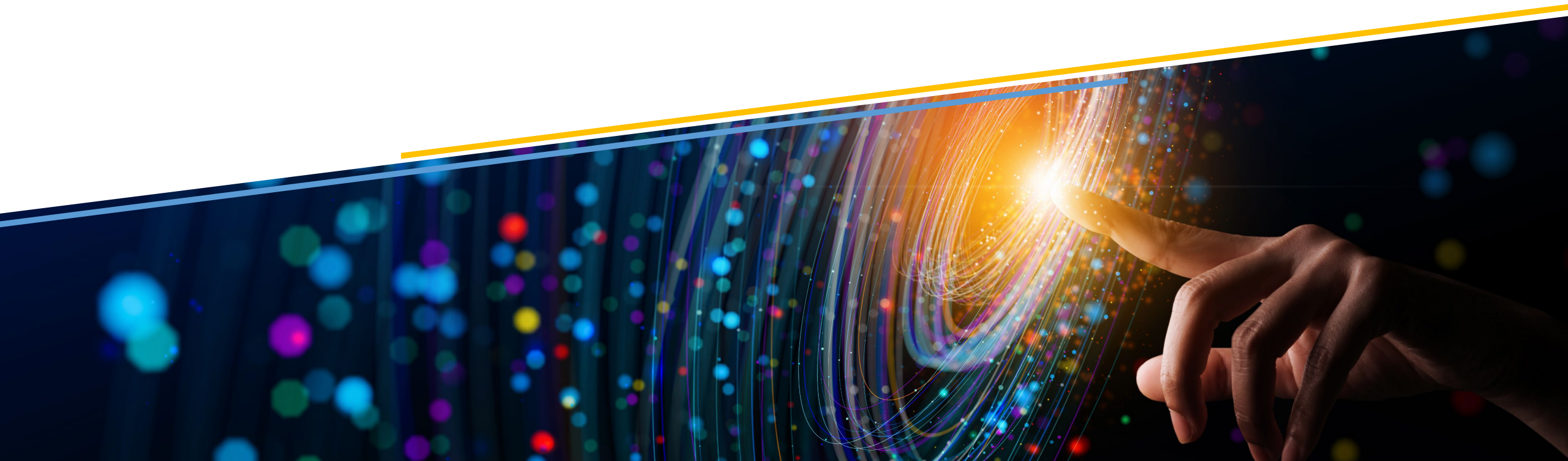
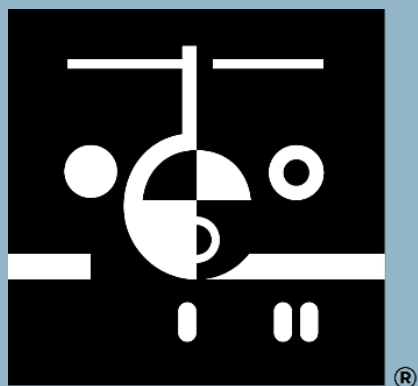


The Duncan Aviation Search

Aaron Lane

May 2, 2023





DUNCAN
AVIATION

Who is Duncan Aviation?

Owned and operated by the Duncan family since our founding in 1956, Duncan Aviation is well-known and respected by operators, manufacturers and other service providers worldwide for our quality, value, timeliness, communication, work ethic and expertise.

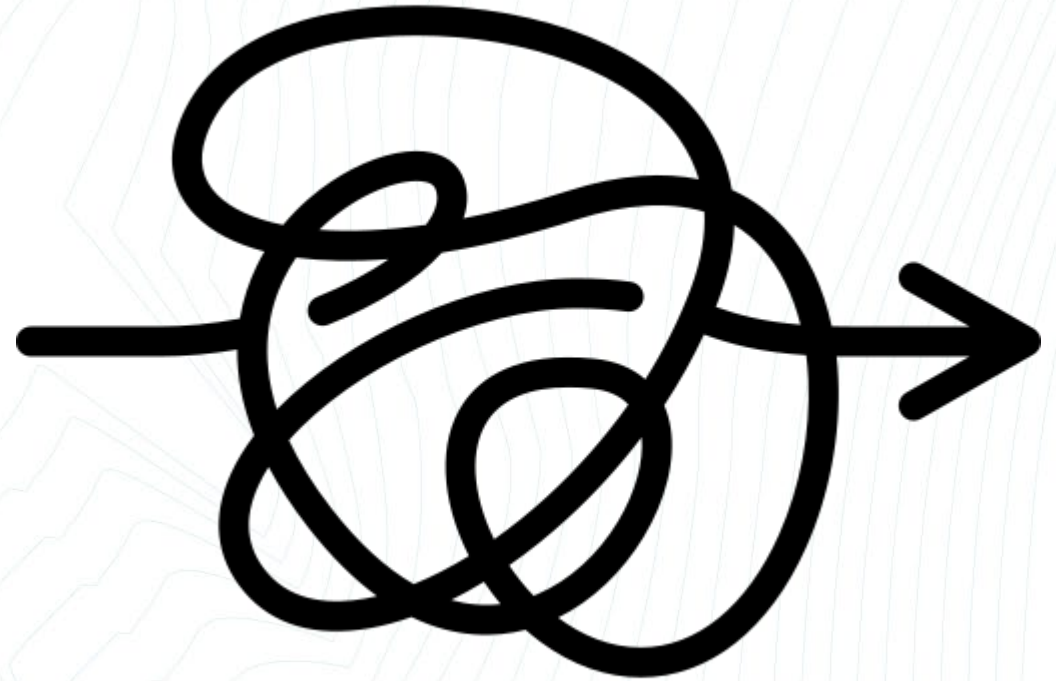
Our premier aircraft services—delivered on time—include airframe & engine maintenance, avionics installations, interior & paint completions/modifications, avionics/instrument/accessory repairs & overhauls and parts support.

WELCOME



Delivering an “Experience. Unlike any other.”

- Why Duncan Aviation needs a new PDM
- The following is what Duncan Aviation does and the hurdles we’re trying to overcome



Type and Press Enter

☰ List All 🗺 Hierarchy Tree 📌 Pin Document ⚙ Actions

Title	Owner
1125 ""Astra"" Engine/Airframe Ground Run	Pamela Ste
1205 Air Outlet	Norman T M
1205 Air Outlet Disassembly / Reassembly Procedures	Norman T M
123B & 125B, Fluke, Scopemeter	Rick Wilen
14 CFR 43 Appendix E Form	Pamela Ste
2021 401k Annual Notice	Elizabeth S
2023 Benefits Guide - BTL, PVU, SAT	Elizabeth S
2023 Benefits Guide - LNK	Elizabeth S
2023 KKD Scholarship Application	Elizabeth S
2023 KKD Scholarship Information and FAQ's	Elizabeth S

All Items

Folder

- Default Folder
- ▶ Duncan Documents Database
 - ▶ Best Practices
 - ▶ Calibration Services
 - ▶ Company Manuals
 - ▶ FAA Approved/Accepted Proce
 - Forms
 - Form Instructions
 - ▶ Job Descriptions & Evaluation
 - ▶ Policies & Procedures
 - ▶ Non-Duncan Documents
 - Tags & Stickers
 - ▶ Help
 - ▶ 135 Operator Information

Type

- Customer Service
- DMS
- Engineering
- Environmental
- FBO Services
- Finance

All Items

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- Type**
- Customer Service
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- Engineering
- Environmental
- FBO Services
- Finance

List All
Hierarchy Tree
Pin Document
Actions

Title	Owner
LANAA - AS400 for Windows Ver: 81989	

File Edit View Command Actions Report Window Help

Alt-1 Inventory Alt-2 Messages Alt-3 Sales Alt-4 Price Item Search Alt-5 STC Alt-6 Document Inventory Alt-7 Work

Volo Aviation LLC Squawks Sub Sheet () WO Review/Time Turnover Log Book Equipment Item Ap

Sqk#: Sqk Disc: Sqk Status: Faxed: <all>

Shop: <all> Sub Disc: Sub Status: <all> Team Leader:

Needs sign off: <all> Sqk Note: Sub CA: Request Aircraft Move DAK-G

TRK Tied	Attachme...	Sqk/Sub	Status	Discrepancy
		1	Opn	ALTO Aviation Cadence CMS
		1	Lck	Remove existing CMS and furnish Install new ALTO Technologies Cadence CMS Systems
		2	Lck	Remove Alto Audio Amplifier
		3	Lck	Engineering and Certification
		4	RRC	Modify Cabinet for Mounting new switches
		5	Lck	Sand and Polish cabinets for New Switches
		2	Opn	CONVERT 50HZ 230v TO 60HZ 115V - ESTIMATE ONLY OF 2022 PRICING Order:8K9C3,
		3	Opn	GOGO AVANCE L5
		4	Opn	ALI Up/Downwash Cabin LED Lighting
		5	Opn	DPI HD Moving Map
		1	Lck	Remove existing Moving map system and install a new moving map system from DPI
		2	Lck	Engineering Support
		6	Opn	(FWD Cabin Monitor) LCD Monitor Rosen Bulkhead (22") Widescreen Smart HI-DEF Display
		7	Opn	ROSEN MEDIA INPUT PANEL - AUX INPUT TO FWD MONITOR
		8	Opn	OUTLET DUAL USB 5 VDC
		9	Opn	ALTO Aviation Cadence CMS (REV 1)(INCLUDES CABIN AUDIO UPGRADE)
		10	Opn	AIRSHOW 400 -> 500 Upgrade
		11	Opn	Airshow App Enablement
		12	Opn	LED AIRCRAFT LIGHTING INTL (ALI) (VANITY, GALLEY, AISLE LIGHTING)

Squawk Invoice Sub-squawk Tasks/Inspections Tracking Labor Parts Sold Parts On Order Financial FAA 8130-3 Customer Com

Squawk: Sub#: Invoice: Shop:

Type and Press Enter

List All Hierarchy Tree Pin Document Actions

- All Items**
- Folder
 - Default Folder
 - Duncan Documents Database
 - Best Practices
 - Calibration Services
 - Company Manuals
 - FAA Approved/Accepted Pro
 - Forms
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LANAA - AS400 for Windows Ver: 81989

File Edit View Command Actions Report Window Help

Alt-1 Inventory Alt-2 Messages Alt-3 Sales Alt-4 Price Item Search Alt-5 STC Alt-6 Document Inventory Alt-7 Work

Volo Aviation LLC Squawks Sub Sheet (0) WO Review/Time Turnover Log Book Equipment Item Ap

Sqk#: Shop: Sub Disc: Sqk Status: Faxed: <all>

Needs sign off: Sqk Note:

TRK Tied	Attachme...	Sqk/Sub	Status
		1	Opn
		1	Lck
		2	Lck
		3	Lck
		4	RRC
		5	Lck
		2	Opn
		3	Opn
		4	Opn
		5	Opn
		1	Lck
		2	Lck
		6	Opn
		7	Opn
		8	Opn
		9	Opn
		10	Opn
		11	Opn
		12	Opn

Squawk Invoice Sub-squawk Tasks/Inspections

Squawk: Sub#: Invoice: Shop:

ENOVIA SmarTeam

File Edit Actions View Tree Tools BOM Workflow Window Help

Main PLM Add-Ins

Baseline Admin

ST00832MC-T LearJet 35A Cockpit Cooling System Modification A.0 FOLD-015040 12/12/2022 10:47

- Compliance / Conformity Data A.0 FOLD-015041 12/12/2022 10:48
 - *DO NOT USE* CONFORMITY PLAN A.4 CERTDOC-015350 12/16/2022 10:18
 - PSCP - Cockpit Cooling Mod C.2 CERTDOC-015330 12/12/2022 11:04
- Design Data A.0 FOLD-015042 12/12/2022 10:48
 - AIR DISTRIBUTION DUCT MODIFICATION A.1 DWG-011783 04/06/2023 14:24
 - COCKPIT COOLING FAN SYSTEM WIRING DIAGRAM A.11 DWG-011496 12/15/2022 11:27
 - COCKPIT COOLING SYSTEM BLOCK DIAGRAM A.4 DWG-011494 12/14/2022 10:07
 - COCKPIT SWITCH INSTALLATION A.1 DWG-011784 04/06/2023 15:43
 - ELECTRICAL LOAD CHANGE A.3 CERTDOC-015794 03/28/2023 14:23
 - EMC Ground Test Plan A.7 CERTDOC-015659 02/28/2023 11:06
 - Ground Test Plan A.6 CERTDOC-015657 02/28/2023 10:42
 - ICA Cockpit Cooling System Modification A.1 CERTDOC-015824 04/05/2023 10:20
- LH Cabinet A.0 FOLD-015268 04/06/2023 06:31
 - LH CABINET A.0 S/WA-023604 04/06/2023 06:51
 - Master Document List A.9 CERTDOC-015331 12/12/2022 11:08
- RH Cabinet A.0 FOLD-015269 04/06/2023 06:32
- Project Support A.0 FOLD-015043 12/12/2022 10:48
- Substantiation Data A.0 FOLD-015044 12/12/2022 10:49
 - Electrical Equipment Installation Analysis A.0 CERTDOC-015835 12/08/2022 14:09

Profile Card Links Notes Revision Viewer

DUNCAN AVIATION.

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TCDS Make: Learjet Inc [Select]

TCDS Model: 35A [Select]

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Serial Number: []

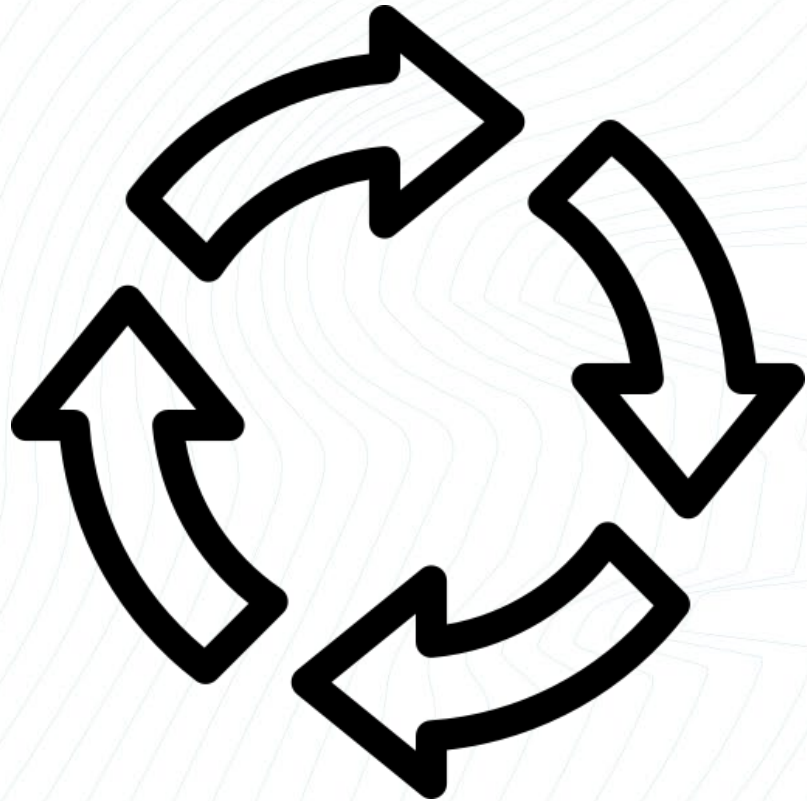
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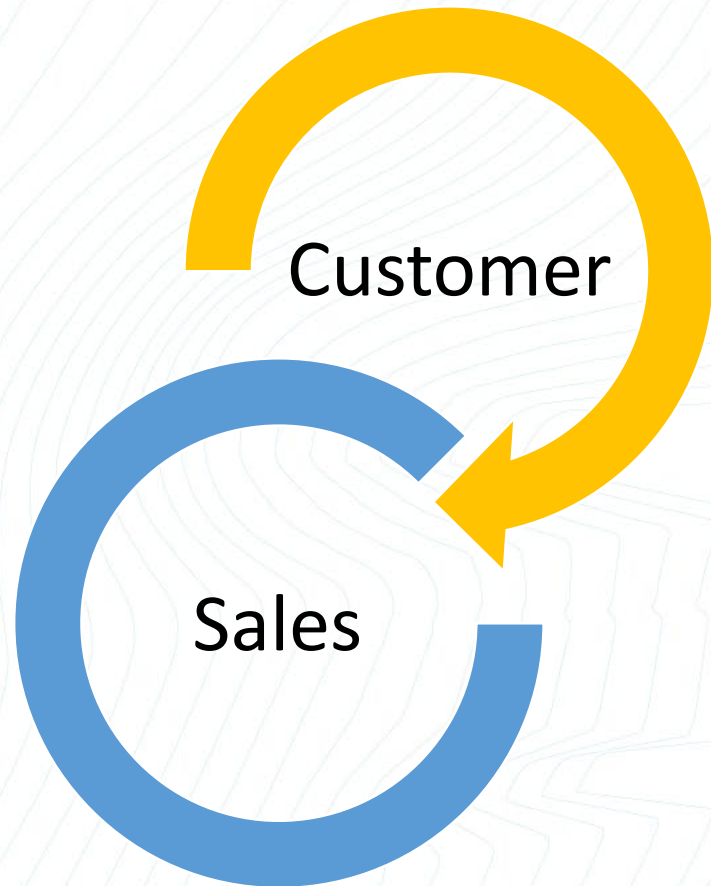
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TYPICAL Design & Certification Cycle





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RFP

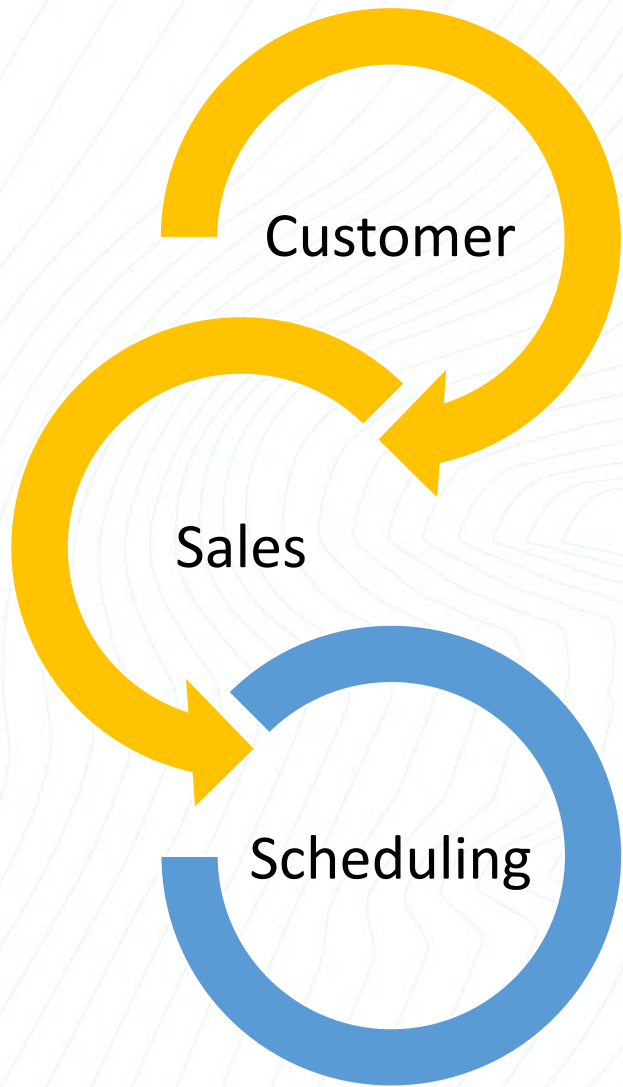
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RFP

ODA

MRO



RFP

TRAP

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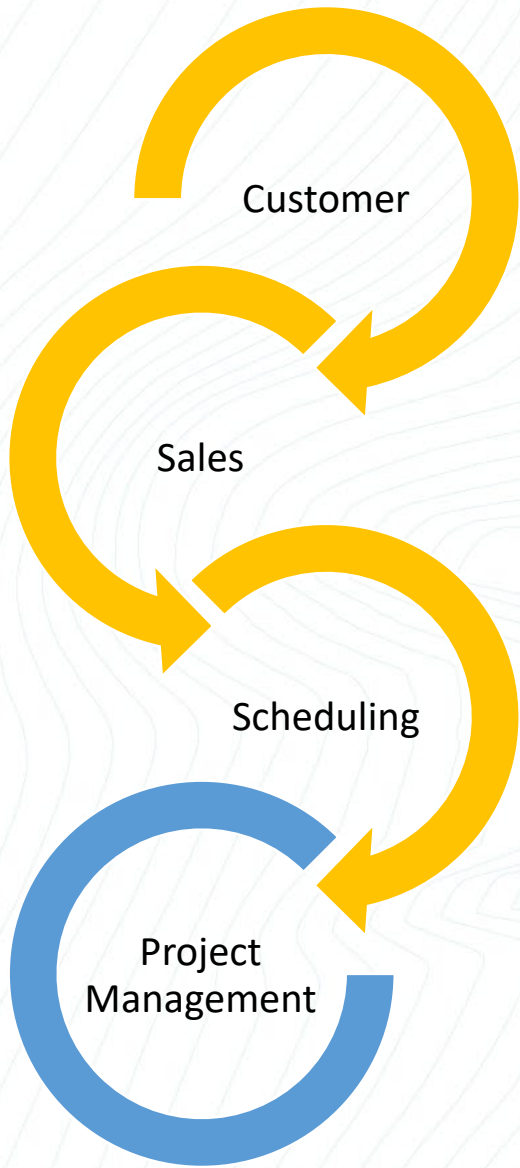
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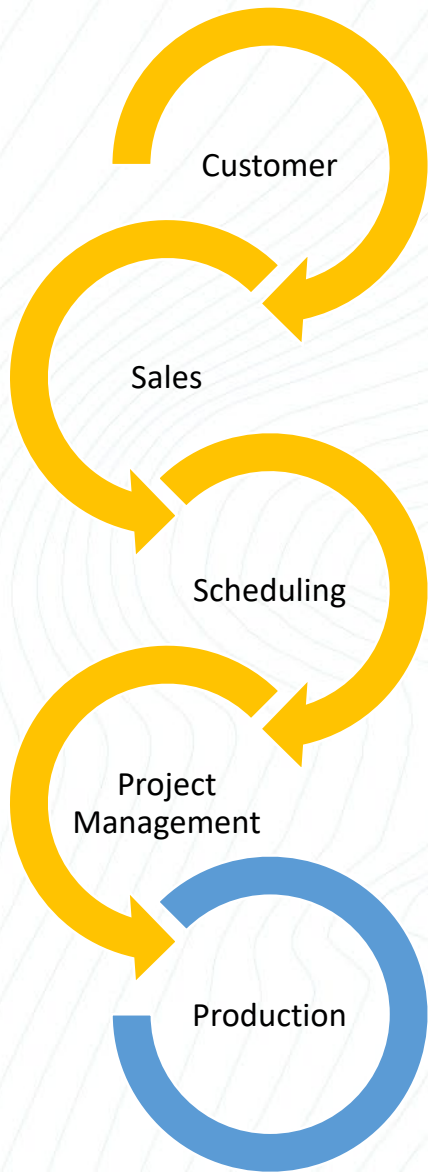
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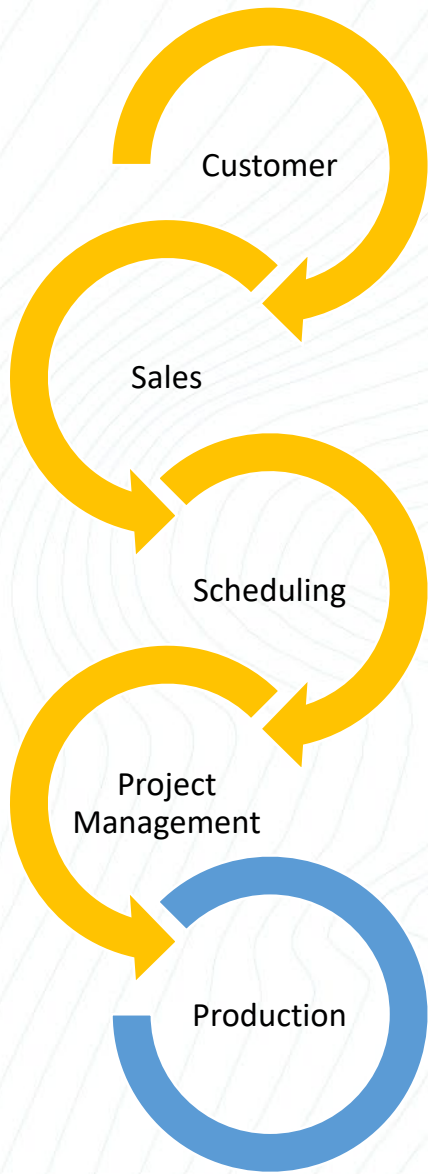


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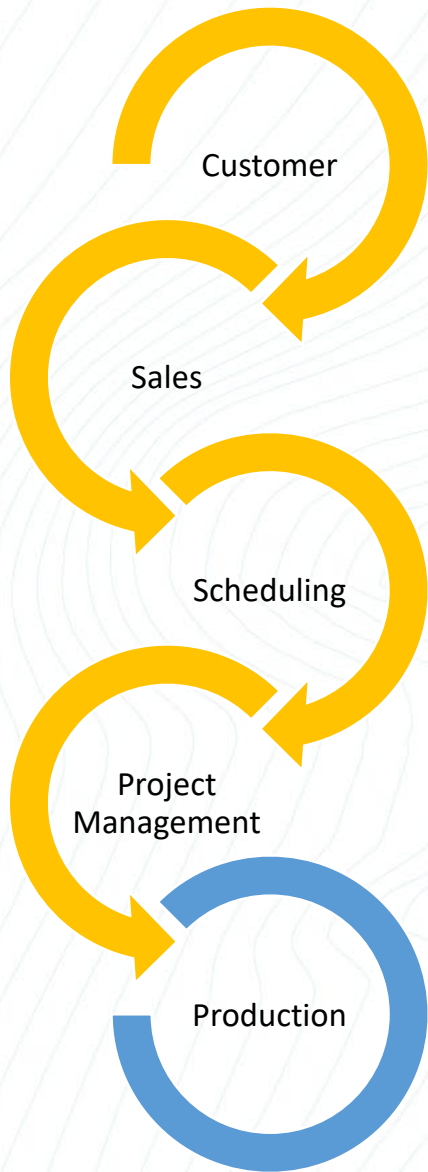
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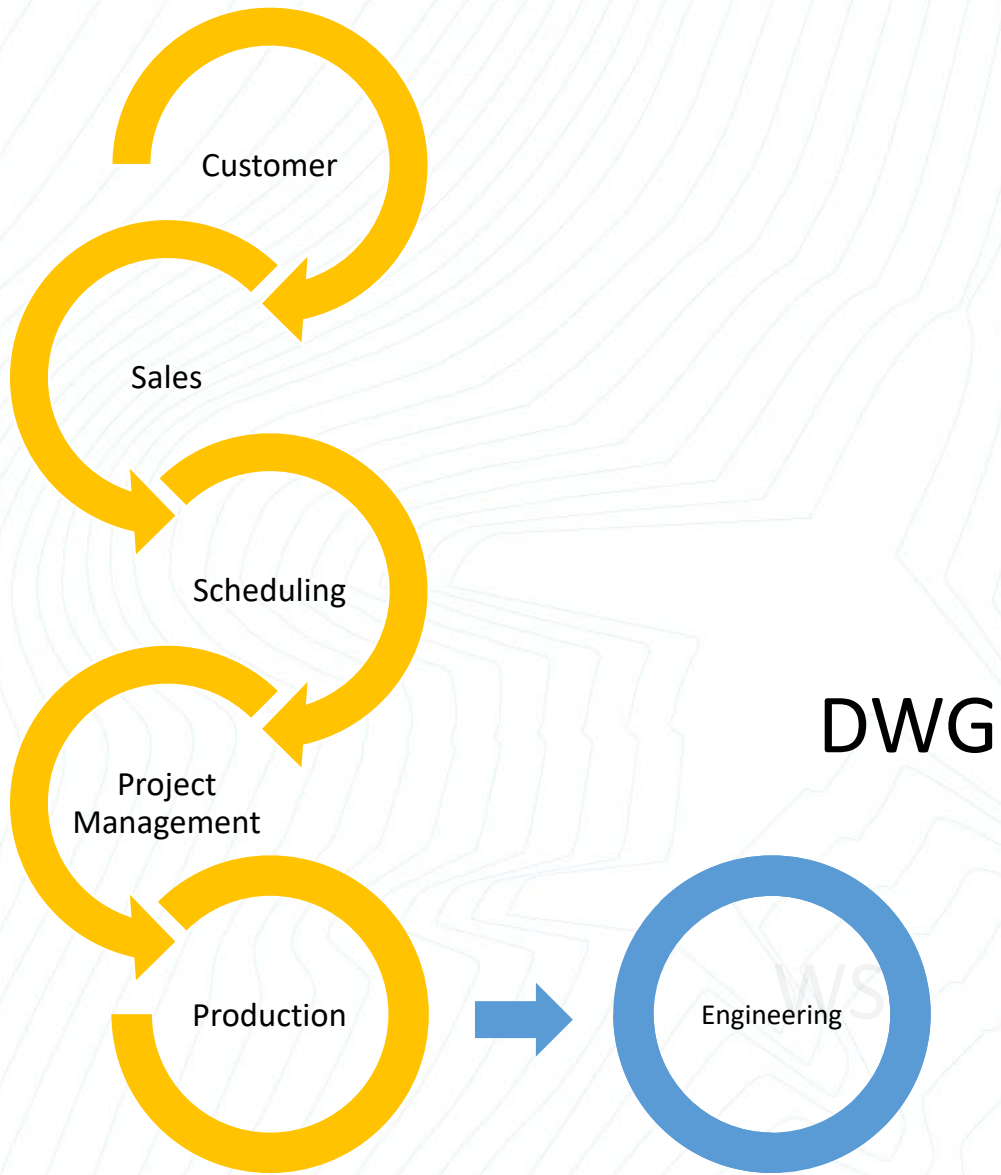
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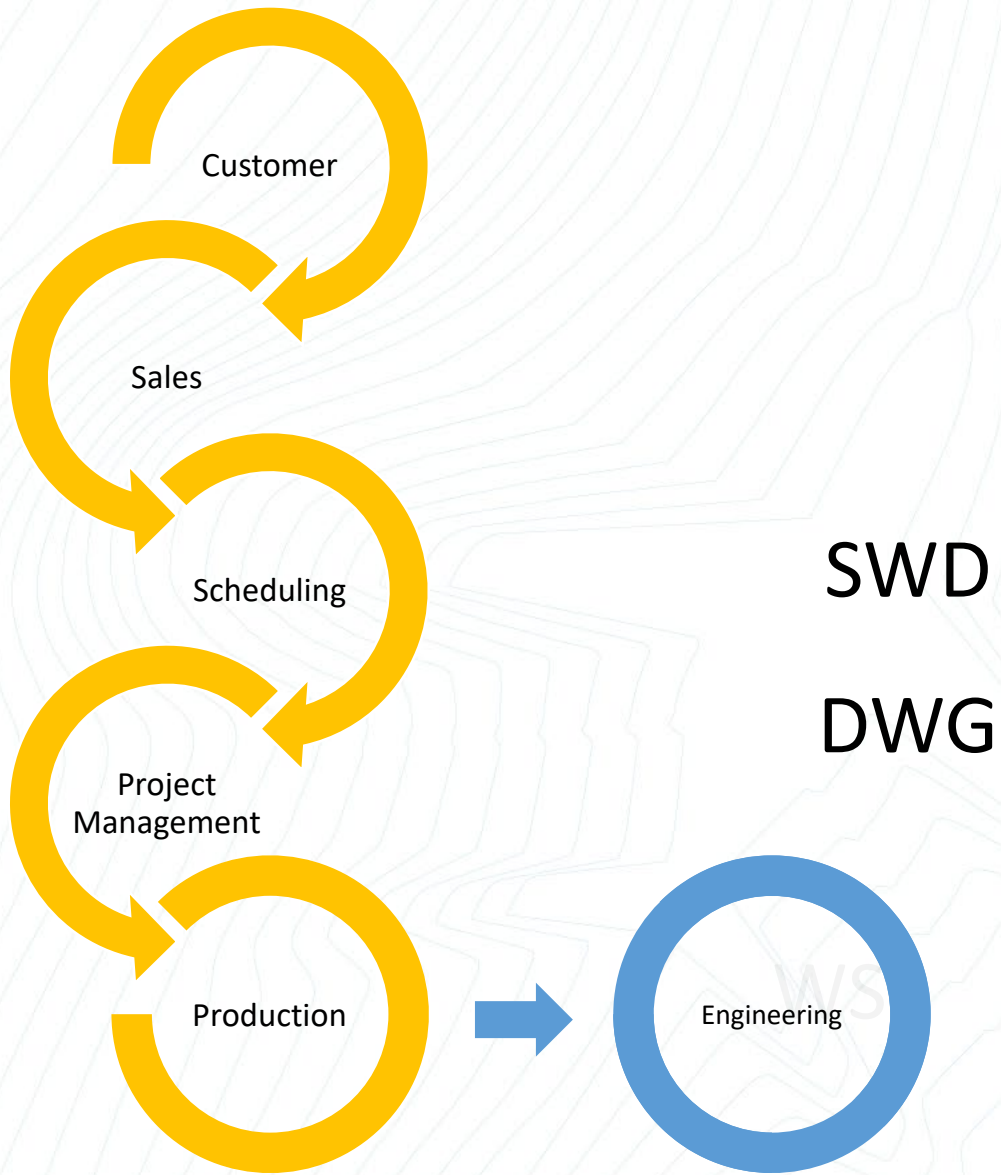


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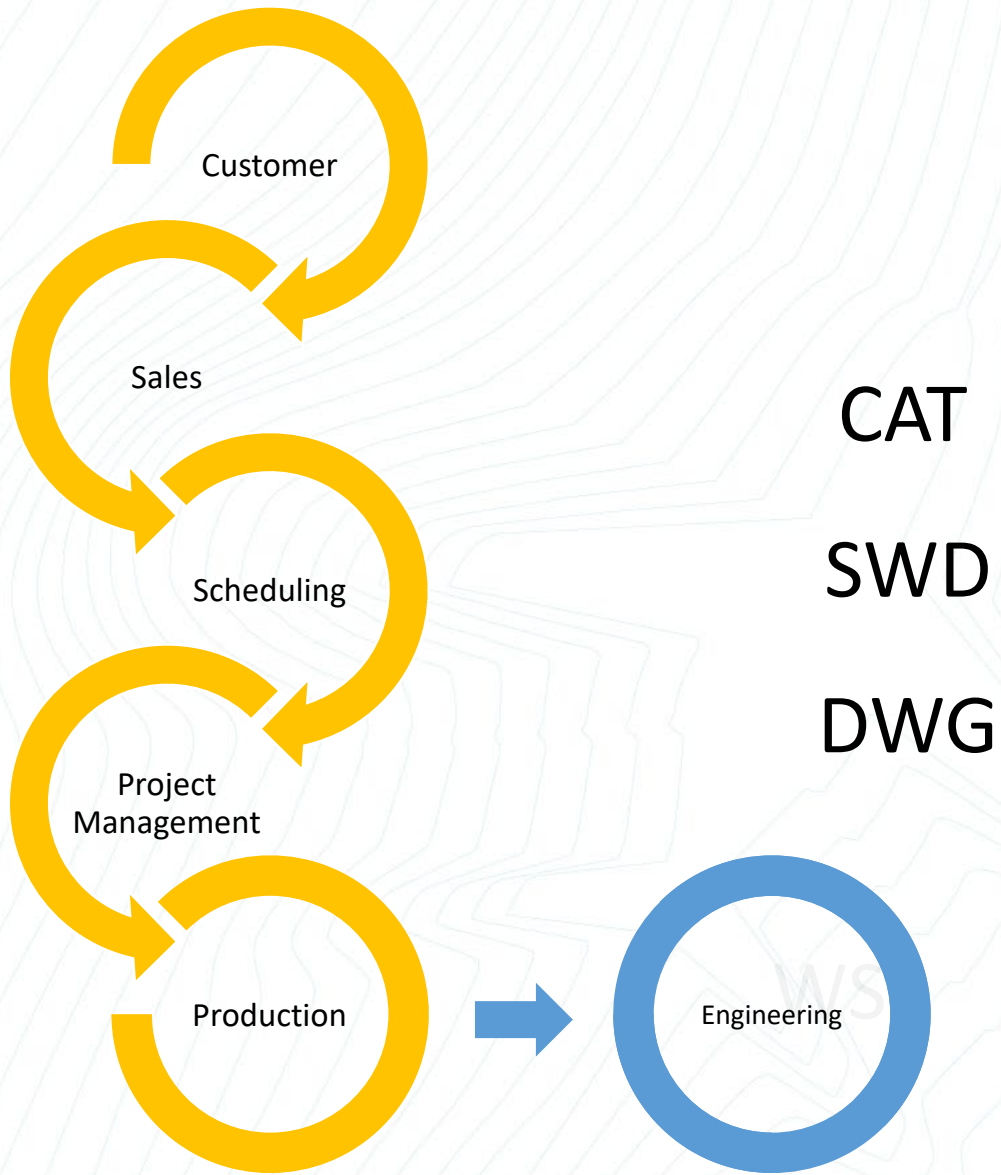
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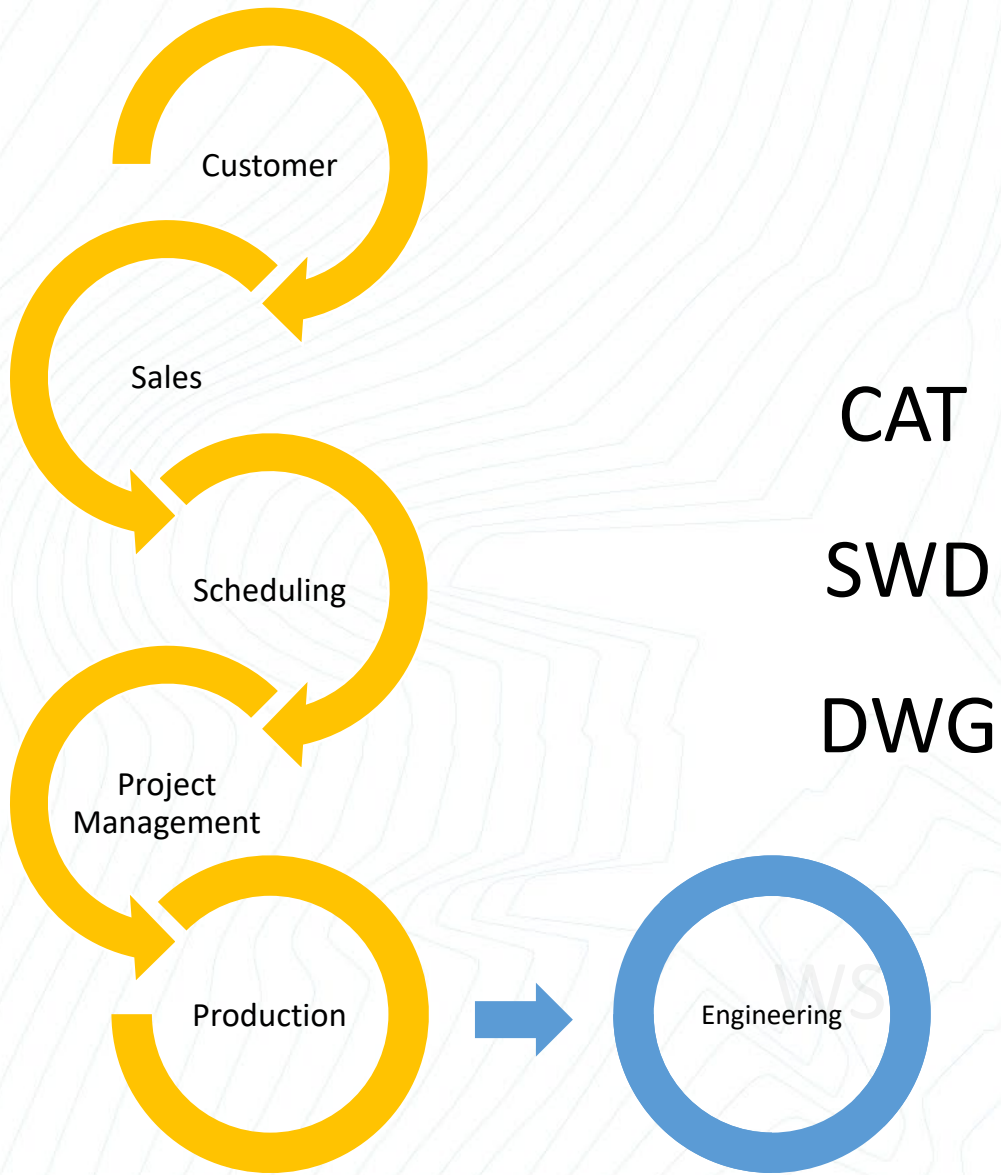
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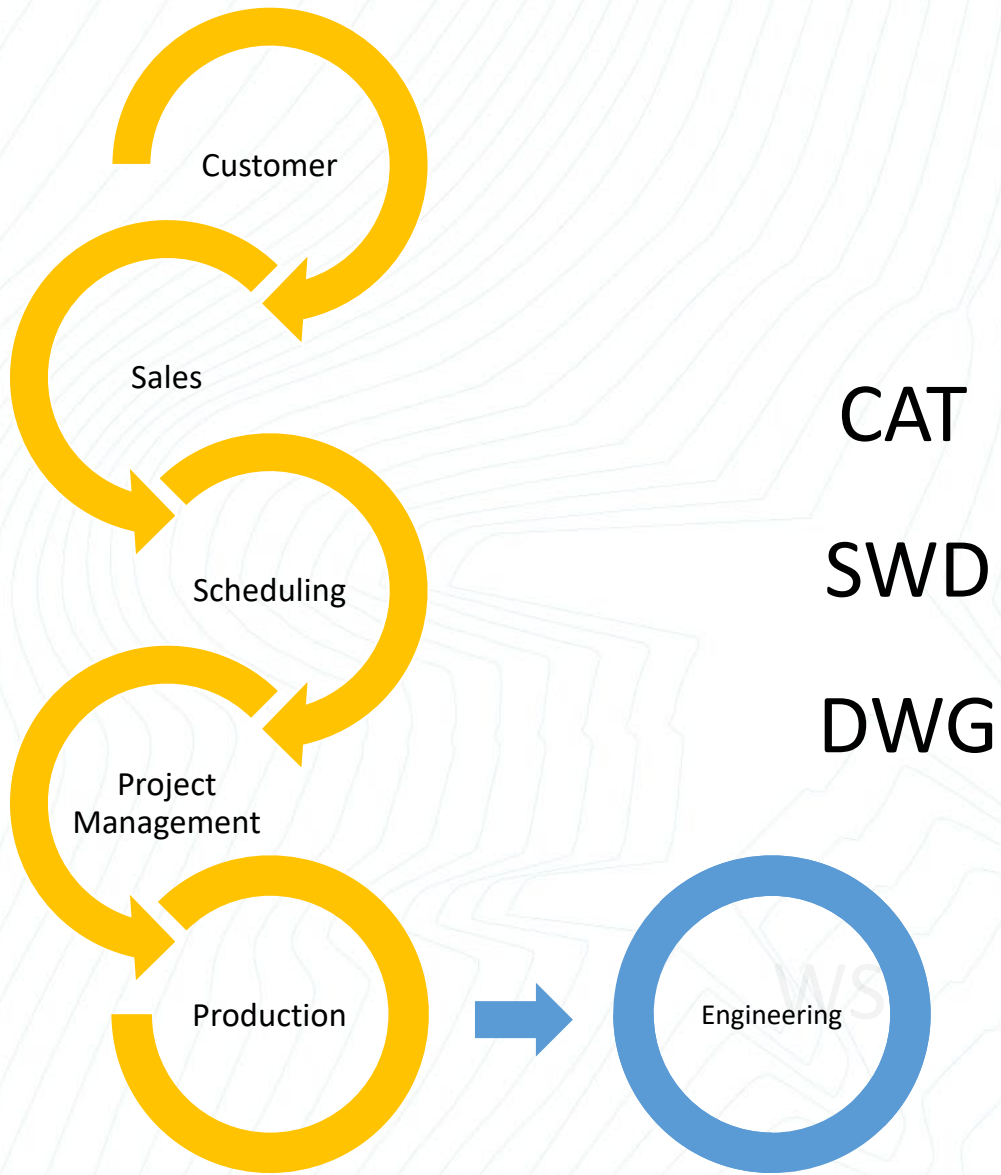
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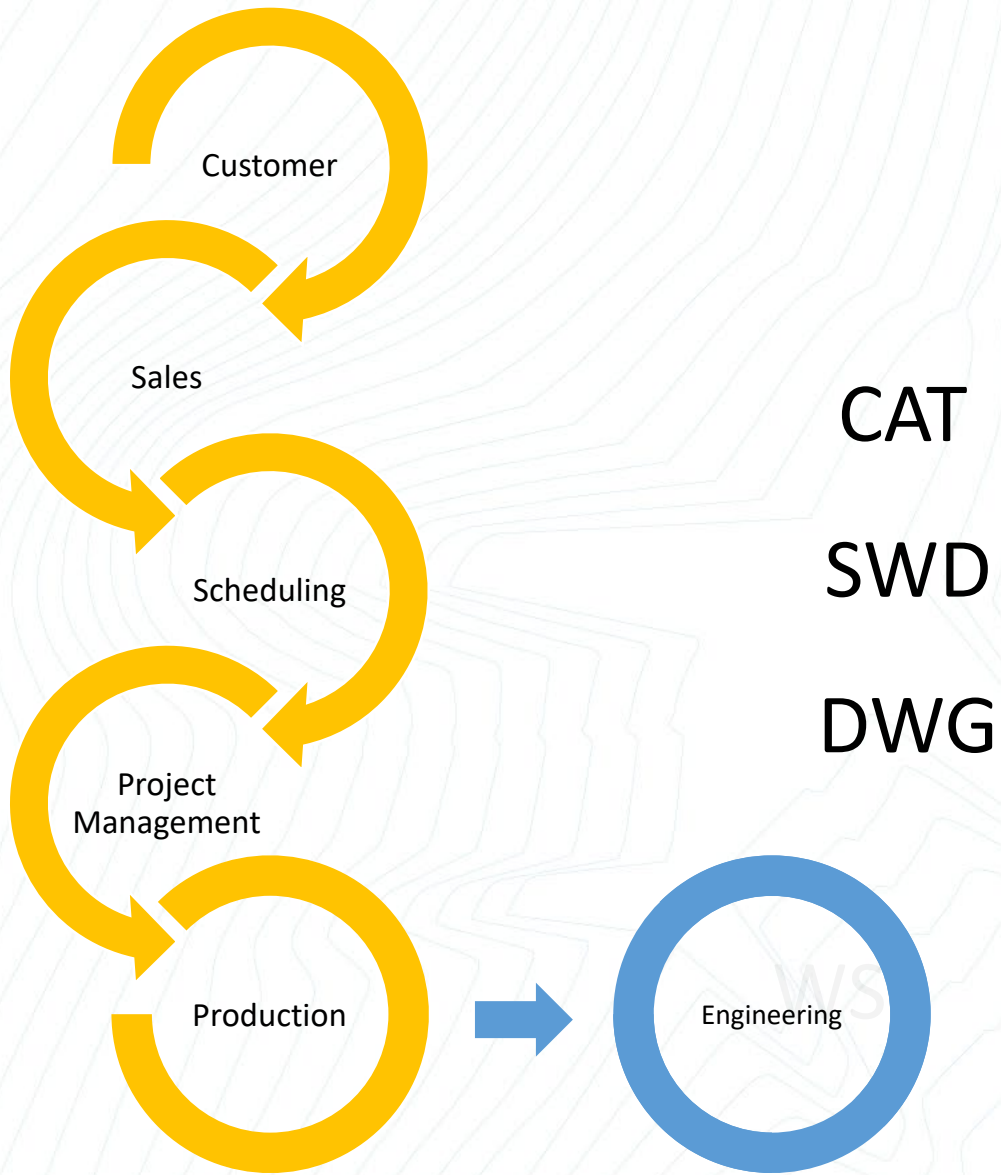
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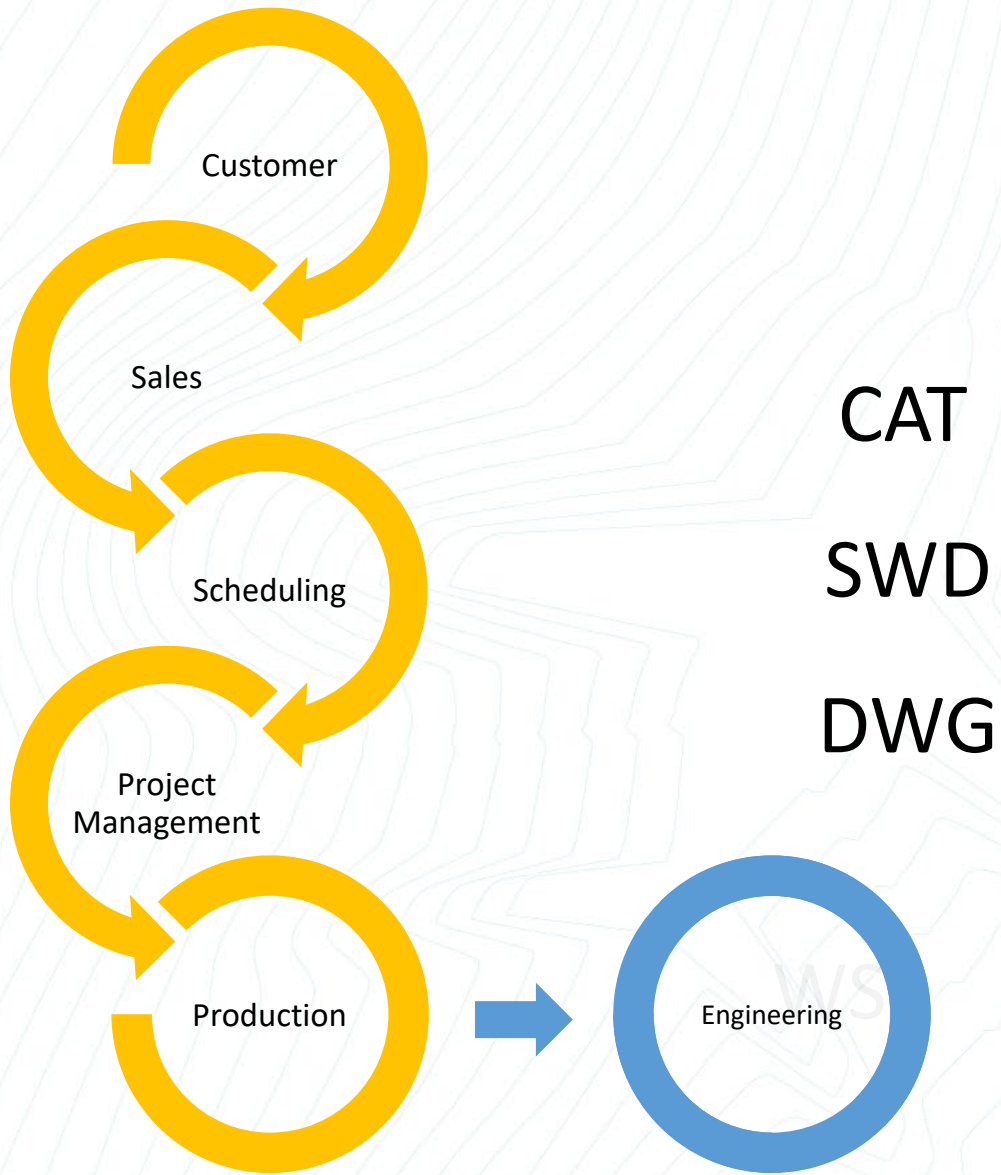
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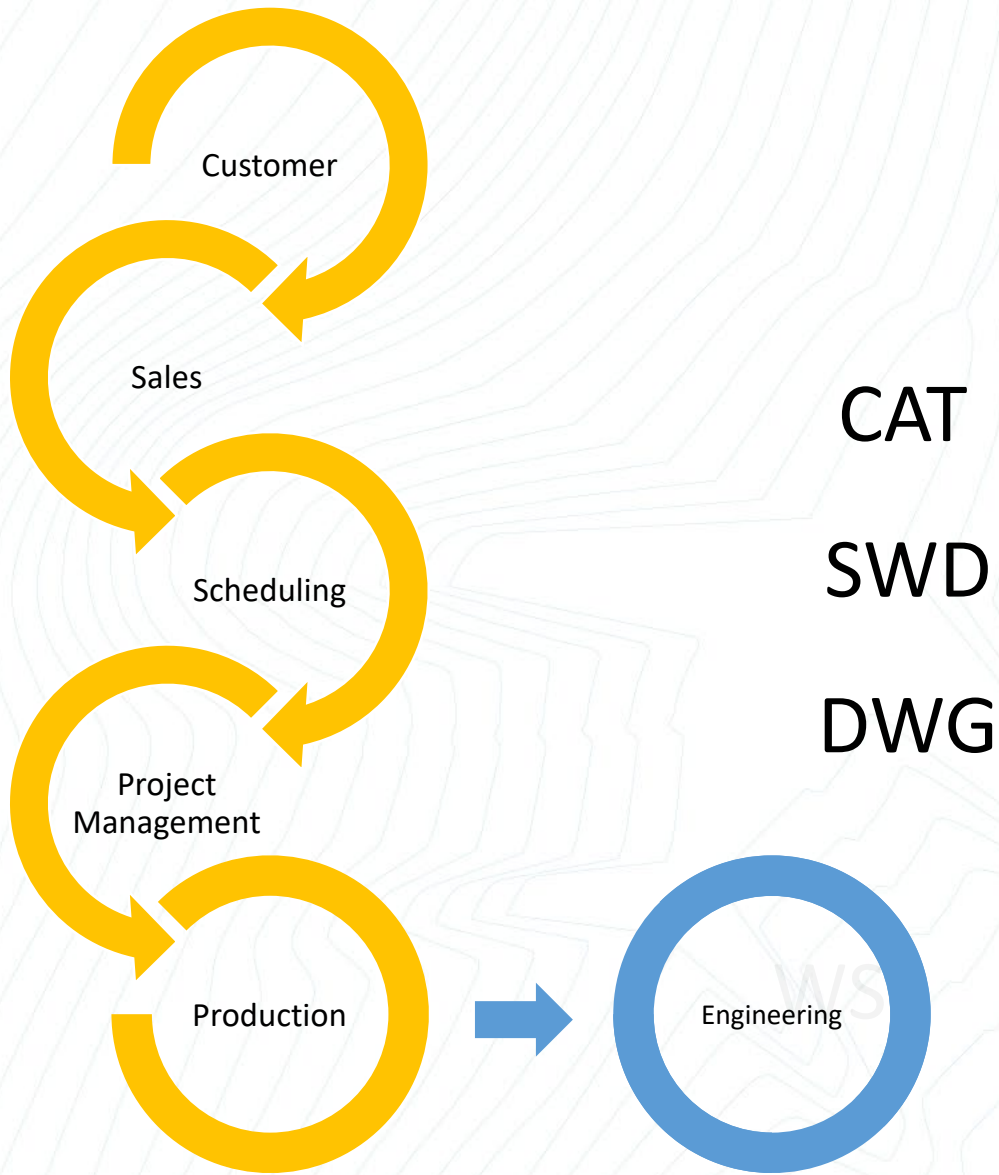


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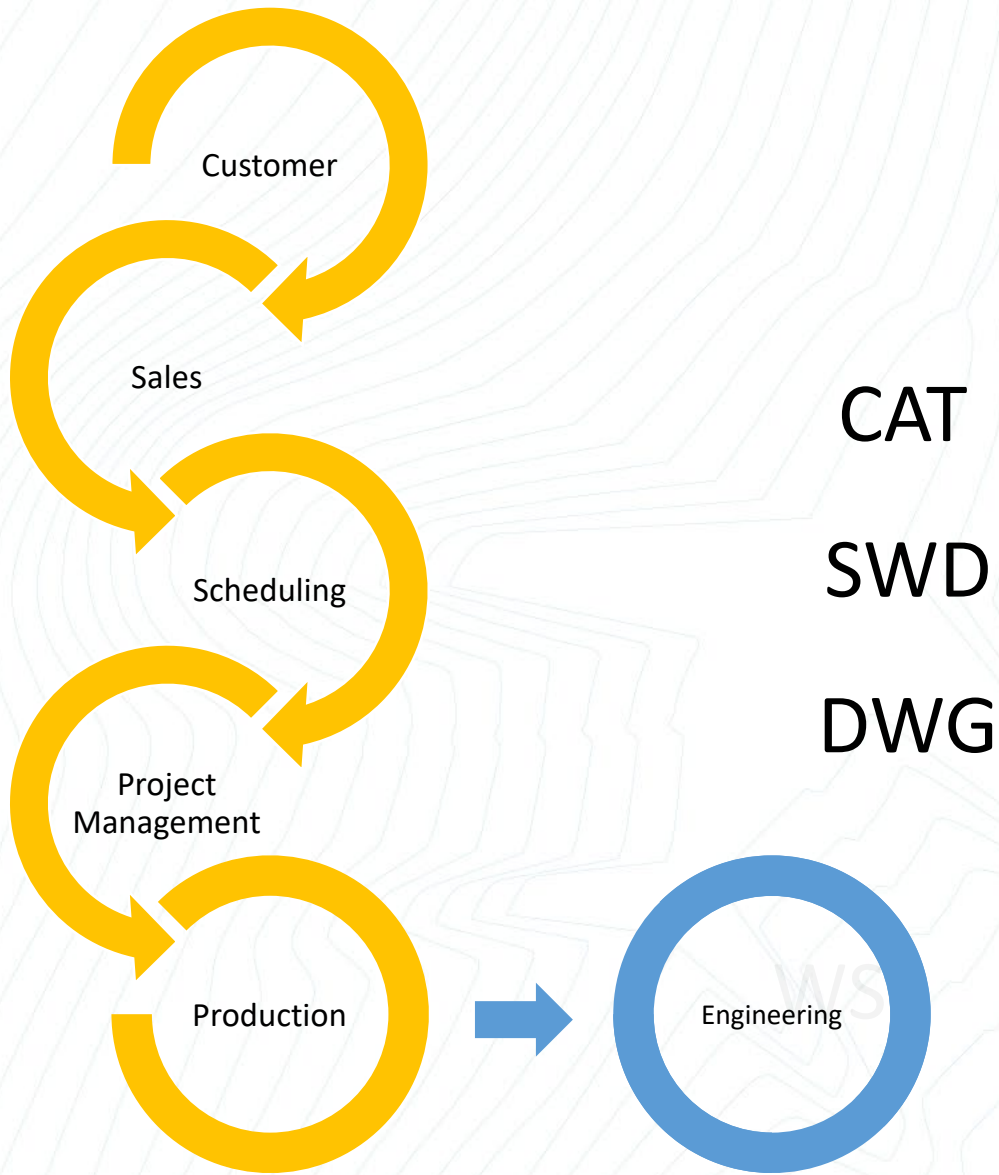
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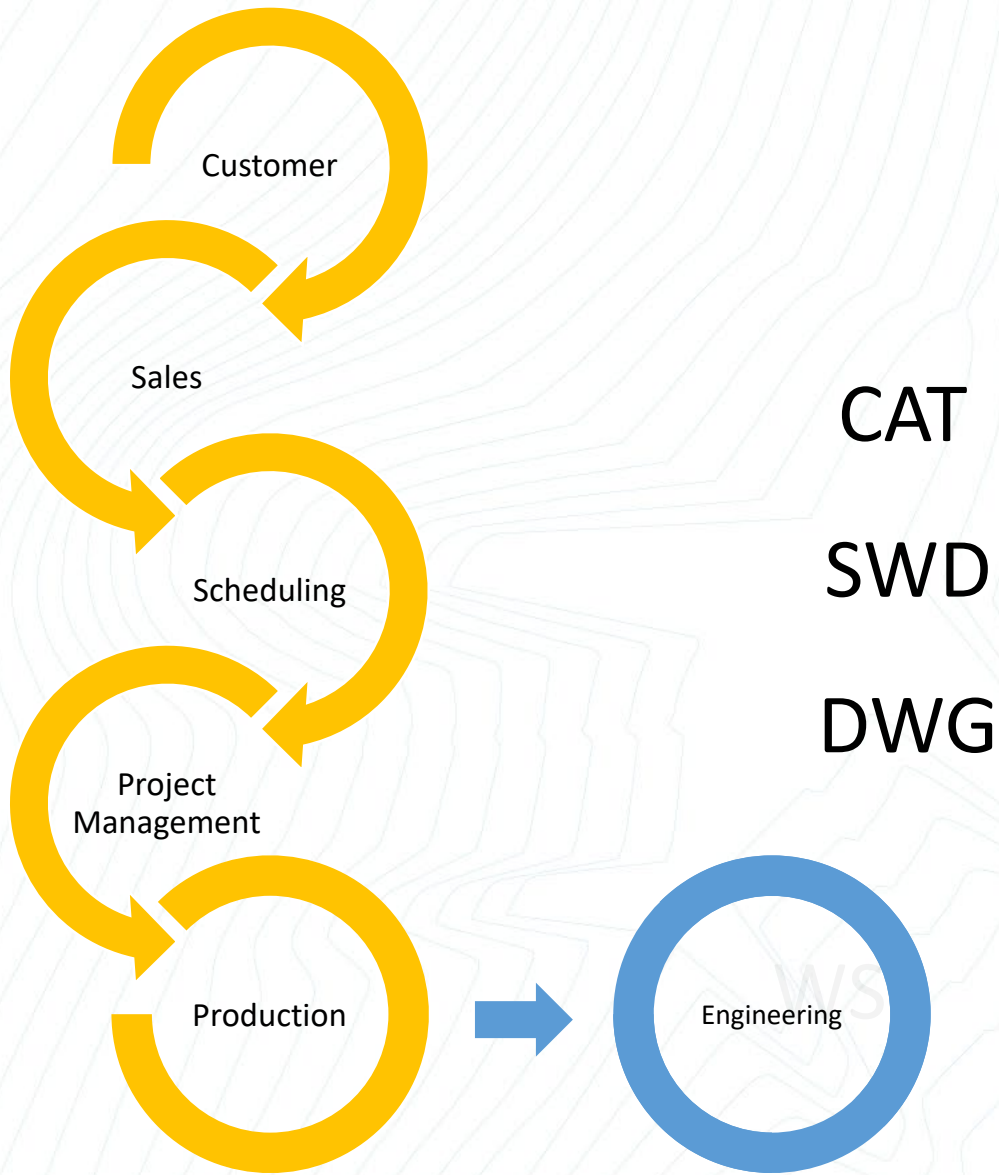
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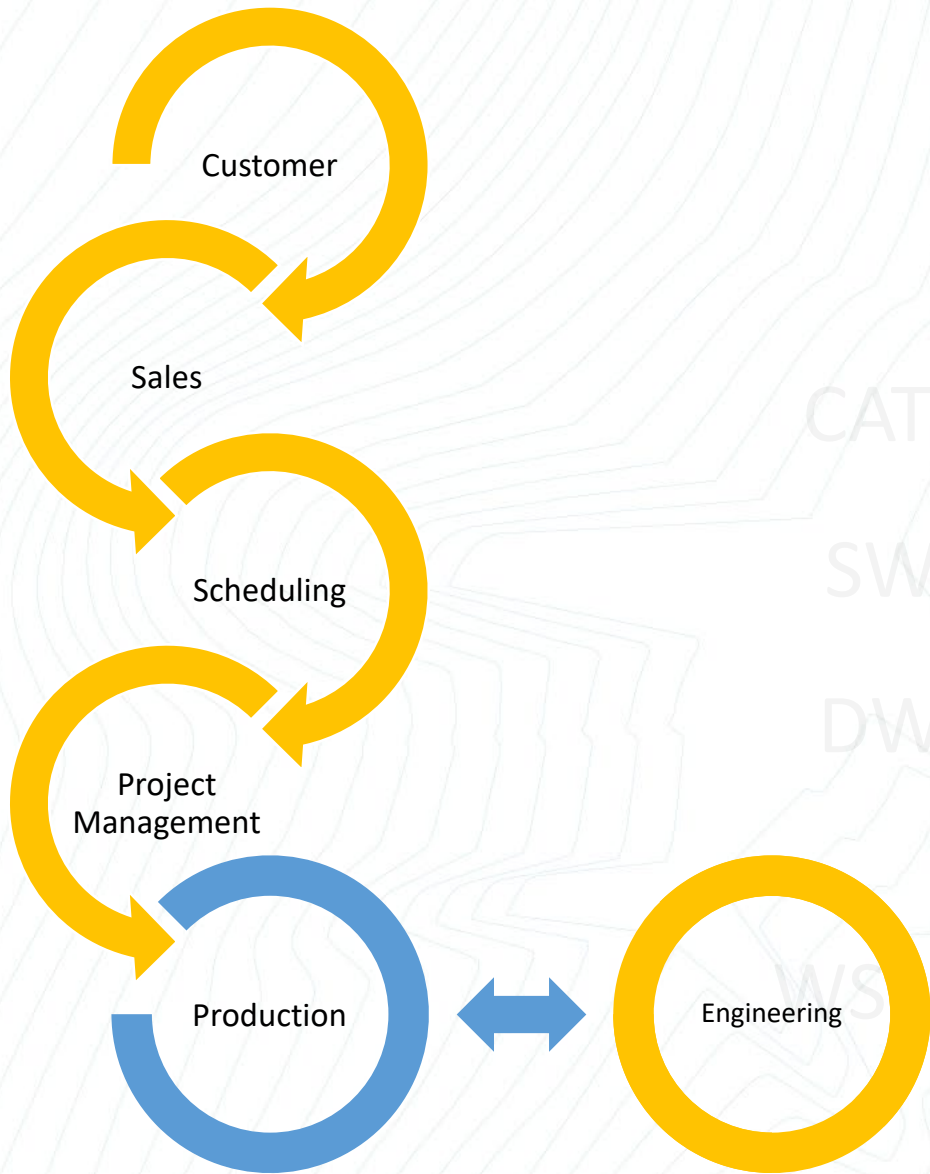


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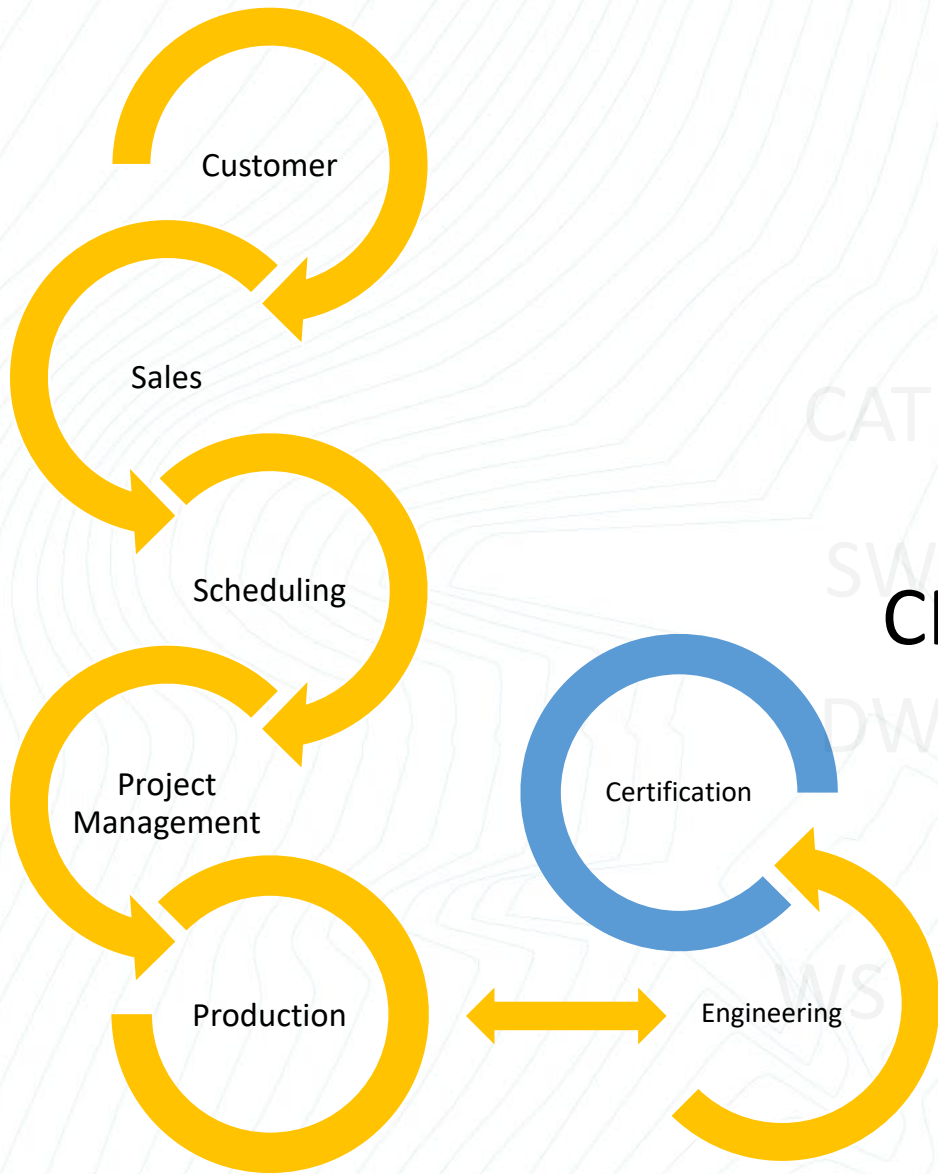
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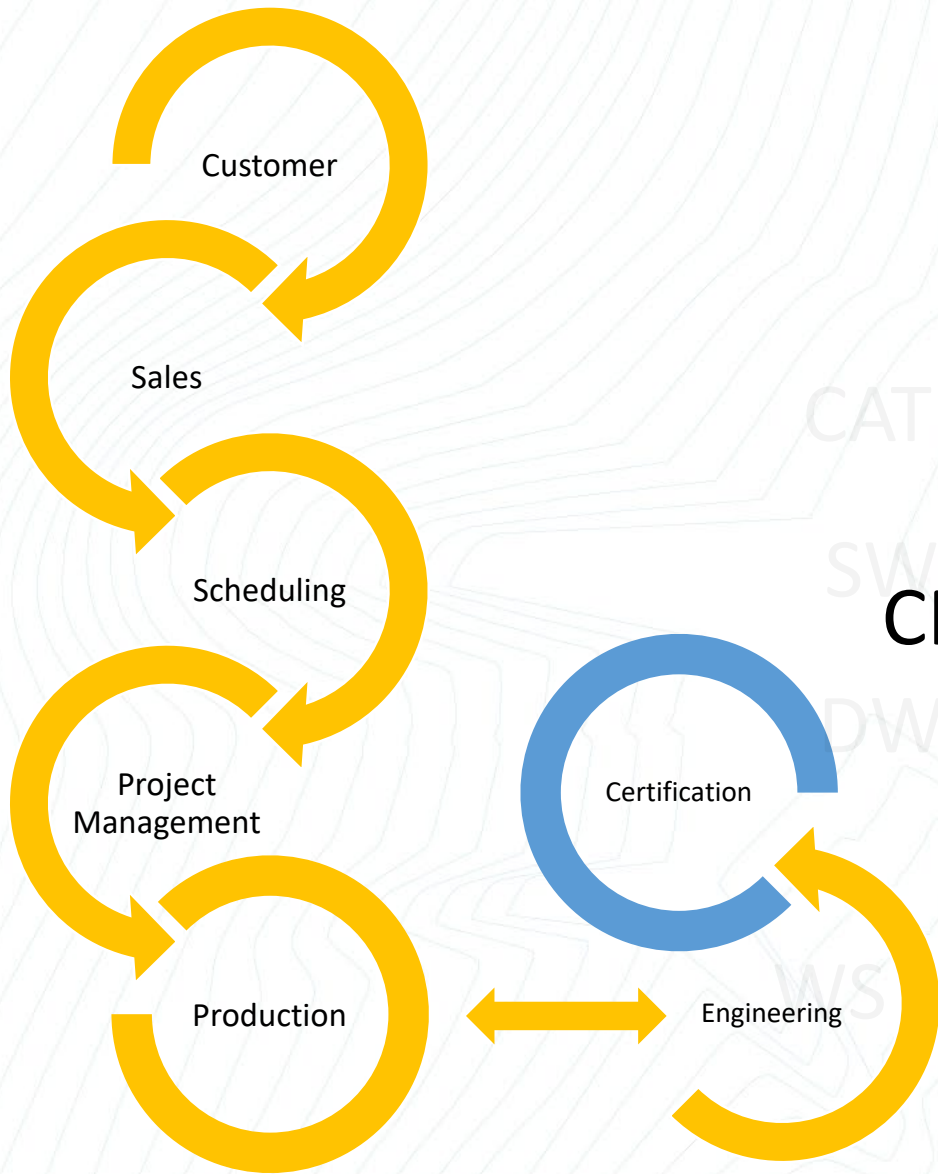
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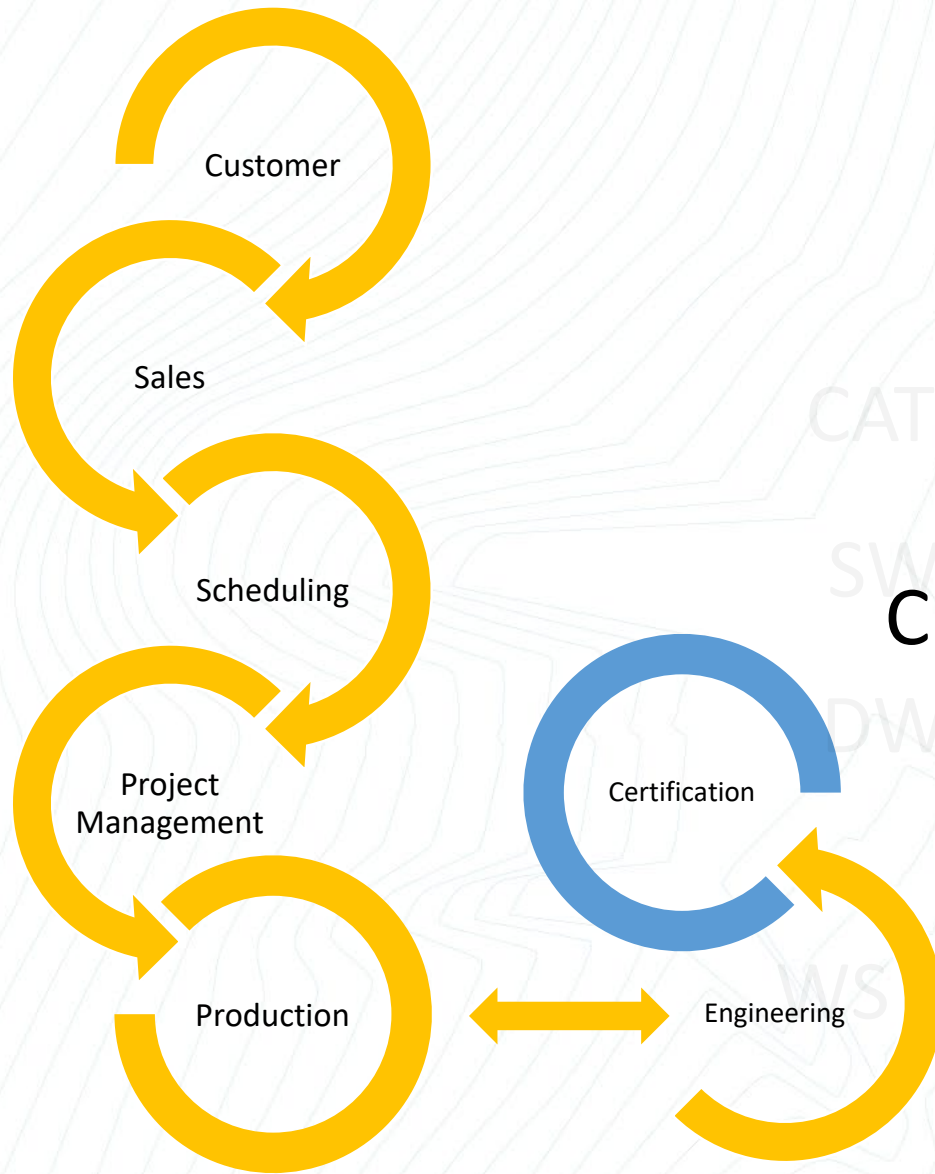
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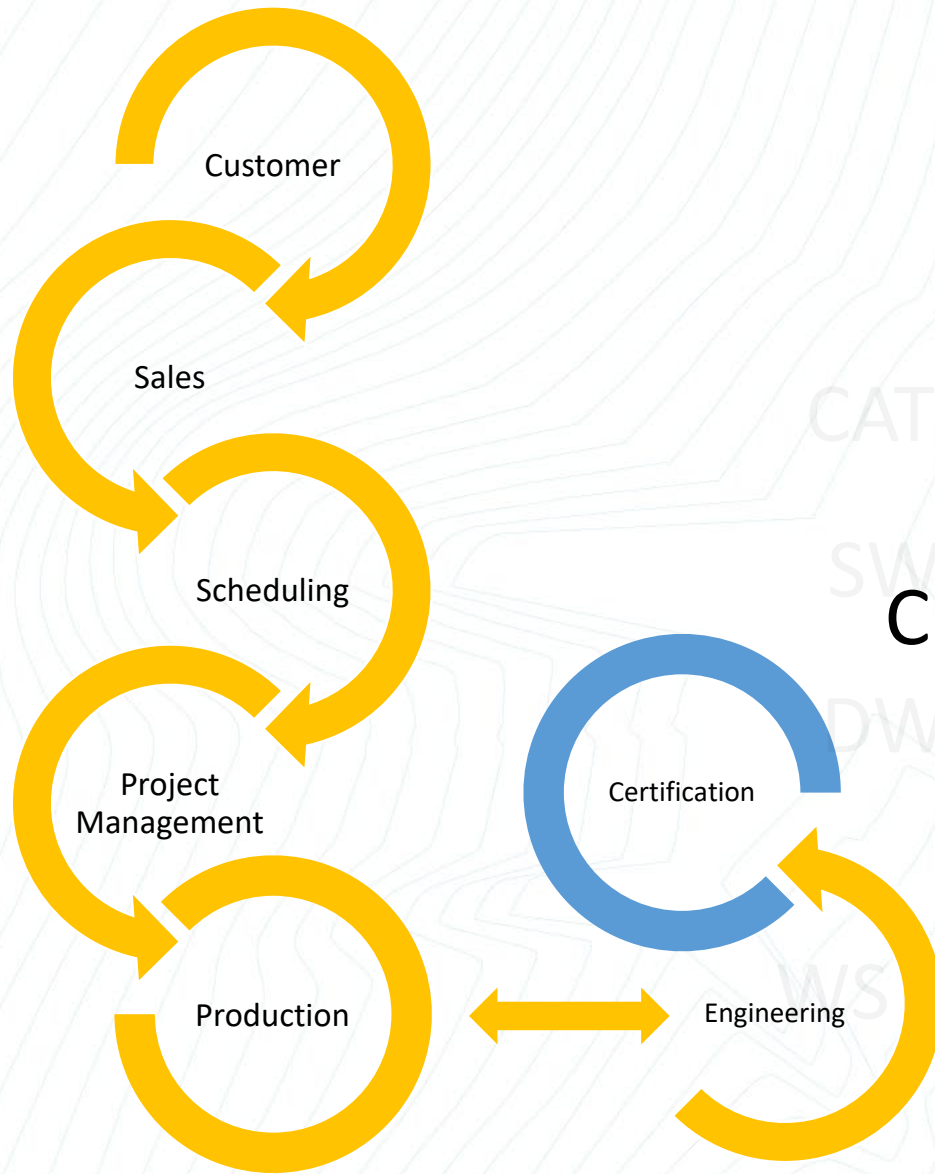


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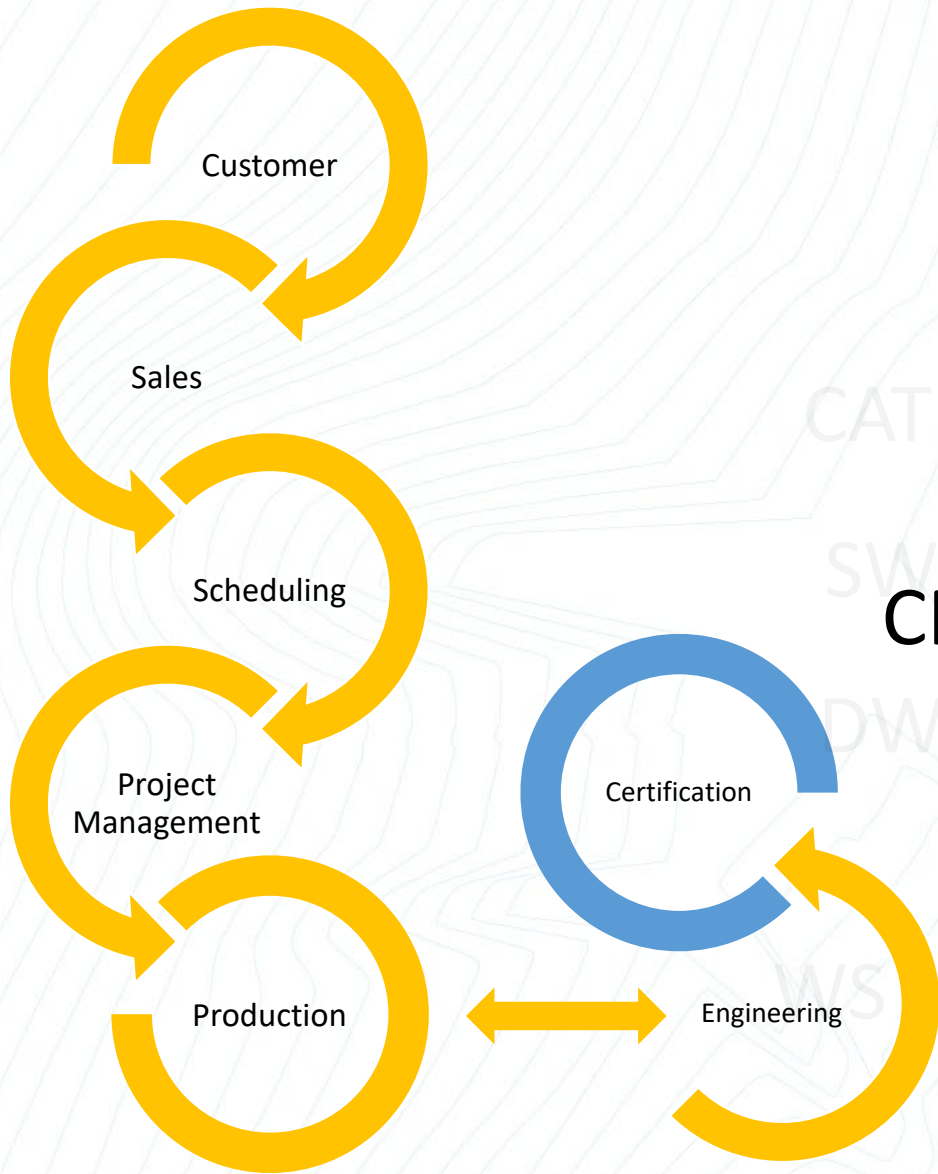
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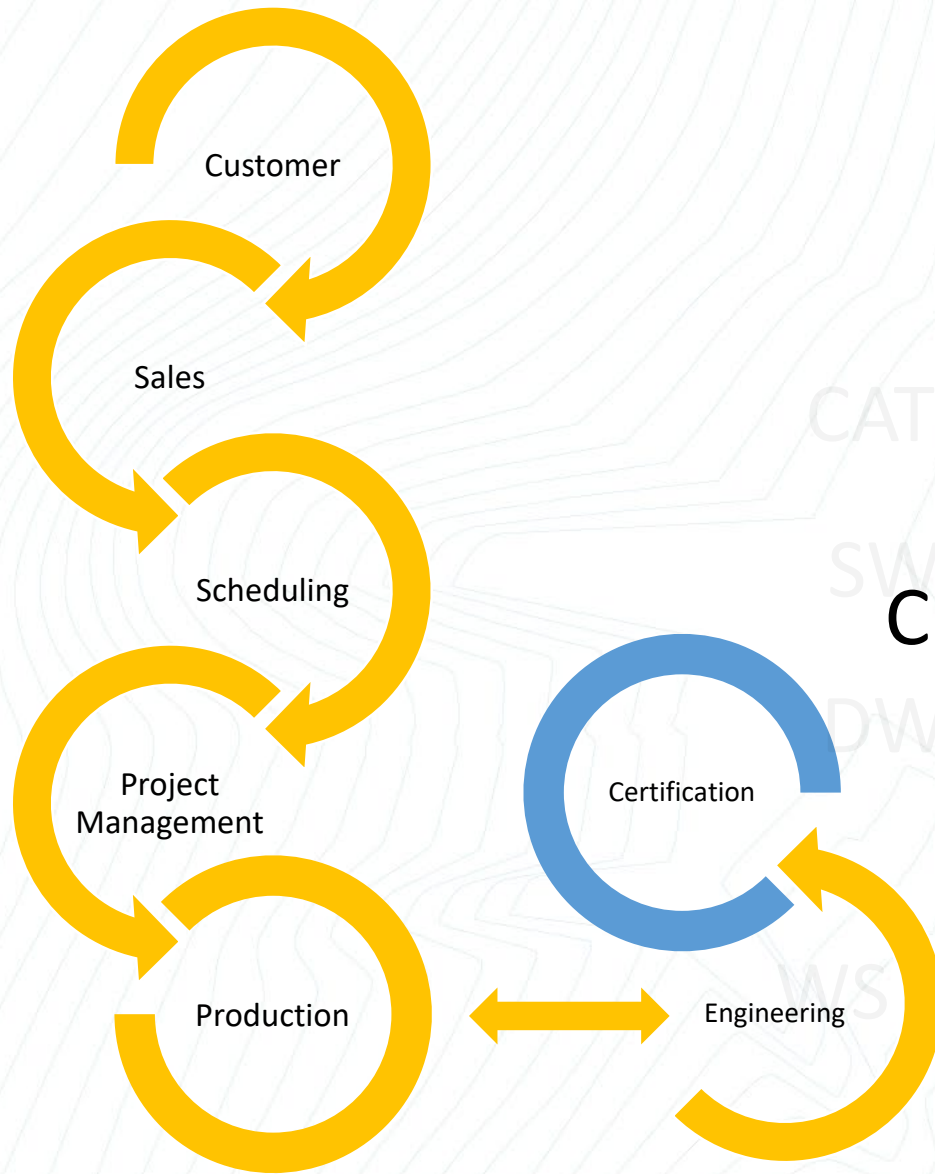
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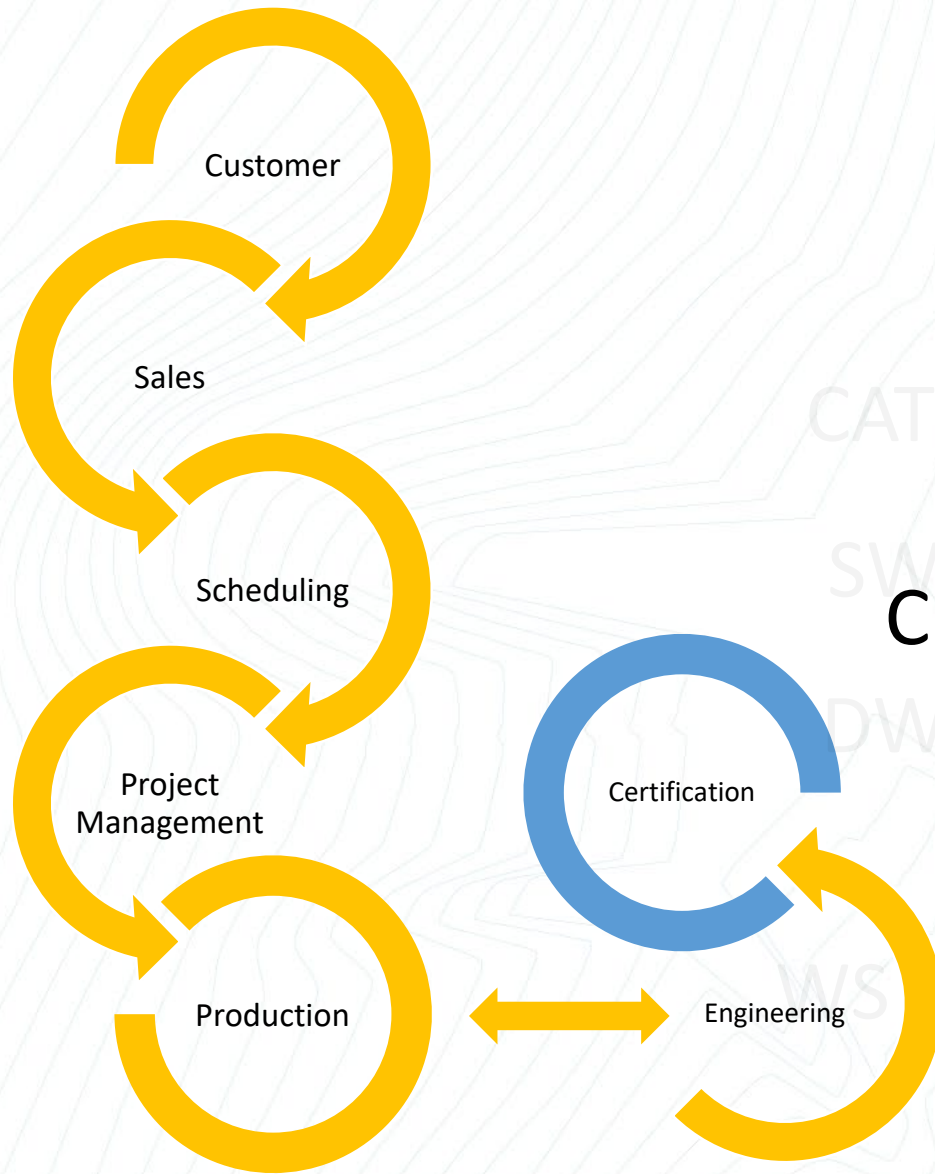
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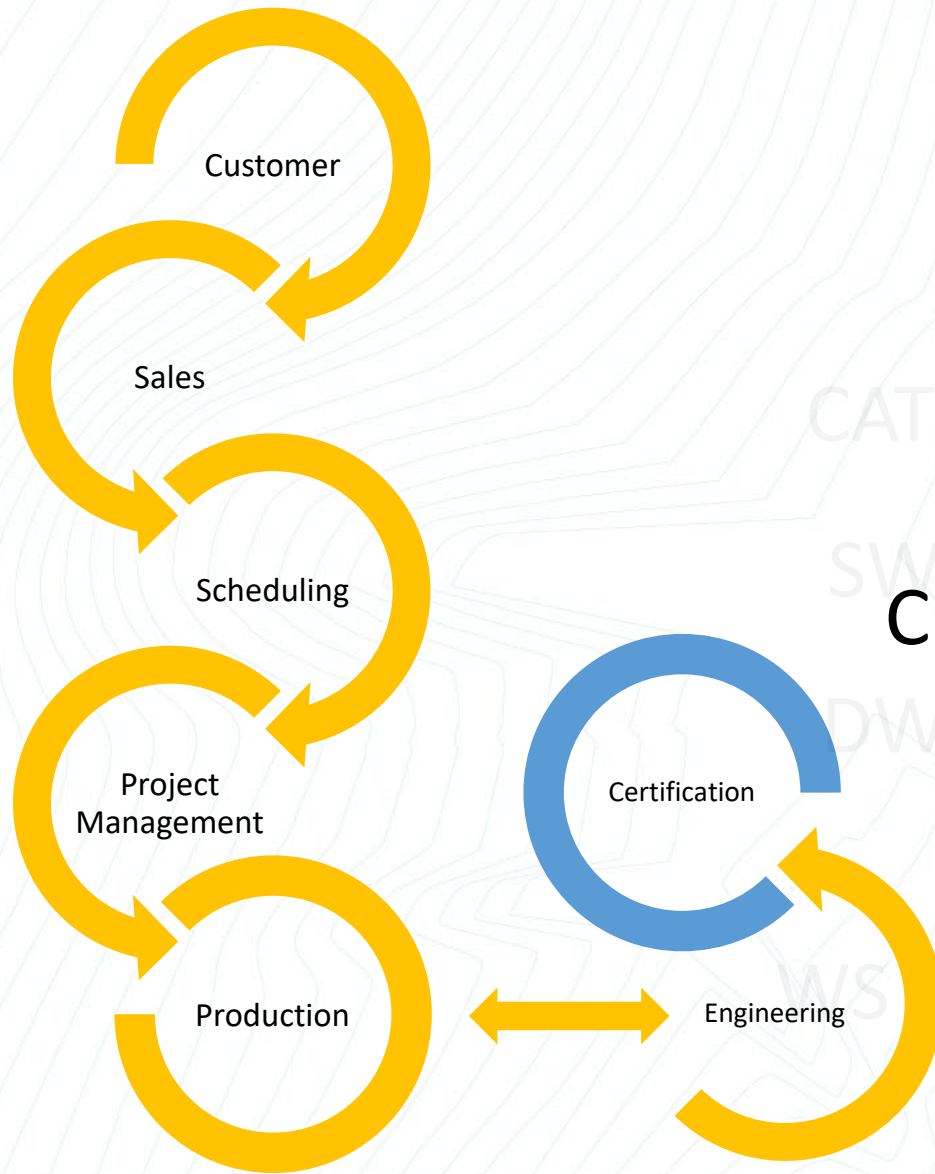
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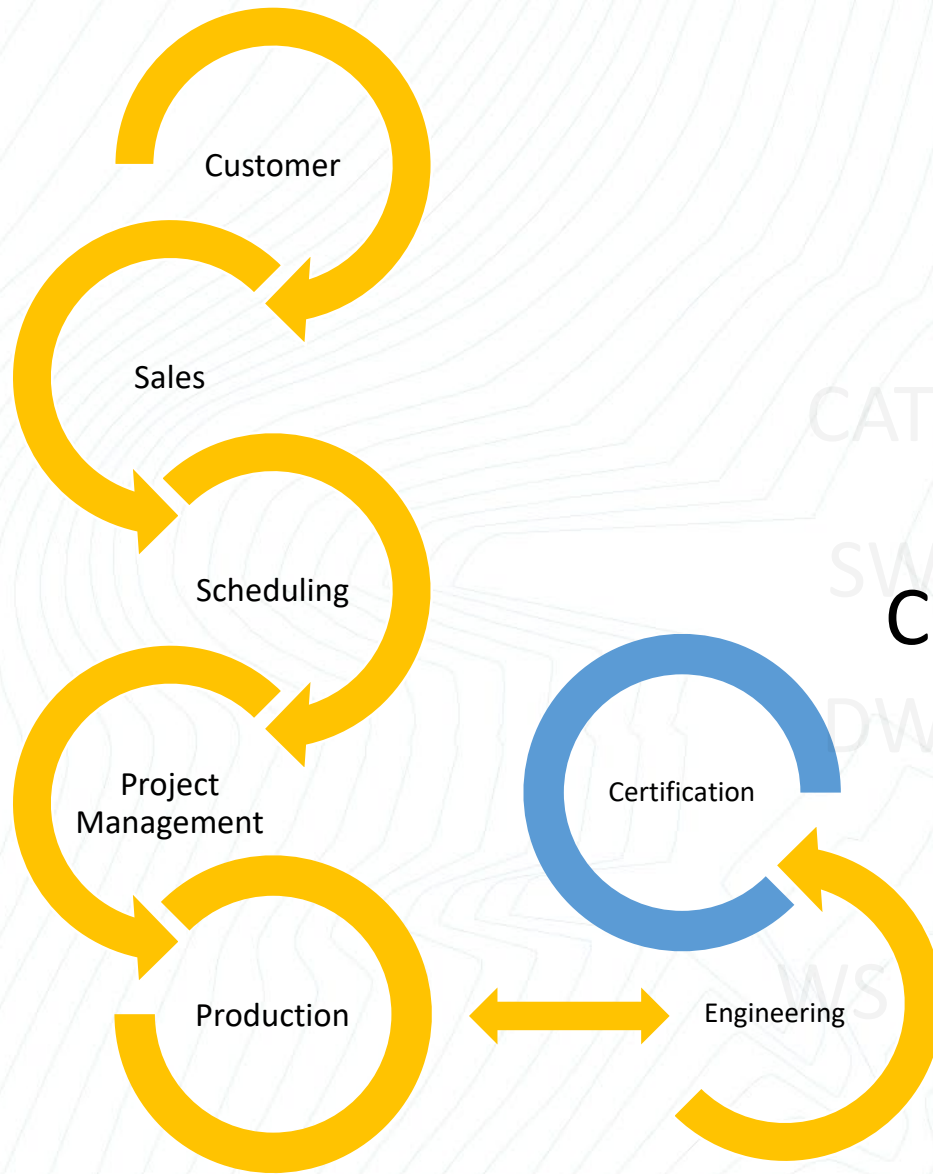
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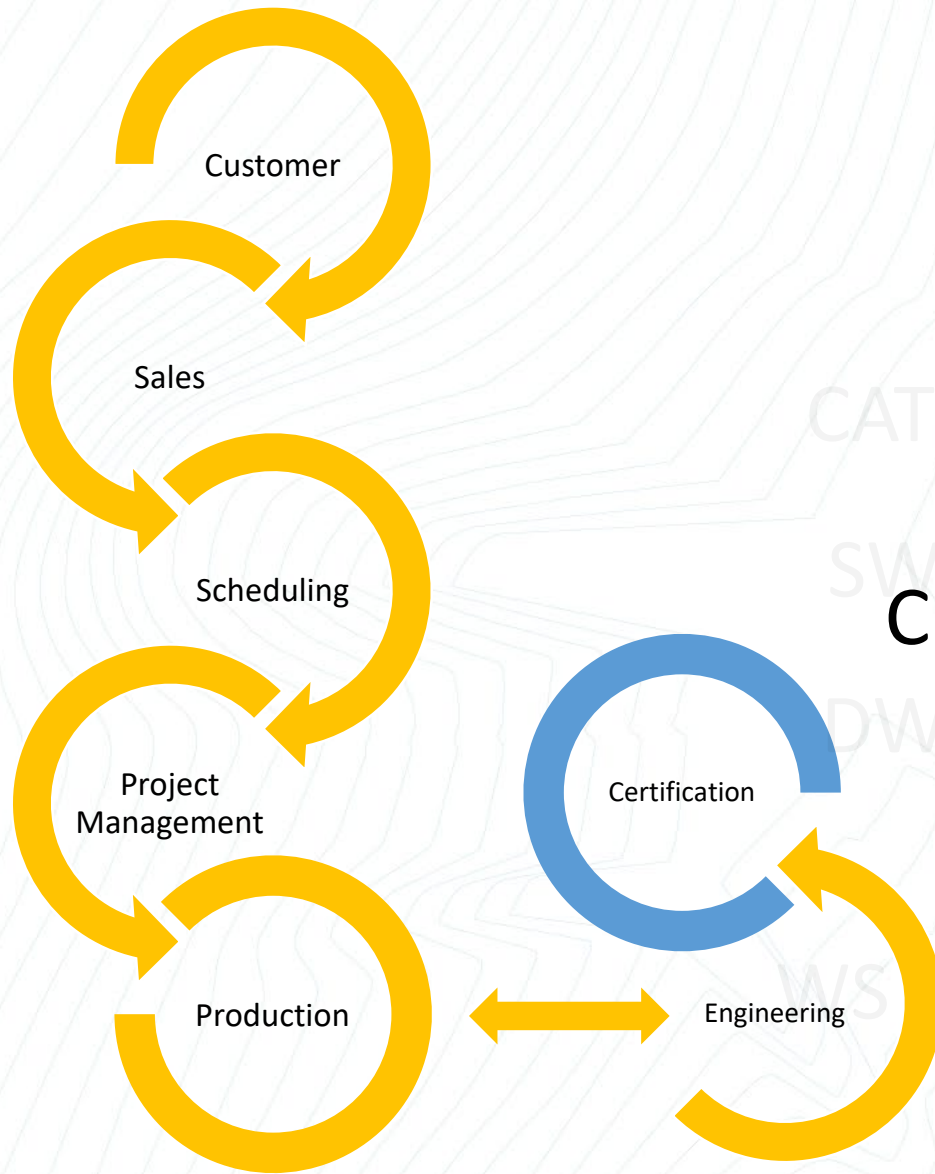
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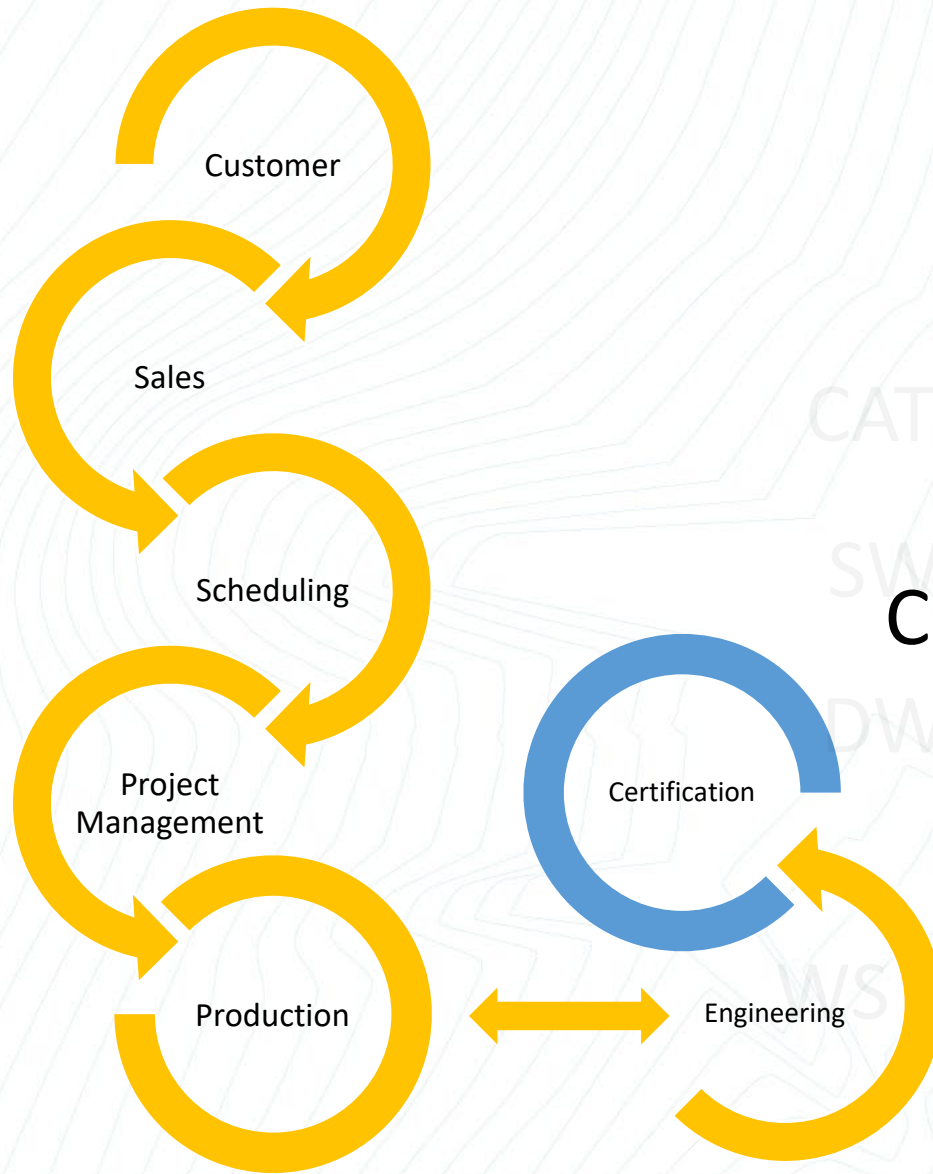
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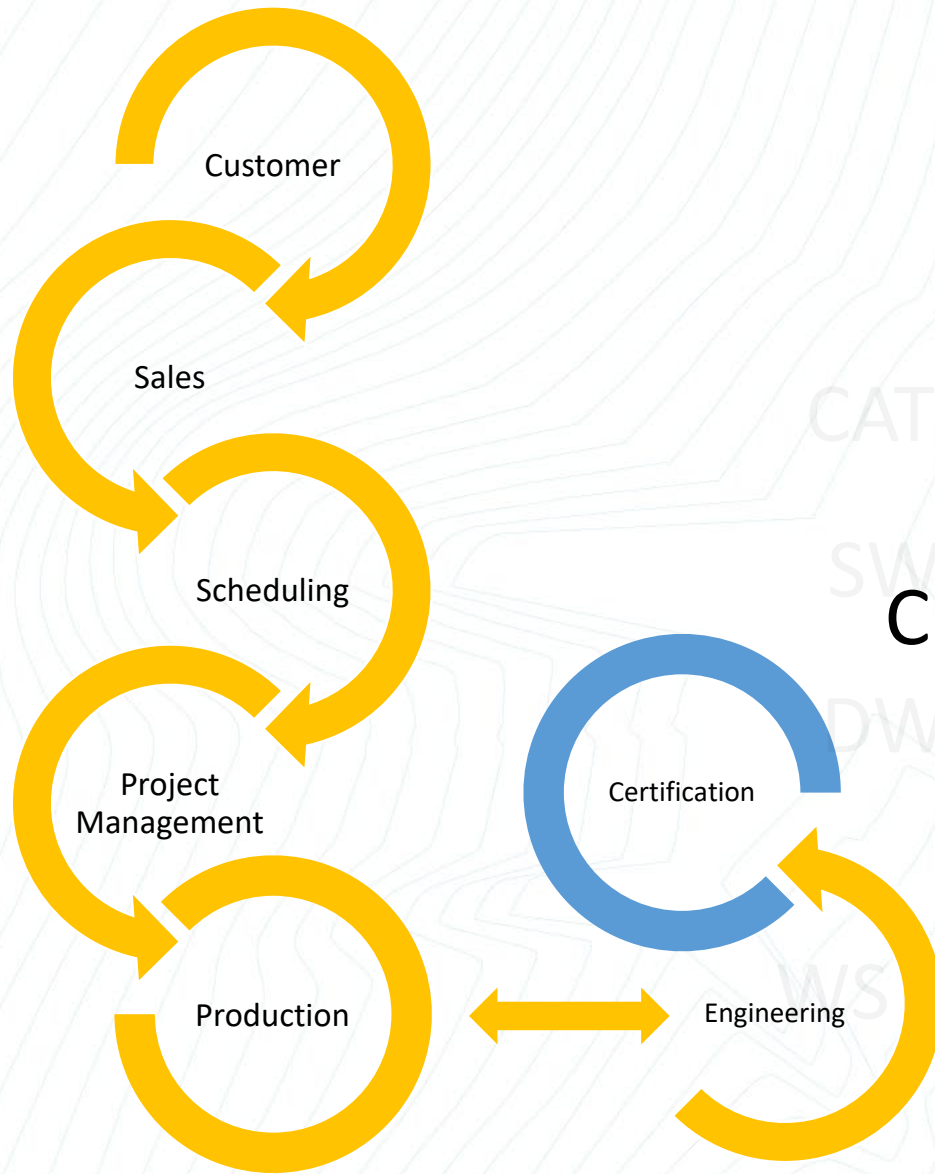
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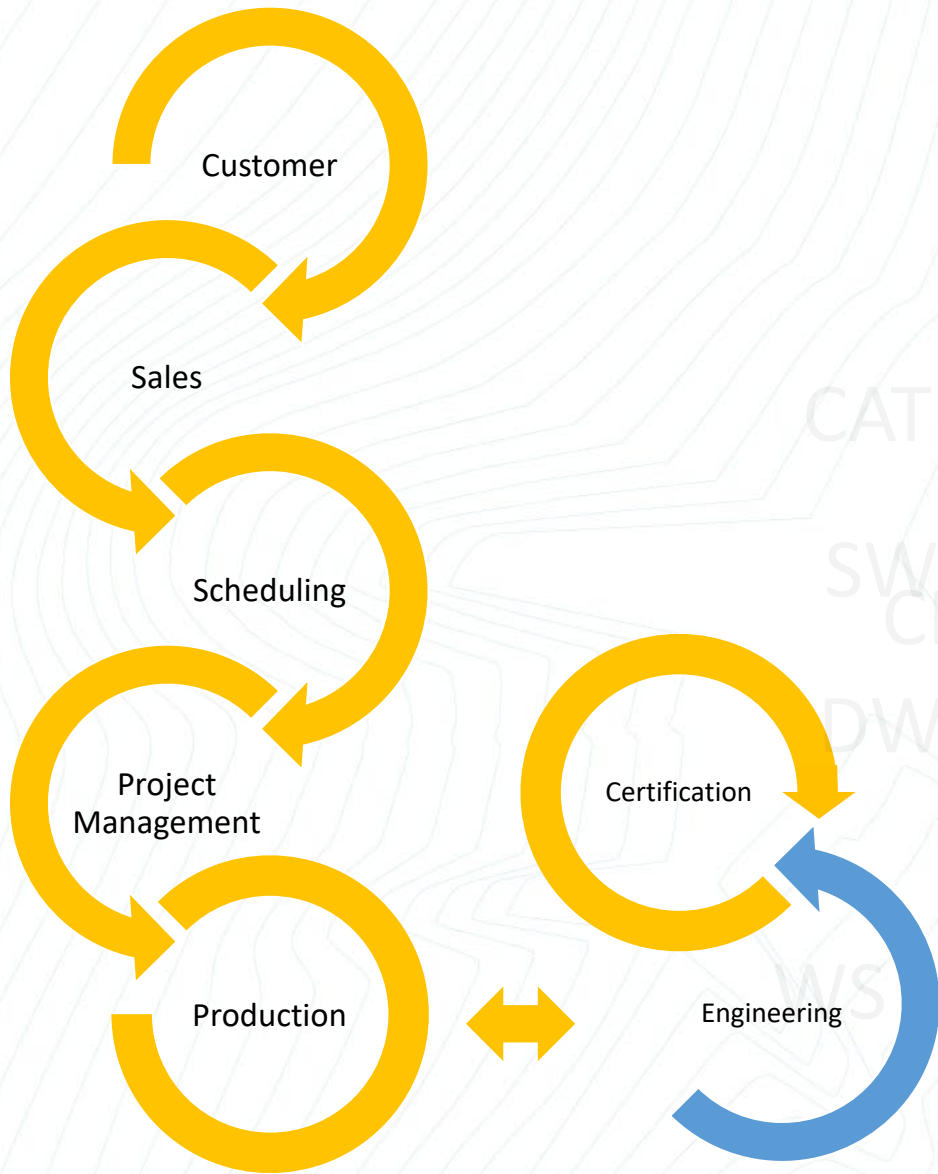
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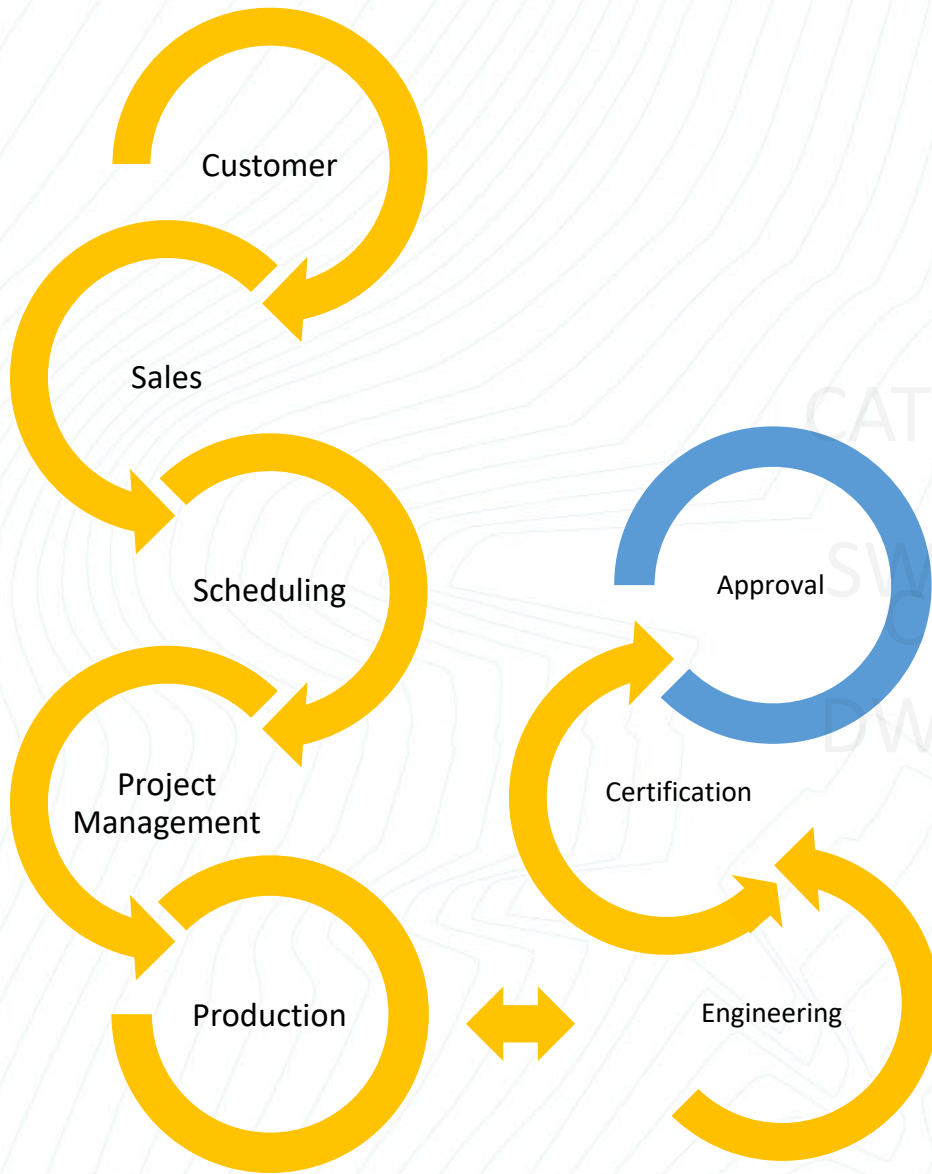
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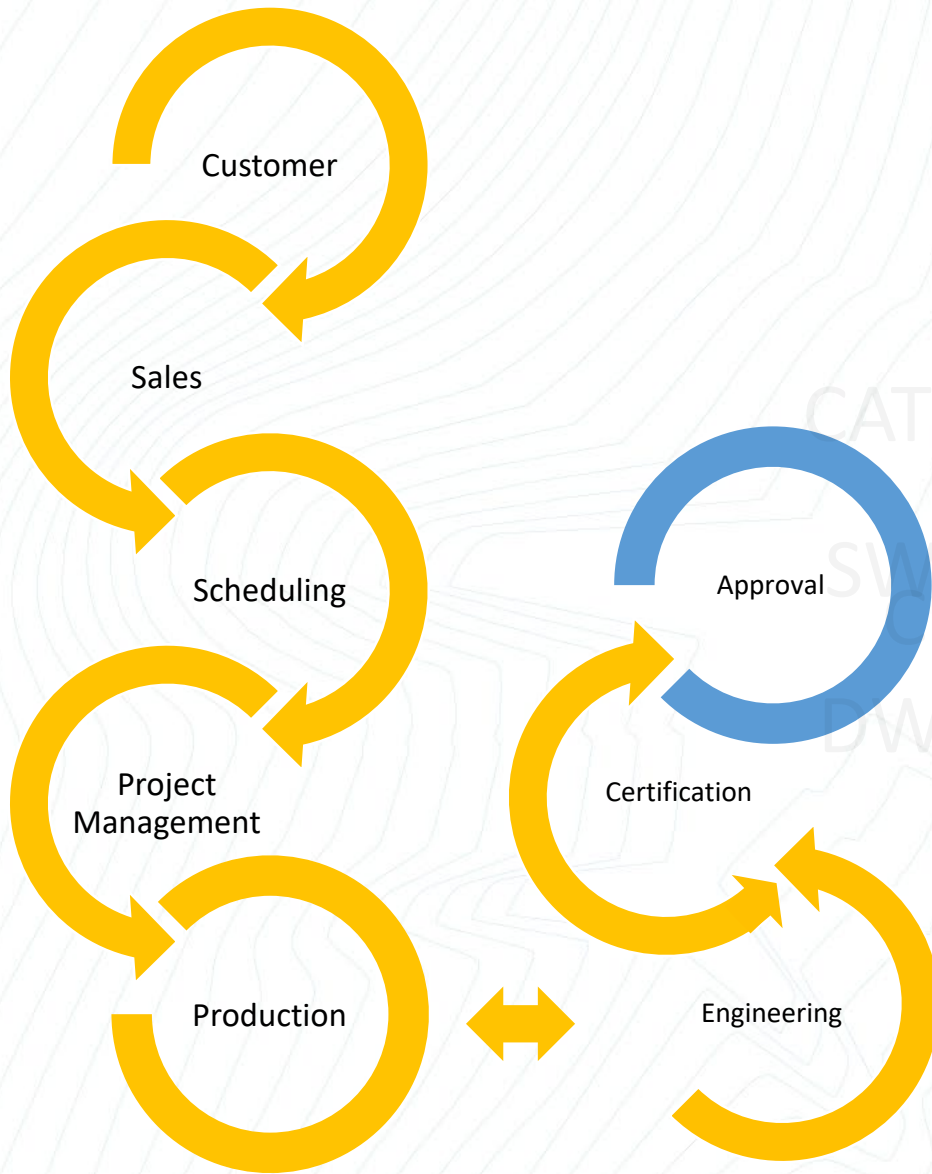
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Redlines

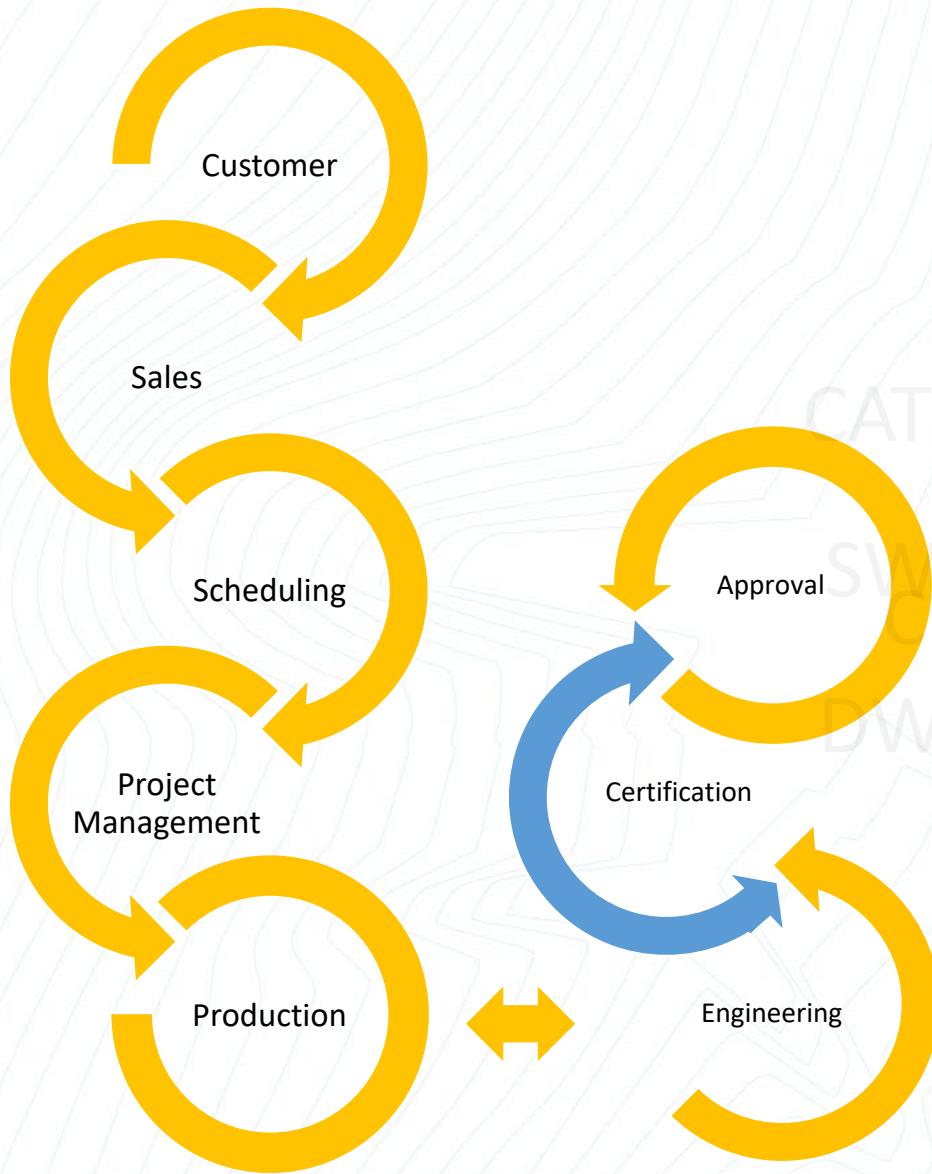


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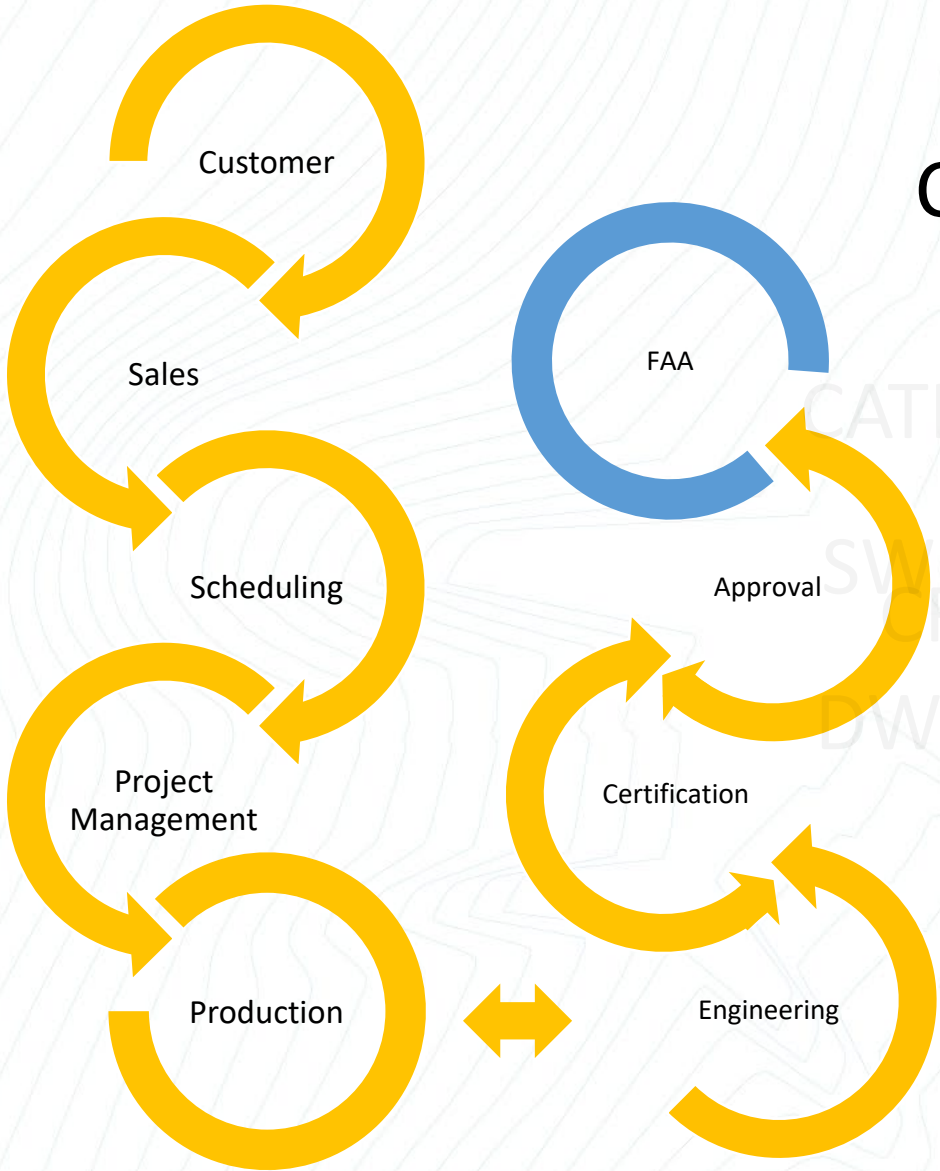
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8100-9



Redlines

Certificate



Selection Process

- Criteria



Requirements Specification

for

**A New Product Lifecycle/Data Management
System (PLM/PDM)**

Version 1.0



Selection Process

- Criteria
 - Functional Requirements



Selection Process

- Criteria
 - Functional Requirements
 - What does the end user need?



Selection Process

- Criteria
 - Functional Requirements
 - Technical Requirements



Selection Process

- Criteria
 - Functional Requirements
 - Technical Requirements
 - What infrastructure are we willing to pay for?



Selection Process

- The Options



Selection Process

- The Options



Selection Process

- The Options



Selection Process

- The Options



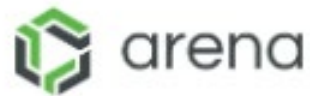
Selection Process

- The Options



Selection Process

- The Options



Selection Process

- Eliminating factors



Selection Process

- Eliminating factors
 - Geared toward a pure manufacturing environment



Selection Process

- Eliminating factors
 - Geared toward a pure manufacturing environment
 - Did way more than we needed



Selection Process

- Eliminating factors
 - Geared toward a pure manufacturing environment
 - Did way more than we needed
 - Not enough power in the redline tools



Selection Process

- Eliminating factors
 - Geared toward a pure manufacturing environment
 - Did way more than we needed
 - Not enough power in the redline tools
 - Not enough flexibility in the workflow tools



Selection Process

- Eliminating factors
 - Geared toward a pure manufacturing environment
 - Did way more than we needed
 - Not enough power in the redline tools
 - Not enough flexibility in the workflow tools
 - Licensing pay structure too complex



Selection Process

- Eliminating factors
 - Geared toward a pure manufacturing environment
 - Did way more than we needed
 - Not enough power in the redline tools
 - Not enough flexibility in the workflow tools
 - Licensing pay structure too complex
 - Not able to work well in a CMMC environment



Why Duncan Aviation chose Aras Innovator



Why Duncan Aviation chose Aras Innovator

- Data Migration



Why Duncan Aviation chose Aras Innovator

- Data Migration
- Workflows



Why Duncan Aviation chose Aras Innovator

- Data Migration
- Workflows
- Approvals/Stamping



Why Duncan Aviation chose Aras Innovator

- Data Migration
- Workflows
- Approvals/Stamping
- Redline Process



Why Duncan Aviation chose Aras Innovator

- Data Migration
- Workflows
- Approvals/Stamping
- Redline Process
- Vendor Data



Why Duncan Aviation chose Aras Innovator

- Data Migration
- Workflows
- Approvals/Stamping
- Redline Process
- Vendor Data
- Audit

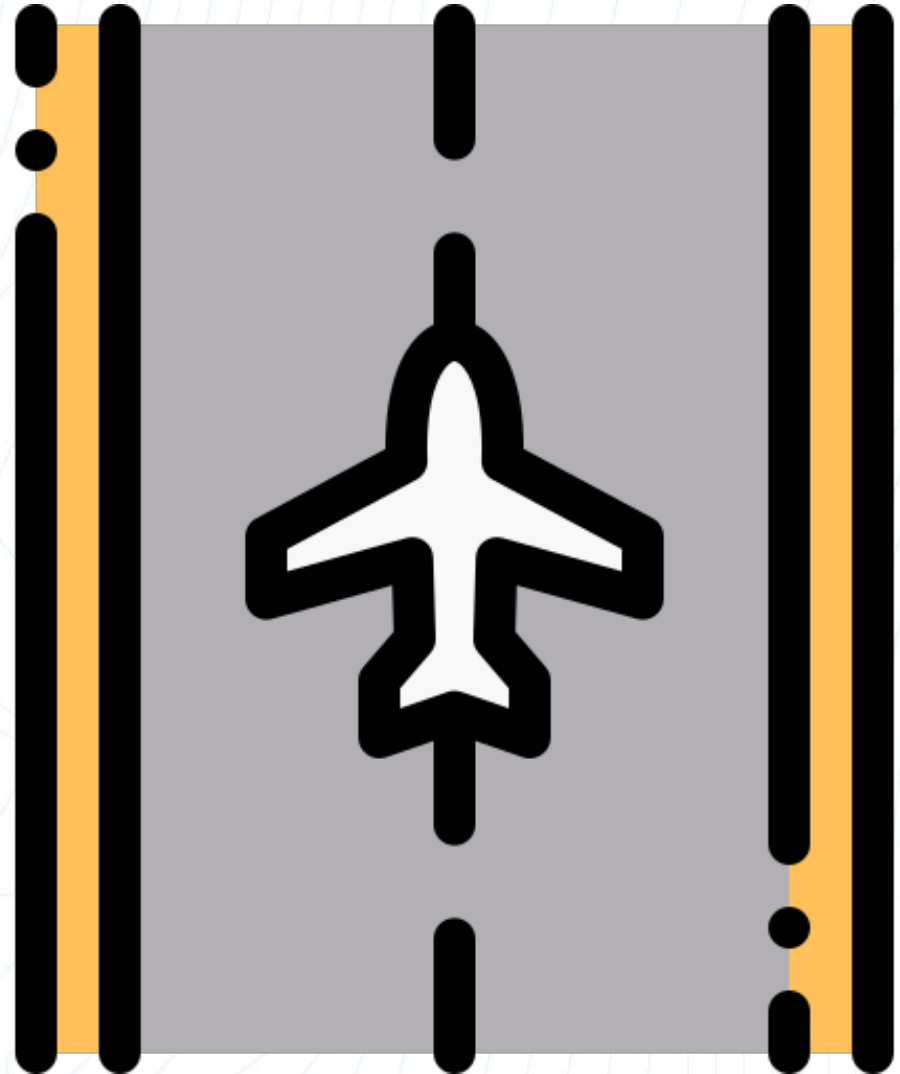


Where We Are At Today?



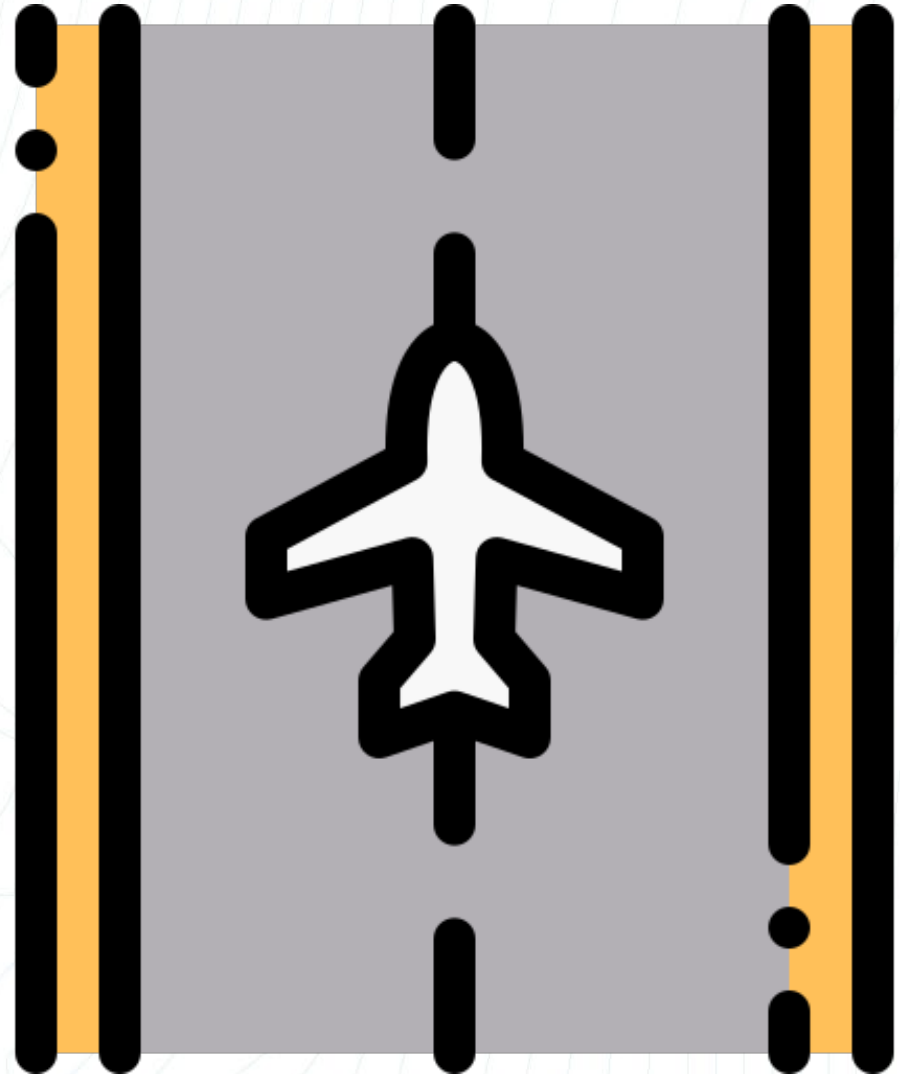
Where We Are At Today?

- Quoting
 - Response to our req doc



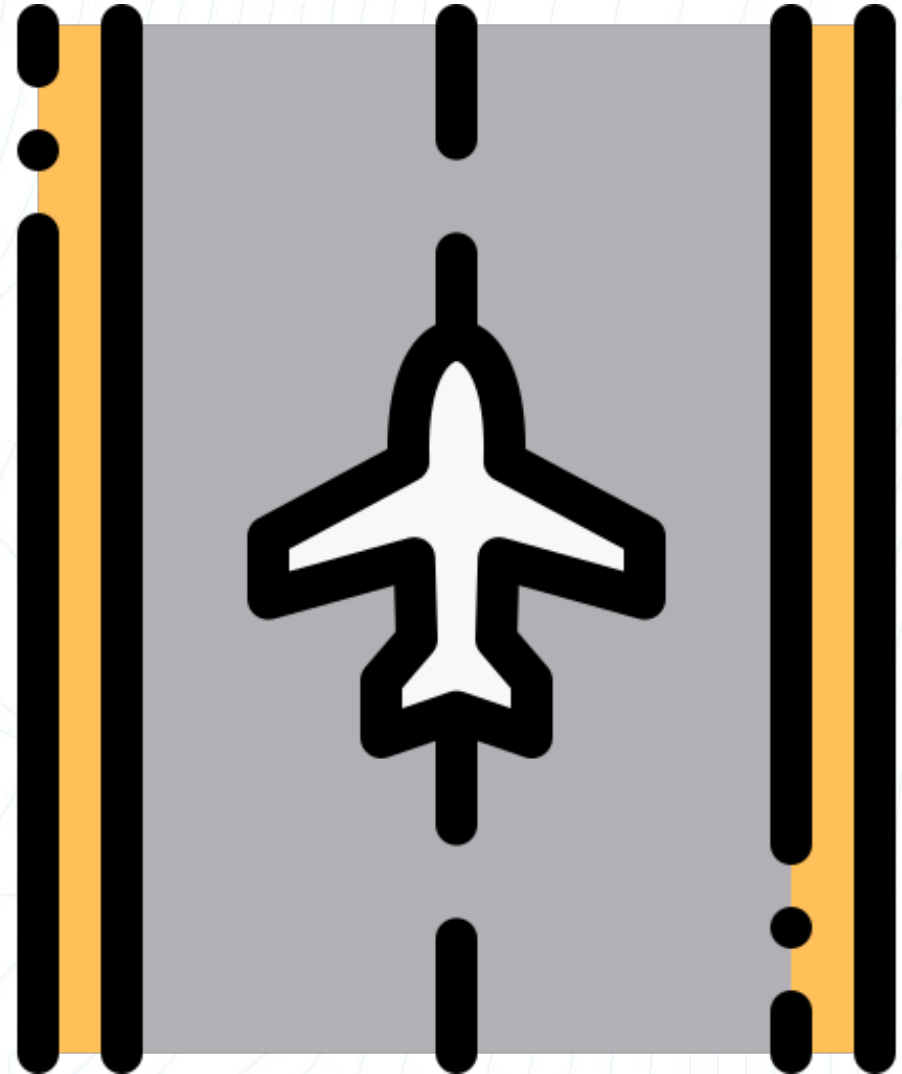
Where We Are At Today?

- Quoting
 - Response to our req doc
- Discovery
 - On site visit



Where We Are At Today?

- Quoting
 - Response to our req doc
- Discovery
 - On site visit
- Solution Development
 - Collaborative



Bombardier Global Express Refurbishment





Thank You

