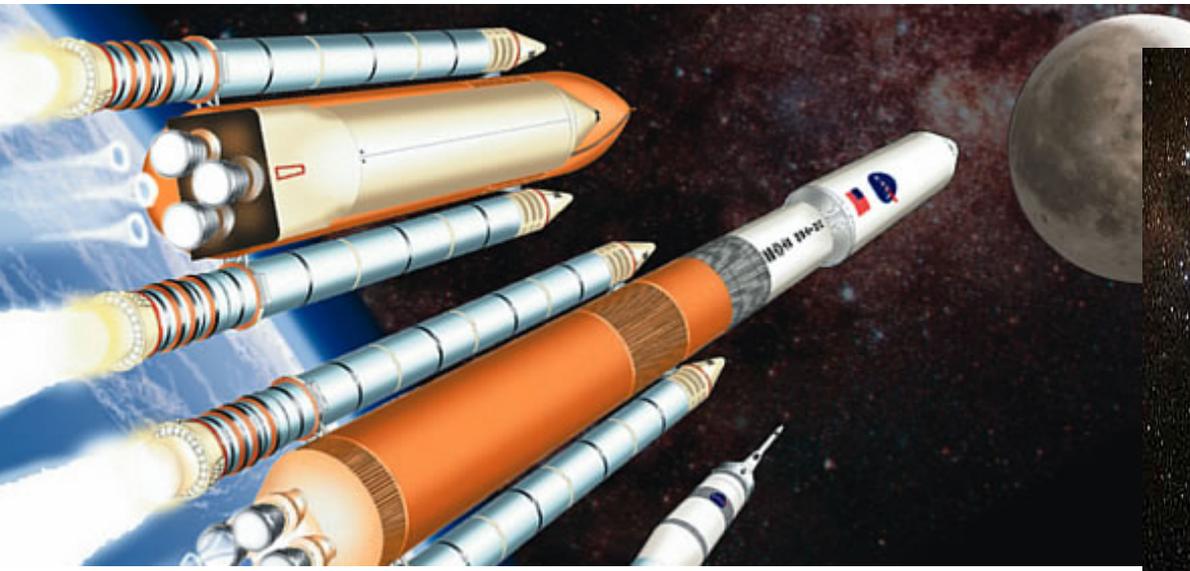
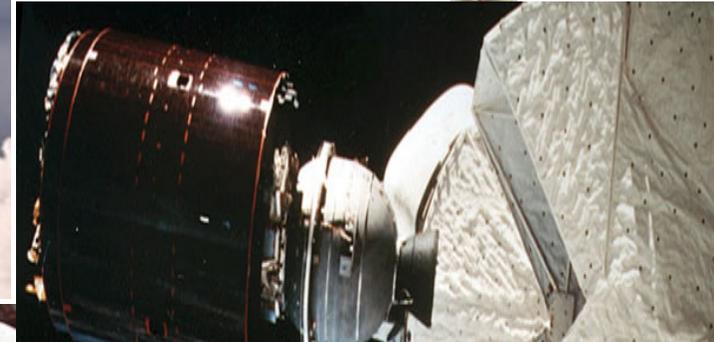


Microsoft

# Company Overview

- ATK is a leading provider of advanced weapon and space systems with \$3.1 billion in annual sales, approximately 15,000 employees, and operations in 23 states. The company is the world's leading supplier of solid rocket motors and the nation's largest manufacturer of ammunition

# Manned Space Flight /Advanced Space Systems



# Advanced/Conventional Weapon Systems



# Unmanned Space Launch



# ATK – Executive Support

- Vision for “One ATK”
- Selection of Corporate Standards

To: All ATK

... crucial to our financial success.

President Mission Assurance

Subject: ... remove boundaries ... Product Lifecycle Management (PLM)

Managing product information, the product lifecycle, and using workflow-driven processes that encompass our best practices is crucial to our financial success. Currently, product knowledge and best ... leverage corporate product knowledge ... biological and organizational boundaries. An increased ability to remove these boundaries and leverage corporate product knowledge will enable us to address key strategic initiatives.

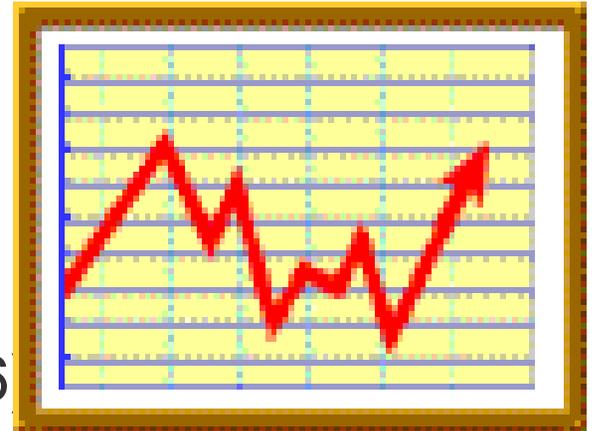
... Enable (ATK) to address key strategic initiatives ...

In order to help us achieve our goal, we have selected ~~Teamcenter~~ from PTC Corporation as the corporate standard for PLM and Collaboration across ATK.

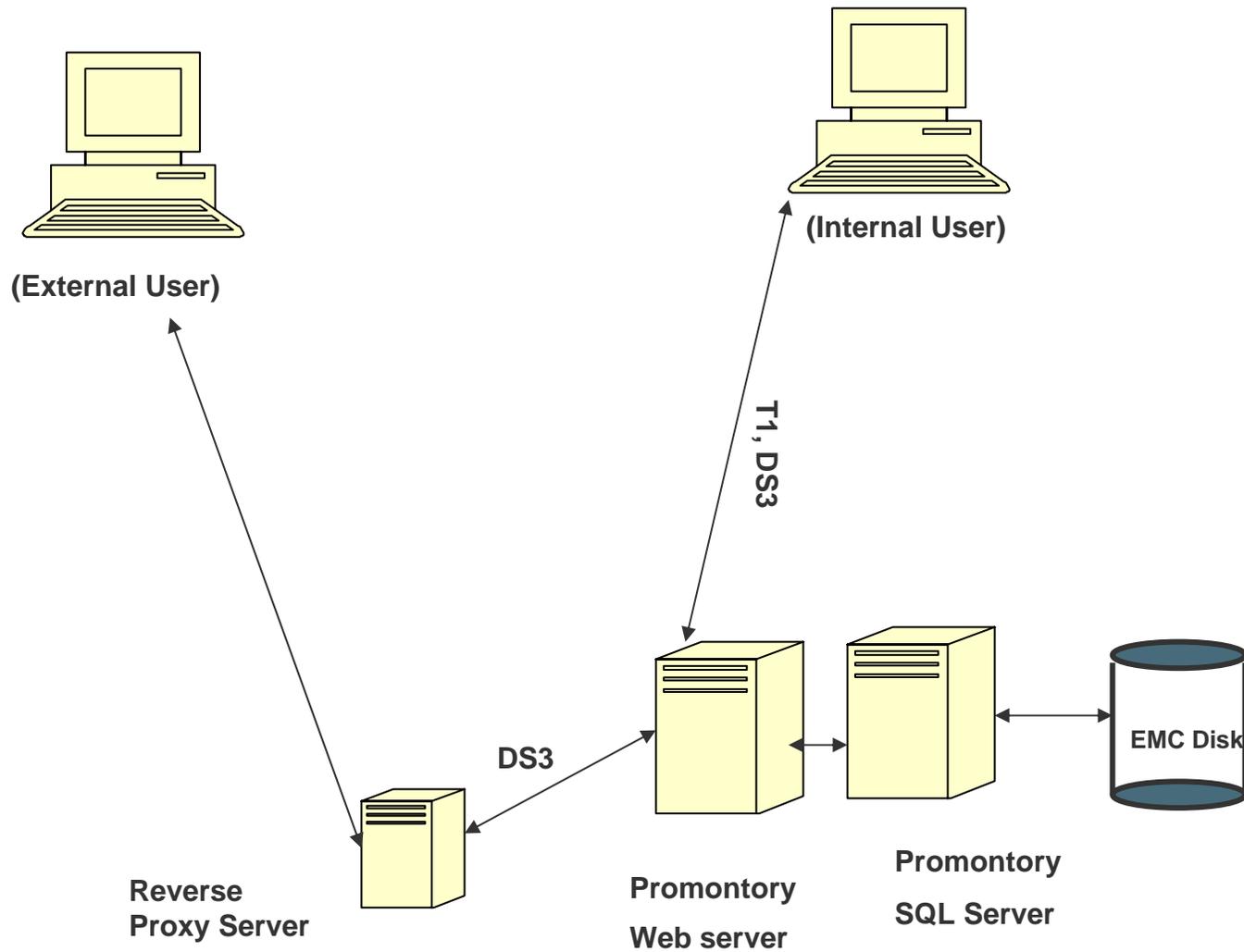
# UGS Products Are Integral part Of ATK Success

# Community Growth

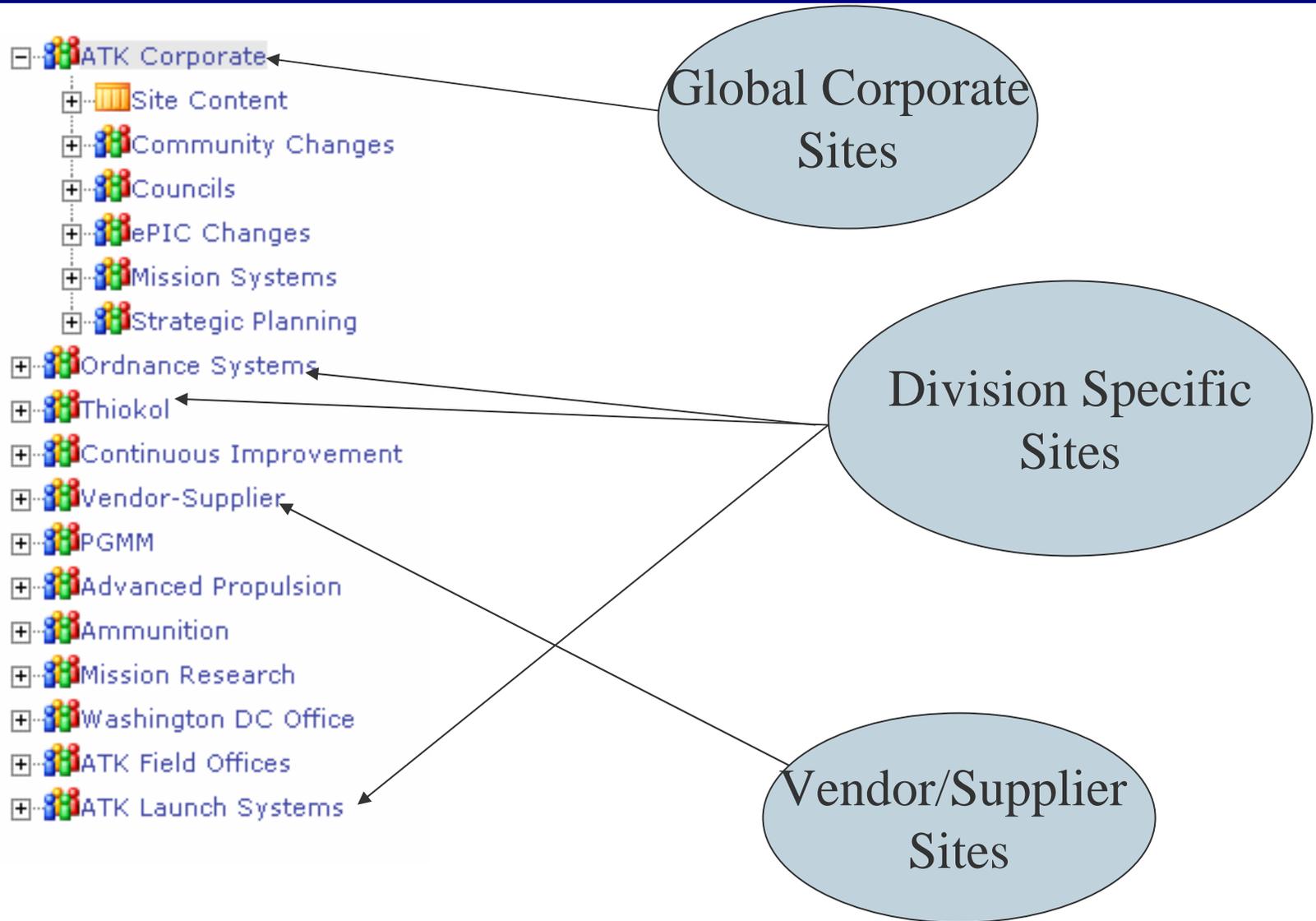
- Started with the Plymouth Group
  - 50 Users (Early 2005)
  - Several Sites
  - External Customers
- ATK Wide
  - Over 1600 Users (Early 2006)
  - Several Top Level Sites
  - 100 Gig and Growing



# Team Center Architecture



# Community Structure



# Plymouth Setup

The screenshot shows the Teamcenter PGMM Home page. At the top, there is a navigation bar with links: Home, Documents and Lists, Create, Site Settings, Logout, Help, and Up to Advanced Programs. Below this is a search bar and a 'Home' heading. A welcome message reads 'Welcome Theesfeld, Elizabeth'. The main content area is divided into three sections: Announcements, Events, and Site Map. The Announcements section contains two entries: 'Congratulations for PM Mortars' dated 11/26/2005 9:11 PM by Peter Burke, and 'BG Freakley, Chief of Infantry, message that includes PGMM' dated 6/29/2005 2:24 PM by Peter Burke. The Events section shows a calendar for March 2006 with links for 'IPT/CPT ...' and 'PM Wkly...'. The Site Map section lists various project components like Site Content, Analysis/SW, Business Management, etc. On the left, a 'Documents' sidebar lists items like Program Plans, Risks, Army PGMM Requirements, etc. At the bottom, there are 'Links' and 'Teamcenter Links' sections.

**Documents**

- Program Plans
- Risks
- Army PGMM Requirements
- Schedule
- Presentations
- Baseline Design
- Government Technical Data
- CDRLs
- Program Directives
- Copy of Contract Information
- General Information
- Materials

**Pictures**

- Mortar
- MANPRINT Assessment
- Target Projector Pictures
- Ultrasonic

**Announcements**

**Congratulations for PM Mortars** 11/26/2005 9:11 PM  
by Burke, Peter  
LTC (P) Kirnes has been selected for promotion to Colonel. Please join us in congratulations for a very well deserved promotion to field rank.

**BG Freakley, Chief of Infantry, message that includes PGMM** 6/29/2005 2:24 PM  
by Burke, Peter  
The Chief of Infantry, BG Freakley (located at Fort Benning) has a great video on their web site (<https://www.benning.army.mil/infantry/>) that describes what they are doing in the global war on terror. He mentions 3 of his key programs by name, including...

[Add new announcement](#)

**Events**

**March 2006**

Sun	Mon	Tue	Wed	Thur	Fri	Sat
26	27	28 <a href="#">IPT/CPT ...</a> <a href="#">PM Wkly...</a>	1	2 <a href="#">ARDEC ...</a>	3 <a href="#">OS OFF D...</a>	4
5	6	7	8	9	10	11

**Site Map**

- Refresh
- Ordnance Systems
- ATK Corporate
- PGMM
  - Site Content
  - Analysis/SW
  - Business Management
  - Midbody
  - MIT
  - Nose
  - Plat Int, Log & Trng
  - Program Management
  - Software
  - Systems
  - Tail

**Links**

- ISO Processes
- How To...

**Teamcenter Links**

Cross Group Sites  
Everyone has access to program information including the customer

Program calendar is maintained for all to view

Program announcements can be displayed for the entire project team

Community is structured to match program IPT structure

Links to our ISO procedures

# Plymouth Usage

- Site Rollups for Costing
- Alert Notification for Actions
- Cross Site Groups for Read Only Access
- Access within Community for two different instances of Teamcenter Enterprise
- Customer Access to all Data (including JT Files)
- Storage of Images and non-structured Documents



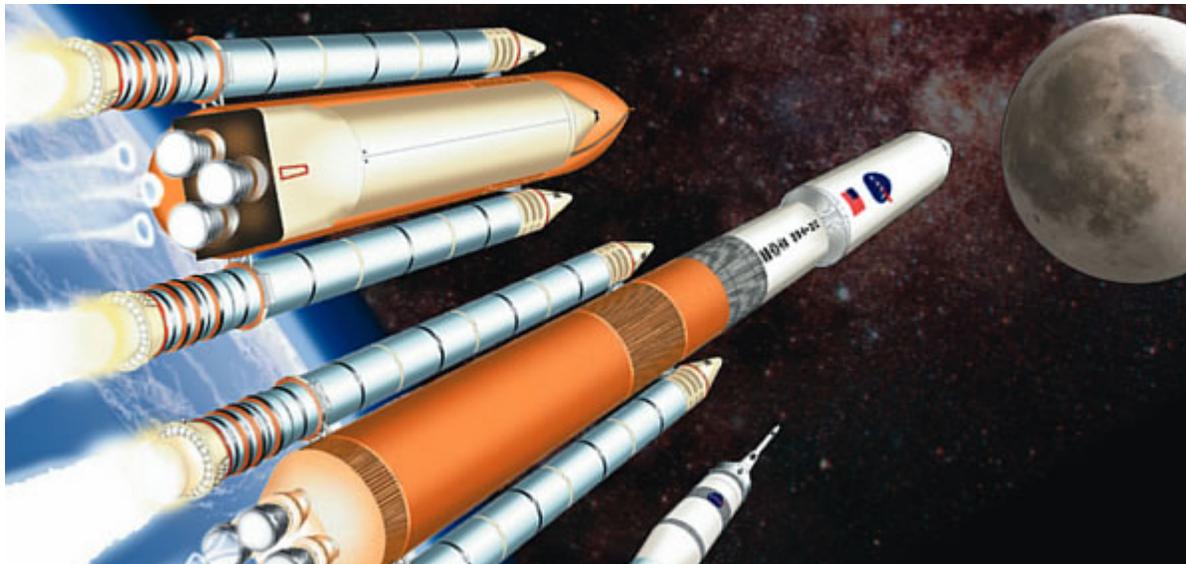
# Corporate Use

- Senior Management
- Strategic Planning
- Product Development Planning.
- Councils
  - System Engineering
  - Contracts – Supply Chain Management
  - Mission Assurance
  - Technology
- Community and Enterprise Review Board (SCRB)



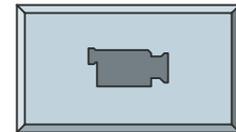
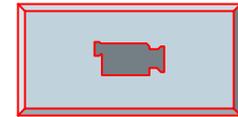
# Propulsion Business Development

- Very successful use case in 2005
- Limited Access – by creating Flat Structure
- Group Access is limited
- Active Sites For the New CLV &CEV



# Extensive Use of Community for CLV SBD

VIDEO Presentation



# Propulsion Insulation Group

- Weekly Meetings with NASA
- Immediate Visibility for Issues.
- DR (Discrepancy Reports) Discussion
- Replace Shared Drive
- 2 Hour High Level Presentation with Top Level NASA Officials
- Used for the Action Items
- IMAGE Review During the Meetings



# Project Development With UGS

- Shop Floor to Team Center Enterprise
  - Task Management
  - Application Sharing for Problem Resolution
  - 3 On/Off Site contractors
- Team Center Requirements
  - Work Closely with the UGS Requirements Team
  - Weekly Project Updates . (Cleveland, Dallas, Utah)
  - Complex Project



# Backup of Community AVEPoint

- Software Used at other ATK Sites
- Capability
  - Option offers Item Level Restore
  - Individual Site Restoration
- Site Level Backups
  - Preferred Site Backup method
  - Issues with configured Sites
- SQL Server Backups
- Backup to Tape



# Reverse Proxy Issues

- Netegrity 6.0 Testing
  - File Upload Issues
    - Inconsistent results
    - Explorer view works for 70 Meg Files
    - Upload only works for 20 Meg Files
  - Support is limited / scarce
- Juniper Appliance Testing
  - Credential Passing Error with Office 2003
  - Suppose to be WEB DAV enabled by June 2006
  - Support has been Limited / Scarce



# 2005 Test

- 2005 MP1 Installed in Test Environment
- Testing Includes
  - Migration of DATA
  - Site Structure Restructuring
  - Data Validation
  - General Community Functionality



# Best Practices

- Use of Teamcenter Community
  - Utilize for Work in Process
  - Formal document release completed in Enterprise
  - Utilize for non structured documents
    - Don't need formal release process
    - Don't need to be configuration controlled
    - Not part of the Technical Data Package (TDP)
- Migration issues when using Front Page customizations
  - Utilize out of the box configuration
- Integration to other Teamcenter products weak



# Customer Comments

- Easy to implement
- Minimal Training
- Immediate Results
- User Friendly
- Positive Comments
- NASA Comments
  - Marshall Program Office ATK Did an outstanding Job
  - NASA Chief Engineer RSRM
  - More ATK and MSFC need training on Team Center.
- “This Teamcenter system was an awesome addition for us, as we were spread out all over the country. Made us much more communicative and efficient. “ A Satisfied Teamcenter Community User



# Summary

- Easy win-win solution
- Minimal Administration
  - Limited Training Needed
  - System Up-Time has been Excellent
  - Sufficient to utilize Out of the Box
- Management Supported
- User Appreciated
- Teamcenter Community Has Indeed Rocketed Forward At ATK