

Rapid Deployment, Corporate Framework and Philosophy

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Premium Partners:

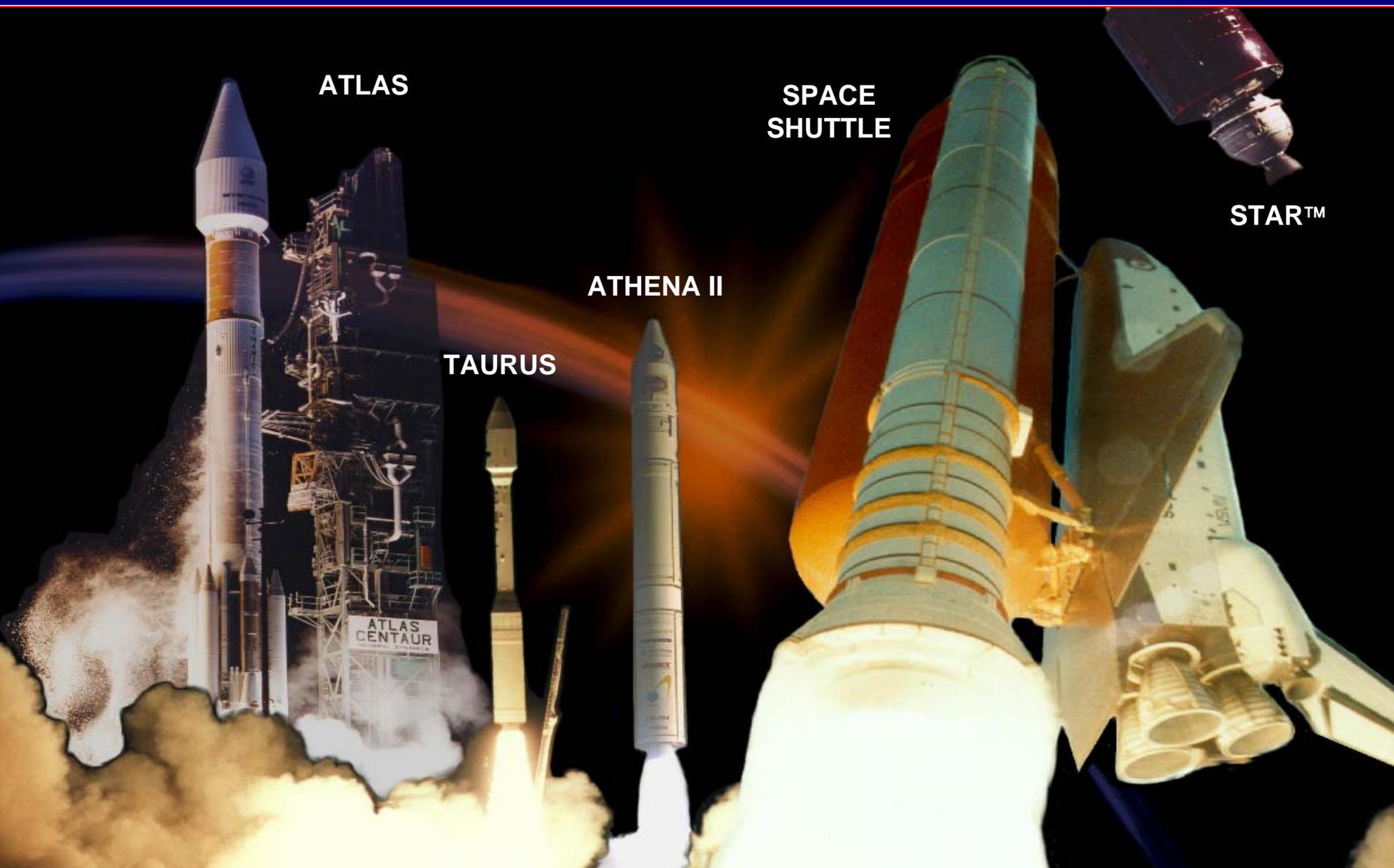


Microsoft

ATK Preview

- ATK (Alliant Techsystems Inc.) is a \$3.1 Billion advanced weapon and space systems company
- 15,000 Employees in 23 States
- Three business groups:
 - Launch Systems Group (Space Launch Platforms, Missiles)
 - Mission Systems Group (Adv Weapon Sys, Space Sys, Sensors)
 - Ammunition Group (Military and Commercial Ammunition)
- ATK Launch Systems
 - 4500 Employees
 - World's Largest Manufacturer of Solid Rocket Motors with about 85% of the US Market
 - Products include: Rocket Motors, Missiles, Aerospace Space Vehicles, Flares, Energetic Materials, High Tech Structures & Composites
 - Over 17 Yrs PDM/PLM Usage and Experience

ATK Space Products



ATLAS

SPACE SHUTTLE

STAR™

ATHENA II

TAURUS

ATK Defense Products



**MINUTEMAN
(ICBM)**

**PEACEKEEPER
(ICBM)**



**HARM
SIDEWINDER**



TRIDENT



**STANDARD
MISSILE**



PATRIOT



HARPOON

ATK Ammunition Products



ATK – Common Business Challenges

Document release and change process

- Need for standardization/consistency in process
- Lack of control
- Lack of understanding and documentation of process
- Poor implementation of change



Right document, right time, right place

- What and where is current revision? – filing cabinets, personal or team drives
- Loss of documentation
- Inability to search for what we have already done

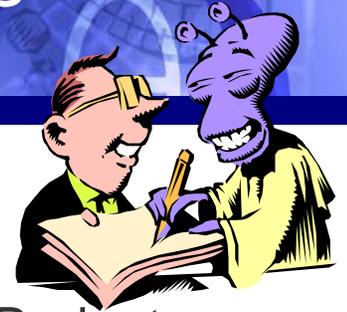
Meeting Customer/Supplier Requirements

- Access to documentation
- Inclusion in change process

ATK – Business Challenges - Distance



ATK – Business Challenges – Language



- ,
- Obgleich wir unterschiedliche Sprachen sprechen, ist die Bedeutung dieselbe.
- Aunque hablamos diversas idiomas, el significado es igual.
- Bien que nous parlions différentes langues, la signification est identique.
- Anche se parliamo le lingue differenti, il significato è lo stesso.
- Embora nós falemos línguas diferentes, o meaning é o mesmo.
- ,
- Skjønt vi taler forskjellig språk, å bety er den samme.
- Although we speak different languages, the meaning is the same.

“One ATK” Corporate Initiative



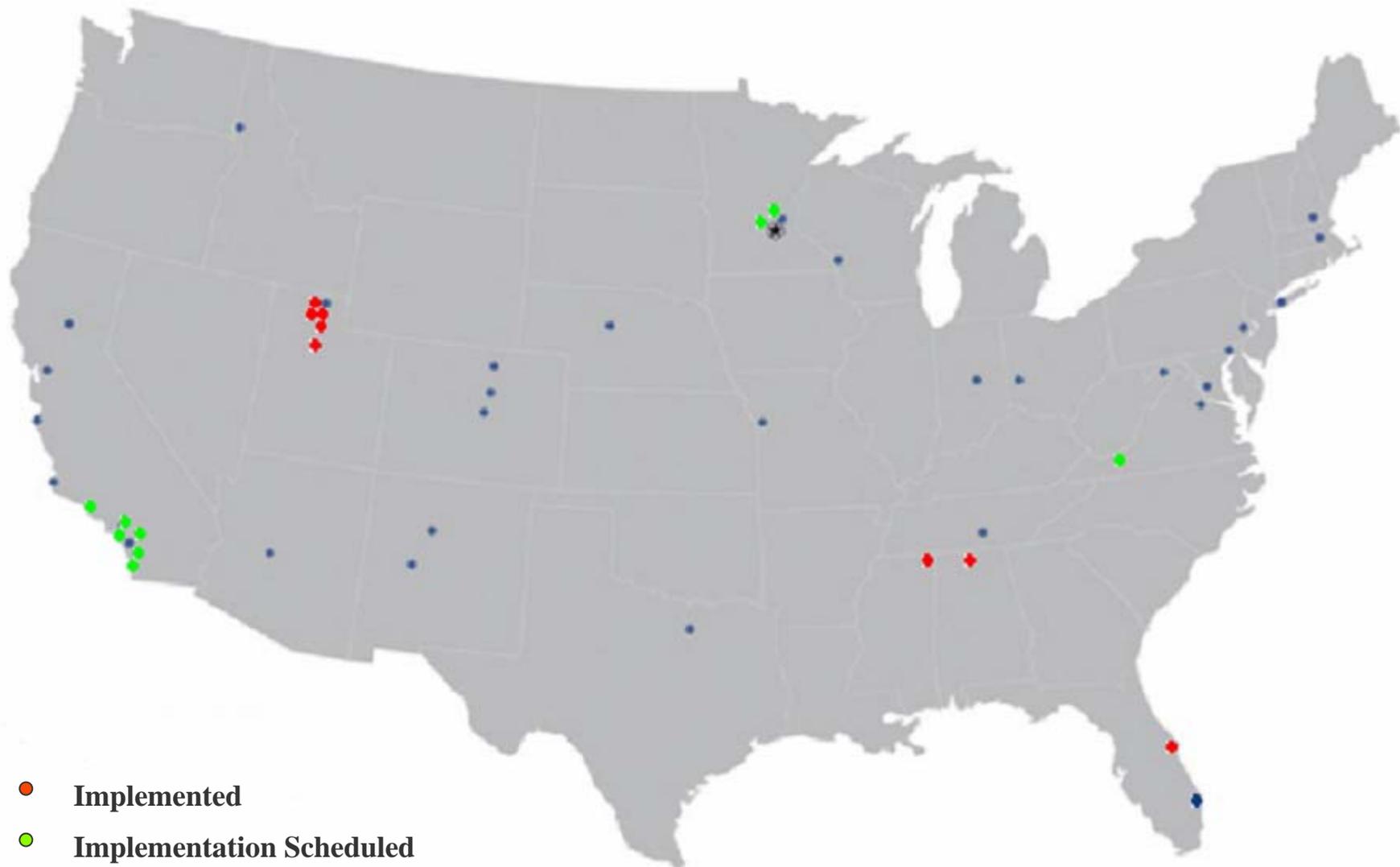
- Implement **common business systems** where there is a significant value
- **Leverage cost advantage** to deploy & maintain systems from centralized resources
- Improve **secure access** to critical business data
- Enable **collaboration between sites** in support of joint programs
- Rapidly bring new programs onto **common strategic framework**
- Drive industry/corporate standards and best practices through **common business processes**

“One ATK” Corporate PLM Initiative



- Single Corporate instance of Teamcenter Enterprise
 - Standardized processes – Speaking same language
 - Secure access to ATK critical business data
 - Allows multiple sites with limited/no site support staff
 - Sites access a corporate maintained system – hardware and software

ATK – Site Implementations



Implementation Risks

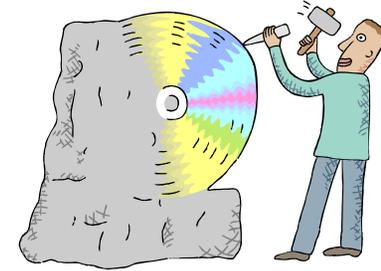
- Business units not willing to change (large)
 - Risk mitigation: Establish corporate sponsorship, Issues handled at executive level, establish core user buy-in.
- Corporate implementation is NOT feasible; too many sites, too much variety.
 - Corporate infrastructure may have to be upgraded
 - Risk Mitigation: Other businesses have dealt with similar situations. Infrastructure cost is much less than dealing with “silo’s”

Implementation Risks Continued

- Funding is NOT available or very limited
 - Risk Mitigation: Worse case is to have data management group performing similar tasks as they are doing today (license/training is minimal)
- Migration efforts from legacy systems.
- Not enough ATK resources.
 - Risk Mitigation: Reduce scope, pace the projects, hire more resources internally, or contract with UGS for additional services.

Implementation Approach

Quick-Start Implementation **founded on leveraging standardized process**

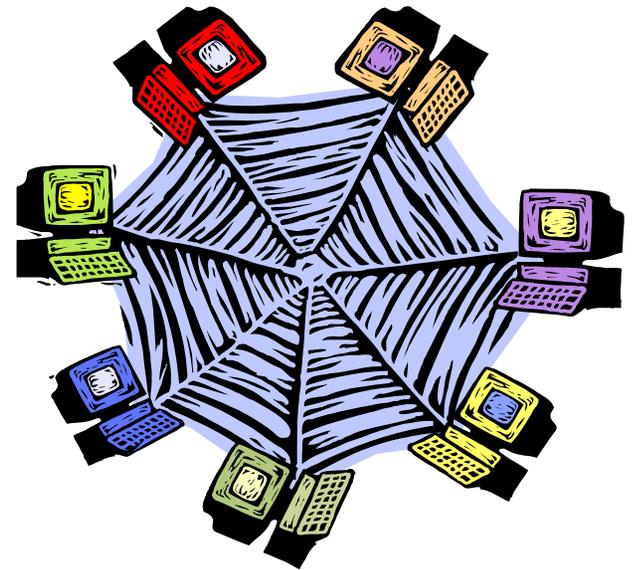


Scope includes **core design data**

- Change Requests
- Change Notices
- Drawings – Design (Product), Tooling, and Manufacturing
- Specifications
- Parts
- Migration of existing data

Implementation Kickoff

- Define the strategy for implementation
- Layout ground rules
- Approve scope of the project
- Establish a dedicated team
- Establish project start date



Implementation Strategy

ePIC Quick Start Home Page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Recycle Bin Mail Print Web Services Favorites

Address <http://thiokolweb.atk.com/epicqs/> Go Links

ePIC Quick Start Tools

Home Page

FOR TEAM INTERNAL USE ONLY (Information highly dynamic)

Project Management

- [Glossary of Terms](#)
- [Implementation Process Flow](#)
- [Management Kickoff Presentation](#)
- [Network Performance Test Plan](#)
- [Project Plan](#)
- [Quick Start Documentation Schedule](#)
- [Roles and Responsibilities Matrix](#)
- [Standard Auto Numbering Guide](#)
- [SEHO ePIC Schedule](#)
- [Teamcenter Questionnaire](#)

Document Types

- [Assembly](#)
- [CN \(Change Notice\)](#)
- [Contract](#)
- [CR \(Change Request\)](#)
- [Deviation Request](#)
- [Drawing](#)
- [ECP \(Engineering Change Proposal\)](#)
- [FDR \(Engineering Data Requirement\)](#)

Local intranet

Implementation Strategy Cont.

CN.doc (Read-Only) - Microsoft Word

File Edit View Insert Format Tools Table Window Help

Heading 1 Times New Roman 18 B I U

Change Notice

A Change Notice authorizes the creation or modification of a part or document.

Change Notice Class Information

| Class Description | Class Name | Inherits From Class | Standard Auto-Number Series | Rev Type |
|-------------------|------------|---------------------|--|----------|
| Change Notice | WbCNDoc | WbChgOrd | Eight-digit number with "CN" prefix (CN00012345) | **Alpha |

Change Notice Class Attributes

| Description | Attribute | Type & Size | Usage |
|------------------------|----------------|-------------|---|
| * Change Notice Number | WbsID | String(32) | A unique identifier for the Change Notice. |
| *Rev | Revision | String(5) | Specifies the revision of the Change Notice |
| ECL | WbECL | String(6) | Engineering Change Level, depicts level of drawing and is used when purchasing parts. |
| *Change Notice Type | b2ChangeType | String(30) | Designates the type of change documentation. The value for this field must match one of a set of predefined values. |
| Description | WbsDescription | Blob | Specifies full description of change. |
| *Program | b2ProgramName | String(30) | The unique identifier for the program. The value for this field must match one of a set of predefined preference values. ie RSRM, D5 must be preset prior to authoring a document |
| Project | ProjectName | String(30) | The name of the Project the item is assigned to. This attribute is set by using the Assign to Project action. It applies to Business Items directly assigned to a Project. |

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Quick Start Guidelines

- Some processes/policies & procedures may need to be modified to conform with the current ePIC framework.
 - **Standard automatic document numbering & revisioning**
 - Standard rules for “part” creation
 - Standard forms (i.e. administrative data, electronic signatures)
- The business site will provide:
 - Templates (Site Specific)
 - Administrative and user support
 - Business process flows
 - User training



Quick Start Guidelines Continued



- New applications/enhancements **will not be developed during the initial implementation.**
 - Enhancements will be approved through the Corporate Change Board (CRB)
- Rapid deployment techniques will be used. **Onsite support** from the ePIC support team will take place in the early stages of the project.
- **Legacy system(s) will be shut-down** as soon as the new system goes live.
- A **team** will be selected and **available to work on the project until it is in production.**

Rapid Deployment Schedule for SEHO

| ID | Task Name | Sep 11, '05 | | Sep 18, '05 | | Sep 25, '05 | | Oct 2, '05 | | Oct 9, '05 | | Oct 16, '05 | | | | | | | |
|----|--|-------------|---|-------------|---|-------------|---|------------|---|------------|---|-------------|---|---|---|---|---|---|---|
| | | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M |
| 1 | SEHO ePIC Implementation | | | | | | | | | | | | | | | | | | |
| 2 | Initial SEHO Visit | | | | | | | | | | | | | | | | | | |
| 21 | Implement business process design | | | | | | | | | | | | | | | | | | |
| 38 | Second SEHO Visit | | | | | | | | | | | | | | | | | | |
| 49 | Production | | | | | | | | | | | | | | | | | | |
| 54 | Hold Closeout Meeting | | | | | | | | | | | | | | | | | | |

PLM Initiative (Lessons Learned)

- Understand that this is **NOT** an IT project, but an **ATK Business Strategy!**
- Must establish an **Executive Steering Committee**
 - Provide accountability for the implementation efforts
 - Help reduce the pain of implementation (cultural shift)
 - Responsible to approve any “customizations”
- Remember that this is an **Enterprise Solution**
 - **Focus on PLM** (Product Lifecycle Management) rather than PDM (Product Data Management)
 - **Treat it like an ERP implementation** rather than a CAD implementation

PLM Initiative (Lessons Learned Cont)

- Site Ownership
 - Need to establish business owner at site
 - Will provide ongoing **user support/training**
 - May participate in **Change Review Board (CRB)**
 - Review and approve system changes
 - User testing prior to rollout of system changes
- **Create and adhere to global data and implementation standards** but allow flexibility at the division level for site specific processes and workflows
- The implemented solution is only as sound as the underlying process and people at each site



Questions

