



25 Canadian Forces Supply Depot: Modernization Efforts in an Ever-Changing Landscape

1 oct 2024

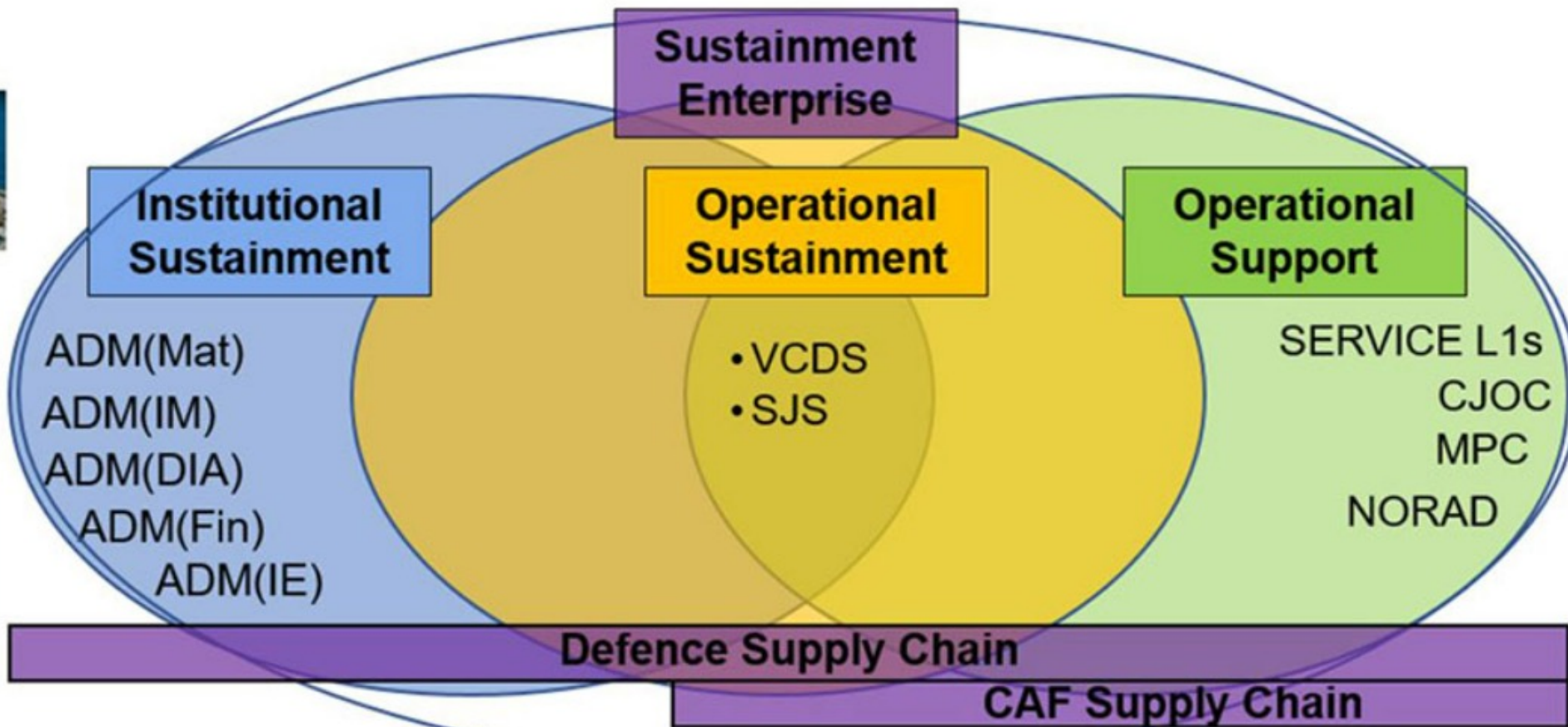


Topics

- Defense Supply Chain overview (DSC)
- 25 CFSD overview
- Challenges
- Strategic Initiatives
- Local Initiatives
- Into the future
- Questions



Defense Supply Chain overview (DSC)



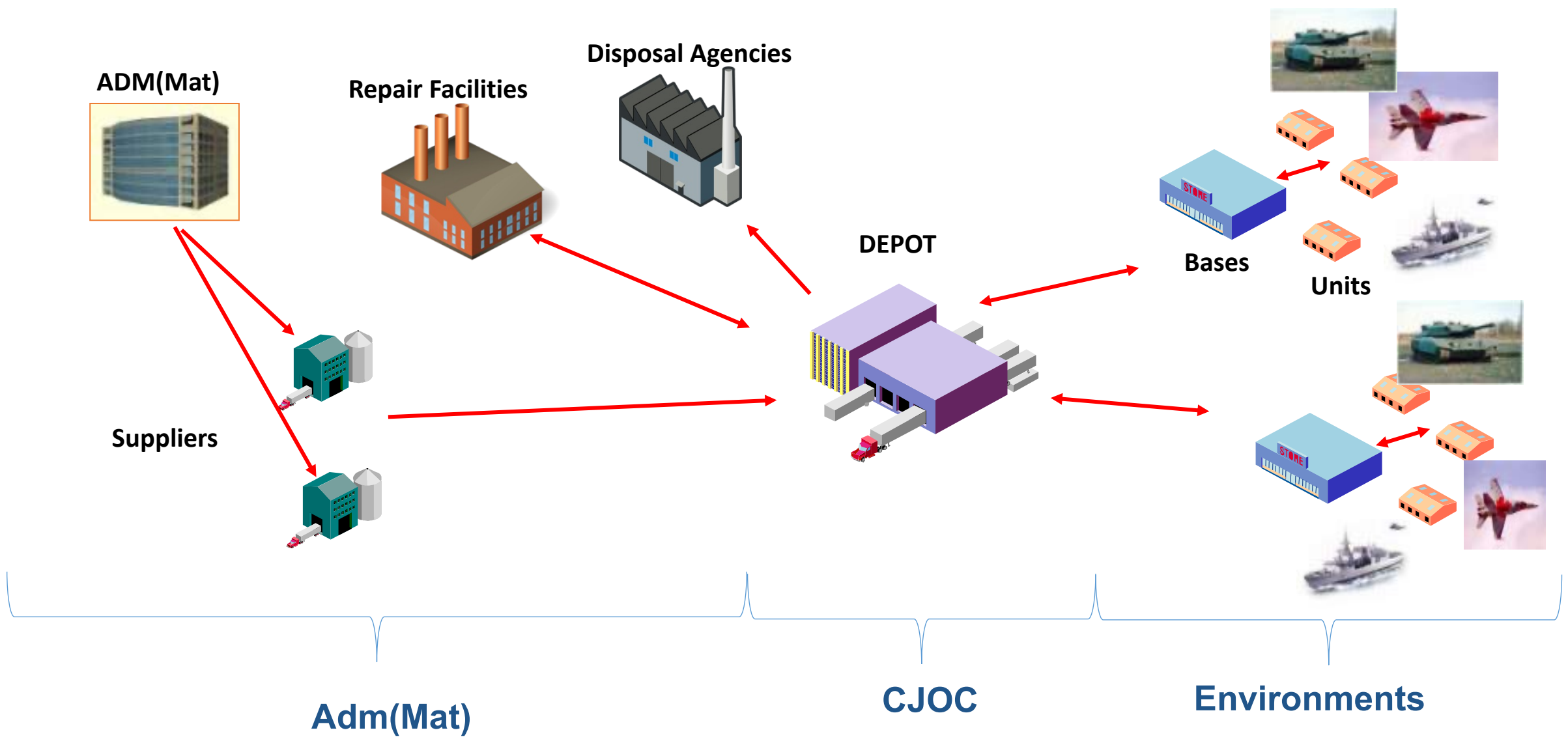
Missions and Readiness



DSC Charter



Current DND/CAF Supply Chain





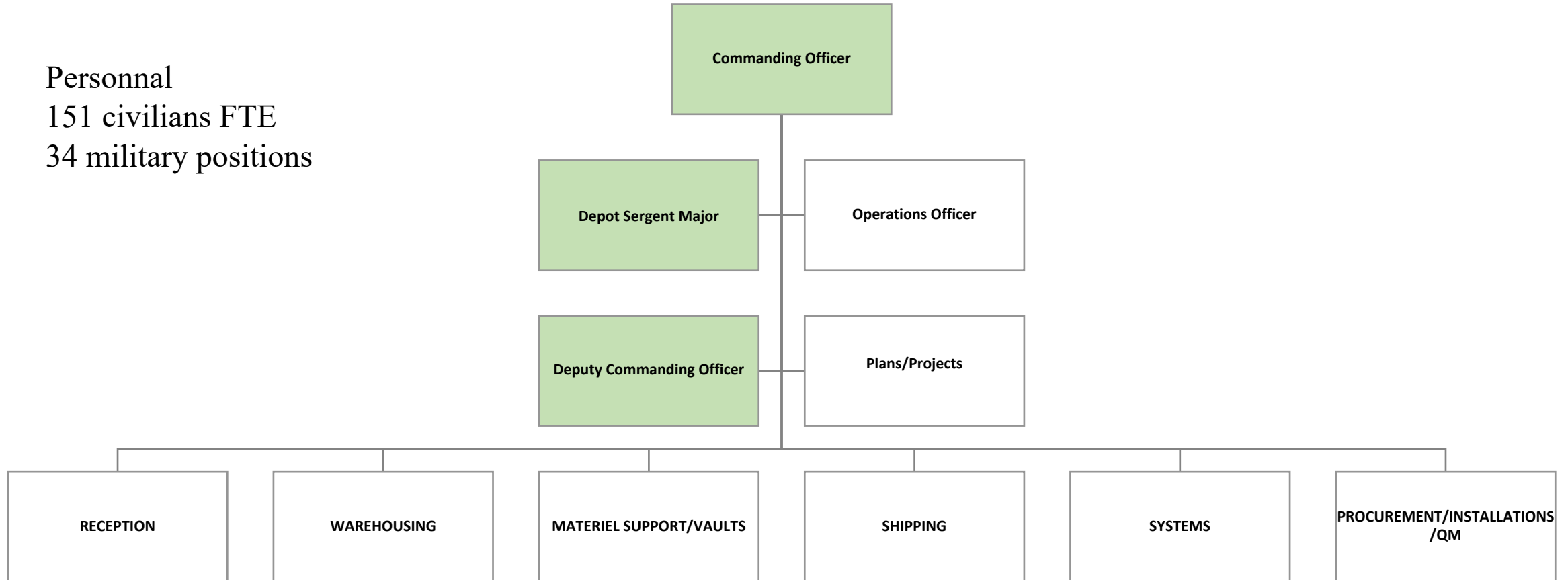
Mission

25 Canadian Forces Supply Depot executes the reception, warehousing, stewardship, distribution and disposal of materiel in support of the Department of National Defence and the Canadian Armed Forces.



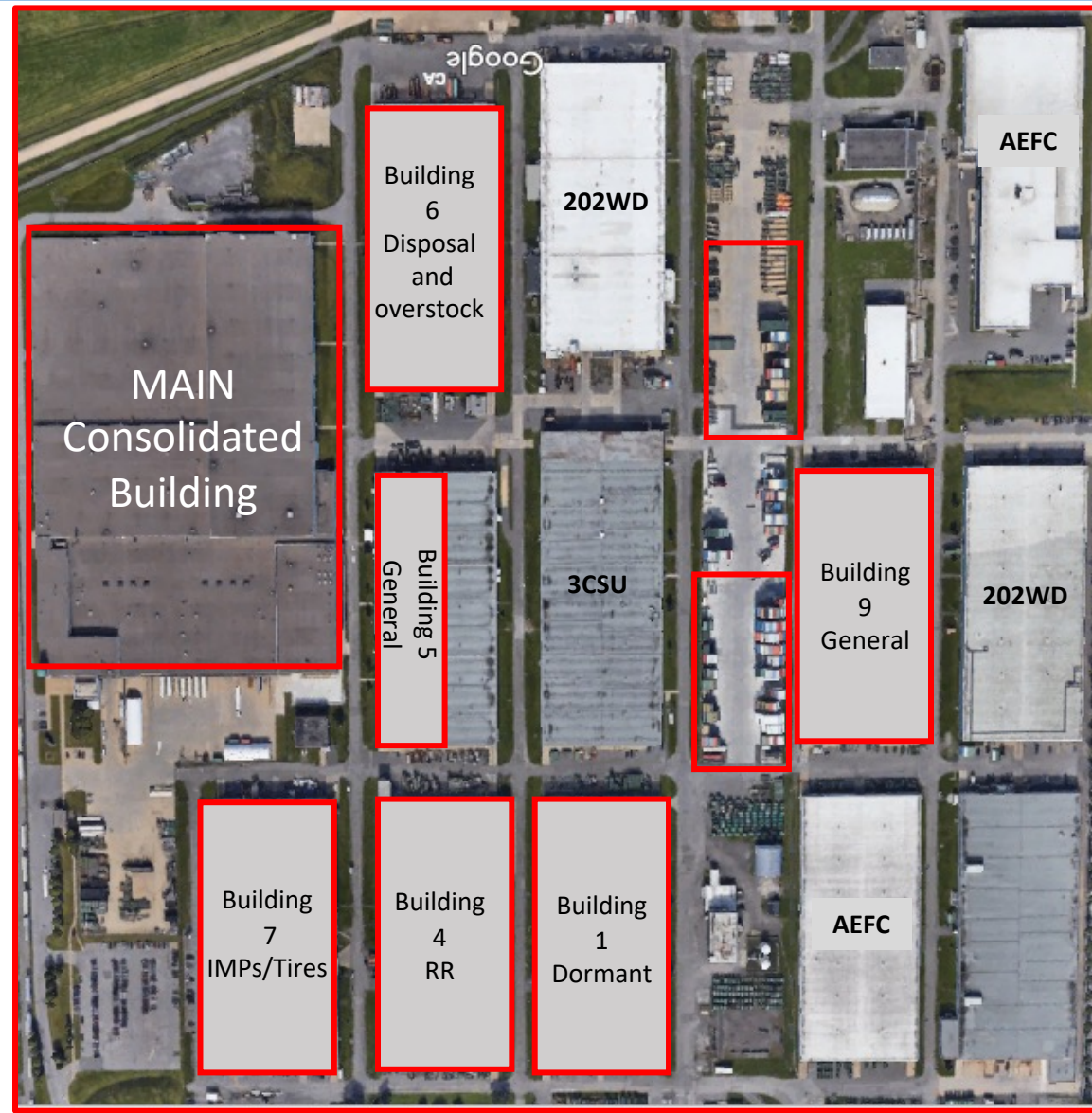
25 CFSD Organizational chart

Personnel
151 civilians FTE
34 military positions





25 CFSD Footprint



Note:
-Does not depict RTC Warehouse in Laval



25 CFSD Statistics

Varia

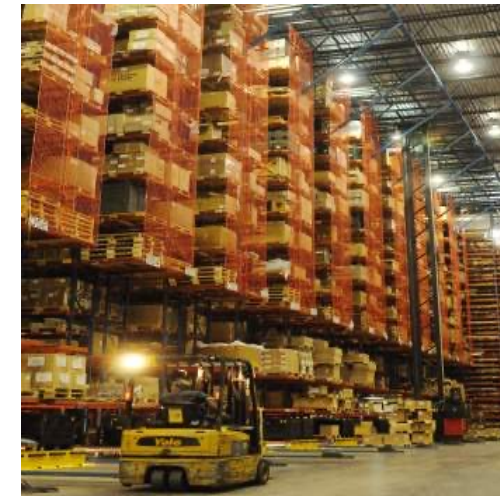
- Inventory valued at \$4.2 billion
- 148,650 m² of indoor storage space
- 46,450 m² of outdoor storage space
- Manages over 195,000 unique NSNs (National Stock Numbers)
- Comprised of more than 500,000 storage locations

Inbound / Incoming Deliveries:

- Processes an average of 350 receipts per day
- Handles various types of receipts (71% unit returns, 29% commercial)
- 55,000 to 75,000 incoming deliveries per year

Outbound / Outgoing Deliveries:

- Processes an average of 450 requests per day (Picks)
- Approximately 10% of requests per day are high priority
- Over 125,000 outgoing deliveries per year
- 3,000,000 lbs of goods moved per year





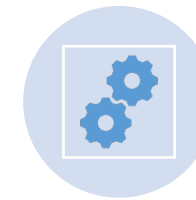
Challenges



Data security and
cybersecurity



Integration with
existing systems



Implementation
complexity



Wi-Fi
availability



Cost



Personnel

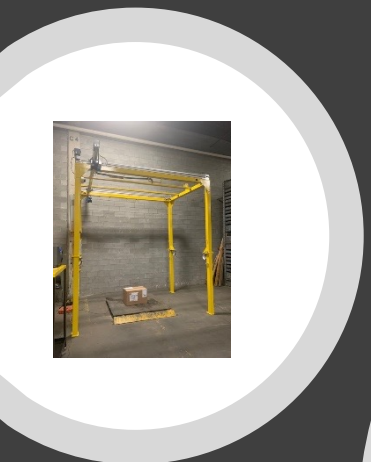
Strategic Initiatives

- Modernization & Integration of Sustainment and Logistics (MISL)
- Automated Identification Technology (AIT)
- Materiel Identification (MI)



Local Initiatives

- Automated guided vehicle/ Autonomous mobile robot (AGV/AMR)
- Autonomous floor scrubber
- Volumetric scanner
- Robopac
- Autobag





Project AGV/AMR

Autonomous Guided Vehicles (AGVs) and Automated Mobile Robots (AMRs): AGVs are robots capable of moving autonomously without human intervention. Traditional automation technologies include wire guidance, laser guidance, and optical guidance. In contrast, AMRs rely on sensors and processors to autonomously move materials without needing physical guides or markers. They can memorize their environment, remember their location, and dynamically plan their own trajectory from one waypoint to another within the environment.



Benefits

Enhanced Personnel Safety: By reducing risks associated with material handling.

Mitigation of Forklift Driver Shortages: Addressing the issue of insufficient forklift operators.

Reduction of Repetitive Tasks: Allowing staff to be reassigned to more significant and potentially more engaging tasks.

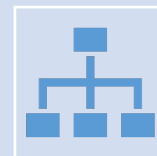
Decreased Waiting Times and Delivery Delays: Achieving faster and more efficient movement of materials.

Project Automated floor scrubber

Automated floor scrubber. 25 CFSD comprises six buildings, including the main building which has a dimension of 1.6 million square feet. This large-scale building requires considerable cleaning, whether by employing a cleaning contract or using 25 CFSD warehouse workers. With a reduced workforce and many priority tasks to accomplish, floor cleaning is often relegated as a low priority.



Making the work environment safer; and



Concentrating personnel on performing primary tasks directly related to the mission of 25 CFSD.



Project Volumetric scanner

Volumetric scanner. An automated volume measurement system that processes a variety of information related to the dimensions and weight of cargo. Once the information is captured, the system can transmit it to another data processing system.



Benefits

- Obtaining dimension and weight data quickly and accurately; and
- The ability to know the volume usage in a warehouse when connected to an Enterprise Resource Planning (ERP) system.



Project Autobag

Autobag : It will allow for quickly packing small items and writing all the necessary information directly on the bag during shipping. No stickers are required.





Into the future

- **Workflow and processes**
- **Deployed and Intergrated IoT**
- **AI**





QUESTIONS

DISCUSSION

THANK YOU