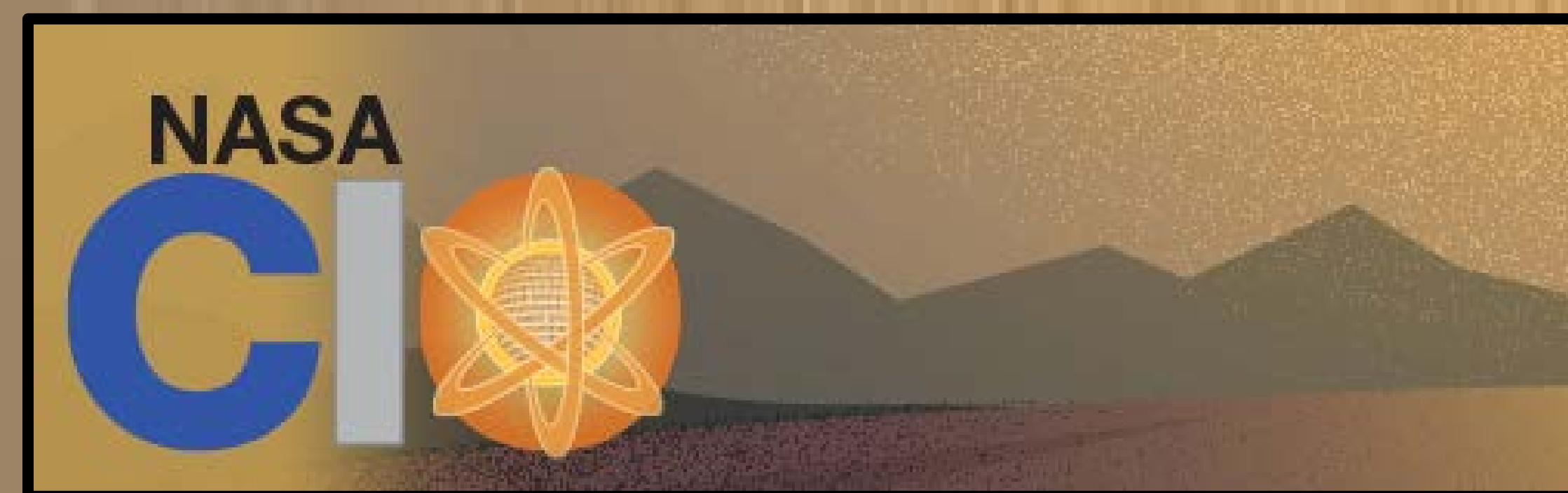




Kevin Samms

University of Central Florida:
Bachelor of Science
Computer Science, Fall 2015
Master of Science
Industrial Engineering, Fall 2018

U.S. Air Force (Honorable Discharge 1994):
Airman First Class (A1C) Dyess AFB,
Abilene, Texas – Home of the B-1B Bomber
USAF Achievement Medal

Division: IT-G Technical Integration Office
Directorate: IT
Kennedy Space Center

Internship & ITSS Contract 2014

Summer 2014 NIFS Intern
Fall 2014 ITSS Contract

Mentor/Lead: Ali Shaykhian (Computer Science & Engineering)

ISS Anomaly Data Project, 2014

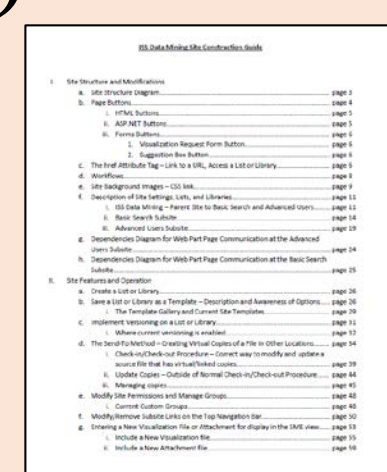
- Purpose: Provide centralized access to and statistical analysis of ISS anomaly data.

Work

- Built a SharePoint site that allows SMEs to search ISS anomaly data by technical discipline, sort related systems, and view Tableau Desktop files as well as PDFs and other documents related to that system.
- Progressed from manually organizing anomaly reports by topic in Excel spreadsheets to using SAS text mining, and later using Tableau + the ISS SharePoint website.
- Wrote user manuals for Tableau Dashboards and the team website.

Knowledge and Experience Gained

- SharePoint, SharePoint workflows, SBU/ITAR banner requirements.
- Excel VBA (Visual Basic for Applications) programming.
- Tableau Desktop Data Visualization Software.
- Incorporate user feedback in development

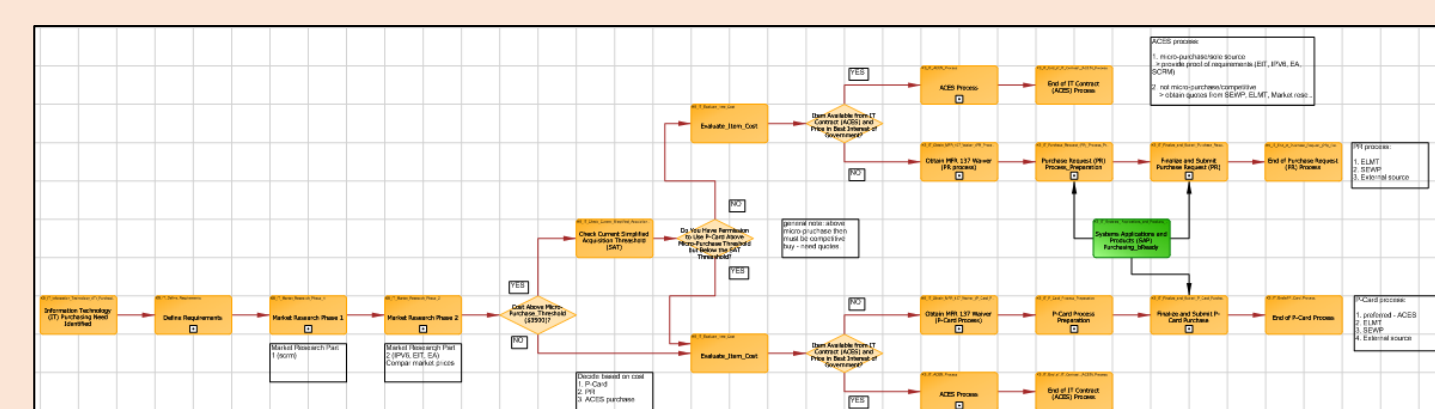


Current Role:

KSC EA Team Member
NASA Pathways Intern
Jan 2016 - Present

Architecture Project

IT Acquisitions process architecture



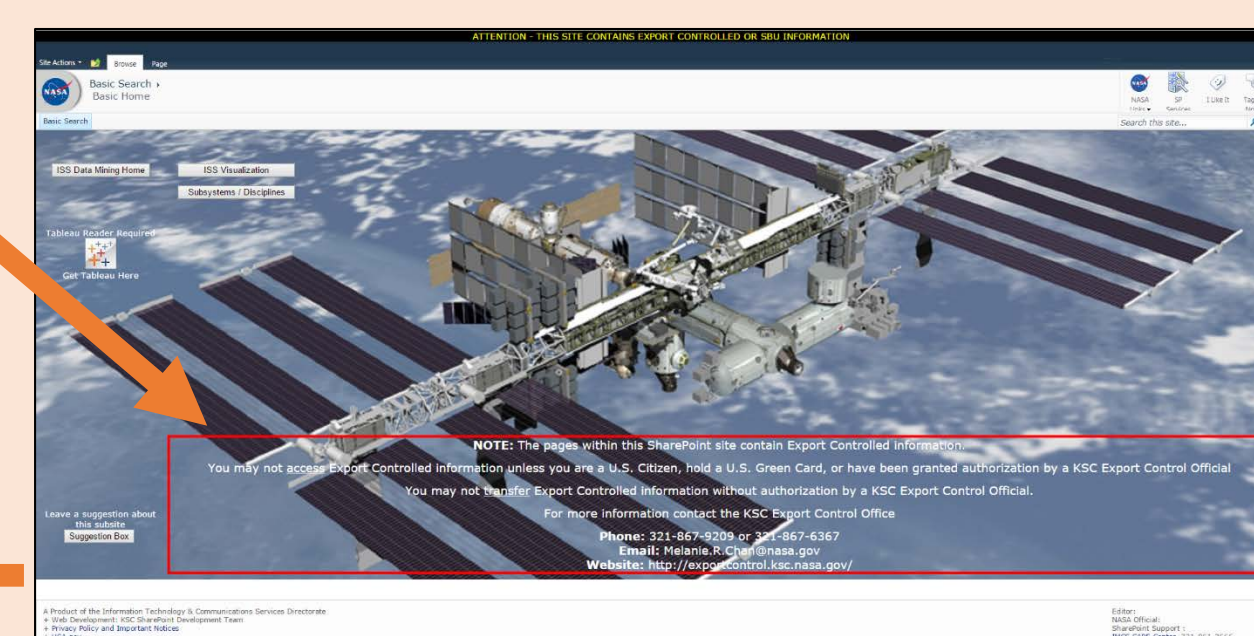
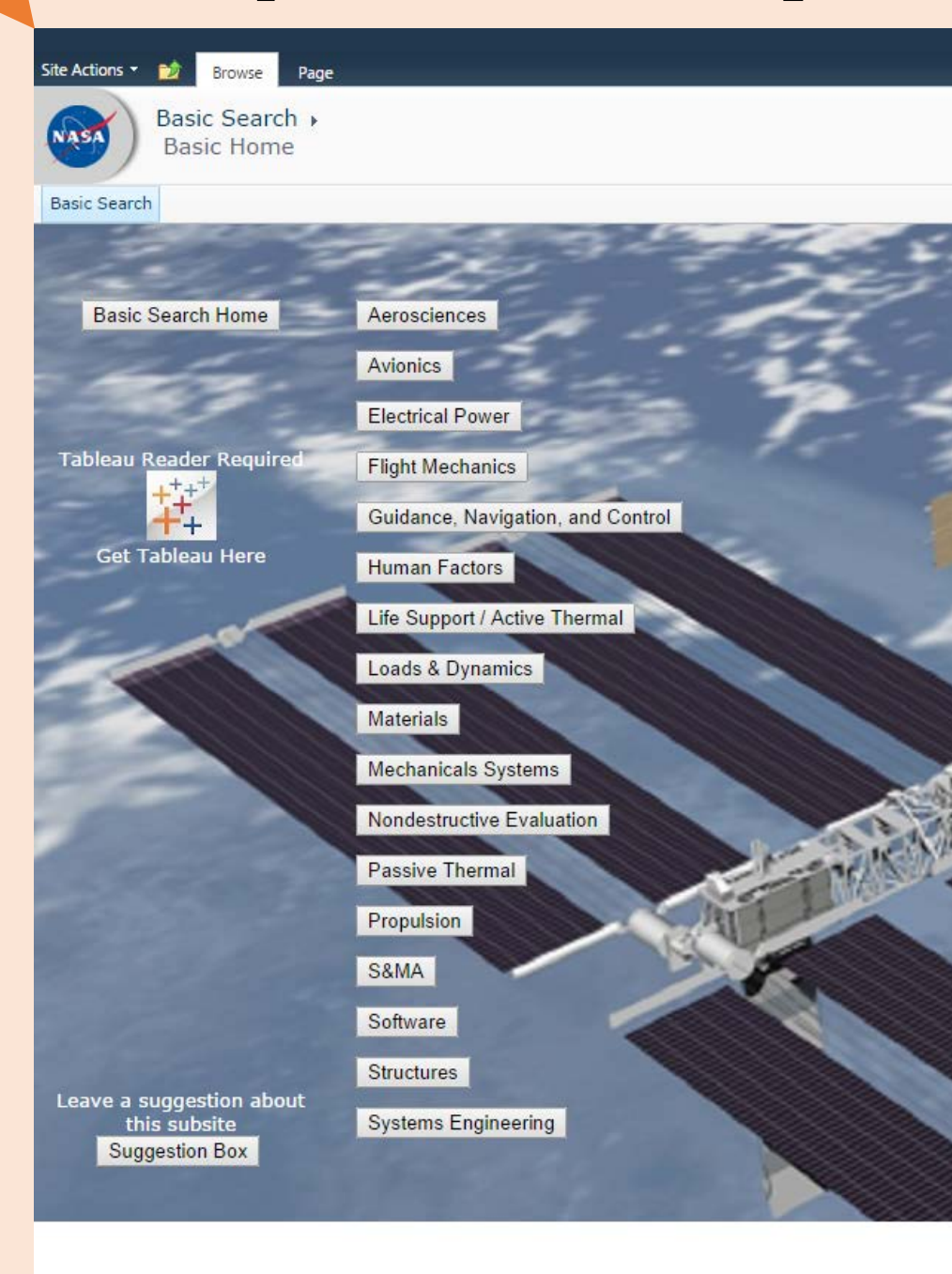
Problem

No centrally available guide to resources, regulations, and forms for buying IT using Purchase Request (PR) or P-Card.

Solution

Gather government regulations: FAR, FAR supplements, Public Laws, PCDs, PNPs, PICs, Policies, KDPs, KNPDPs, KNPDRs, Memoranda, GG's Purchase Requisitioner Handbook, other guides, and websites, then assemble them into a process architecture.

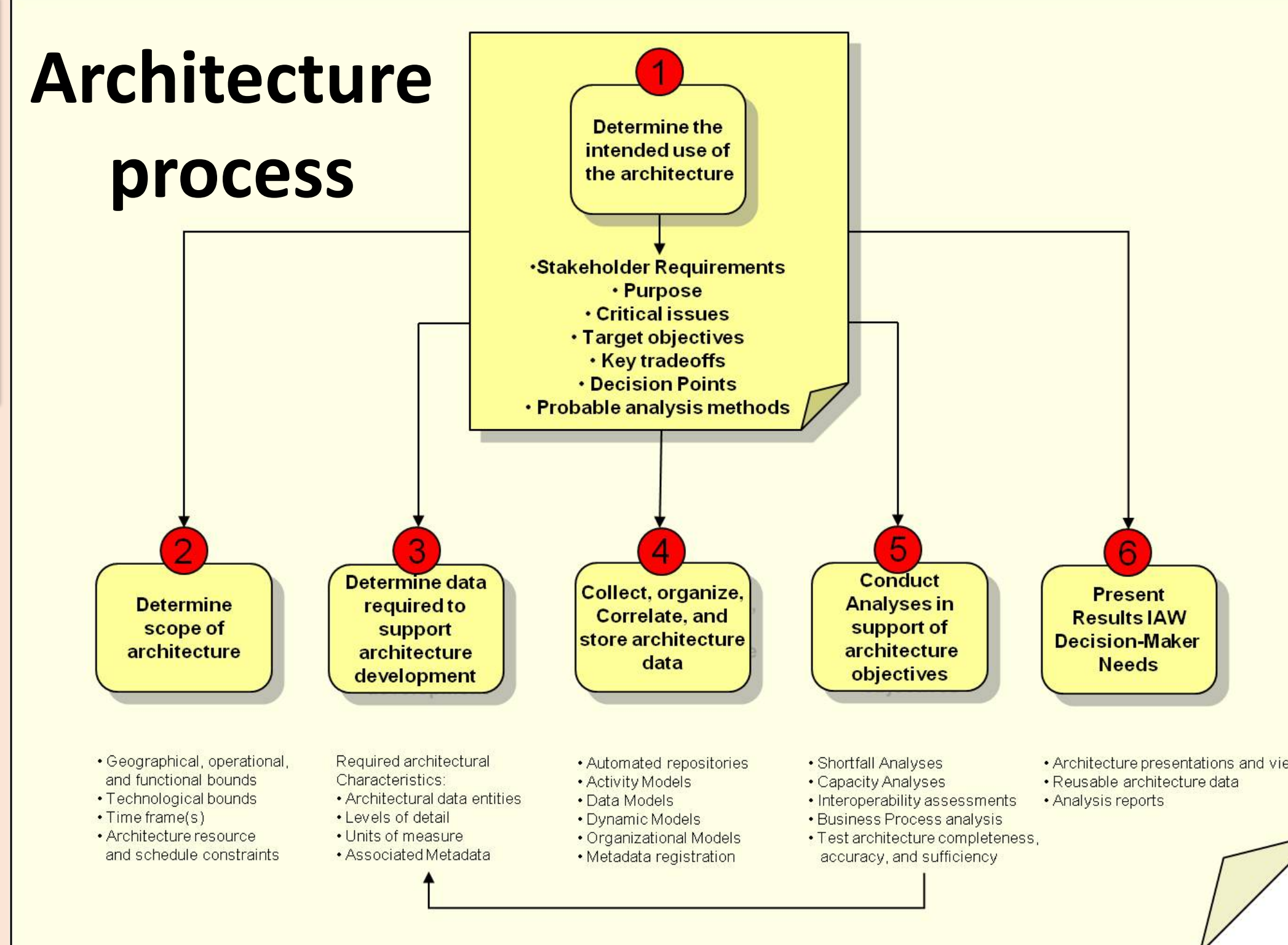
- Supported ITAM team, receiving input to finalize the architecture, and awaiting the outcome of the Agency Software License Management process before making available for use by requisitioners or anyone who needs guidance regarding the surrounding regulations and requirements for purchasing IT by PR or P-Card.



What is EA?

An enterprise architecture (EA) is a conceptual blueprint that defines the structure and operation of an organization. The intent of an enterprise architecture is to determine how an organization can most effectively achieve its current and future objectives.

Architecture process



Mentor: Bryan Bookhart
(KSC Enterprise Architect)

Architecture Assists

Partnered with EA team members on:

- IT-C3 Computing Capabilities to Processes Map.
- Data Center Services Branch Strategy.
- Data Center Systems and Compute Environment.
- NSSC Architecture.

Created architecture deliverables related to:

- Mapping capability taxonomy to performers & services.
- Relating activities, projects, capabilities, vision, goals, and objectives.

SSRS Reports

- Show customized, web-accessible tabular views of the data contained in the architecture.
- Show mappings/associations between objects.
- Show gaps, redundancies, and dependencies within organizational components.

Capability Roadmap										Database Used
ID	Task Mode	Outline Level	Name	Duration	Start	Finish	Predecessors	Baseline Start	Baseline Finish	Org Component
1	Manually Scheduled	0	Provide Communications Services (U)	3652	Fri 01/01/2014	Wed 12/31/2025				
2	Manually Scheduled	1	Communications (U)	1844	Fri 01/01/2014	Thu 12/31/2016				
3	Manually Scheduled	2	Physical Cable Plant (U)	1095	Fri 01/01/2014	Mon 12/31/2016				
4	Manually Scheduled	3	Remote Access Endpoint Connectivity (U)	0	Unk'n	Unk'n				
5	Manually Scheduled	3	Wired Endpoint Connectivity (U)	1095	Fri 01/01/2014	Mon 12/31/2016				
6	Manually Scheduled	4	Installed IT Controller Cable Plant	1095	Fri 01/01/2014	Mon 12/31/2016				
7	Manually Scheduled	1	North/South Cable Network	365	Fri 01/01/2014	Sat 12/31/2014				
8	Manually Scheduled	1	PD to VC Fiber Cable	365	Fri 01/01/2014	Sat 12/31/2014				
9	Manually Scheduled	3	Press Site Cable Tray	364	Mon 01/01/2018	Mon 12/31/2018				
10	Manually Scheduled	3	Remove Cable Blockages	365	Fri 01/01/2014	Sat 12/31/2014				
11	Manually Scheduled	5	Request Request for Fiber at Universal Camera Site	364	Sat 01/01/2017	Sat 12/31/2017				
12	Manually Scheduled	3	Western Endpoint Connectivity (U)	0	Unk'n	Unk'n				
13	Manually Scheduled	2	Data Center (U)	0	Unk'n	Unk'n				
14	Manually Scheduled	3	Data Center Backend (U)	0	Unk'n	Unk'n				
15	Manually Scheduled	3	Geographic Load Balancing (U)	0	Unk'n	Unk'n				

Roadmap Stored Procedure: sp_RoadMapMSPX

Problem

The inability to show architecture information in a hierarchical format to visibly show dependencies and date order between objects or produce Gantt charts to show time order dependencies between capabilities and projects.

Solution

- Created a stored procedure (SQL script/program) to perform recursive operations that gather database objects into a hierarchy and output the data as a spreadsheet to be used by Microsoft Project or other software to create Gantt Charts.
- Produced a guide to describe the procedure and its dependencies within the database.

Internship & ITSS Contract 2015

Spring & Fall 2015 NIFS Intern
Summer 2015 ITSS Contract

Mentor/Lead: Ali Shaykhian (Computer Science & Engineering)

FJET Project

- Purpose: Provide data management services to the Frangible Joint Empirical Test (FJET) project at Langley Research Center (LARC).
- NASA Engineering and Safety Center (NESC) project to conduct an assessment of mild detonating fuse (MDF) frangible joints (FJs) for human spacecraft separation tasks in support of the Commercial Crew Program.

Work

- Managed the database used to store FJET test data, used Tableau Desktop to build data visualization dashboards, and built an access controlled SharePoint site to make those dashboards available for FJET team members.
- Transitioned from a MySQL Database to Microsoft SQL Database.
 - MySQL: Initial simplicity, flexibility, and low cost (free) allowed DB setup while discovering requirements and potential problems before committing to a more expensive database.
 - Microsoft SQL Database: Integrated SSRS (SQL Server Reporting Services) & data upload wizard.

Problem Solved / Service Provided

- Test data accessible from a single location and presentable through data visualization dashboards instead of multiple folders.

Knowledge and Experience Gained

- Excel VBA, MySQL and MS SQL database syntax, database table/data management.
- Tableau data visualization software.

Pathways 2016 – CUI Project

Mentor: Bryan Bookhart (KSC Enterprise Architect)

Problem

Users of LCS/SCCS experienced issues with Compact Unique Identifier (CUI) data sources.

Solution

Work with a GSDO Pathways intern to research CUI repository and other documentation, and assist the EA/LX team in the creation of an architecture that would describe the current LCS environment as it pertains to acquiring authoritative CUI information, exposing options for obtaining authoritative data.