



# USAF-558

# SUPPLY CHAIN

# COMMUNICATION

Carter Vannelli  
Matthew Glos  
Ryan Becker  
Liuhan Wang  
Hao Wang

# Beneficiary discovery

Daniel P. Schubert  
2/20  
Interview

Phone

Albert Tolbert  
Azi Williams  
Joshua Cintron Ruiz

Jeffrey R. Porter

Cancelled

Aaron Dangelillo  
2/8 Phone Interview  
3/28 Phone interview

FSR Richard Zambori  
2/ 25 Email Questionnaire

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500+ coworkers  
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FSR  
Rob Heap (Lead)

Jonathan Bond  
Jeff Braskamp

William Church  
Donterrio Erby

Mark Owens  
James Guffey

FSR-S  
Alex Chien (Lead)  
Jesse Boehm

# Introduction

Entities Involved:

- Boeing KC 46A Pegasus
- 3rd Party Companies
- Dash 21

Technical Orders (TO)



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Mobility Systems

|      |           |       |   |  |     |
|------|-----------|-------|---|--|-----|
| 7.1  | 50472-001 | 80298 | 12-PASSENGER PALLET ASSEMBLY SYSTEM                             |  | REF |
| 1/1  | 50141-008 | 80298 | . 88" WIDE KC-46A ASSEMBLY, PALLET, SEAT.                       |  | 1   |
| 2/1  | 50144-702 | 80298 | . PALLET BRIDGE PLATE .....                                     |  | 1   |
| 3/1  | 86004-037 | 80298 | . HINGE, PALLET BRIDGE .....                                    |  | 1   |
| 4/1  | 81000-006 | 80298 | . SCREW, #10-32x.40LG, MACH. FLAT HEAD .....                    |  | 18  |
| 5/1  | 82018-002 | 80298 | . #10-32 CENTERLOCK NUT.....                                    |  | 18  |
| 6/1  | 60419-708 | 80298 | . SEAT TRACK COVER, AFT.....                                    |  | 8   |
| 7/1  | 60419-707 | 80298 | . SEAT TRACK COVER, FWD .....                                   |  | 4   |
| 8/1  | 80069-002 | 80298 | SEAT_DOUBLE_RIGHT HAND  |  | 3   |
|      |           |       | REFER TO VENDOR LITERATURE FOR<br>COMPLETE SEATING PART NUMBERS |  |     |
| 9/1  | 80069-003 | 80298 | SEAT_DOUBLE_LEFT HAND   |  | 3   |
|      |           |       | REFER TO VENDOR LITERATURE FOR<br>COMPLETE SEATING PART NUMBERS |  |     |
| 10/2 | 85013-009 | 80298 | . PIN, COTTER .....   |  | 4   |
| 11/2 | 85012-002 | 80298 | . PIN, DOWEL.....   |  | 4   |
| 12/2 | 50019-206 | 80298 | . T-HANDLE .....  |  | 4   |
| 13/2 | 85009-066 | 80298 | . PIN, CLEVIS .....   |  | 4   |
| 14/2 | 50019-204 | 80298 | . KNOB .....  |  | 4   |
| 15/2 | 87004-008 | 80298 | . SPRING, PLUNGER.....  |  | 8   |
| 16/2 | 83003-008 | 80298 | . WASHER, BELLEVILLE.....                                       |  | 8   |
| 17/2 | 50019-205 | 80298 | . BUSHING, TOP .....  |  | 4   |
| 18/2 | 50141-702 | 80298 | . STUD, DRIVE .....   |  | 4   |
| 19/2 | 50019-207 | 80298 | . INSERT, RAIL.....   |  | 4   |
| 20/2 | 86034-007 | 80298 | . BUMPER.....   |  | 4   |
| 21/2 | 50141-701 | 80298 | . PLATE, SNUBBER .....  |  | 4   |
| —    | 50141-201 | 80298 | . WEATHERPROOF COVER, GRAY .....                                |  | 1   |
| —    | 88000-027 | 80298 | . NAMEPLATE, UII .....  |  | 1   |
| —    | 88001-047 | 80298 | . LABEL, UII .....  |  | 4   |
| —    | 86038-013 | 80298 | . STRAP, VELCRO .....   |  | 2   |
| —    | 80018015  | 80298 | . PALLET BRIDGE ASSY. MOUNTING RIVETS ...                       |  | 18  |

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Enter Part Number, NSN, or Keyword

ISO Group Defense and Aerospace  
Supply Chain Partner  
A Dynatech International Company

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## SEARCH NOW

For Parts Worldwide

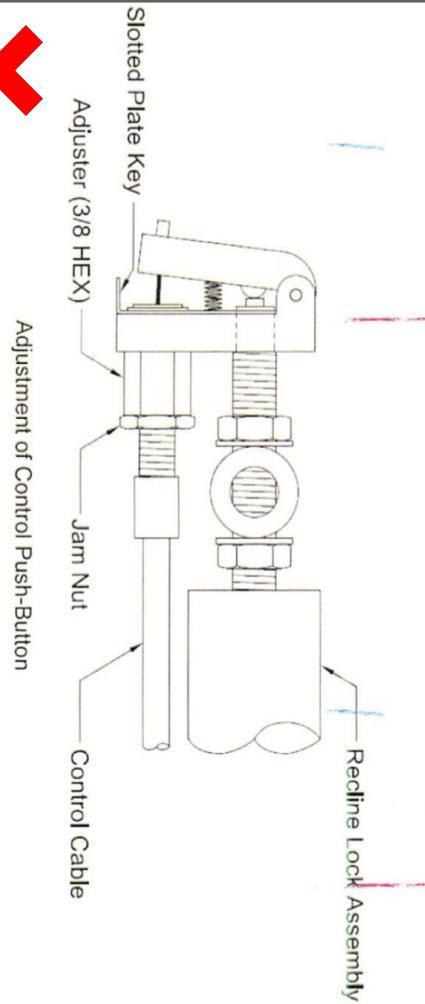
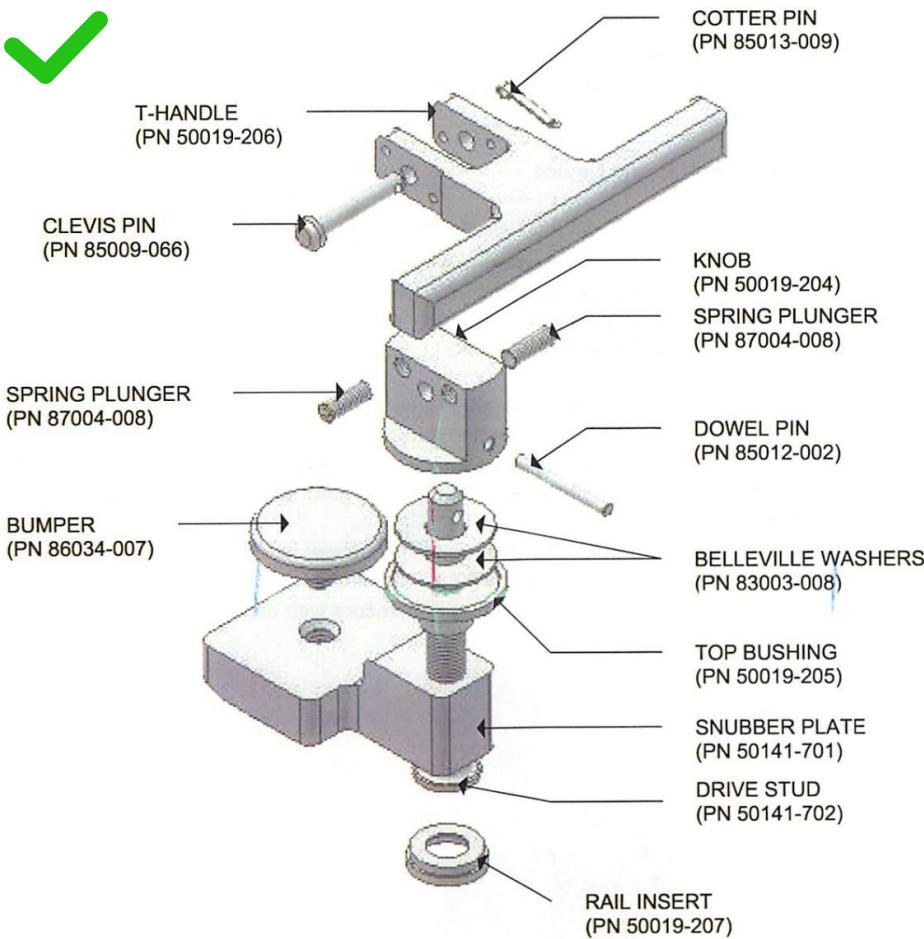
>> Search results for: seat pouch

NSN SEARCH RESULTS

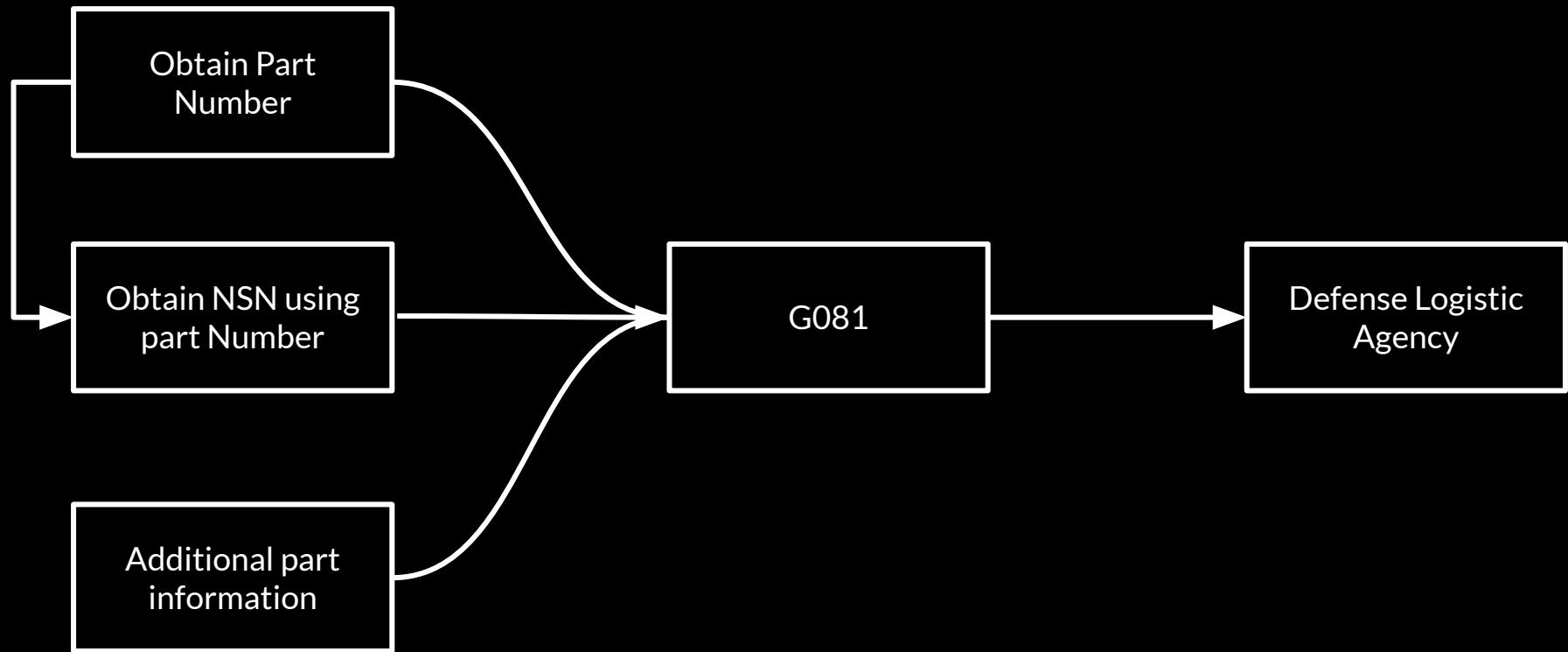
| National Stock Number (NSN)     | Description              |
|---------------------------------|--------------------------|
| 2540-99-787-2836, 2540997872836 | WIRE,POUCH,SEAT          |
| 1680-01-390-6984, 1680013906984 | POUCH,CREW SEAT AIRCRAFT |
| 1680-01-527-2192, 1680015272192 | POUCH,CREW SEAT AIR      |
| 1680-01-530-1917, 1680015301917 | POUCH,CREW SEAT AIRCRAFT |
| 1680-01-530-1918, 1680015301918 | POUCH,CREW SEAT AIRCRAFT |
| 1680-01-552-9022, 1680015529022 | POUCH,TROOP SEAT         |

N41 ▶

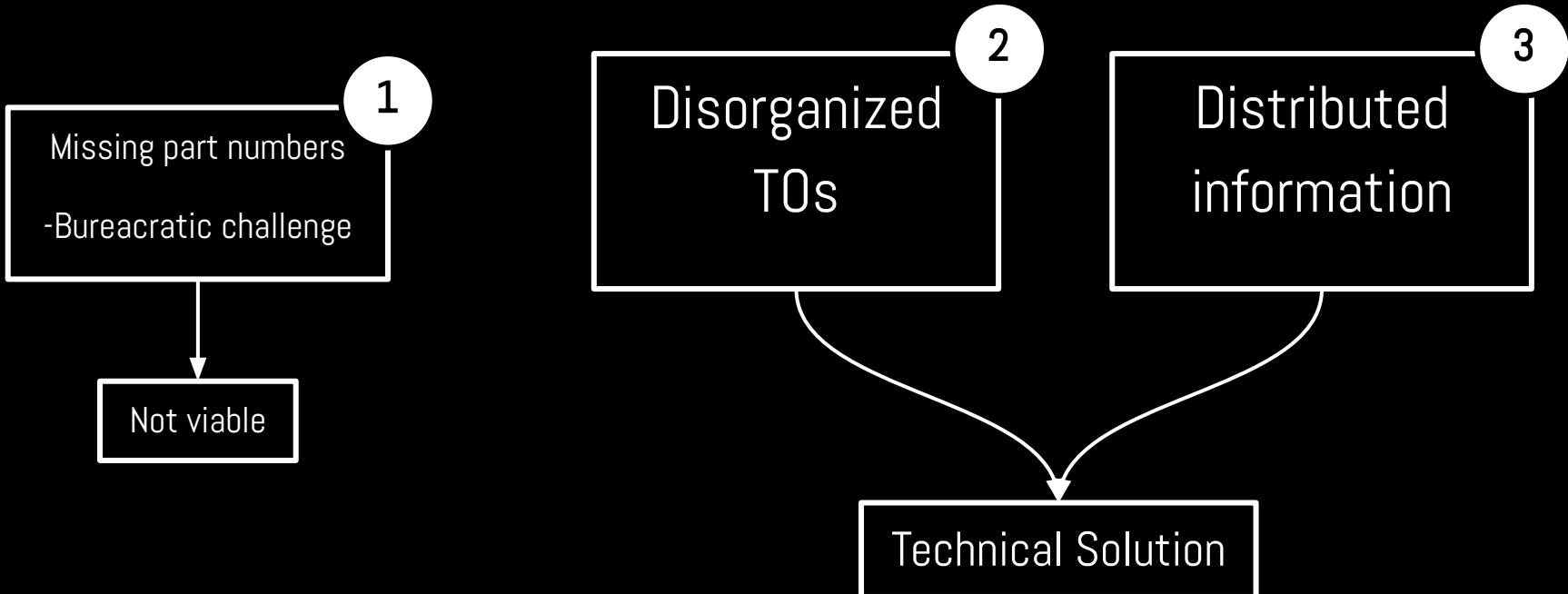
RELATED INVENTORY



# Parts Ordering Process



# Problem statement



# The Mission Model Canvas

Mission/Problem description:

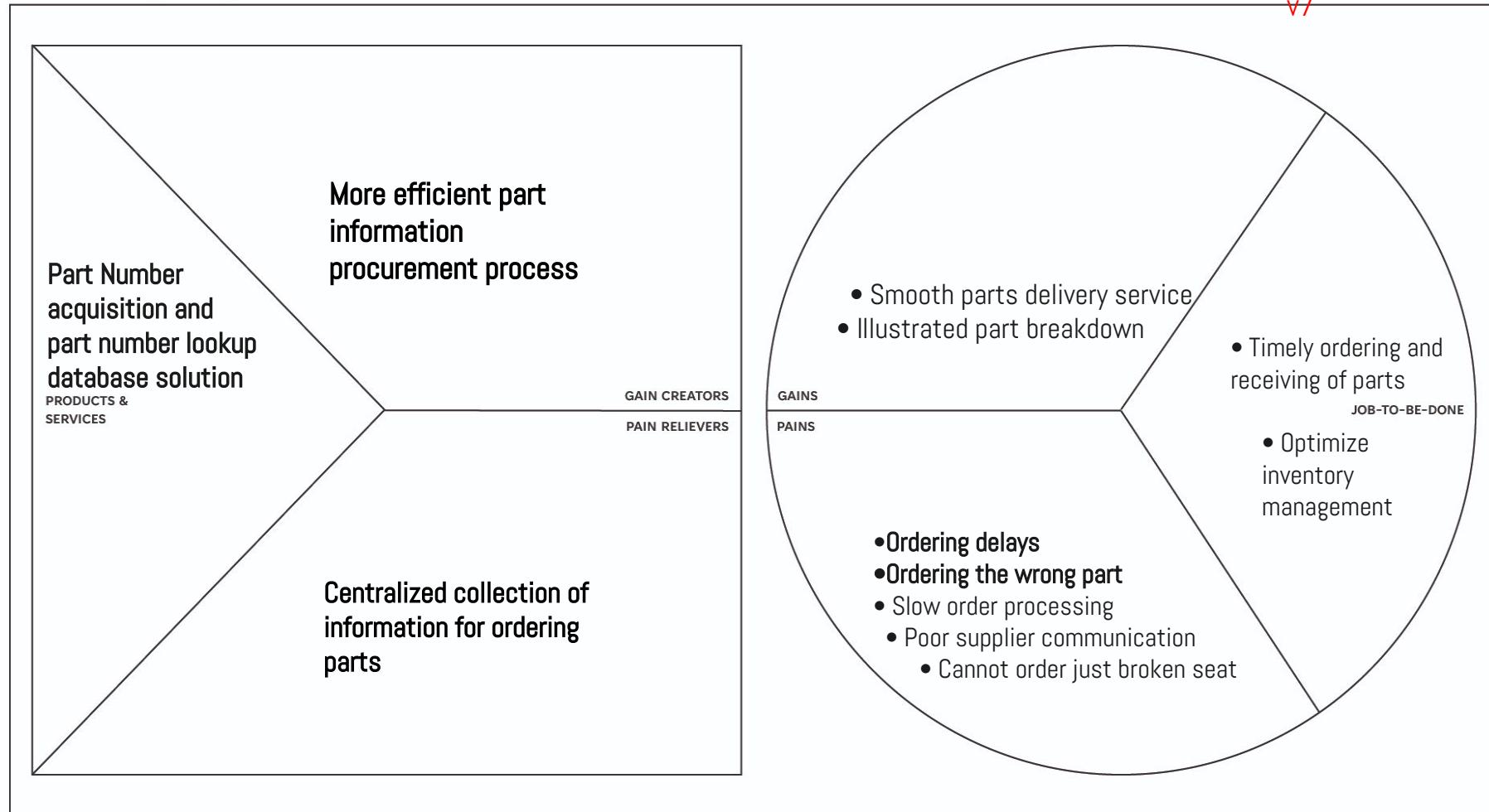
Designed by:

Date:

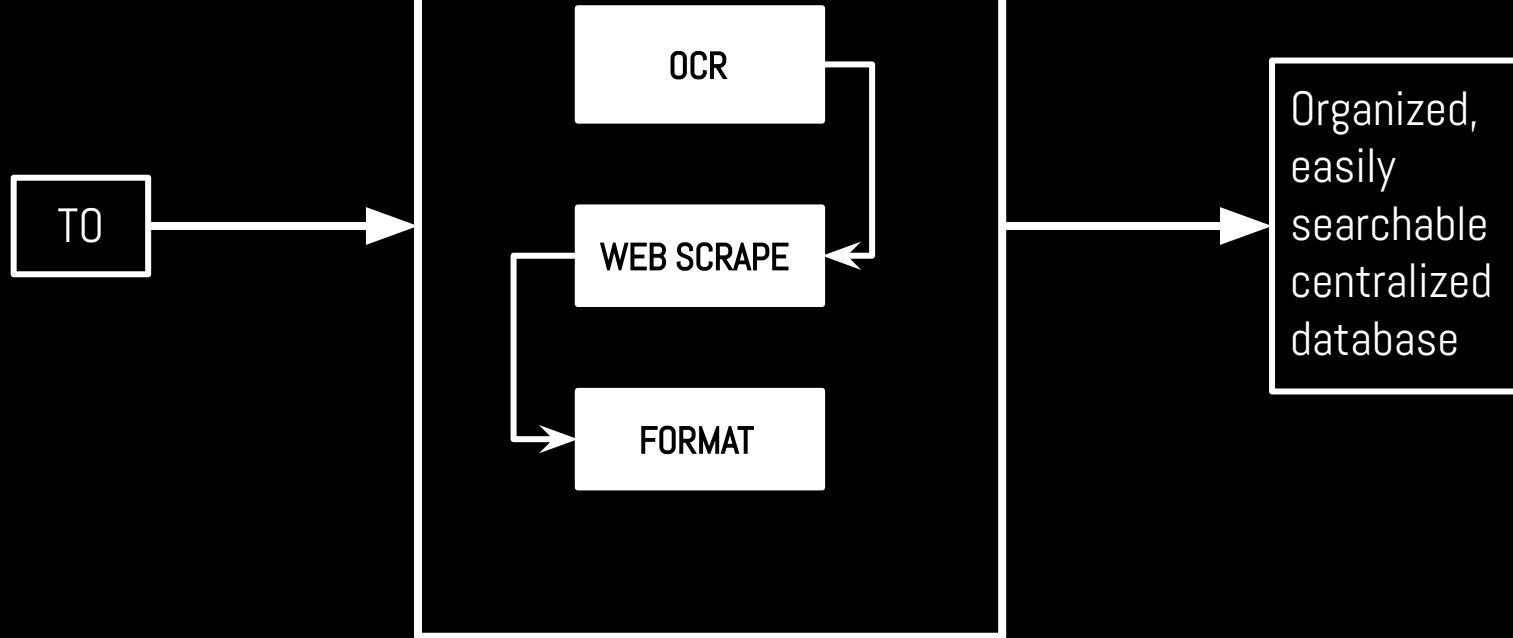
Version: v7

|  |  |   |  |  |
|--|--|---|--|--|
| <b>Key Partners</b><br><br>USAF,<br><b>KC-46 Crew</b><br><b>Chief,</b><br><b>Defense</b><br><b>Logistics</b><br><b>Agency</b> ,<br>Air Logistics<br>Centers | <b>Key Activities</b><br><br><b>Improve part number acquisition</b>   | <b>Value Propositions</b><br><br>Simplify the collection of PN and NSN to order parts<br><br>Improving maintenance efficiency<br><br>Enhance inventory management<br><br>Improve part delivery reliability | <b>Buy-in &amp; Support</b><br><br>KC-46 Crew | <b>Beneficiaries</b><br><br>Logistics Squadron,<br><b>Dash 21</b> , Flight Crew, Boom Operator,<br><b>Crew Chiefs</b> |
|  | <b>Key Resources</b><br><br>10 man and 12 man Seat Pallet TO<br><br><b>G081 ordering system</b><br><br>ISO group website<br><br>NSN Now | <b>Deployment</b><br><br>Web server / Local execution  |  |  |
| <b>Mission Budget/Cost</b><br><br>Web server hosting costs  |  | <b>Mission Achievement/Impact Factors</b><br><br>Streamline parts ordering process, ensure on demand delivery 3rd party parts  |  |  |

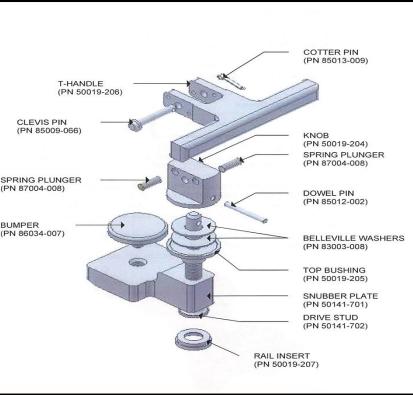
# Value proposition canvas.



# Our solution



| FIGURE & INDEX# | PART NUMBER | CAGE  | DESCRIPTION  | UOC | UPA |
|-----------------|-------------|-------|--|-----|-----|
| 7.1             | 50472-001   | 80298 | 12-PASSENGER PALLET ASSEMBLY SYSTEM                          | REF |     |
| 1/1             | 50141-008   | 80298 | 88" WIDE KC-46A ASSEMBLY, PALLET, SEAT,                      | 1   |     |
| 2/1             | 50144-702   | 80298 | PALLET BRIDGE PLATE  | 1   |     |
| 3/1             | 86004-037   | 80298 | HINGE, PALLET BRIDGE   | 1   |     |
| 4/1             | 81903-002   | 80298 | SCREW, MACHINE, HINGE, MACH, FLAT HEAD                       | 18  |     |
| 5/1             | 82193-002   | 80298 | #10-32 CENTERLOCK NUT  | 18  |     |
| 6/1             | 60419-708   | 80298 | SEAT TRACK COVER, AFT  | 8   |     |
| 7/1             | 60419-707   | 80298 | SEAT TRACK COVER, FWD  | 4   |     |
| 8/1             | 80069-002   | 80298 | SEAT TRACK COVER, MIDDLE                                     | 3   |     |
|                 |             |       | REFER TO VENDOR LITERATURE FOR COMPLETE SEATING PART NUMBERS |     |     |
|                 |             |       | SEAT TRACK LEFT/RIGHT  |     |     |
|                 |             |       | REFER TO VENDOR LITERATURE FOR COMPLETE SEATING PART NUMBERS |     |     |
| 9/1             | 80069-003   | 80298 | PIN, COTTER  | 3   |     |
|                 |             |       | PISTON, PLUNGER  |     |     |
| 10/2            | 85013-009   | 80298 | PIN, DOOR  | 4   |     |
| 11/2            | 85012-002   | 80298 | T-HANDLE   | 4   |     |
| 12/2            | 50019-205   | 80298 | T-CLEVE  | 4   |     |
| 13/2            | 85009-066   | 80298 | BUMPER   | 4   |     |
| 14/2            | 50019-204   | 80298 | KNOB   | 8   |     |
| 15/2            | 87004-008   | 80298 | SPRING, PLUNGER  | 8   |     |
| 16/2            | 83003-008   | 80298 | WASHER, BELLEVILLE   | 8   |     |
| 17/2            | 50019-205   | 80298 | STUD, DRIVE  | 4   |     |
| 18/2            | 50019-203   | 80298 | INSERT, RAIL   | 4   |     |
| 19/2            | 50019-207   | 80298 | BUMPER   | 4   |     |
| 20/2            | 86034-007   | 80298 | PLATE, SNUBBER   | 4   |     |
| 21/2            | 50141-701   | 80298 | WATERPROOF COVER, GRAY                                       | 1   |     |
| —               | 88000-021   | 80298 | NAMEPLATE, UR  | 1   |     |
| —               | 88001-047   | 80298 | LABEL, ULL   | 4   |     |
| —               | 86038-013   | 80298 | STRAP, VELCRO  | 2   |     |
|                 |             |       | PALLET BRIDGE ASSY, MOUNTING RIVETS                          | 18  |     |
|                 |             |       | ITEMS NOT SHOWN  |     |     |



OCR

```
C:\Users\matthew\PyCharmMiscProject\.venv\Scripts\pythontest.exe
C:\Users\matthew\PyCharmMiscProject\OCRTest.py
Image 1 Part Numbers: ['86075-290', '50144-702', '86004-037', '81000-006', '82018-002', '60419-708', '60419-707', '80069-003', '85013-009', '85012-002', '50019-204', '83003-008', '50019-205', '50019-207', '86034-007', '50141-701', '50141-201', '88000-027', '88001-047', '86038-013']
Image 2 Part Numbers: ['85013-009', '85009-066', '50019-204', '87004-008', '87004-008', '85012-002', '86034-007', '83003-008', '50141-701', '50141-702', '50019-207']
```

Web Scrape

Format

| PROBLEMS   | OUTPUT | DEBUG CONSOLE | TERMINAL | PORTS |
|--|--------|---------------|----------|-------|
| Part Number: 86004-037   |        |               |          |       |
| • NSM: NSM 1560-01-692-7137, 1560016927137 - Name: HINGE,AIRCRAFT        |        |               |          |       |
| Part Number: 81000-006   |        |               |          |       |
| • NSM: NSM 5305-01-567-4312, 5305015674312 - Name: SCREW,MACHINE         |        |               |          |       |
| Part Number: 82198-002   |        |               |          |       |
| No NSN entries found.  |        |               |          |       |
| Part Number: 60419-708   |        |               |          |       |
| • NSM: NSM 1680-01-692-7195, 1680016927195 - Name: TRACK,AIRCRAFT SEAT   |        |               |          |       |
| Part Number: 50141-701   |        |               |          |       |
| • NSM: NSM 1680-01-692-7190, 1680016927190 - Name: TRACK,AIRCRAFT SEAT   |        |               |          |       |
| Part Number: 80069-002   |        |               |          |       |
| • NSM: NSM 1680-01-692-9684, 1680016929684 - Name: SEAT,AIRCRAFT         |        |               |          |       |
| Part Number: 88000-003   |        |               |          |       |
| • NSM: NSM 1680-01-692-9688, 1680016929688 - Name: SEAT,AIRCRAFT         |        |               |          |       |
| Part Number: 85013-009   |        |               |          |       |
| • NSM: NSM 5315-01-567-4316, 5315015674316 - Name: PIN,COTTER            |        |               |          |       |
| Part Number: 85012-002   |        |               |          |       |
| • NSM: NSM 5315-01-567-4314, 5315015674314 - Name: PIN,STRAIGHT,HEADLESS |        |               |          |       |
| Part Number: 50019-204   |        |               |          |       |
| • NSM: NSM 5335-01-567-2788, 5335015672788 - Name: KNOB                  |        |               |          |       |
| Part Number: 50141-700   |        |               |          |       |
| • NSM: NSM 5318-01-692-940-7437, 53180994407437 - Name: WASHER,LOCK      |        |               |          |       |
| • NSM: NSM 5318-01-692-940-7437, 53180994407437 - Name: WASHER,LOCK      |        |               |          |       |

# Questions