Welcome to the

Defence Supply Chain Business Acumen Knowledge Blitz

18 June 2024

National Defence Défense nationale

Welcome & Land Acknowledgement

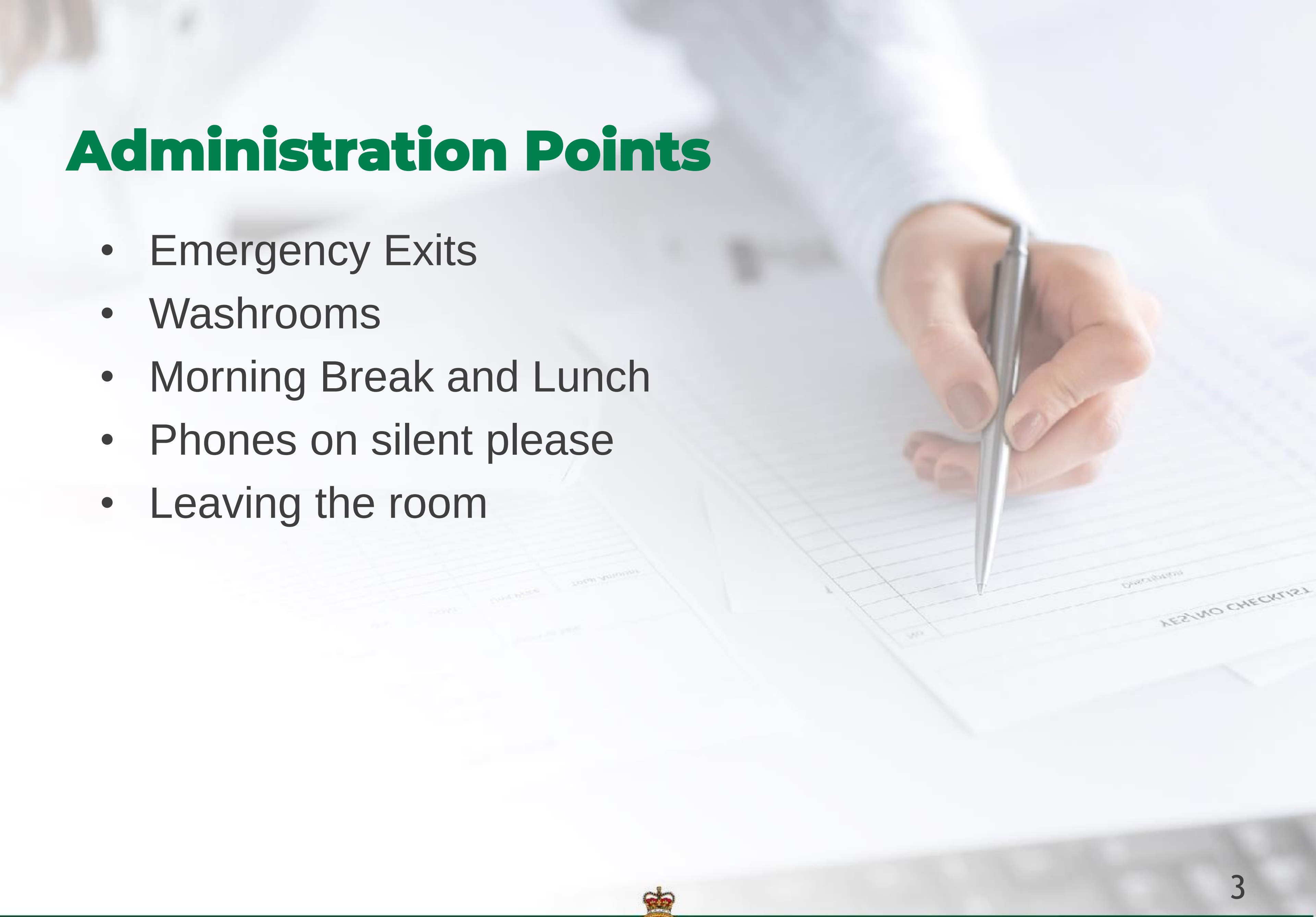
Master of Ceremonies

Denis Forest

Lead

Materiel Management Practitioner Professionalization Project (MMP3)

Administration Points



- Emergency Exits
- Washrooms
- Morning Break and Lunch
- Phones on silent please
- Leaving the room

Land Acknowledgement

At this moment I would like to acknowledge that we all live, work and play on First Nations, Inuit or Métis territory in what we know as Canada. Because I am in Ottawa, I am joining from the traditional unceded and unsurrendered territory of the Algonquin Anishinaabe people. I thank them for their past and present stewardship of this land that I enjoy to nourish and protect me.

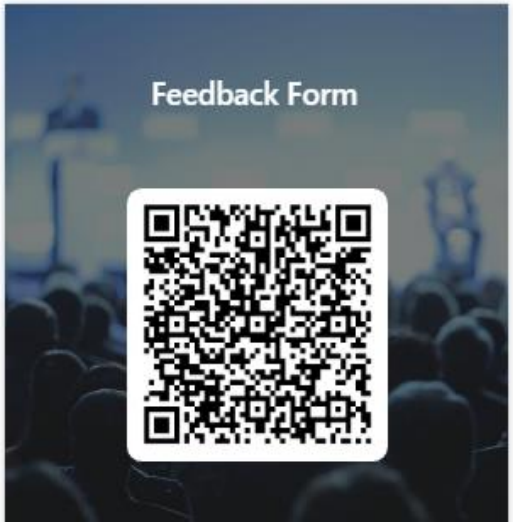
I welcome you to discover something about the territory you are joining from. By educating ourselves, we honour our commitment to reconciliation.

Agenda

Hour	Topic
0900	Welcome & Land Acknowledgement
0905	Opening Remarks
0915	Module 1 Government of Canada Direction
0945	Module 2 Departmental Policies
1015	Break
1030	Module 3 DSC Business Execution
1230	Lunch
1330	Module 4 DSC Analytics
1500	Break
1515	Module 5 Reporting
1545	Closing Remarks

Feedback Form

Your feedback is much appreciated and helps to improve future professionalization events

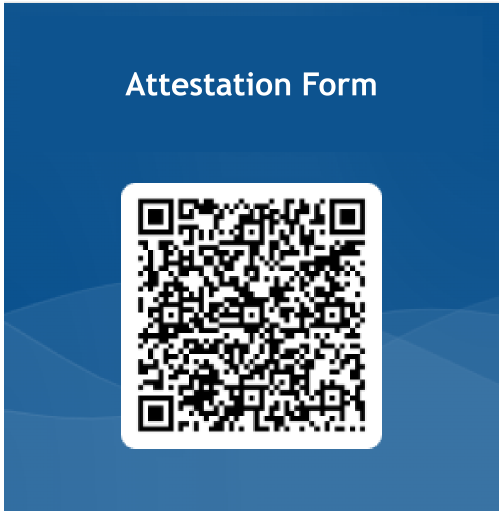


Link to Feedback Form

Sign in using your Office 365 ECN account login

Attestation Form

Please complete the form to have your Training record updated in HRMS/PeopleSoft



Link to Attestation Form

Sign in using your Office 365 ECN account login

Opening Remarks

Diogo Brandao

Director Supply Chain Operations

DSC Business Acumen

Module 1

Government of Canada Direction

Bronwynn Guymer

Section Head

DMPP 7

Learning objectives

Module 1
Government of Canada Direction

At the end of this module, you will be able to:

- Identify the Legislative Framework and Policies governing Materiel Management
- Describe the Governmental Expectations for the DSC
- Explain the purpose of these policies
- Discuss DND/CAF role in the Whole of Government, its structure and Strategic Environment

Module 1 - Government of Canada Direction

Main Topics:

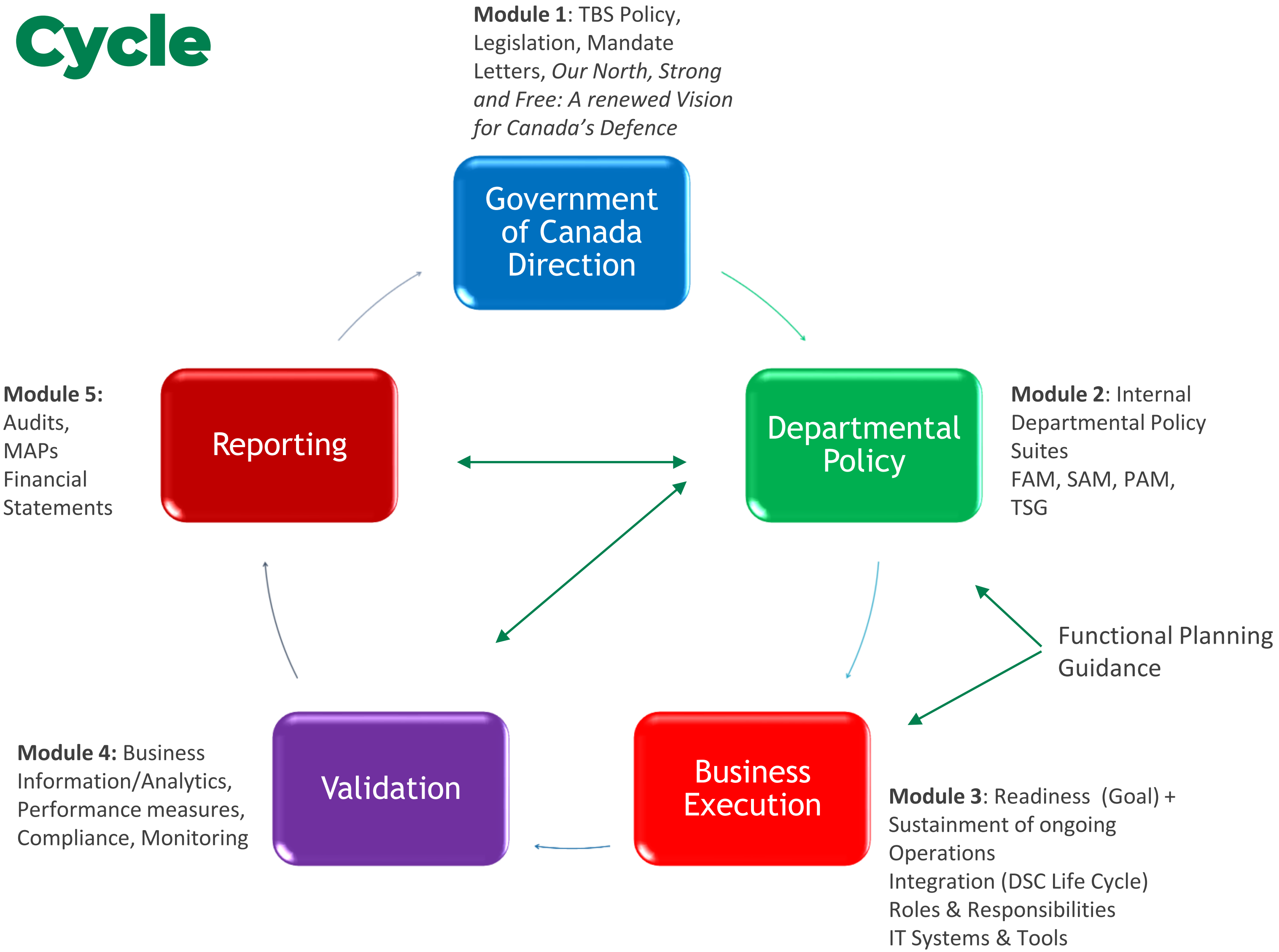
1. Legislative Framework
2. Governmental Expectations
3. Purpose
4. Additional Context

slido

Activity 1-1

Join at slido.com
Event code: DSC

The Cycle



Module 1: TBS Policy, Legislation, Mandate Letters, *Our North, Strong and Free: A renewed Vision for Canada's Defence*

Government of Canada Direction

Module 2: Internal Departmental Policy Suites
FAM, SAM, PAM,
TSG

Departmental Policy

Functional Planning Guidance

Business Execution

Module 3: Readiness (Goal) +
Sustainment of ongoing Operations
Integration (DSC Life Cycle)
Roles & Responsibilities
IT Systems & Tools

Validation

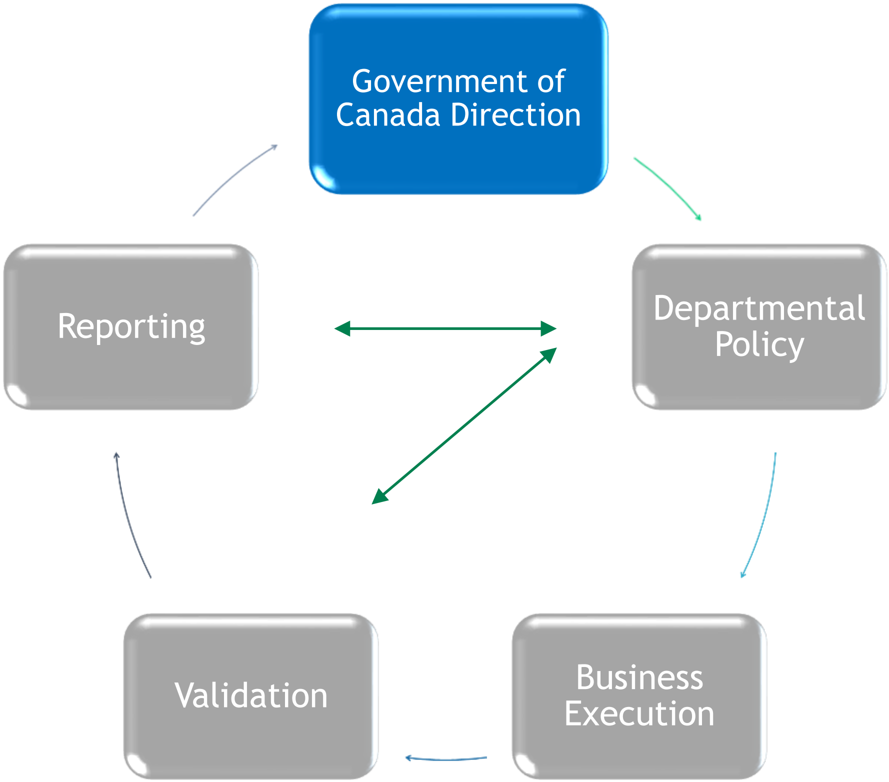
Module 4: Business Information/Analytics,
Performance measures,
Compliance, Monitoring

Reporting

Module 5:
Audits,
MAPs
Financial
Statements

The Cycle

Module 1: TBS Policy, Legislation, Mandate Letters, *Strong Secure Engaged*: Canada's Defence Policy



Government of Canada Direction

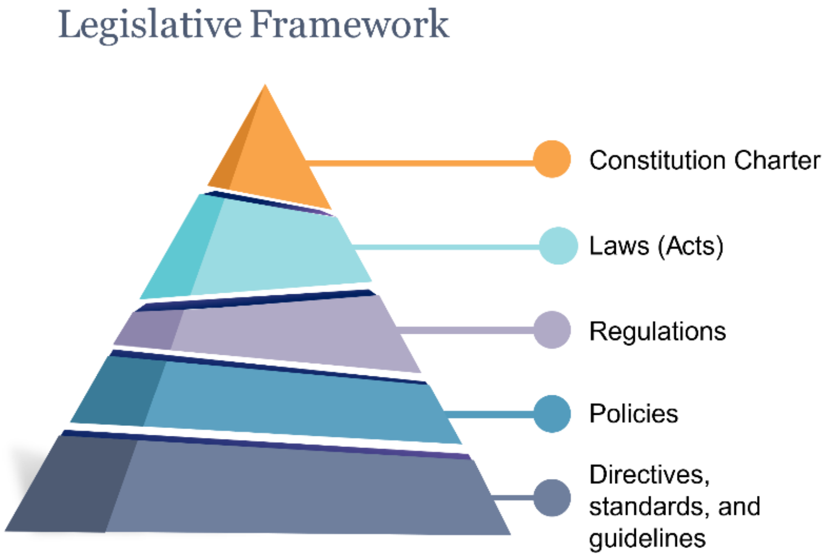
Departmental Policy

Business Execution

Validation

Reporting

Topic #1: Legislative Framework



Legislative Framework

Constitution Charter
Laws (Acts)
Regulations
Policies
Directives, standards, and guidelines

- Legislation/Acts
- Regulations
- International Agreements
- Mandate Letters
- *Strong Secure Engaged*: Canada’s Defence Policy (2017-2024)
- *Our North, Strong and Free: A renewed Vision for Canada’s Defence*
- Government Policy Objectives (*Green & Indigenous Procurement*)
- Treasury Board Directives

Some Key Higher Order Direction

a. National Defence Act (R.S.C., 1985, c. N-5);

b. Federal Accountability Act (S.C.2006, c.9);

c. Defence Production Act (R.S.C., 1985, c. D-1);

d. Financial Administration Act (FAA);

e. Surplus Crown Assets Act (R.S.C., 1985, c. S-27);

f. Security of Information Act (justice.gc.ca);

g. Export and Import Permits Act (R.S.C., 1985, c.E-19);

h. Federal Real Property and Federal Immovables Act (S.C. 1991, c.50);

i. Hazardous Products Act (R.S.C., 1985, c.H-3);

j. The International Traffic in Arms Regulations (ITAR);

k. Controlled Technology Access and Transfer (CTAT);

l. Controlled Goods Regulations;

m. Arms Trade Treaty;

n. Treasury Board - Directive on the Management of Materiel

Individual Topics

a. Alternative Fuels Act;
b. Emergencies Act;
c. Canadian Environmental Protection Act, 1999 and associated regulations;
d. Transportation of Dangerous Goods Act, 1992;
e. Liquefied Petroleum Gases Bulk Storage Regulations
f. Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations, SOR/2008-197;
g. Criminal Code of Canada
h. Government Contracts Regulations (SOR.87-402);
i. Public Services and Procurement Canada (PSPC) Policy and Guidelines- Supply Manual;
j. Public Services and Procurement Canada (PSPC) Green Procurement;
k. TBITS 25: Materiel Coding – Implementation Criteria
l. STANAGs

Topic #2: Governmental Expectations

- Program Delivery
- Sound Stewardship
- Value for Money
- Open, Fair, Transparent
- These are consistent across directives on
  - Materiel management
  - Procurement
  - Real Property and
  - Investment Planning

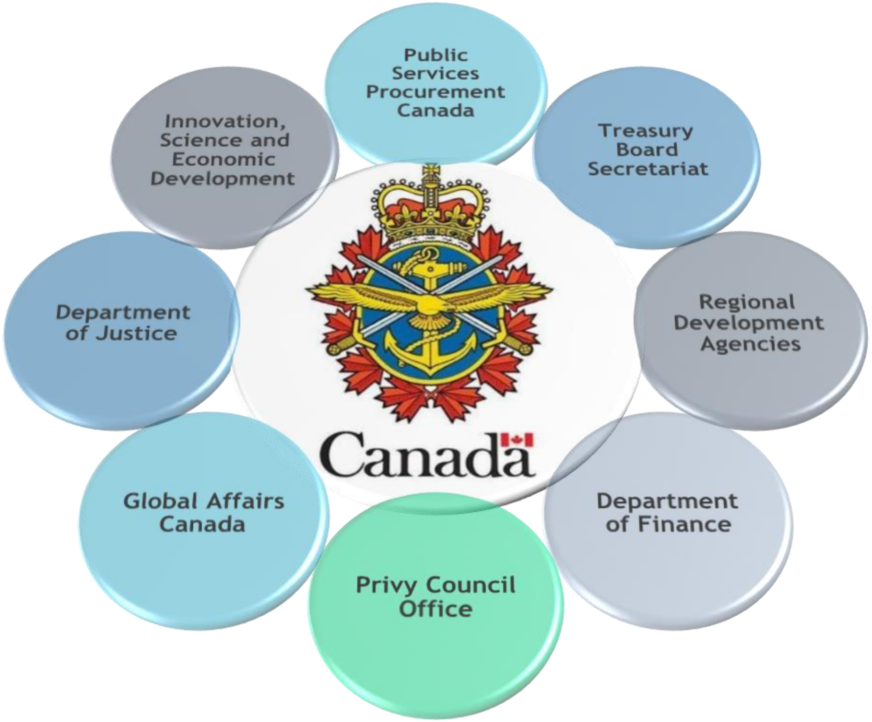
Topic #3: Purpose of the Policies

- Standardization across Government
- Demonstration of Due Diligence with Resources from the Government of Canada
- Alignment with the Values and Ethics of Canada
- Safety and Security

Topic #4: Additional Context

- National Defence within the Whole of Government
- National Defence Leadership Structure – Governance of the DSC
- Strategic Environment

National Defence in the "Whole of Government"



Public Services Procurement Canada

Treasury Board Secretariat

Regional Development Agencies

Department of Finance

Privy Council Office

Global Affairs Canada

Department of Justice

Innovation, Science and Economic Development

Canada

Defence Management: A Government of Canada activity involving multiple Departments

DSC Leadership Structure

Minister of National Defence

Hon Bill Blair

Deputy Minister National Defence

Stephanie Beck

Chief of Defence Staff

Gen Wayne Eyre

ADM(Materiel)

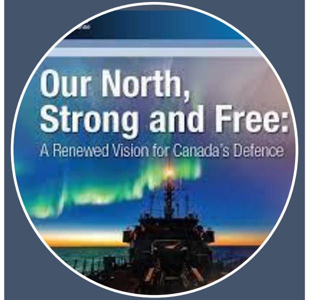
Troy Crosby

Strategic J4

BGen Girouard

Joint Accountability for the Defence Supply Chain

Strategic Environment


Our North, Strong and Free:
A Renewed Vision for Canada's Defence

Defence Policy Update

Defence Procurement Review

Support to Ukraine

Defence Capability Modernization

MEDIUM
LOW
HIGH
RISK

Supply Chain Risk

DSC Business Modernization

slido

Module 1: Question & Answer

Join at slido.com
Event code: DSC

Key Takeaways

- That Internal Policies and Directives are linked to External Policies, Legislation and Directives and there are a lot of them
- Standardization across the government for Government of Canada initiatives and expectations
- They key expectations of GoC are repeated across Policy Instruments

End of Module 1

DSC Business Acumen

Module 2

Departmental Policy

Bronwynn Guymer

Section Head

DMPP 7

Learning objectives

Module 2 - Departmental Policy

At the end of this module, you will be able to:

- Identify key Internal Policy Instruments
- Describe the Aspects of Policy Design
- Describe the concept of Integration, Integration, Integration.

Module 2 - Departmental Policy

Main Topics:

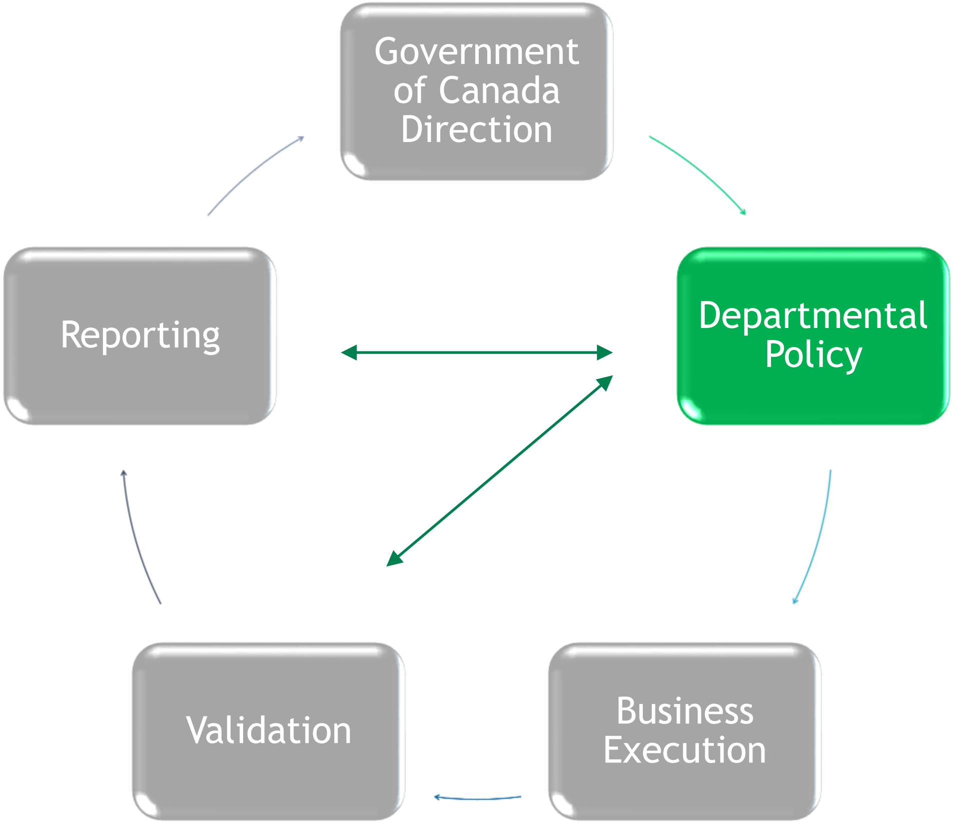
1. Key Internal Policies
2. Aspects of Policy Design
3. Integration in Policy

slido

Activity 2-1

Join at slido.com
Event code: DSC

The Cycle



Government of Canada Direction

Departmental Policy

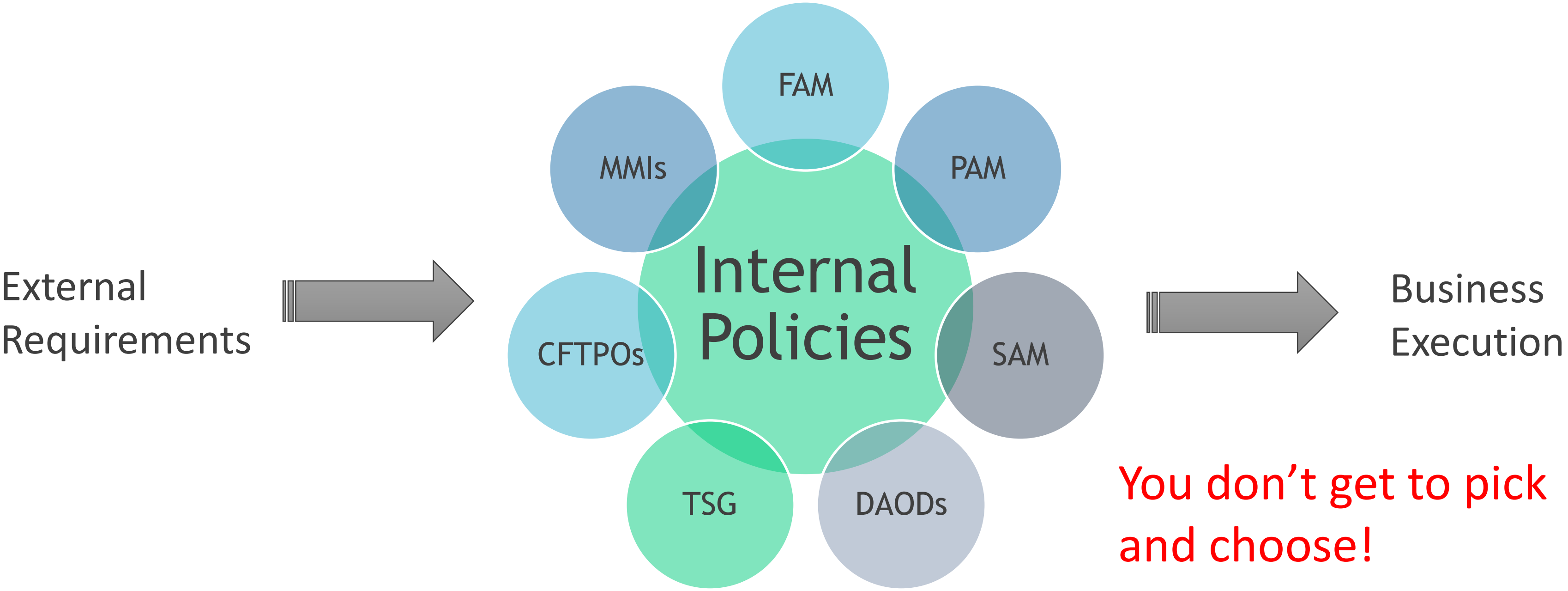
Business Execution

Validation

Reporting

Module 2: Internal Departmental Policy Suites
FAM, SAM, PAM, TSG

Topic #1: Key Internal Policies


External Requirements
FAM
MMIs
PAM
Internal Policies
CFTPOs
SAM
TSG
DAODs
Business Execution

You don’t get to pick and choose!

Topic #2: Aspects Policy Design

Functional

Internal Business Processes

Lifecycle Management of Materiel

Planning

Acquisition

Operations & Maintenance

Divestment

Cross Functional

Operational

Materiel Management

Financial (Budgeting/Public Statements

Engineering & Maintenance

Distribution

Procurement

Sustainment

Enablers

Policies, Processes & Procedures

Roles & Authorities

Training

Knowledge Management

Accountability

Internal Controls

BI/Reporting

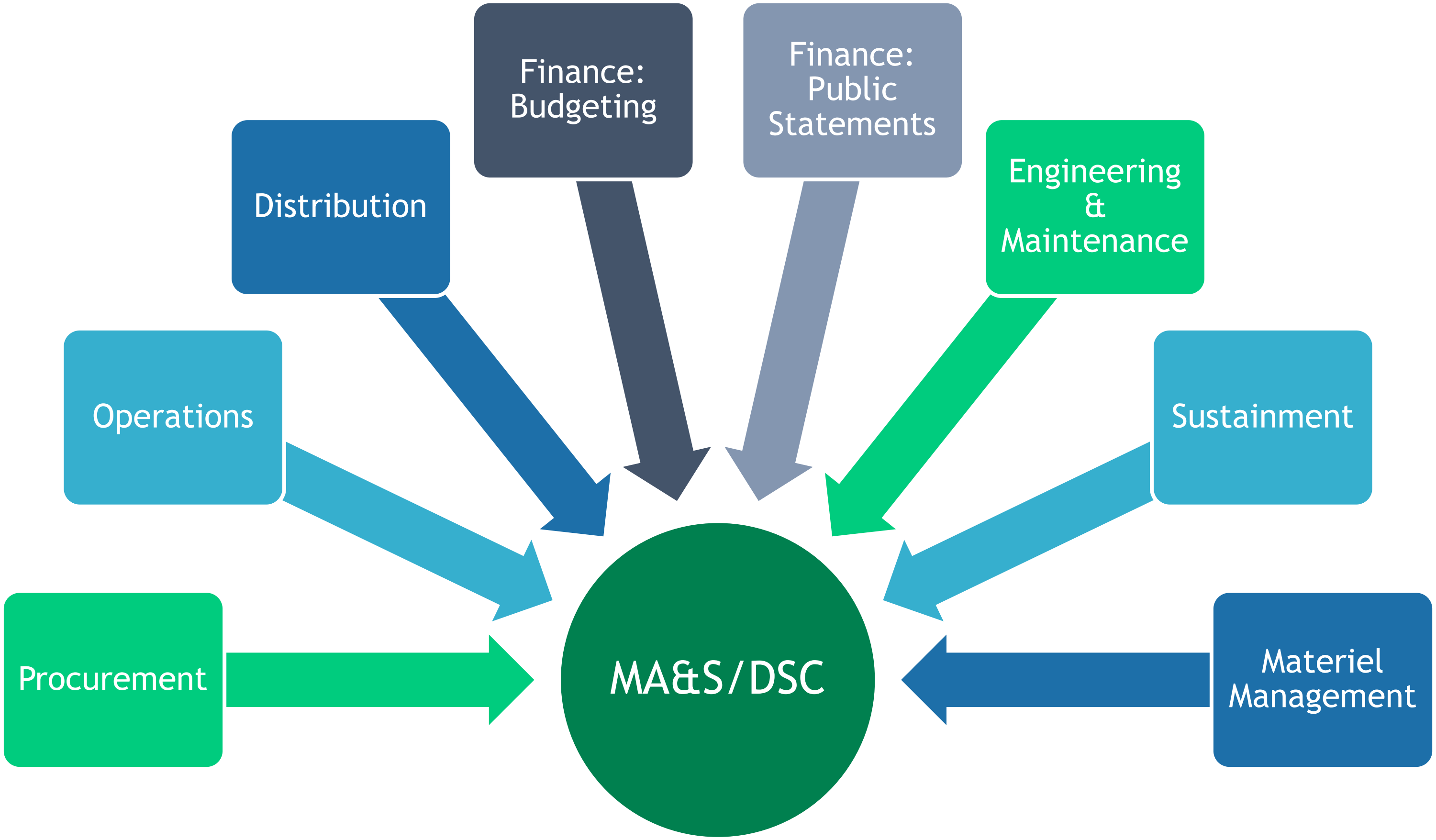
Compliance

Monitoring

System/SAP

Integration, Integration, Integration

Topic #3: Integration in Policy



Finance: Budgeting

Finance: Public Statements

Distribution

Engineering & Maintenance

Operations

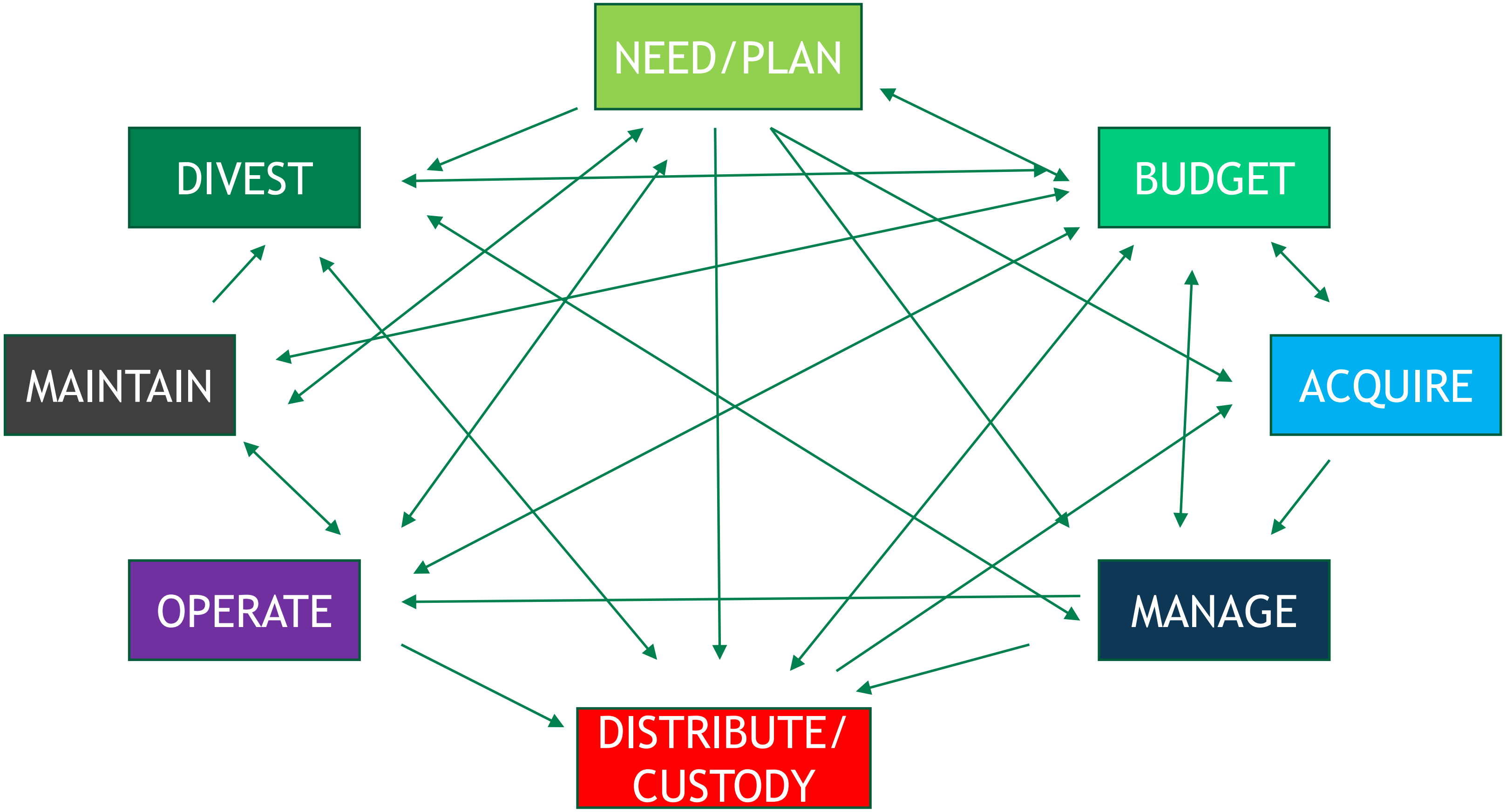
Sustainment

Procurement

MA&S/DSC

Materiel Management

Integration


NEED/PLAN
DIVEST
BUDGET
MAINTAIN
ACQUIRE
OPERATE
MANAGE
DISTRIBUTE/ CUSTODY

slido

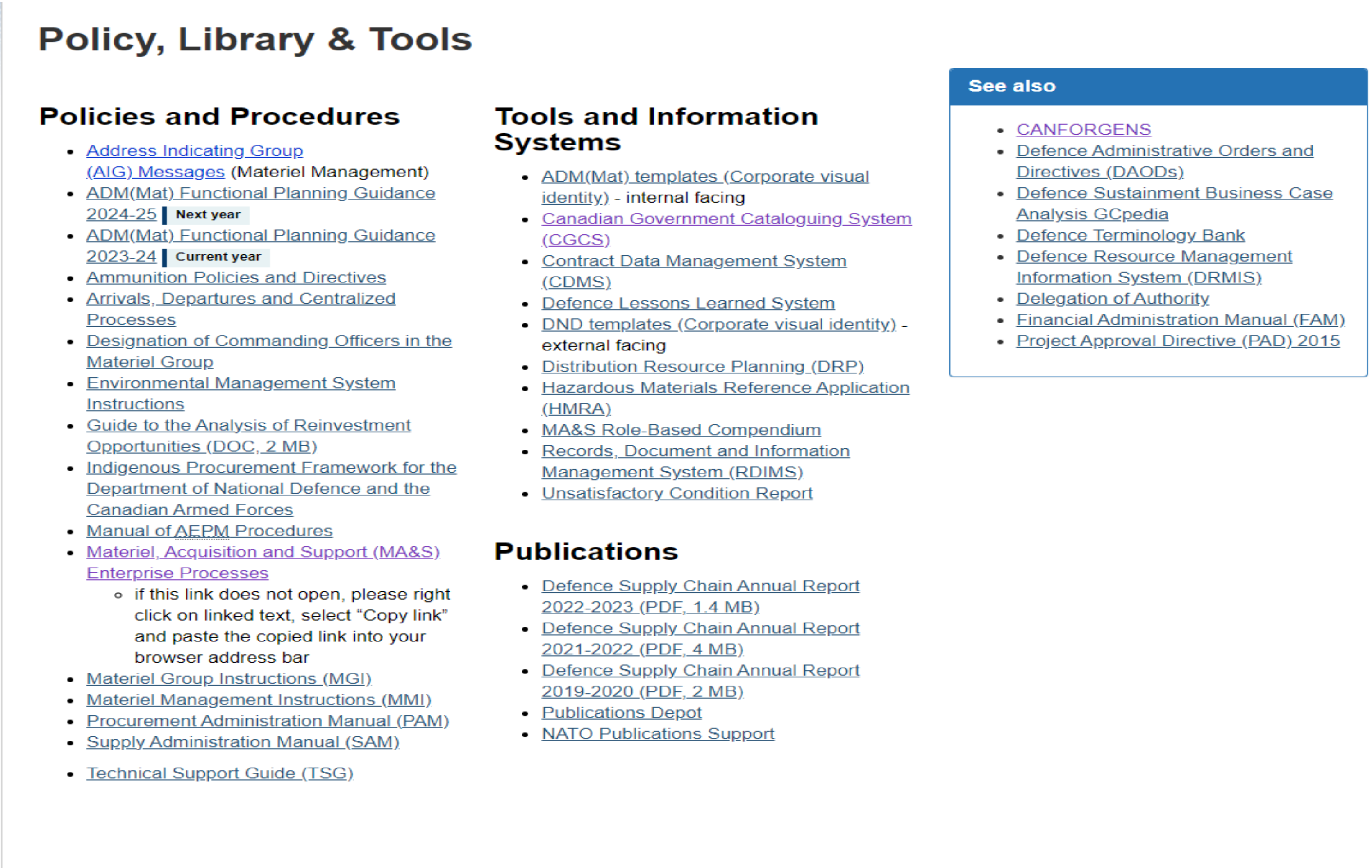
Module 2: Question & Answer

Join at slido.com
Event code: DSC

Key Takeaways

- Synthesize the applicable GoC Directions
- Are a key part of Knowledge Management
- Integration: Functional Area
- Integration: Cross Functionally
- Integration: Enablers

Additional Resources



Policy, Library & Tools

Policies and Procedures

- Address Indicating Group (AIG) Messages (Materiel Management)
- ADM(Mat) Functional Planning Guidance 2024-25 **Next year**
- ADM(Mat) Functional Planning Guidance 2023-24 **Current year**
- Ammunition Policies and Directives
- Arrivals, Departures and Centralized Processes
- Designation of Commanding Officers in the Materiel Group
- Environmental Management System Instructions
- Guide to the Analysis of Reinvestment Opportunities (DOC, 2 MB)
- Indigenous Procurement Framework for the Department of National Defence and the Canadian Armed Forces
- Manual of AEPM Procedures
- Materiel, Acquisition and Support (MA&S) Enterprise Processes
    - if this link does not open, please right click on linked text, select "Copy link" and paste the copied link into your browser address bar
- Materiel Group Instructions (MGI)
- Materiel Management Instructions (MMI)
- Procurement Administration Manual (PAM)
- Supply Administration Manual (SAM)
- Technical Support Guide (TSG)

Tools and Information Systems

- ADM(Mat) templates (Corporate visual identity) - internal facing
- Canadian Government Cataloguing System (CGCS)
- Contract Data Management System (CDMS)
- Defence Lessons Learned System
- DND templates (Corporate visual identity) - external facing
- Distribution Resource Planning (DRP)
- Hazardous Materials Reference Application (HMRA)
- MA&S Role-Based Compendium
- Records, Document and Information Management System (RDIMS)
- Unsatisfactory Condition Report

Publications

- Defence Supply Chain Annual Report 2022-2023 (PDF, 1.4 MB)
- Defence Supply Chain Annual Report 2021-2022 (PDF, 4 MB)
- Defence Supply Chain Annual Report 2019-2020 (PDF, 2 MB)
- Publications Depot
- NATO Publications Support

See also

- CANFORGENS
- Defence Administrative Orders and Directives (DAODs)
- Defence Sustainment Business Case Analysis GCpedia
- Defence Terminology Bank
- Defence Resource Management Information System (DRMIS)
- Delegation of Authority
- Financial Administration Manual (FAM)
- Project Approval Directive (PAD) 2015

End of Module 2

Break
15 Mins

DSC Business Acumen

Module 3

DSC Business Execution

Foundational Knowledge Elements

Wade Knorr

ERP Senior Business Integration Architect
DGMEPM

Nihal Basnayake

ERP Senior Systems Analyst
DGAEPM

Module 3G - DSC Business Execution MAIN TOPICS

A. Core Supply Chain Concepts, Goals and Operation
B. Integration in the DSC
C. Materiel Requirements Planning (MRP) Concepts
D. Roles & Responsibilities
E. IT Systems & Tools
F. Enabling the Smooth Flow of Data and Materiel

Learning objectives

Module 3 – DSC Business Execution Section A. Core Supply Chain Concepts, Goals and Operation

At the end of this Section, you will be able to:

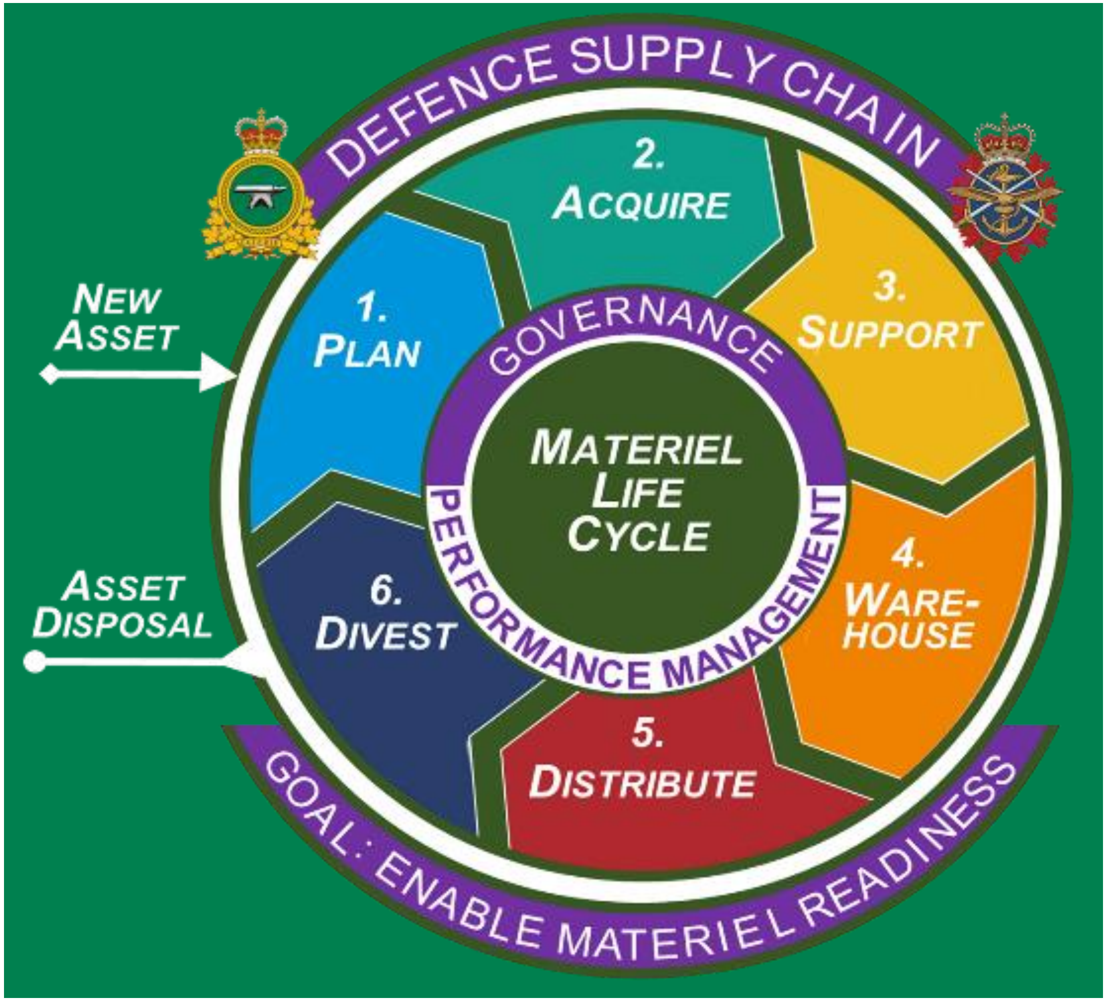
- Explain the purpose, scope and depth and key activities of the DSC
- Articulate the vision/mission, and the strategic objectives and attributes of the DSC
- Describe the key building blocks of a DSC Model
- Explain the types of demands at various lines of supply and distribution concepts

DSC Definition, Goal and Key Business Activities

DEFINITIONS

Defence Supply Chain (DSC Governance Charter): The DSC is from **beginning to end supply functions** housed within the National Defence Organizations, other government Departments and industry to deliver **materiel sustainment** to the Canadian Armed Forces.

Materiel Sustainment (*soutien du matériel*)(DAOD 3005-0): Coordinated activities required to support materiel throughout its service life. (Defence Terminology Bank record number 694822)


DEFENCE SUPPLY CHAIN
NEW ASSET
ASSET DISPOSAL
1. PLAN
2. ACQUIRE
3. SUPPORT
4. WARE-HOUSE
5. DISTRIBUTE
6. DIVEST
GOVERNANCE
PERFORMANCE MANAGEMENT
MATERIEL LIFE CYCLE
GOAL: ENABLE MATERIEL READINESS

DSC Mission/Vision

- **Mission**: The mission of the DSC is to deliver…
  - ✓ ***the right materiel***
  - ✓ ***at the right place and time***
  - ✓ ***in the right condition***

  as required by the Canadian Armed Forces in as ***cost-effective manner*** as possible.

  Achievement of the mission also requires the materiality and stewardship demands of the Government of Canada be adhered to

- **Vision**: The DSC…
  - ○ is an **agile and efficient end-to-end strategic capability** that fully meets the materiel support requirements of the Canadian Armed Forces and the stewardship obligations of the Government of Canada.
  - ○ employs **evidence-based decision making**, **modernized processes and technologies**, and is delivered by military and civilian professionals committed to continuous improvement.

Types of Materiel in the DSC

Operational Weapons Systems

Complex Components and Parts

Consumables
(e.g. POL, nuts & bolts, etc)

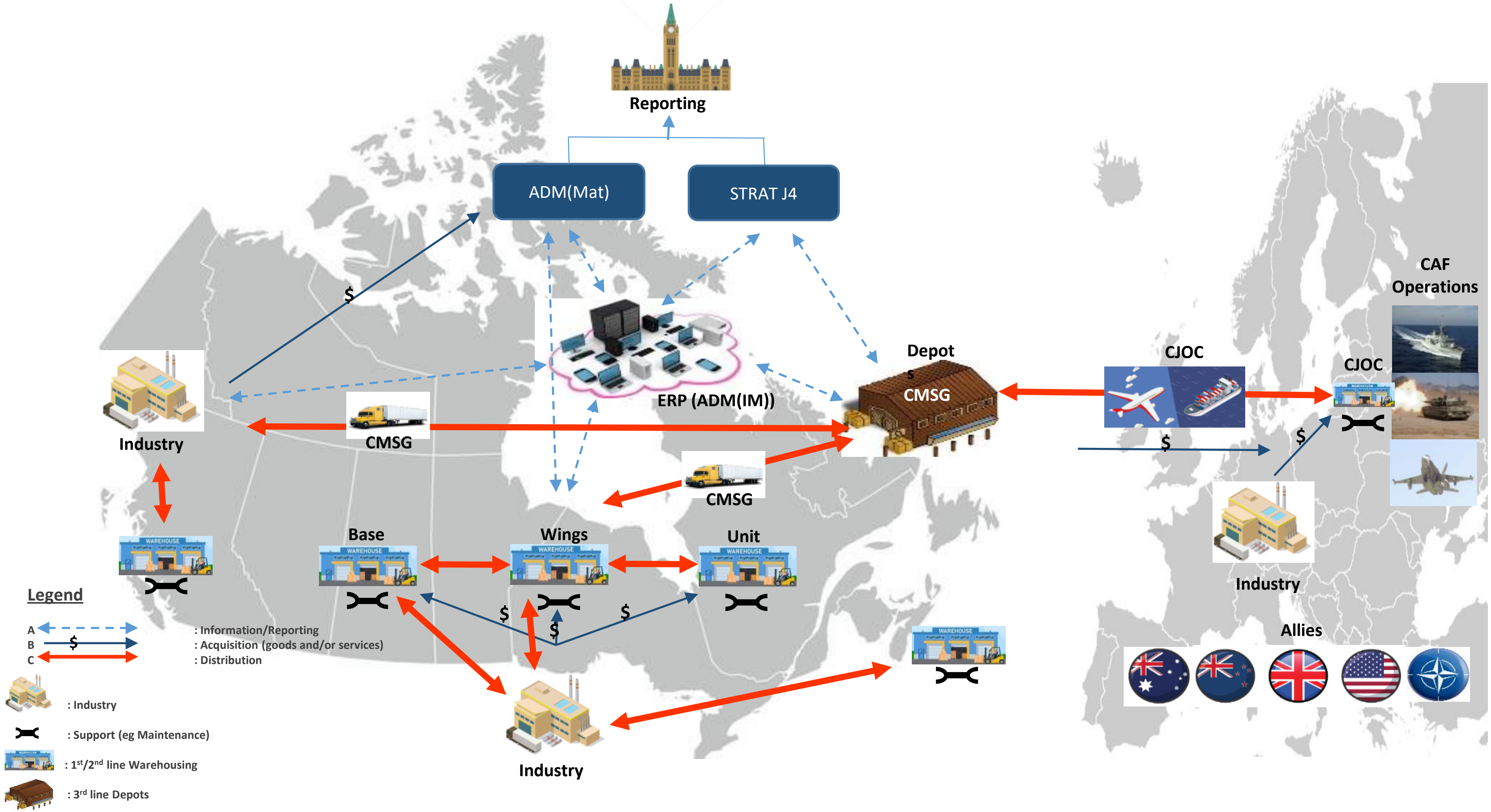
Support & Test Equip

Ammunition

Military Clothing, Rations and much more!

Materiel Accountability
~ 600M stocked items ~ $6B inventory & ammo ~ $74B assets & weapon systems

Introduction: Core Supply Chain Concepts, Goals and Operation
The Defence Supply Chain Illustrated


Reporting
ADM(Mat)
STRAT J4
$
ERP (ADM(IM))
Depot
$
CMSG
CJOC
CJOC
CAF Operations
Industry
CMSG
CMSG
$
$
Base
Wings
Unit
$
$
$
WAREHOUSE
Industry
Allies
Industry

Legend

A : Information/Reporting
B $: Acquisition (goods and/or services)
C : Distribution

: Industry

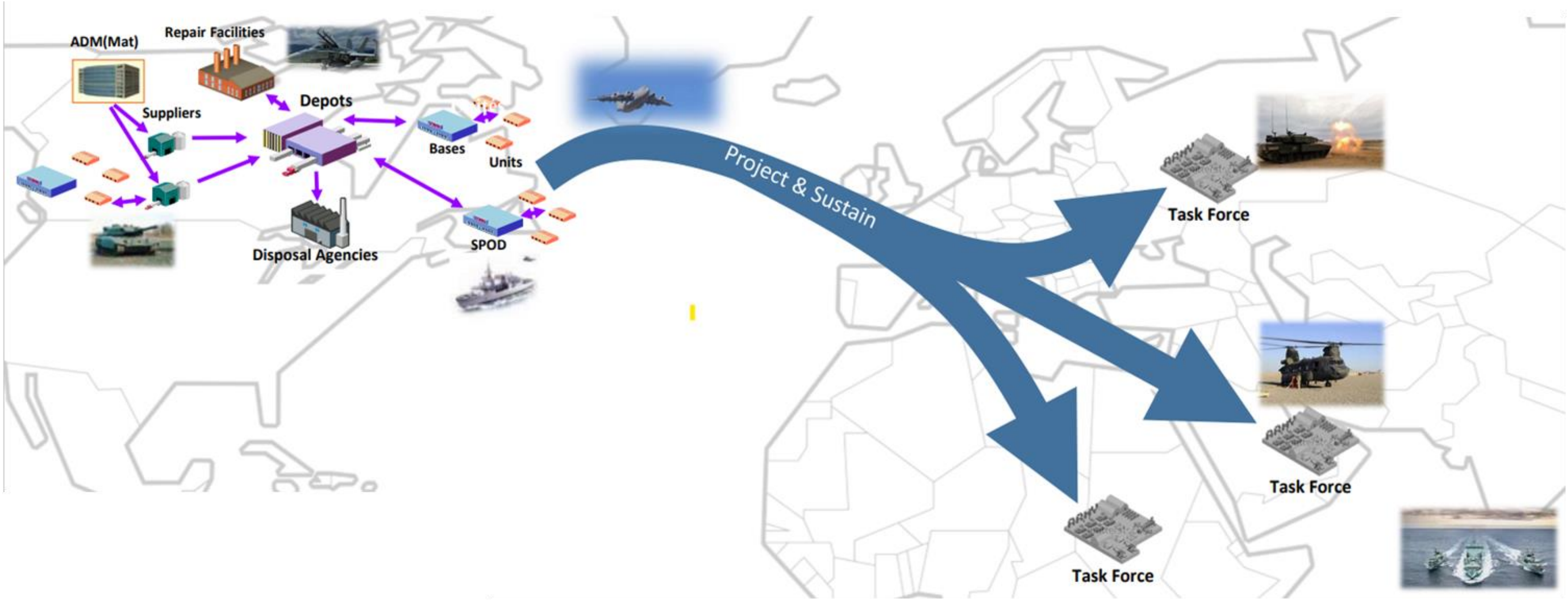
: Support (eg Maintenance)

: 1st/2nd line Warehousing

: 3rd line Depots

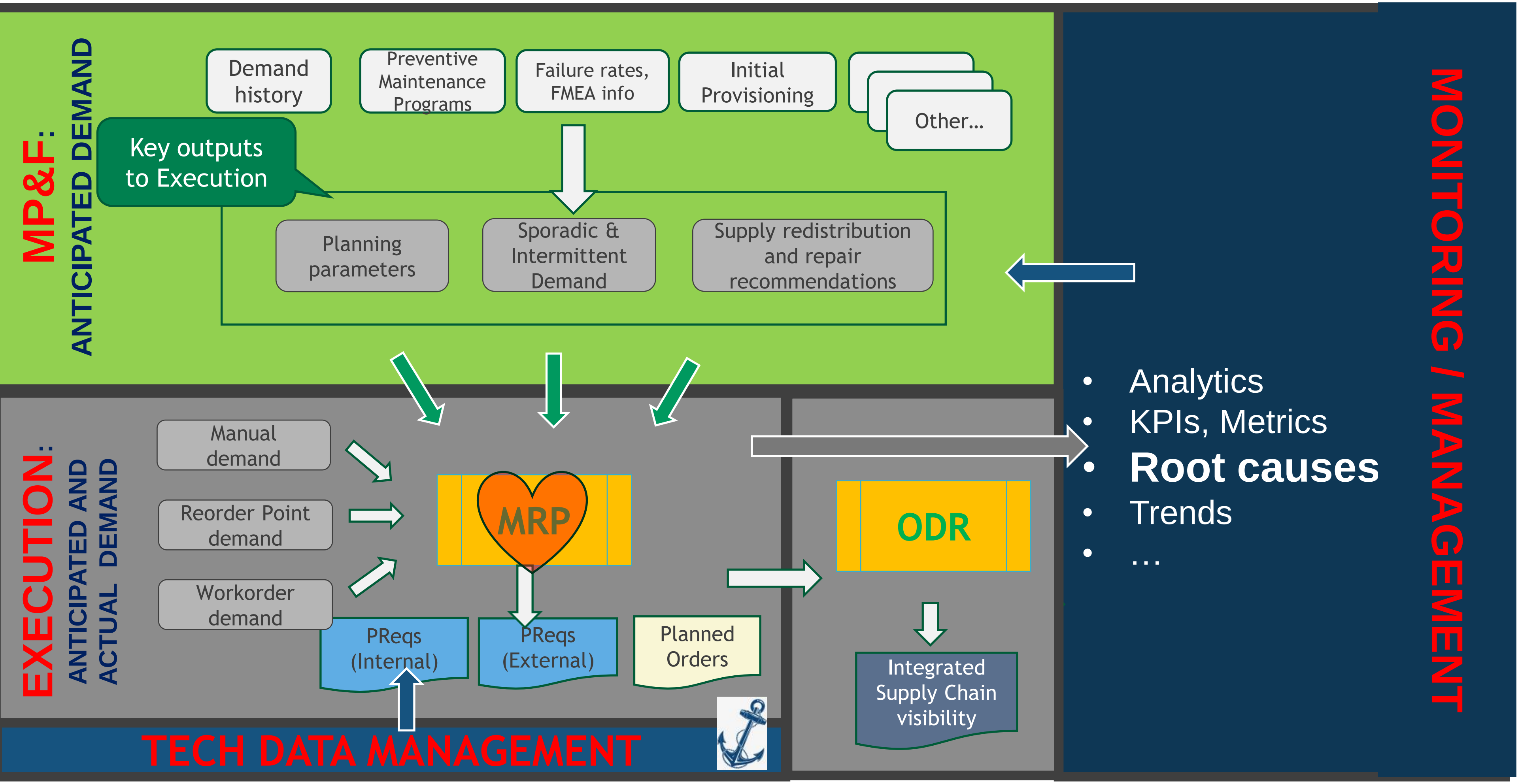
Introduction: Core Supply Chain Concepts, Goals and Operation

DSC Illustration to Highlight Primacy of Support to Operations


ADM(Mat)
Repair Facilities
Suppliers
Depots
Bases
Units
Disposal Agencies
SPOD
Project & Sustain
Task Force
Task Force
Task Force

Introduction: Core Supply Chain Concepts, Goals and Operation

A Defence Supply Chain Architectural Framework



MP&F: ANTICIPATED DEMAND

Demand history

Preventive Maintenance Programs

Failure rates, FMEA info

Initial Provisioning

Other…

Key outputs to Execution

Planning parameters

Sporadic & Intermittent Demand

Supply redistribution and repair recommendations

EXECUTION: ANTICIPATED AND ACTUAL DEMAND

Manual demand

Reorder Point demand

Workorder demand

MRP

PReqs (Internal)

PReqs (External)

Planned Orders

TECH DATA MANAGEMENT

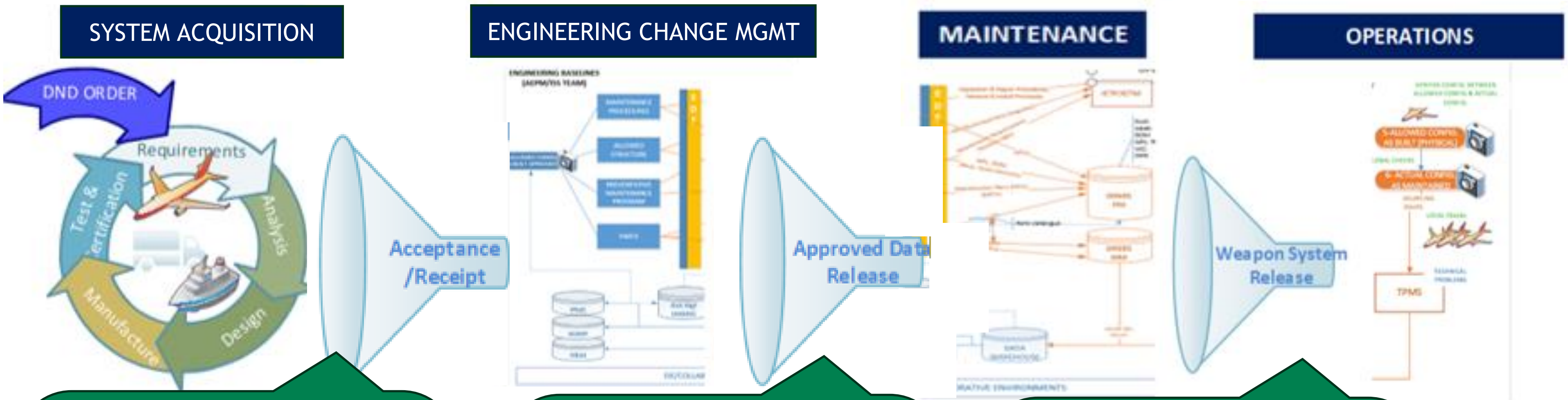
ODR

Integrated Supply Chain visibility

MONITORING / MANAGEMENT

- Analytics
- KPIs, Metrics
- **Root causes**
- Trends
- …

Introduction: Core Supply Chain Concepts, Goals and Operation
The 3 Funnels of the DSC


DND ORDER
Requirements
Analysis
Design
Manufacture
Test & Certification
Acceptance /Receipt
Approved Data Release
Weapon System Release

SYSTEM ACQUISITION

ENGINEERING CHANGE MGMT

MAINTENANCE

OPERATIONS

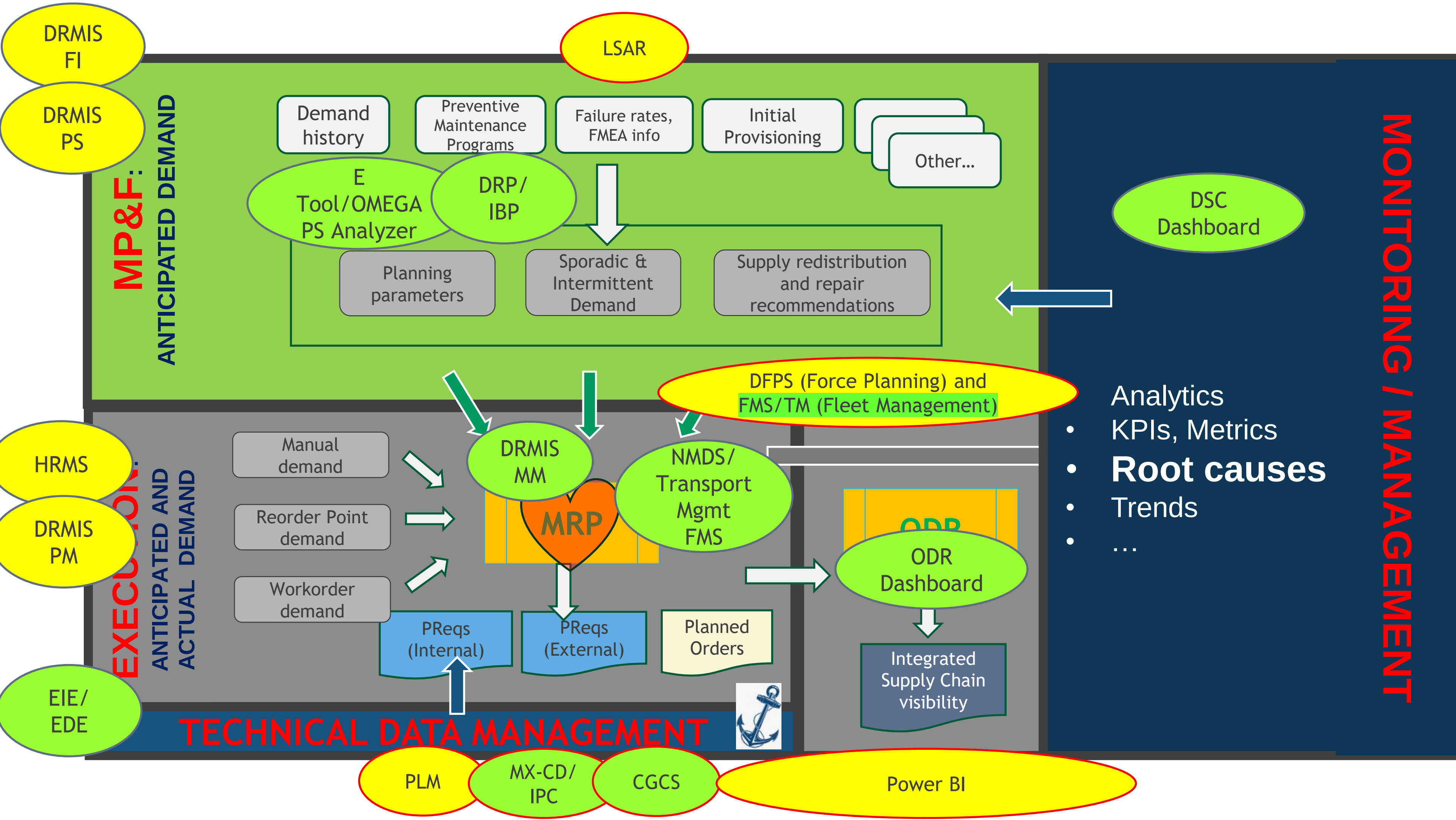
1. Ops System Delivery
2. Physical Audit
3. Technical Data Package-As-Built Configuration
4. Procurement matches Financials
5. Transfer of Ownership

1. Technical Publications
2. Master Data
3. Configuration Status Accounting for As-Maintained Configuration
4. DRMIS Baselined

1. PM – maintenance transactional records and usage tracking
2. MM – materiel transactional records
3. Weapon System Technical Status (for use by Operations)

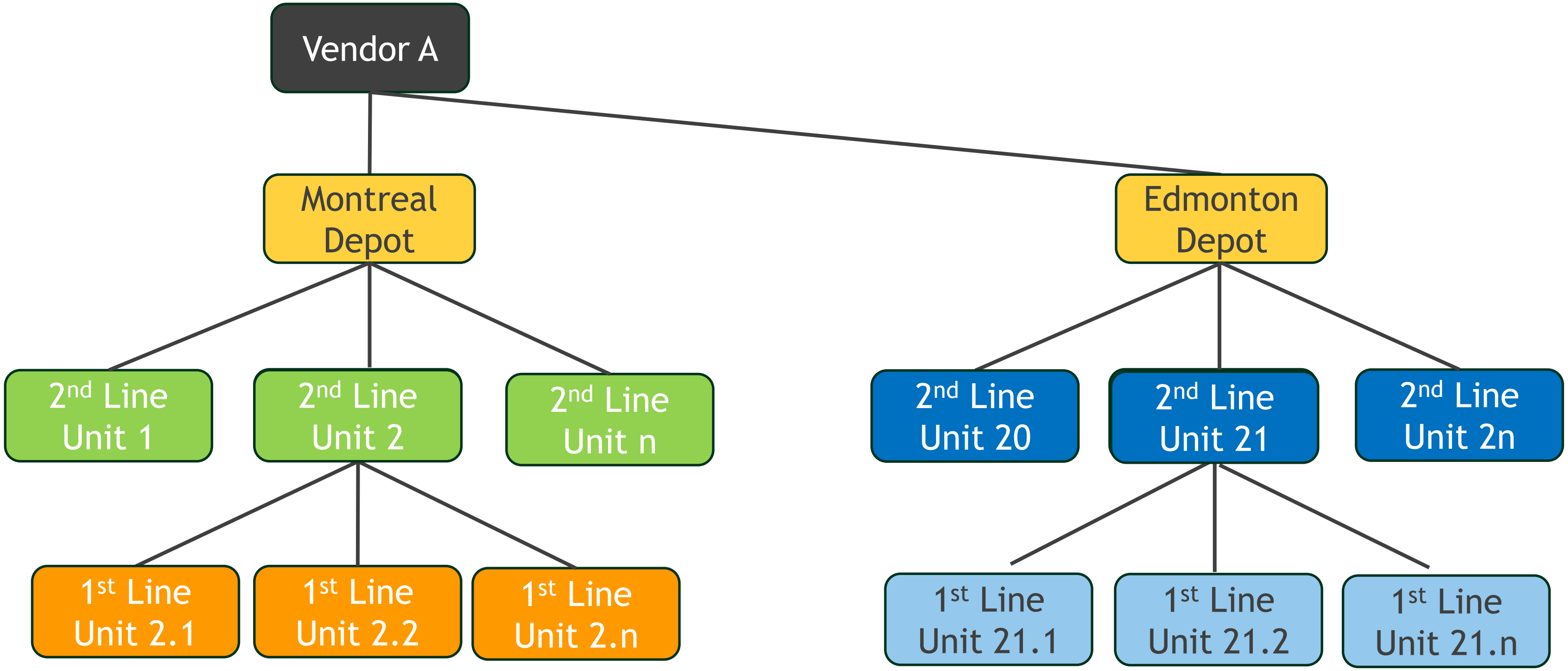
The DSC Architectural Framework is IM/IT Enabled

DRMIS Modules which are Interfaced with each other and External Systems


DRMIS FI
DRMIS PS
LSAR
MP&F:
ANTICIPATED DEMAND
Demand history
Preventive Maintenance Programs
Failure rates, FMEA info
Initial Provisioning
Other…
E Tool/OMEGA PS Analyzer
DRP/ IBP
Planning parameters
Sporadic & Intermittent Demand
Supply redistribution and repair recommendations
DSC Dashboard
MONITORING / MANAGEMENT
DFPS (Force Planning) and FMS/TM (Fleet Management)
HRMS
DRMIS PM
EXECU ION:
ANTICIPATED AND ACTUAL DEMAND
Manual demand
Reorder Point demand
Workorder demand
DRMIS MM
MRP
NMDS/ Transport Mgmt FMS
ODR
ODR Dashboard
PReqs (Internal)
PReqs (External)
Planned Orders
Integrated Supply Chain visibility
Analytics
KPIs, Metrics
Root causes
Trends
…
EIE/ EDE
TECHNICAL DATA MANAGEMENT
PLM
MX-CD/ IPC
CGCS
Power BI

Bubbles identify IT Systems and Tools. Light green bubbles are the most used by the DSC community of practice.

DSC Lines of Supply



Vendor A

Montreal Depot

Edmonton Depot

2nd Line Unit 1

2nd Line Unit 2

2nd Line Unit n

2nd Line Unit 20

2nd Line Unit 21

2nd Line Unit 2n

1st Line Unit 2.1

1st Line Unit 2.2

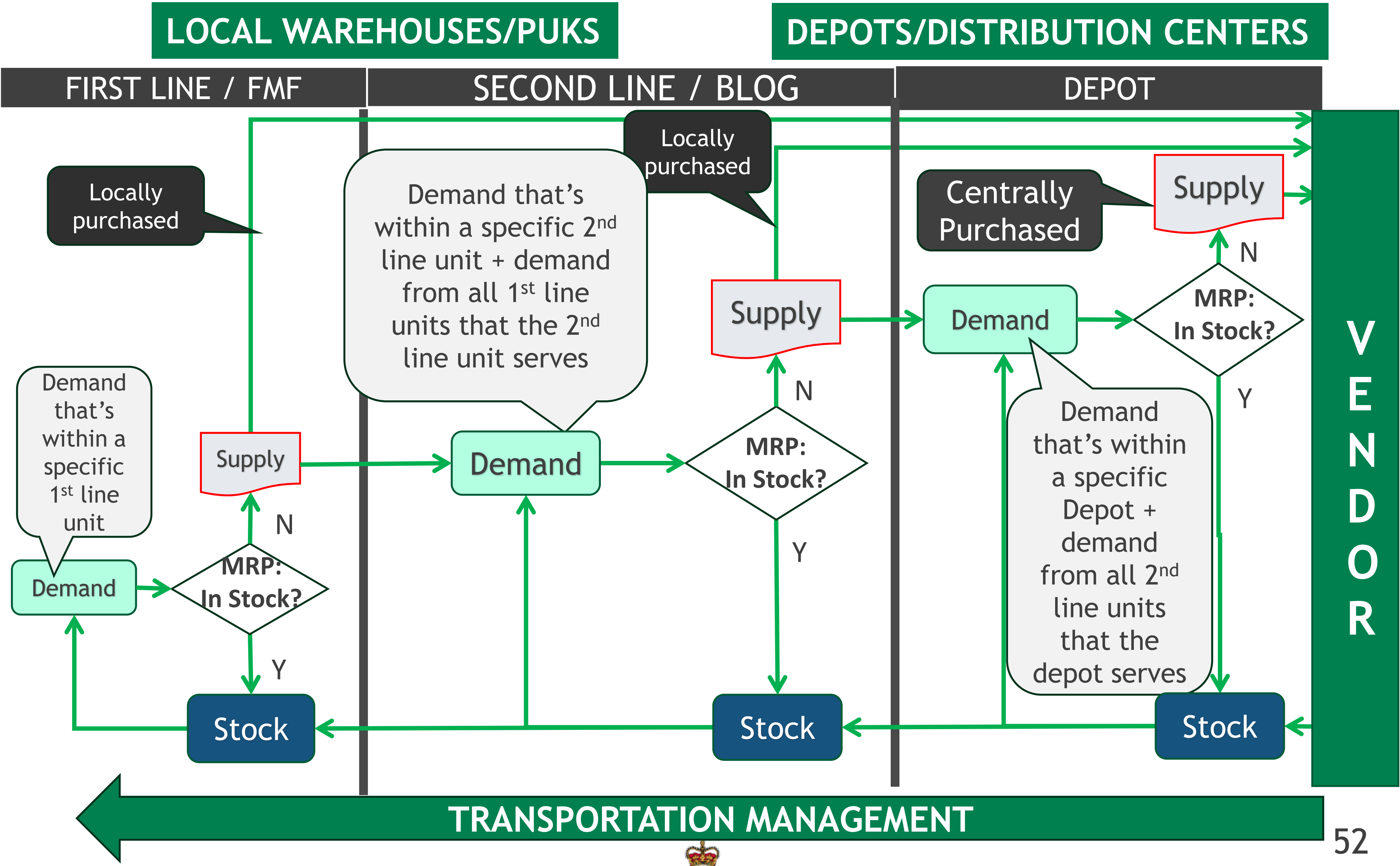
1st Line Unit 2.n

1st Line Unit 21.1

1st Line Unit 21.2

1st Line Unit 21.n

DSC Process Steps Across Lines of Supply-Simplified



LOCAL WAREHOUSES/PUKS

DEPOTS/DISTRIBUTION CENTERS

FIRST LINE / FMF

SECOND LINE / BLOG

DEPOT

Locally purchased

Demand that's within a specific 1st line unit

Demand that's within a specific 2nd line unit + demand from all 1st line units that the 2nd line unit serves

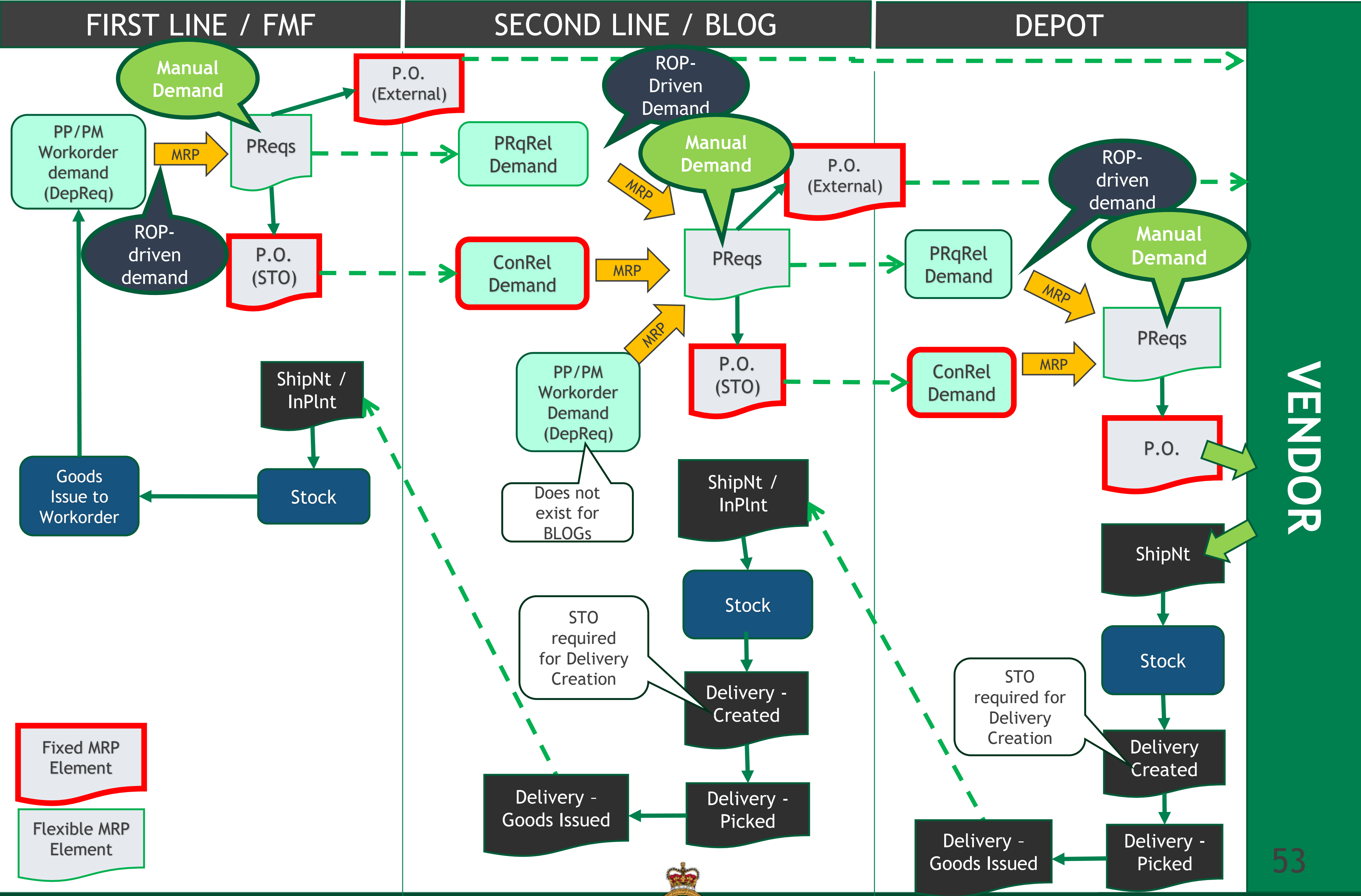
Locally purchased

Centrally Purchased

Demand that's within a specific Depot + demand from all 2nd line units that the depot serves

Demand
MRP: In Stock?
N
Supply
Y
Stock
Demand
MRP: In Stock?
N
Supply
Y
Stock
Demand
MRP: In Stock?
N
Supply
Y
Stock
VENDOR
TRANSPORTATION MANAGEMENT

DSC Process Steps within DRMIS



FIRST LINE / FMF

SECOND LINE / BLOG

DEPOT

VENDOR

Manual Demand

PP/PM Workorder demand (DepReq)

MRP

PReqs

P.O. (External)

ROP-driven demand

P.O. (STO)

ShipNt / InPlnt

Stock

Goods Issue to Workorder

PRqRel Demand

ConRel Demand

MRP

ROP-Driven Demand

Manual Demand

MRP

P.O. (External)

PReqs

MRP

PP/PM Workorder Demand (DepReq)

Does not exist for BLOGs

P.O. (STO)

ShipNt / InPlnt

Stock

STO required for Delivery Creation

Delivery - Created

Delivery - Picked

Delivery - Goods Issued

PRqRel Demand

ROP-driven demand

Manual Demand

MRP

PReqs

ConRel Demand

MRP

P.O.

ShipNt

Stock

STO required for Delivery Creation

Delivery Created

Delivery - Picked

Delivery - Goods Issued

Fixed MRP Element

Flexible MRP Element

DSC Roles/Actors

Governance

- Senior Designated Official
  - ADM(MAT)
- Strategic Joint Staff
- Level One Advisors

Materiel Managers

- Technical Authority (TA)
- Supply Manager (SM)
- Procurement Authority (PA)
- Record Control Officer (RCO)
- TARCO
- Central Data Manager (CDM)
- Lead Materiel Managers (local)
- DQA Technical Inspection

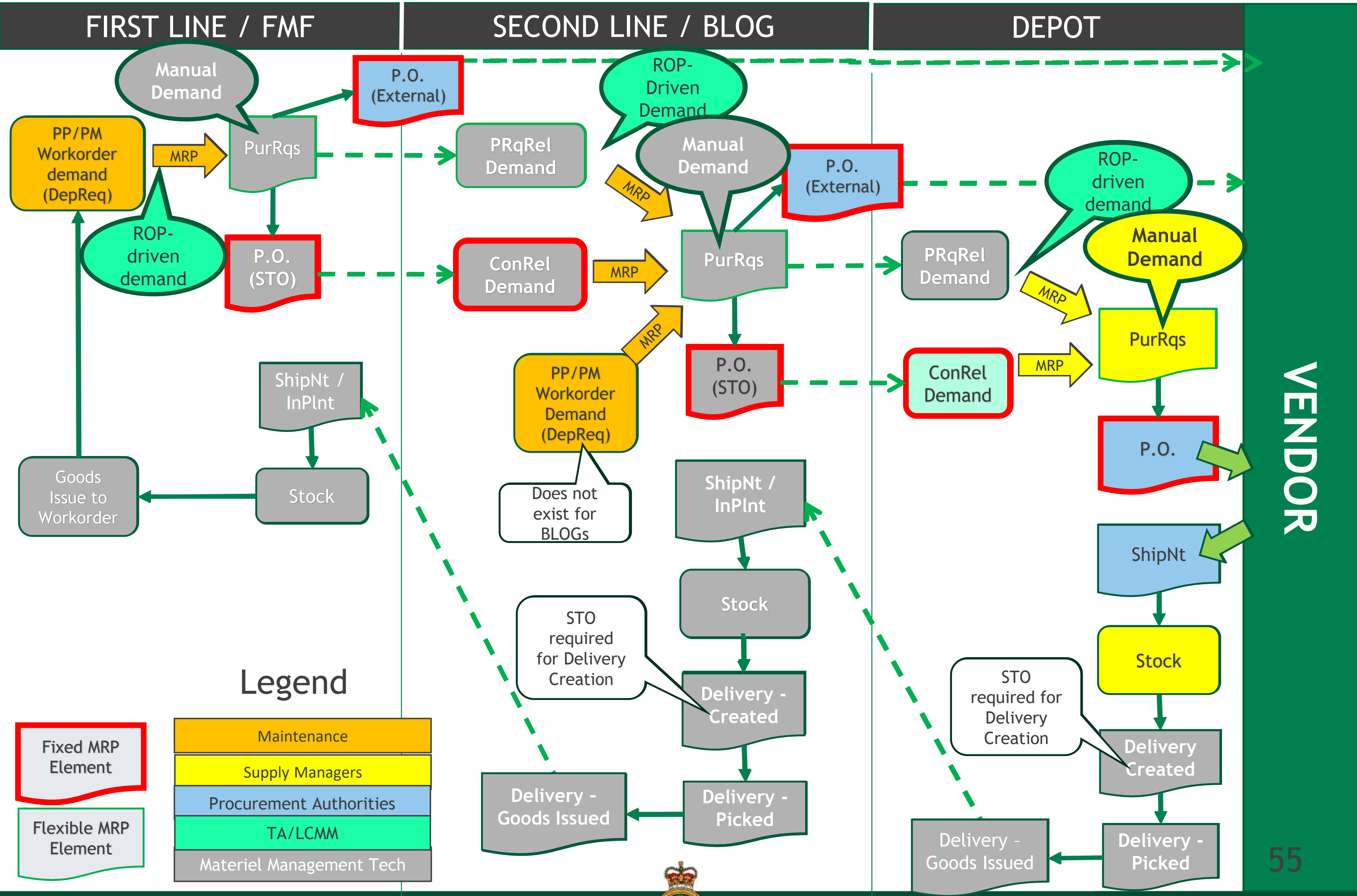
Materiel Custodians

- Supply Officer
- Materiel Control Officer
- MRP Controller
- Systems Control Officer
- Warehouse Manager/Supervisor
- Warehouse Operator
- Procurement Officer (Local)
- Technical Inspector (BWU and D)
- Local Supply Chain Coordinator

Materiel Users

- Maintainers
- Operators
- Account Holders
- QETE
- NETE
- AETE
- FMF
- 202 Workshop

DSC Process Steps within DRMIS – *PRIMARY* DSC Roles Overlay



FIRST LINE / FMF

Manual Demand

PP/PM Workorder demand (DepReq)

MRP

PurRqs

P.O. (External)

ROP-driven demand

P.O. (STO)

ShipNt / InPlnt

Stock

Goods Issue to Workorder

SECOND LINE / BLOG

PRqRel Demand

ConRel Demand

MRP

ROP-Driven Demand

Manual Demand

MRP

P.O. (External)

PurRqs

PP/PM Workorder Demand (DepReq)

MRP

Does not exist for BLOGs

P.O. (STO)

ShipNt / InPlnt

Stock

STO required for Delivery Creation

Delivery - Created

Delivery - Picked

Delivery - Goods Issued

DEPOT

PRqRel Demand

ROP-driven demand

Manual Demand

MRP

PurRqs

ConRel Demand

MRP

P.O.

ShipNt

Stock

STO required for Delivery Creation

Delivery Created

Delivery - Picked

Delivery - Goods Issued

VENDOR

Legend

Fixed MRP Element

Flexible MRP Element

- 🟧 Maintenance
- 🟨 Supply Managers
- 🟦 Procurement Authorities
- 🟩 TA/LCMM
- ⬜ Materiel Management Tech

Activity 3-1

Join at slido.com
Event code: DSC

SLIDO #3-1:
The Importance of DSC Attributes

What are the Top 3 DSC attributes you consider to be the MOST important?

A) **Predictability/Stability:** minimal variability in processing times and minimal churn in demand and supply objects, dates and quantities – minimization of this factor will lead to predictable deliveries.

B) **Throughput:** The velocity of information, demands and materiel through the Supply Chain – high velocity serves to maximize service levels

C) **Optimal Service Levels:** Optimization of demand turnaround time considering available finances/operational criticality

D) **Optimal Inventory Levels:** Levels are neither tool high nor too low. Inventory is in place in the anticipated area of demand (i.e. the right place)

E) **Data/Information Accuracy:** Definitions are agreed to by all organizations and data/information is error free and complete

F) **Responsiveness/Agility:** Speed of response to demand changes (e.g. points of demand, quantities, dates, etc) and the ability to anticipate change patterns and trends

ANSWER: No Correct Answer. This SLIDO is intended to demonstrate the importance of having baseline KPIs to enable the observation of trends and measured levels of performance against established targets so as be able to improve DSC performance

Module 3G - DSC Business Execution MAIN TOPICS

A. Core Supply Chain Concepts, Goals and Operation

B. Integration in the DSC

C. Materiel Requirements Planning (MRP) Concepts

D. Roles & Responsibilities

E. IT Systems & Tools

F. Enabling the Smooth Flow of Data and Materiel

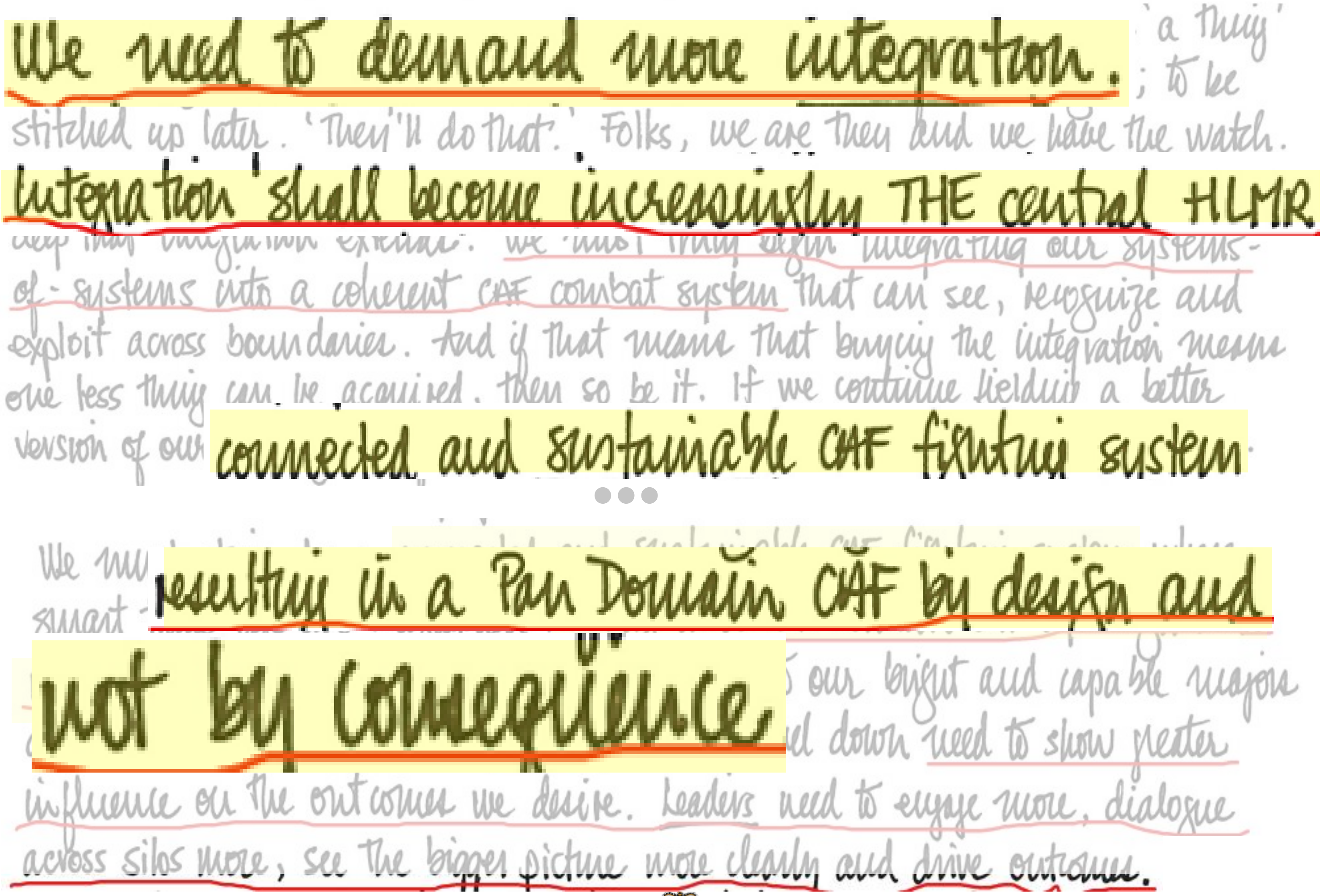
Learning objectives

Module 3 – DSC Business Execution
Section B. Integration in the DSC

At the end of this Section, you will be able to:

- Define Integration and list the types of Integration
- Explain that the DSC needs to be Integrated by Design and not by Consequence and why
- Elaborate on the benefits of Integration
- Identify the key integration points between MM and PM

VCDS Open Letter to L1s (Oct 2020)



We need to demand more integration. 'a thing'; to be stitched up later. 'They'll do that.' Folks, we are they and we have the watch.

Integration shall become increasingly THE central HLMR

[illegible] that integration external. We must truly begin integrating our systems-of-systems into a coherent CAF combat system that can see, recognize and exploit across boundaries. And if that means that buying the integration means one less thing can be acquired, then so be it. If we continue fielding a better version of our connected and sustainable CAF fighting system.

•••

We mu[illegible]

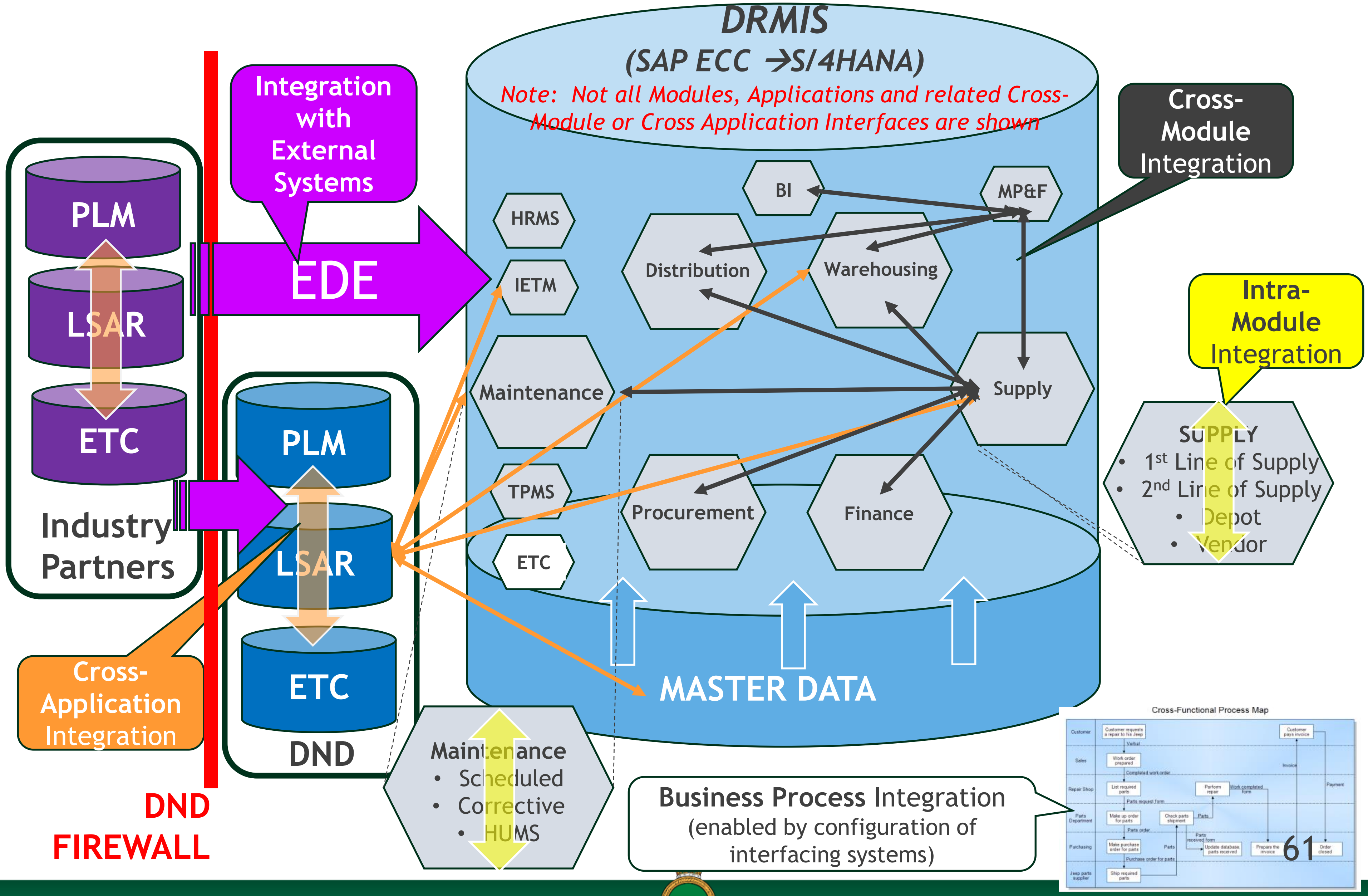
smart -

resulting in a Pan Domain CAF by design and not by consequence

our bright and capable majors

[illegible] down need to show greater influence on the outcomes we desire. Leaders need to engage more, dialogue across silos more, see the bigger picture more clearly and drive outcomes.

Integration Requirements within the DSC



DRMIS

(SAP ECC → S/4HANA)

Note: Not all Modules, Applications and related Cross-Module or Cross Application Interfaces are shown

Integration with External Systems

EDE

Cross-Module Integration

Intra-Module Integration

Cross-Application Integration

Business Process Integration (enabled by configuration of interfacing systems)

Industry Partners

DND

DND FIREWALL

MASTER DATA

SUPPLY
- 1st Line of Supply
- 2nd Line of Supply
  - Depot
  - Vendor

Maintenance
- Scheduled
- Corrective
  - HUMS

PLM
LSAR
ETC
PLM
LSAR
ETC
BI
MP&F
HRMS
IETM
Distribution
Warehousing
Maintenance
Supply
TPMS
ETC
Procurement
Finance
Cross-Functional Process Map

Benefits of Integration

- ✓ Information is readily shared between business processes/DSC actors
- ✓ Improved Agility and Efficiency
- ✓ Trusted Data (i.e. Accurate and Complete)
- ✓ Reduced IT investment and costs
- ✓ Enables Automation of some Business Processes
- ✓ Improved motivation/sense of accountability

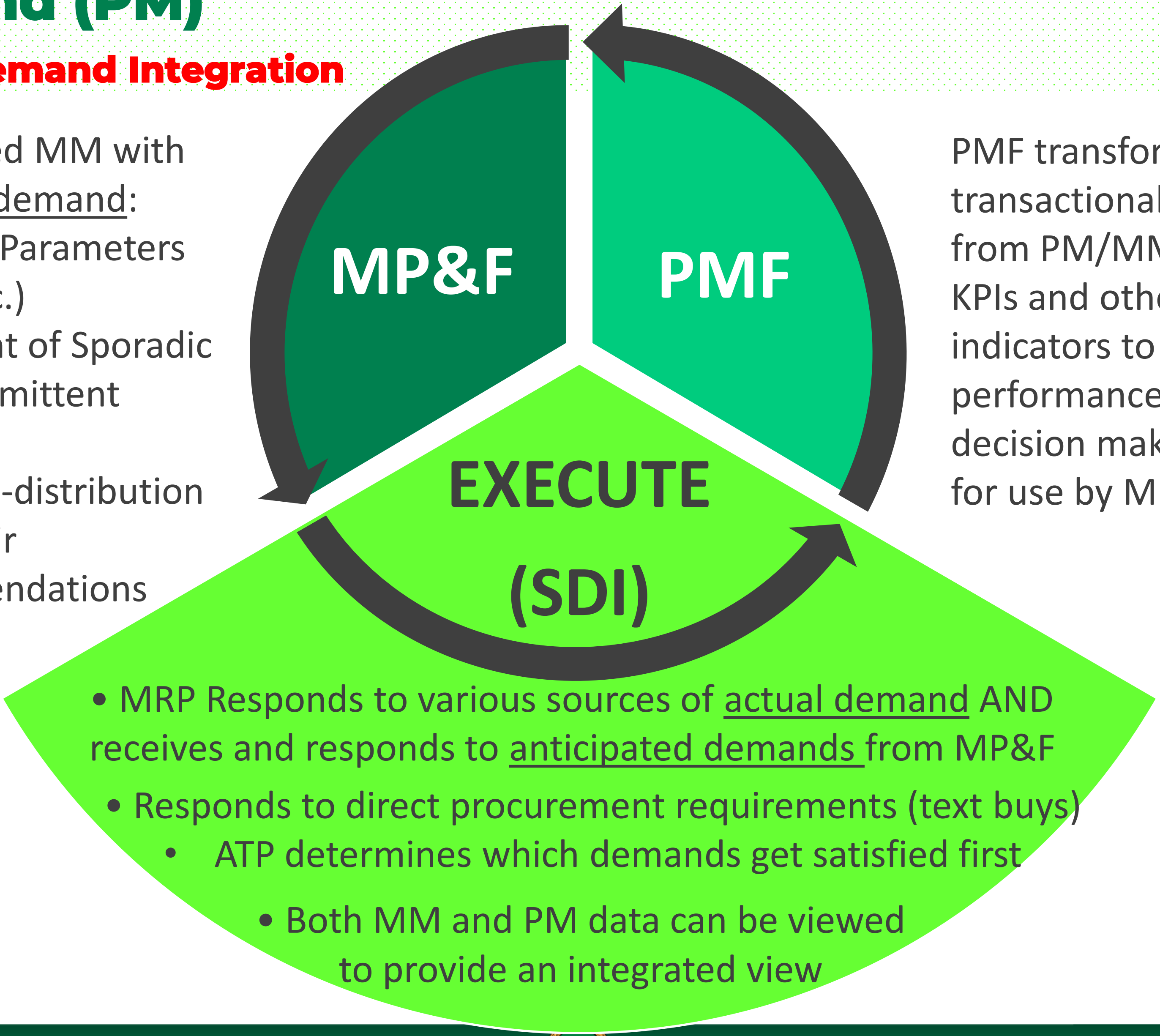
Without integration the opposite of the above will be realized.

Key Integration Points between Supply (MM) and Demand (PM)

Supply Demand Integration

MP&F to feed MM with anticipated demand:

- Planning Parameters (ROPs etc.)
- Treatment of Sporadic and Intermittent Demand
- Supply re-distribution and repair recommendations



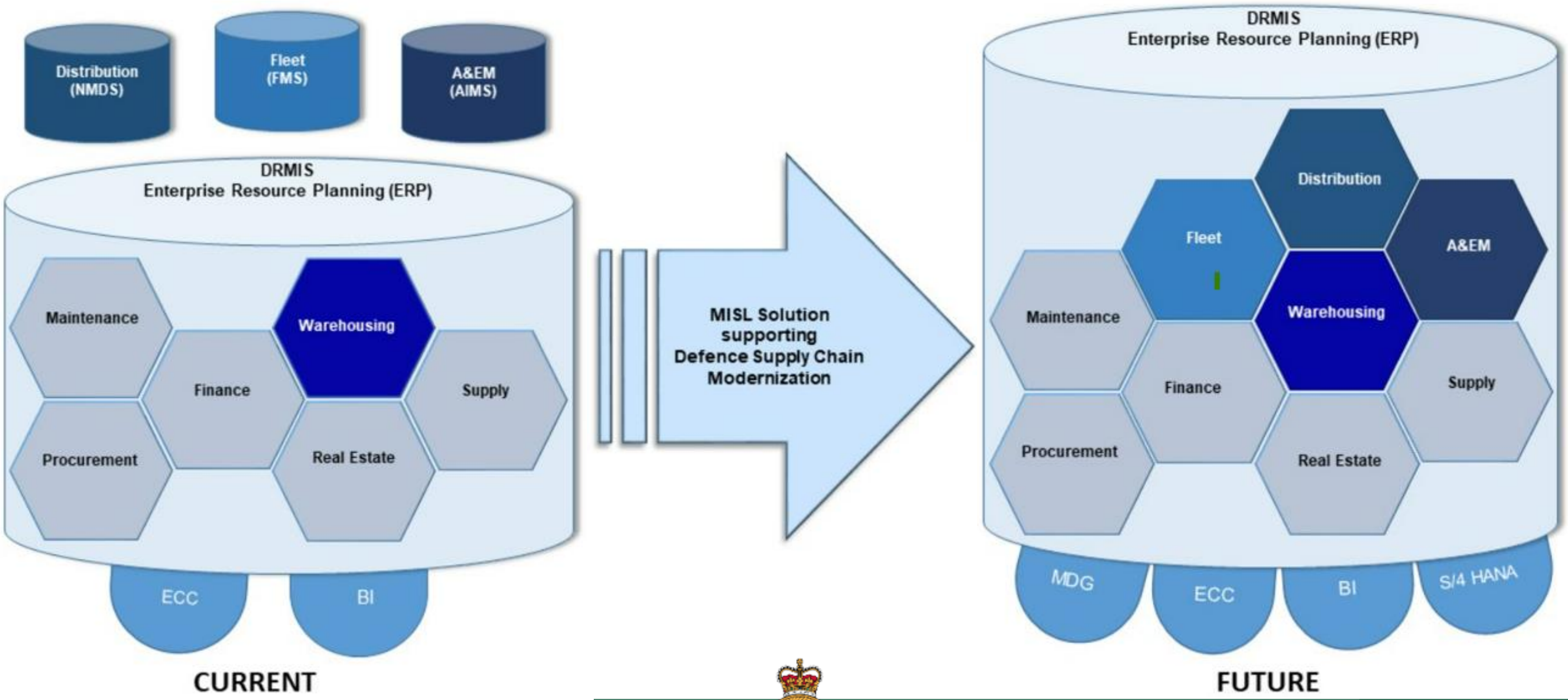
PMF transforms transactional data from PM/MM into KPIs and other health indicators to enable performance-based decision making and for use by MP&F

- MRP Responds to various sources of actual demand AND receives and responds to anticipated demands from MP&F
- Responds to direct procurement requirements (text buys)
- ATP determines which demands get satisfied first
- Both MM and PM data can be viewed to provide an integrated view

Modernization & Integration of Sustainment and Logistics (MISL)

MISL is an Enterprise Modernization Initiative (EMI) part of the Defence Resource Business Modernization (DRBM) Program to improve effectiveness and efficiency of the Defence Supply Chain (DSC).

As part of this modernization, MISL will **integrate** functionality of stand-alone logistics systems (NMDS, FMS, AIMS,) and enhance current DRMIS functionalities **into a robust, integrated SAP ERP for Warehousing and Distribution (W&D) within the Defence Supply Chain (DSC)**.


Distribution (NMDS)
Fleet (FMS)
A&EM (AIMS)
DRMIS
Enterprise Resource Planning (ERP)
Maintenance
Warehousing
Finance
Supply
Procurement
Real Estate
ECC
BI
CURRENT
MISL Solution supporting Defence Supply Chain Modernization
DRMIS
Enterprise Resource Planning (ERP)
Distribution
Fleet
A&EM
Maintenance
Warehousing
Finance
Supply
Procurement
Real Estate
MDG
ECC
BI
S/4 HANA
FUTURE

slido

Activity 3-2

Join at slido.com
Event code: DSC

SLIDO #3-2:

SAP is promoted for its built-in cross-module integration; however, the actual level of integration is a function of set-up. For DRMIS ECC, which of the following are TRUE when it comes to integration between PM and MM ?

A) The requirement date in supply documents is the same as that in Work Orders

B) It is clear from supply demands which are for vehicles that are grounded.

C) The priority of a supply demand triggered by a maintenance work order is taken directly from the priority in the work order.

D) The supply system is set-up to distinguish between the relative importance of work-order demands (e.g. one required to support a deployed mission vs one for a ROP).

E) B and D are TRUE

(F) Is the correct answer. All are FALSE indicates the need to improve integration within DRMIS so that the ULTIMATE benefit can be realized - the Right Part is delivered for the most important requirement in a timely fashion.

Module 3G - DSC Business Execution MAIN TOPICS

A. Core Supply Chain Concepts, Goals and Operation
B. Integration in the DSC
C. **Materiel Requirements Planning (MRP) Concepts**
D. Roles & Responsibilities
E. IT Systems & Tools
F. Enabling the Smooth Flow of Data and Materiel

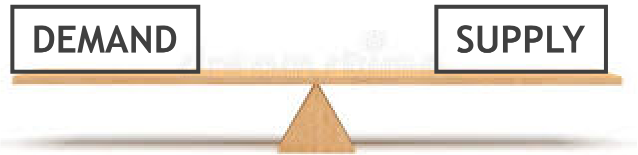
Learning objectives

Module 3 – DSC Business Execution
Section C. Materiel Requirements Planning (MRP) Concepts and Special Topics

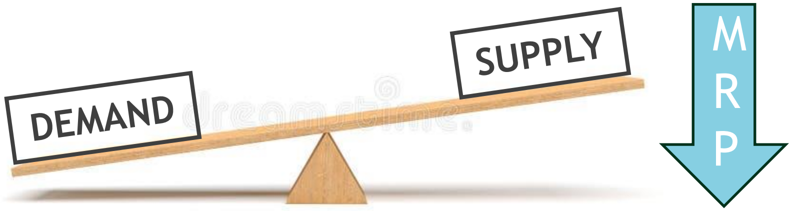
At the end of this Section, you will be able to explain:

- The difference between MRP and ATP
- What constitutes a demand vs supply and types
- How MRP works at a high level including how it schedules to satisfy demands
- MRP Areas and Lines of Supply

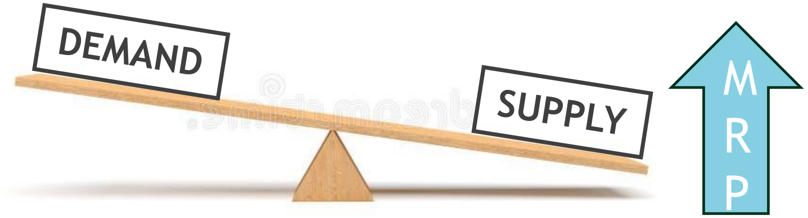
What is Materiel Requirements Planning (MRP)?



MRP is a capability within SAP ECC that enables the system to ***maintain an equilibrium between demand and supply***. It attempts to efficiently utilize inventory and deliver the right product on time.



When demand exceeds supply, MRP will create Order Proposals, usually in the form of PReqs (Purchase Requisitions)



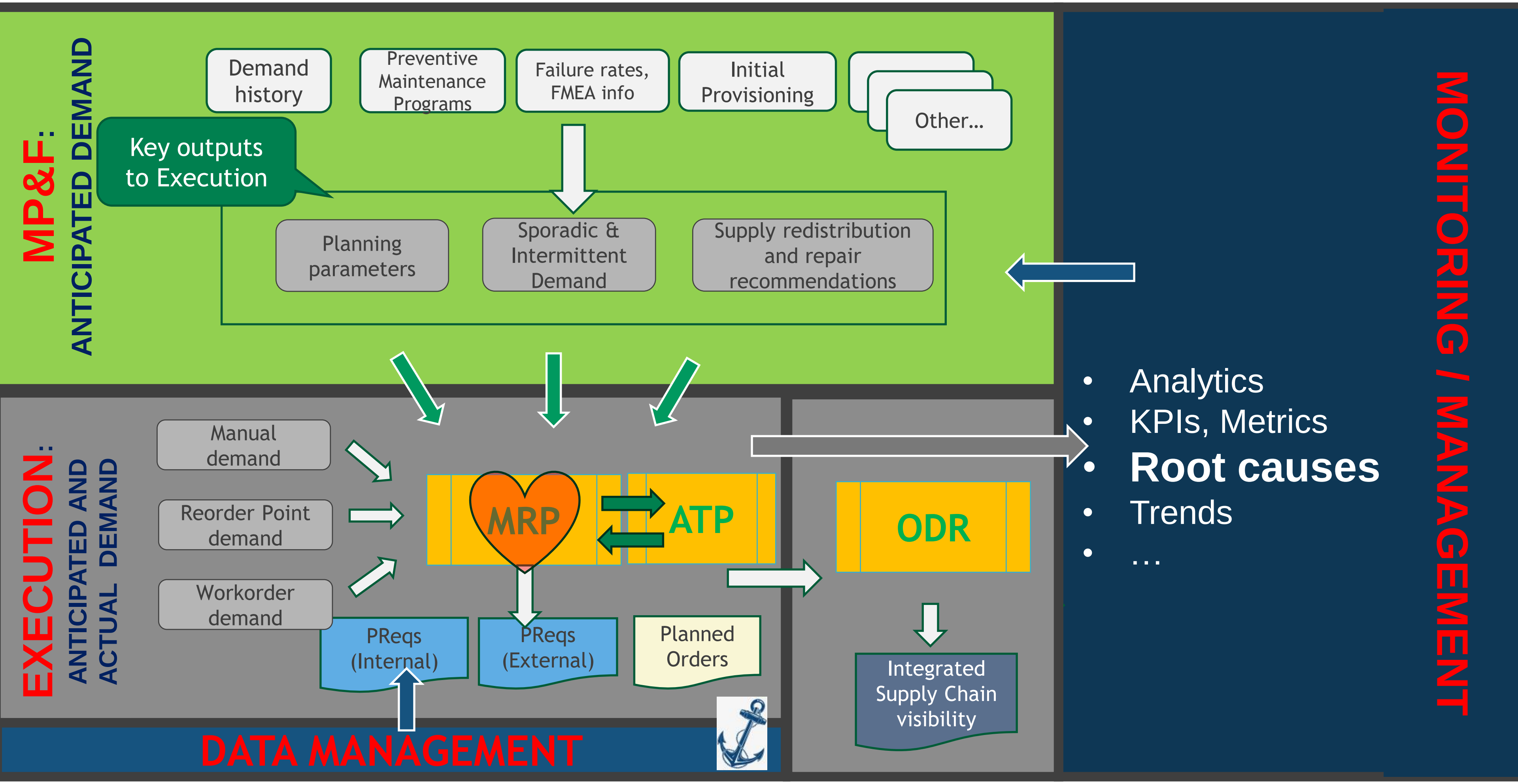
When supply exceeds demand, MRP will attempt to delete the excess supply elements

NOTES

- MRP runs at least once a day as a batch job
- When demand quantities or dates change, MRP will attempt to make changes to the corresponding supply object

Introduction: Core Supply Chain Concepts, Goals and Operation

A Defence Supply Chain Model



MP&F: ANTICIPATED DEMAND

Demand history

Preventive Maintenance Programs

Failure rates, FMEA info

Initial Provisioning

Other…

Key outputs to Execution

Planning parameters

Sporadic & Intermittent Demand

Supply redistribution and repair recommendations

EXECUTION: ANTICIPATED AND ACTUAL DEMAND

Manual demand

Reorder Point demand

Workorder demand

MRP

ATP

ODR

PReqs (Internal)

PReqs (External)

Planned Orders

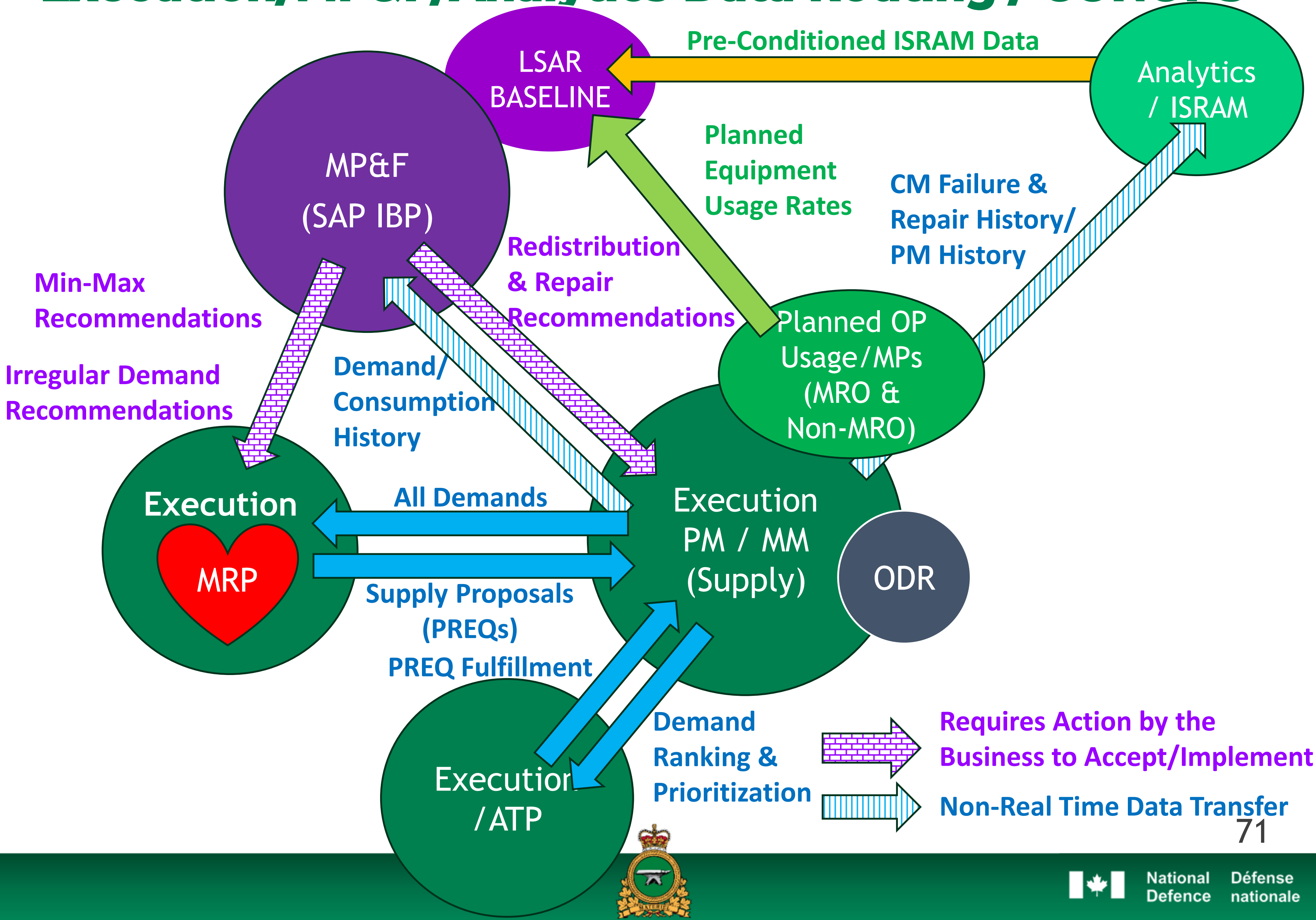
Integrated Supply Chain visibility

DATA MANAGEMENT

MONITORING / MANAGEMENT

- Analytics
- KPIs, Metrics
- **Root causes**
- Trends
- …

Execution/MP&F/Analytics Data Routing / CONOPS



LSAR BASELINE

Pre-Conditioned ISRAM Data

Analytics / ISRAM

MP&F (SAP IBP)

Planned Equipment Usage Rates

CM Failure & Repair History/ PM History

Redistribution & Repair Recommendations

Min-Max Recommendations

Irregular Demand Recommendations

Demand/ Consumption History

Planned OP Usage/MPs (MRO & Non-MRO)

Execution MRP

All Demands

Supply Proposals (PREQs)

Execution PM / MM (Supply)

ODR

PREQ Fulfillment

Execution / ATP

Demand Ranking & Prioritization

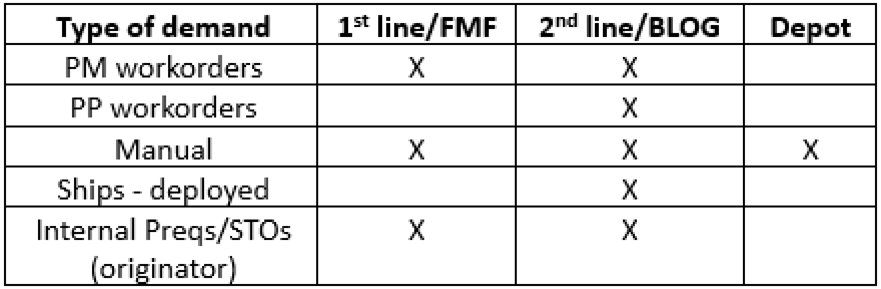
▨ Requires Action by the Business to Accept/Implement

▥ Non-Real Time Data Transfer

Terminology: Demand vs Supply

DEMAND: Any request for a materiel that needs to be processed, that may result in the creation of a corresponding supply.

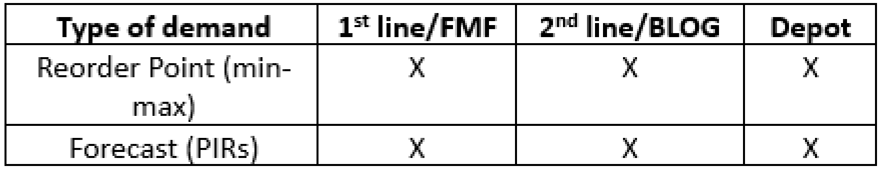
Actual Demand: One which, when issued, will immediately satisfy the demand.



Type of demand	1st line/FMF	2nd line/BLOG	Depot
PM workorders	X	X	
PP workorders		X	
Manual	X	X	X
Ships - deployed		X	
Internal Preqs/STOs (originator)	X	X	

Anticipated Demand: One which is in advance of the creation of an Actual Demand. This demand type permits the pre-positioning of materiel so that fulfillment rates are substantially increased when the actual demand is eventually created.

Note: PIRs are not currently used at DND but may have a future use



Type of demand	1st line/FMF	2nd line/BLOG	Depot
Reorder Point (min-max)	X	X	X
Forecast (PIRs)	X	X	X

SUPPLY: Stock and any incoming receipt into stock is considered as being supply. Created automatically by MRP, other system processes or created manually.

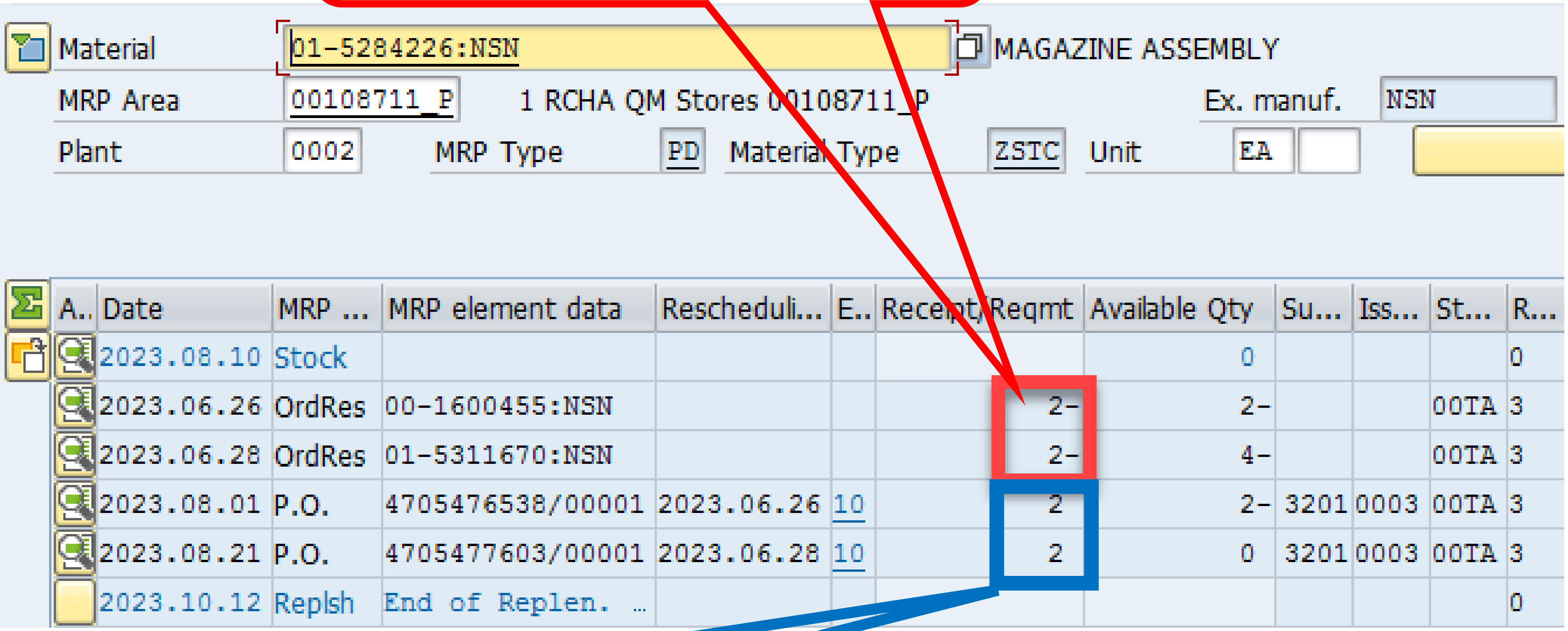
Common forms of supply:

- Quantities in stock
- Purchase Requisitions (PReqs)
- Stock Transport Orders (STOs)
- Purchase Orders (P/Os)
- Schedule Lines (from Scheduling Agreements – rarely used by DND)
- Shipping notifications
- Planned Orders - not currently used, but may have a use in future Materiel Planning & Forecasting (MP&F)

Note: The output of repair workorders are also considered by ECC as supply (e.g. when items are being returned from R&O contracts)

Demand vs Supply in Transaction MD04

Demand = Negative Value



Material: 01-5284226:NSN MAGAZINE ASSEMBLY

MRP Area: 00108711_P 1 RCHA QM Stores 00108711_P

Ex. manuf.: NSN

Plant: 0002

MRP Type: PD

Material Type: ZSTC

Unit: EA

A..	Date	MRP ...	MRP element data	Rescheduli...	E..	Receipt/Reqmt	Available Qty	Su...	Iss...	St...	R...
	2023.08.10	Stock					0				0
	2023.06.26	OrdRes	00-1600455:NSN			2-	2-			00TA	3
	2023.06.28	OrdRes	01-5311670:NSN			2-	4-			00TA	3
	2023.08.01	P.O.	4705476538/00001	2023.06.26	10	2	2-	3201	0003	00TA	3
	2023.08.21	P.O.	4705477603/00001	2023.06.28	10	2	0	3201	0003	00TA	3
	2023.10.12	Replsh	End of Replen. ...								0

Supply = Positive Value

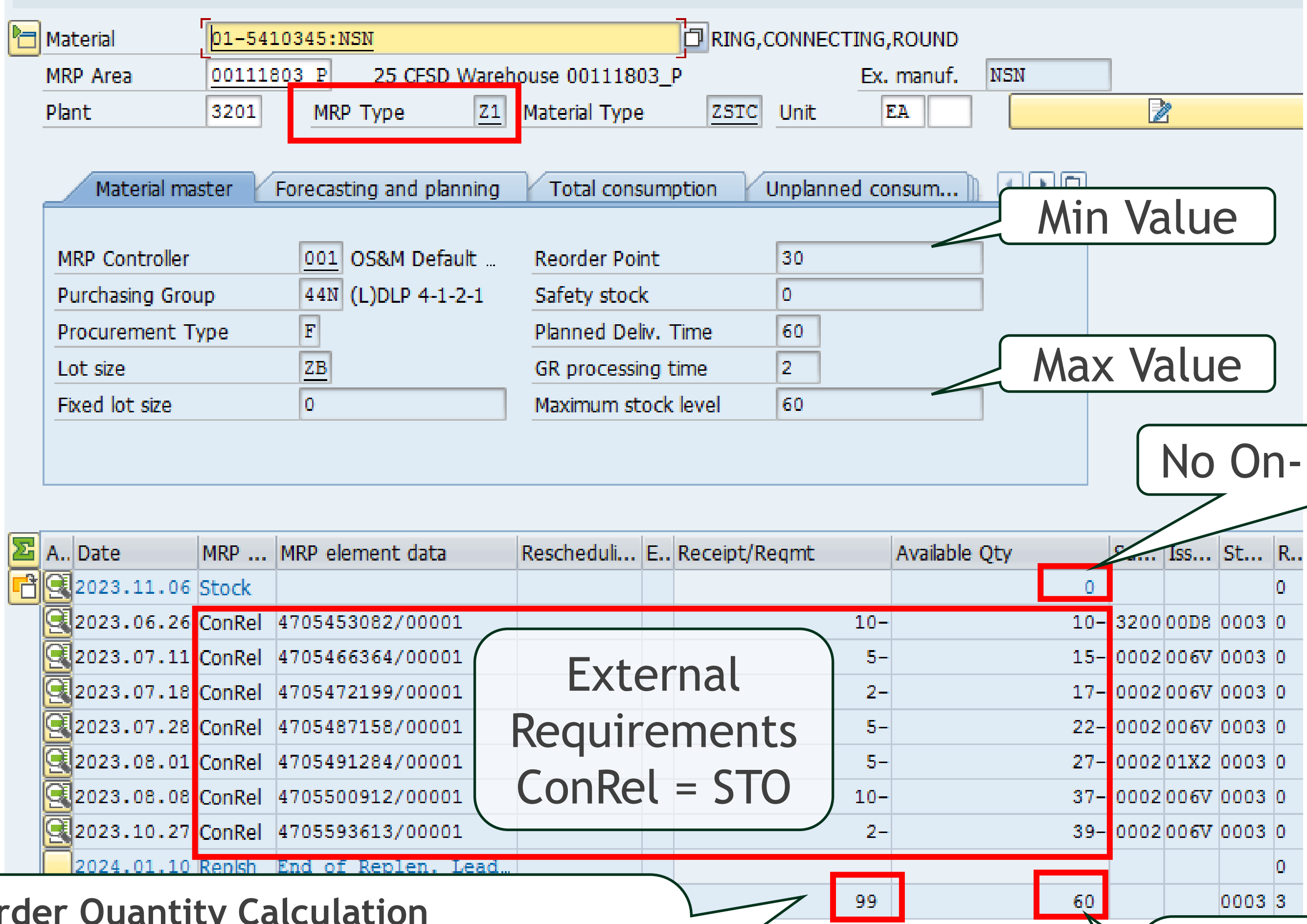
MRP Types

- PD – Standard MRP Type
    - No min or max value

- Z1 – MRP Type for Reorder Points with External Requirements (Min/Max)
    - has a characteristic that PD does not have: the ability to pre-position materiel in advance of actual demand
    - it does this by reacting when the inventory quantity for an item drops below its Reorder Point (i.e. “min”) but will also have visibility to other demands when calculating a replenishment quantity.

- ND – No planning

MRP Type = Z1 Example



Material: 01-5410345:NSN RING,CONNECTING,ROUND
MRP Area: 00111803_P 25 CFSD Warehouse 00111803_P
Ex. manuf.: NSN
Plant: 3201
MRP Type: Z1
Material Type: ZSTC
Unit: EA

MRP Controller: 001 OS&M Default ...
Purchasing Group: 44N (L)DLP 4-1-2-1
Procurement Type: F
Lot size: ZB
Fixed lot size: 0
Reorder Point: 30
Safety stock: 0
Planned Deliv. Time: 60
GR processing time: 2
Maximum stock level: 60

Min Value

Max Value

No On-Hand Quantity

A..	Date	MRP ...	MRP element data	Rescheduli...	E..	Receipt/Reqmt	Available Qty	S....	Iss...	St...	R..
	2023.11.06	Stock					0				0
	2023.06.26	ConRel	4705453082/00001			10-	10-	3200	00D8	0003	0
	2023.07.11	ConRel	4705466364/00001			5-	15-	0002	006V	0003	0
	2023.07.18	ConRel	4705472199/00001			2-	17-	0002	006V	0003	0
	2023.07.28	ConRel	4705487158/00001			5-	22-	0002	006V	0003	0
	2023.08.01	ConRel	4705491284/00001			5-	27-	0002	01X2	0003	0
	2023.08.08	ConRel	4705500912/00001			10-	37-	0002	006V	0003	0
	2023.10.27	ConRel	4705593613/00001			2-	39-	0002	006V	0003	0
	2024.01.10	Replsh	End of Replen. Lead...								0
						99	60			0003	3

External Requirements ConRel = STO

Order Quantity Calculation
= (max level – in-stock quantity – total On-Order Quantity) + total external requirement quantity
= (60 – 0 – 0) + 39 = 99

Projected end-quantity on hand after external requirements are satisfied (EOH = Max Value)

Activity 3-3

Join at slido.com
Event code: DSC

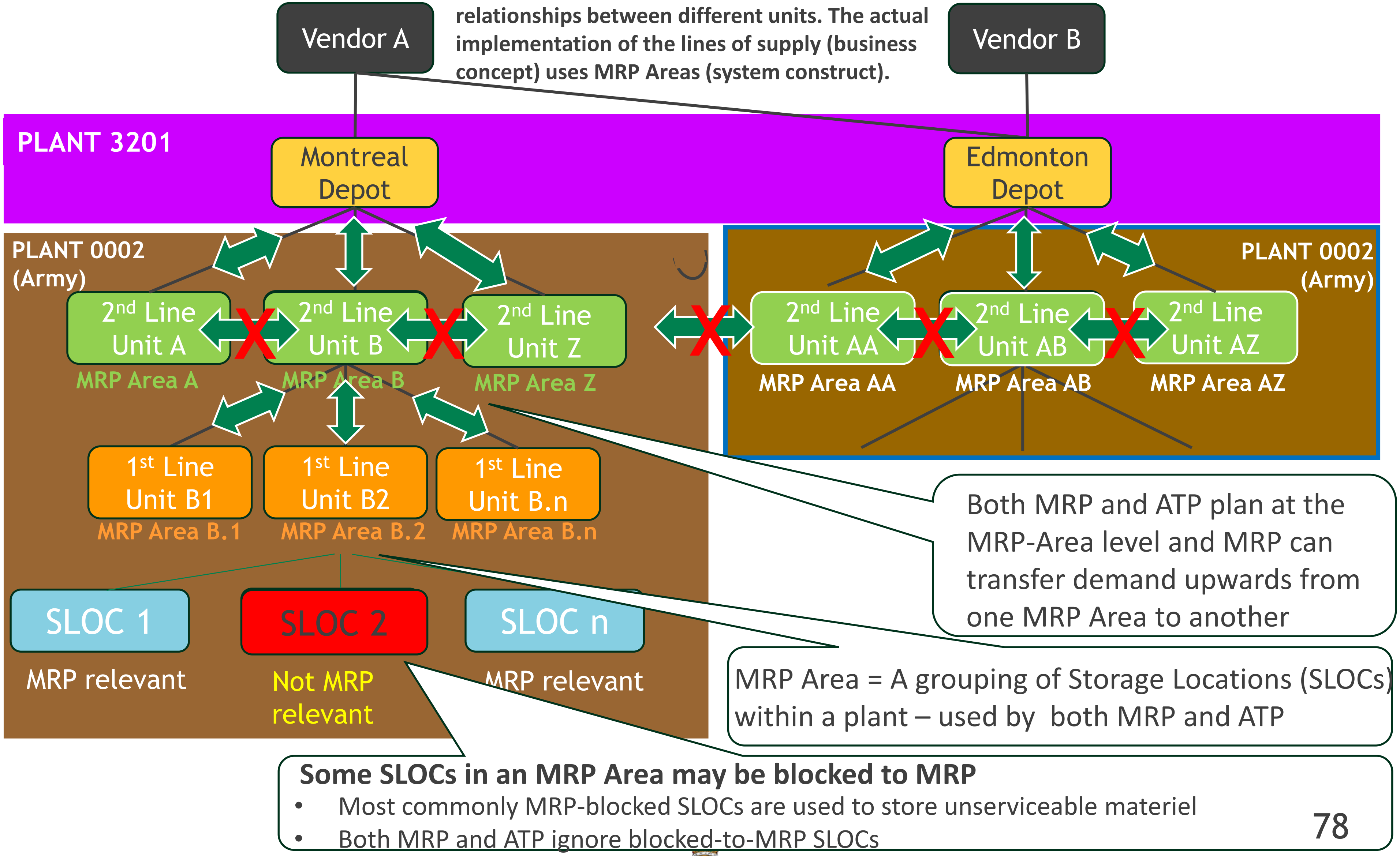
SLIDO #3-3:
Confirm Understanding of Z1 MRP Type

Home Inventory Example:
In your home pantry you want a min/max of 2/4 bags of sugar, and the level drops to 1 bag, but you need 5 additional bags for an upcoming event. If your household pantry inventory was managed by a Z1 MRP type how many bags of sugar would be ordered?

a) One (1)
b) Four (4)
c) Eight (8)
d) Nine (9)

Correct Answer:
(c) {(Max – Quantity in Stock – on-order quantity) + External Requirements} = {(4 – 1 – 0) + 5 } = 8.
If MRP Type = PD (i.e. no min or max value) then answer (b) would be correct:
{Demand – (Quantity in Stock + On-Order)} = {5 – (1 + 0)} = 4

MRP Areas and Lines of Supply – Use by MRP and ATP



The lines of supply have rigid and predefined relationships between different units. The actual implementation of the lines of supply (business concept) uses MRP Areas (system construct).

Vendor A

Vendor B

PLANT 3201

Montreal Depot

Edmonton Depot

PLANT 0002 (Army)

2nd Line Unit A

MRP Area A

2nd Line Unit B

MRP Area B

2nd Line Unit Z

MRP Area Z

1st Line Unit B1

MRP Area B.1

1st Line Unit B2

MRP Area B.2

1st Line Unit B.n

MRP Area B.n

SLOC 1

MRP relevant

SLOC 2

Not MRP relevant

SLOC n

MRP relevant

PLANT 0002 (Army)

2nd Line Unit AA

MRP Area AA

2nd Line Unit AB

MRP Area AB

2nd Line Unit AZ

MRP Area AZ

Both MRP and ATP plan at the MRP-Area level and MRP can transfer demand upwards from one MRP Area to another

MRP Area = A grouping of Storage Locations (SLOCs) within a plant – used by both MRP and ATP

Some SLOCs in an MRP Area may be blocked to MRP

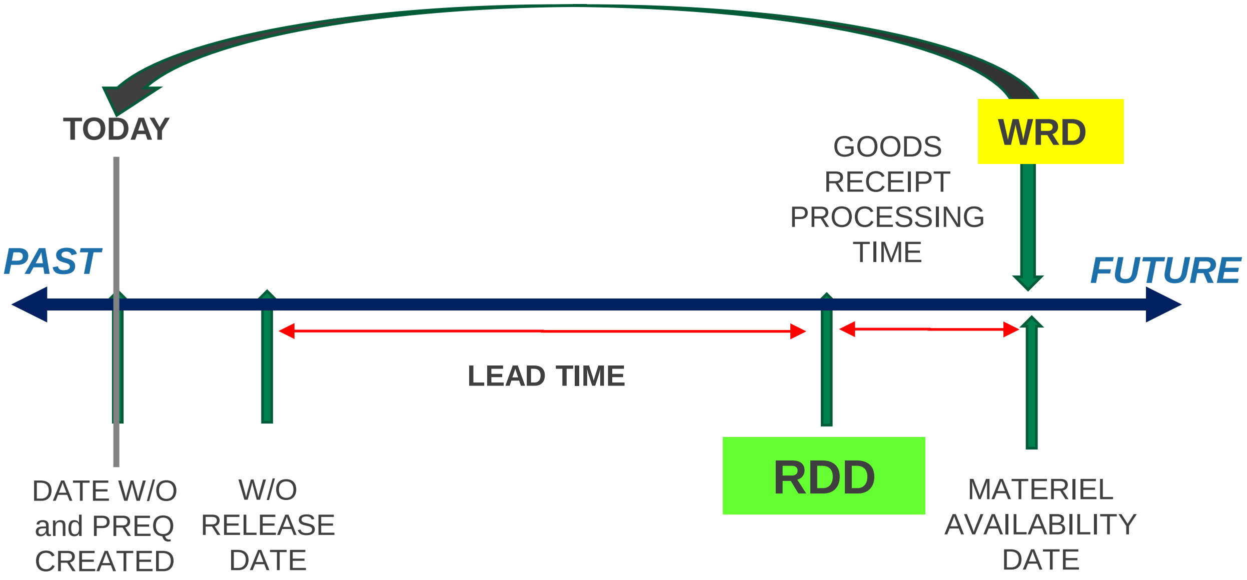
- Most commonly MRP-blocked SLOCs are used to store unserviceable materiel
- Both MRP and ATP ignore blocked-to-MRP SLOCs

Why WRD and RDD are Mis-Aligned in ECC

MRP will attempt to schedule Order Proposals **in time to meet the demand date**, but this is not always possible (e.g. when the demand date has a shorter timeframe than the time it takes to obtain the material)

Backwards Scheduling

(E.G. Preventive Maintenance)



TODAY

WRD

GOODS RECEIPT PROCESSING TIME

PAST

FUTURE

LEAD TIME

RDD

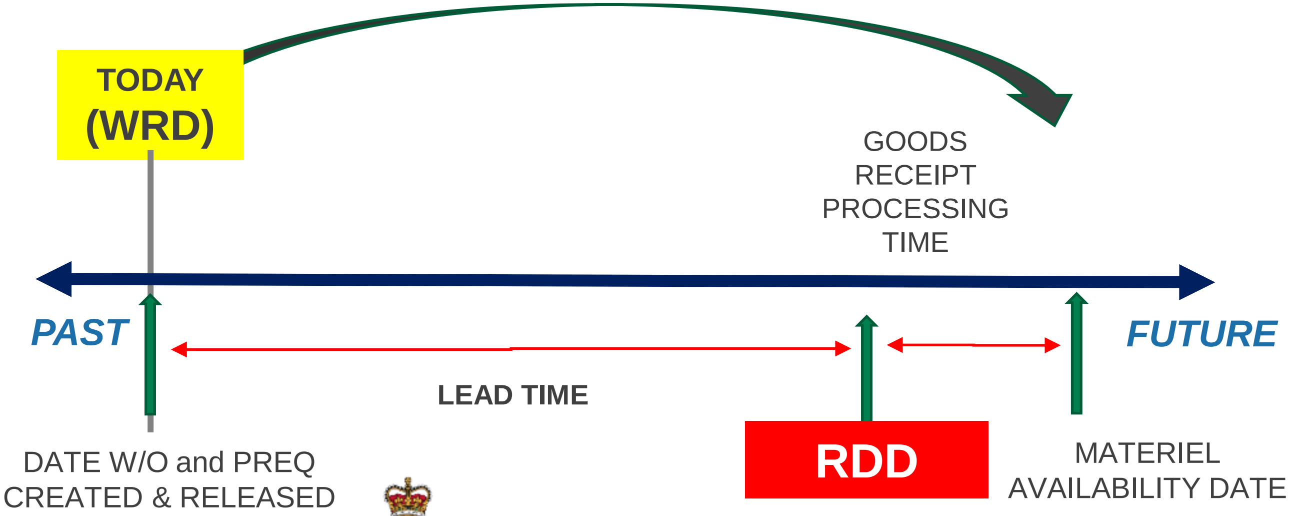
DATE W/O and PREQ CREATED

W/O RELEASE DATE

MATERIEL AVAILABILITY DATE

Forward Scheduling

(E.G. Corrective Maintenance)



TODAY (WRD)

GOODS RECEIPT PROCESSING TIME

PAST

FUTURE

LEAD TIME

RDD

DATE W/O and PREQ CREATED & RELEASED

MATERIEL AVAILABILITY DATE

What MRP Considers in its Calculations

- ✓ All demand elements for a given MRP Area (serviceable material only)
- ✓ All Supply elements for a given MRP Area (serviceable material only)
- ✓ Stock types
- ✓ Master Data:
  - ○ The lead time of the materiel
  - ○ The MRP Type
  - ○ {Other elements}
- ✓ ECC configuration of MRP parameters

- X Quantities committed (or not) by ATP
- X IMA Code and any other custom fields
- X Whether or not a materiel is batch managed or serialized
- X The priority of the demand
- X The priority of supply objects

- X MRP does not carry over supply priorities from one Supply Chain level to another

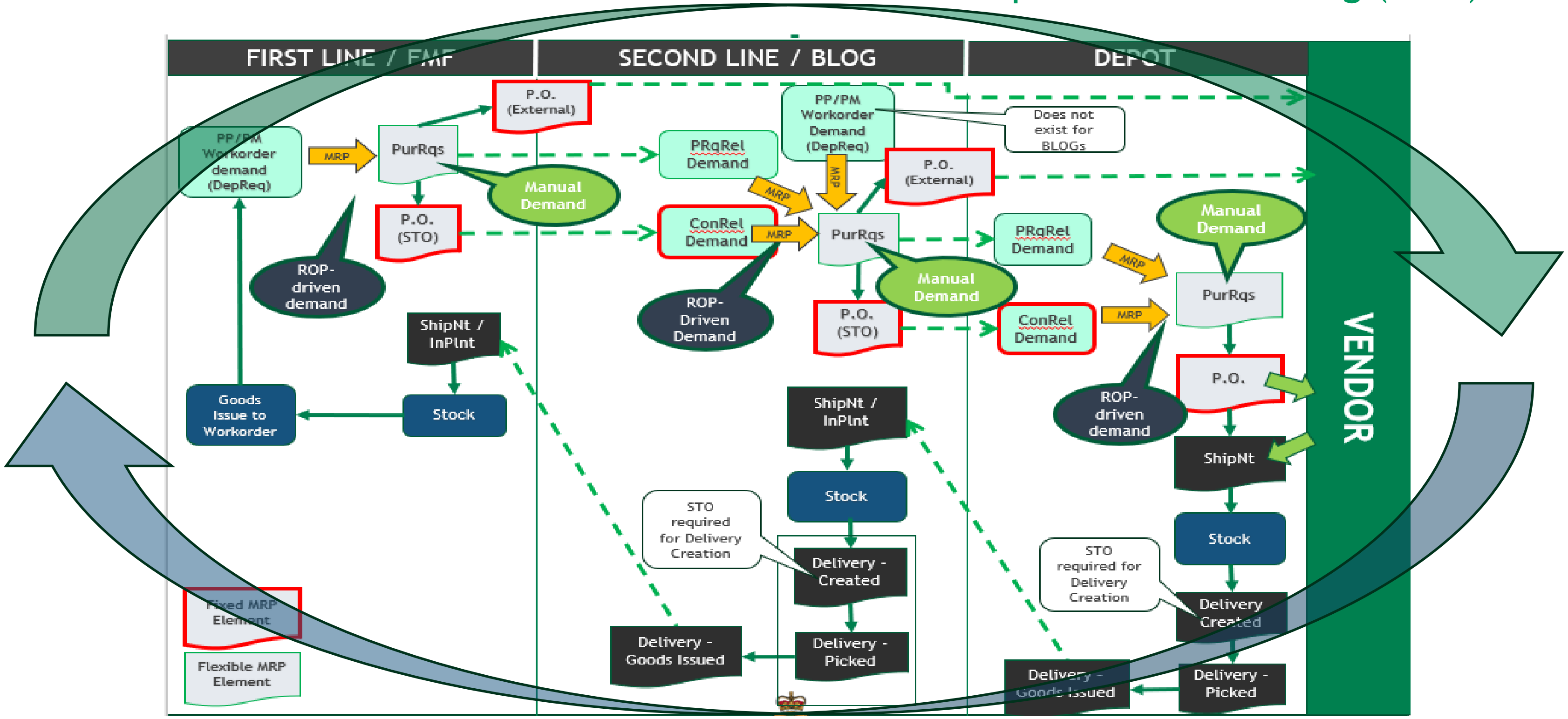
Important Notes:

- Some consider the inability of MRP to “pass on” workorder priorities to supply, or even supply priorities from one supply echelon to another, as being an inadequacy.
- This is a misunderstanding of MRP’s purpose. SAP provides another elegant and complementary tool – ATP (Available to Promise) to provide for the capability to distribute materiel to the most important sources of demand.

MRP and ATP are Complementary

MRP's function is to get materiel into stock.

ORDER MANAGEMENT: Main Role - Materiel Requirements Planning (**MRP**)


FIRST LINE / FMF
SECOND LINE / BLOG
DEPOT
VENDOR
PP/PM Workorder demand (DepReq)
MRP
PurRqs
P.O. (External)
Manual Demand
P.O. (STO)
ROP-driven demand
ShipNt / InPlnt
Stock
Goods Issue to Workorder
Fixed MRP Element
Flexible MRP Element
PRqRel Demand
ConRel Demand
PP/PM Workorder Demand (DepReq)
MRP
MRP
MRP
PurRqs
Manual Demand
P.O. (External)
Does not exist for BLOGs
P.O. (STO)
ROP-Driven Demand
ShipNt / InPlnt
Stock
STO required for Delivery Creation
Delivery - Created
Delivery - Picked
Delivery - Goods Issued
PRqRel Demand
ConRel Demand
MRP
MRP
Manual Demand
PurRqs
P.O.
ROP-driven demand
ShipNt
Stock
STO required for Delivery Creation
Delivery Created
Delivery - Picked
Delivery - Goods Issued

ORDER FULFILLMENT: Main Role – Available to Promise (**ATP**)

ATP's function should be to direct stock to the most critical operational demands first.

Note: Order proposals created by MRP are not hard-linked to the source of demand.

- SAP uses a technique called **"Pegging"** to match supply to demand.
- Pegging should be used by ATP to determine the source and importance of the demand. Materiel can then be distributed then by demand importance.

Module 3
Question & Answer (Part 1)

Join at slido.com
Event code: DSC

Module 3G - DSC Business Execution MAIN TOPICS

A. Core Supply Chain Concepts, Goals and Operation
B. Integration in the DSC
C. Materiel Requirements Planning (MRP) Concepts
D. Roles & Responsibilities
E. IT Systems & Tools
F. Enabling the Smooth Flow of Data and Materiel

Learning objectives

Module 3 – DSC Business Execution

Section D. Roles & Responsibilities

At the end of this Section, you will be able to:

- Provide an overview of the different roles involved in the DSC
- Identify key materiel manager actors and describe their main responsibilities

Applicable Definitions (from the SAM)

- **Roles:** functions performed by someone in a particular situation, process, or operation:
  - are the standardized grouping of tasks and responsibilities assigned to individuals *in order to carry out specific functions on behalf of the organization*

- **Responsibilities:** something that one is required to do *as part of a job, role, or legal obligation*

- **Authority:** the legal right to make decisions, transmit intentions to subordinate commanders and impose one's will on subordinates

Levels of DSC Roles

Governance

ADM(Mat) is the SDO for DND/CAF as per Treasury Board Directive for Materiel Management and has functional authority over:

- Materiel acquisition & support, including divestment
- Materiel management and inventory management, including write-off
- Materiel assurance
- Procurement & Contracting
- Controlled Goods
- Project Management policy-held jointly with VCDS

Materiel Managers

Within the DSC Materiel Management includes the decision-making activities necessary to Plan, Acquire, Position, Maintain and Divest of materiel throughout the materiel's lifecycle. A Materiel Manager is a person or organization charged with identifying and coordinating materiel requirements, technical specifications and other elements of life cycle management.

Materiel Custodians

Materiel Custodians are the personnel or organizations charged with the custody, security and stewardship of materiel. Materiel custodians have the materiel physically within their storage locations and warehouses and are generally responsible for the safe keeping, accountability, distribution and reporting of that materiel until it is issued for use or actioned for divestment.

Materiel Users

Materiel Users are the organizations and individuals who either hold and operate military materiel assets or otherwise consume materiel during routine operations.

Activity 3-4

Join at slido.com
Event code: DSC

SLIDO 3-4: Specific DSC Roles

Which DSC role(s) is formally defined in the Supply Administration Manual (SAM)?

a) Supply Manager
b) Supply Technician
c) Life Cycle Materiel Manager
d) Technical Authority
e) Procurement Authority
f) None of the above

Correct Answer is: (a), (d) and (e)

DSC Roles within Levels

Governance

- **Senior Designated Official**
  - **ADM(MAT)**
- Strategic Joint Staff
- Level One Advisors

Materiel Managers

- Technical Authority (TA)
- Supply Manager (SM)
- Procurement Authority (PA)
- Record Control Officer (RCO)
- TARCO
- Central Data Manager
- Lead Materiel Managers (local)
- DQA Technical Inspection

Materiel Custodians

- Supply Officer
- Materiel Control Officer
- MRP Controller
- Systems Control Officer
- Warehouse Manager/Supervisor
- Warehouse Operator
- Procurement Officer (Local)
- Technical Inspector
- Local Supply Chain Coordinator

Materiel Users

- Maintainers
- Operators
- Account Holders
- QETE
- NETE
- AETE
- FMF
- 202 Workshop

Responsibilities and Main Tasks for Key Materiel Management Roles

Responsibilities/Tasks		Technical Authority (TA)	Supply Manager (SM)	Procurement Authority (PA)
Responsibilities		• manages materiel during its in-use life cycle to ensure the right materiel is available for ops • set tech specs and standards • manage configurations • provide technical advice • monitor compliance within their area of responsibility	• manages centrally managed materiel and equipment to ensure the right materiel is in the right location at the right time in the right quantities • work in close conjunction with their PA and TA counterparts.	• execute procurement activities in accordance with the direction and guidance provided within the Procurement Administration Manual (PAM) • enable appropriate materiel management and custodial management after procurement.
Key Tasks	**Materiel Planning**	MI, **MP&F** (Anticipated Update)	**MP&F** (Max and Min levels depots and throughout DSC for all centrally managed materiel), MI	**MP&F** (Budgeting perspective)
	Acquisition	Technical Data Package, FFF	Positioning, procuring (with PA), ASNs, discrepancy management	Ensuring materiel can be received by the depot, PAM Procurement activities
	Materiel Management	Repair authority, shelf life, CFTOs, Serial # tracking, obsolescence	Movement of restricted items, holdings review, dormant stock, High Priority Requests (HPRs)	Dues in, ASN, discrepancy management, proper clauses Note: Procurement must be done in DRMIS MM Module, using the correct Account Assignments
	Maintenance	NIL	Contracts, SNAPS, HPRs/Op Defs	NIL
	Divestment	1303, 4001 Forms, Analysis	Analysis, Action	NIL

SAM Chapter 1.3 Annex B
Technical Support Guide Appendix 1-4-A

Module 3G - DSC Business Execution MAIN TOPICS

A. Core Supply Chain Concepts, Goals and Operation

B. Integration in the DSC

C. Materiel Requirements Planning (MRP) Concepts

D. Roles & Responsibilities

E. IT Systems & Tools

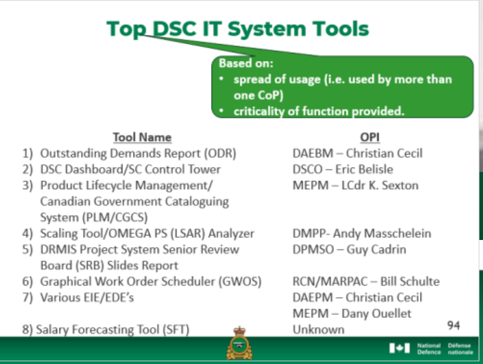
F. Enabling the Smooth Flow of Data and Materiel

Module 3 – DSC Business Execution
Section E. IT Systems & Tools

Learning objectives

At the end of this Section, you will be able to:

- Describe that the DSC involves more than just an ERP and identify key DSC enabling systems
- Explain how the ODR can be employed as a critical tool for key materiel managers



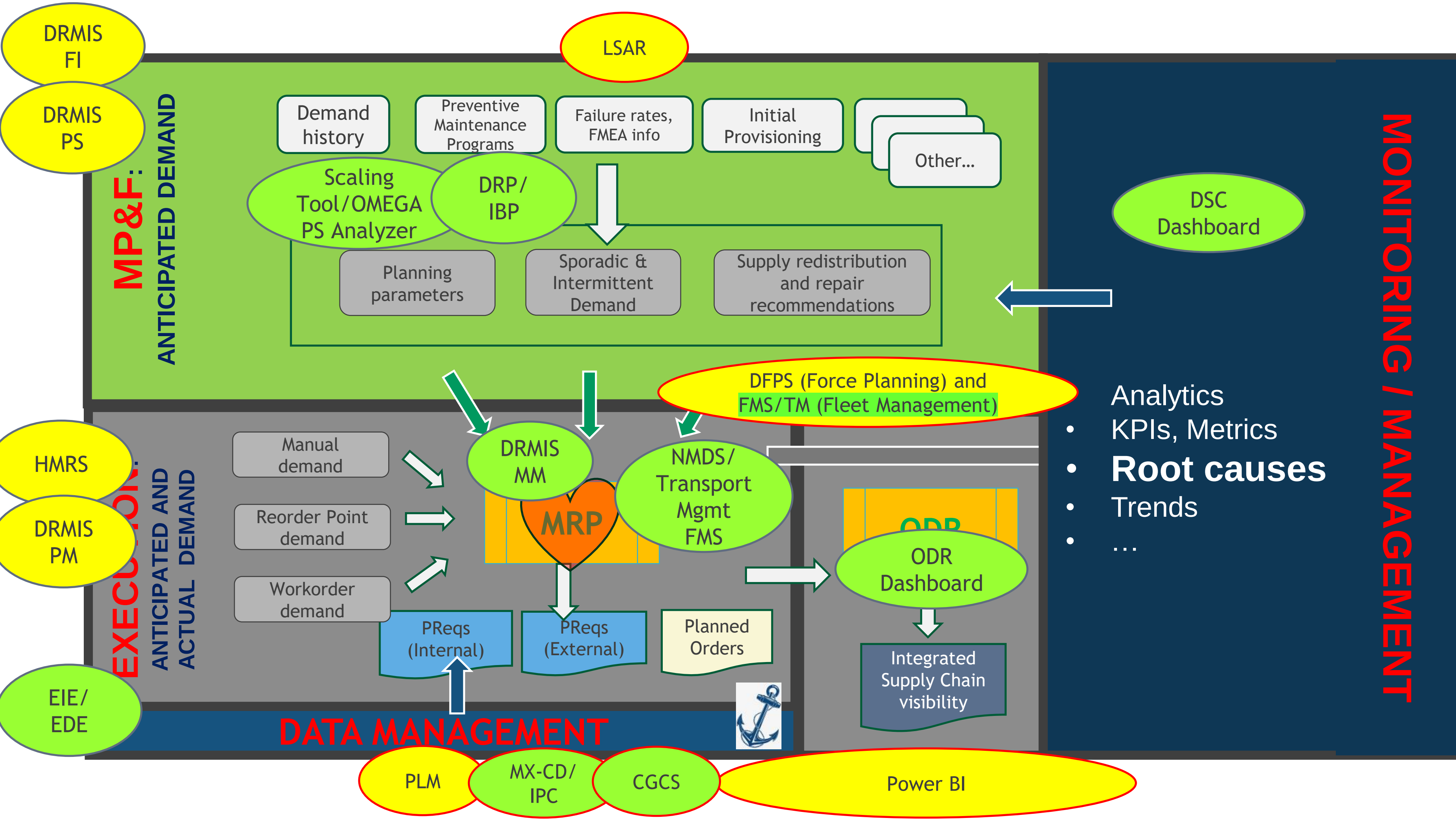
Top DSC IT System Tools

Based on:
- spread of usage (i.e. used by more than one CoP)
- criticality of function provided.

Tool Name	OPI
1) Outstanding Demands Report (ODR)	DAEBM – Christian Cecil
2) DSC Dashboard/SC Control Tower	DSCO – Eric Belisle
3) Product Lifecycle Management/ Canadian Government Cataloguing System (PLM/CGCS)	MEPM – LCdr K. Sexton
4) Scaling Tool/OMEGA PS (LSAR) Analyzer	DMPP- Andy Masschelein
5) DRMIS Project System Senior Review Board (SRB) Slides Report	DPMSO – Guy Cadrin
6) Graphical Work Order Scheduler (GWOS)	RCN/MARPAC – Bill Schulte
7) Various EIE/EDE's	DAEPM – Christian Cecil MEPM – Dany Ouellet
8) Salary Forecasting Tool (SFT)	Unknown

94

System Tools in the DSC and the DSC Model



DRMIS FI

DRMIS PS

LSAR

MP&F: ANTICIPATED DEMAND

Demand history

Preventive Maintenance Programs

Failure rates, FMEA info

Initial Provisioning

Other…

Scaling Tool/OMEGA PS Analyzer

DRP/ IBP

Planning parameters

Sporadic & Intermittent Demand

Supply redistribution and repair recommendations

DSC Dashboard

DFPS (Force Planning) and FMS/TM (Fleet Management)

HMRS

DRMIS PM

EXECU ION: ANTICIPATED AND ACTUAL DEMAND

Manual demand

Reorder Point demand

Workorder demand

DRMIS MM

MRP

NMDS/ Transport Mgmt FMS

ODR

ODR Dashboard

PReqs (Internal)

PReqs (External)

Planned Orders

Integrated Supply Chain visibility

EIE/ EDE

DATA MANAGEMENT

PLM

MX-CD/ IPC

CGCS

Power BI

MONITORING / MANAGEMENT

Analytics

- KPIs, Metrics
- **Root causes**
- Trends
- …

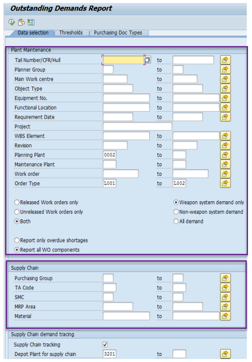
Bubbles identify IT Systems and Tools. Light green bubbles are the most used by the DSC community of practice.

Top DSC IT System Tools

Based on:
- **spread of usage (i.e. used by more than one CoP)**
- **criticality of function provided.**

Tool Name	OPI
1) Outstanding Demands Report (ODR)	DAEBM – Christian Cecil
2) DSC Dashboard/SC Control Tower	DSCO – Eric Belisle
3) Product Lifecycle Management/ Canadian Government Cataloguing System (PLM/CGCS)	MEPM – LCdr K. Sexton
4) Scaling Tool/OMEGA PS (LSAR) Analyzer	DMPP- Andy Masschelein
5) DRMIS Project System Senior Review Board (SRB) Slides Report	DPMSO – Guy Cadrin
6) Graphical Work Order Scheduler (GWOS)	RCN/MARPAC – Bill Schulte
7) Various EIE/EDE's	DAEPM – Christian Cecil MEPM – Dany Ouellet
8) Salary Forecasting Tool (SFT)	Unknown

ERP Reporting vs Enterprise Dashboards/Analytics



Outstanding Demands Report

Data selection | Thresholds | Purchasing Doc Types

Plant Maintenance

Tail Number/CFR/Hull to
Planner Group to
Main Work centre to
Object Type to
Equipment No. to
Functional Location to
Requirement Date to
Project
WBS Element to
Revision to
Planning Plant 0002 to
Maintenance Plant to
Work order to
Order Type L001 to L002

○ Released Work orders only
○ Unreleased Work orders only
● Both

● Weapon system demand only
○ Non-weapon system demand
○ All demand

○ Report only overdue shortages
● Report all WO components

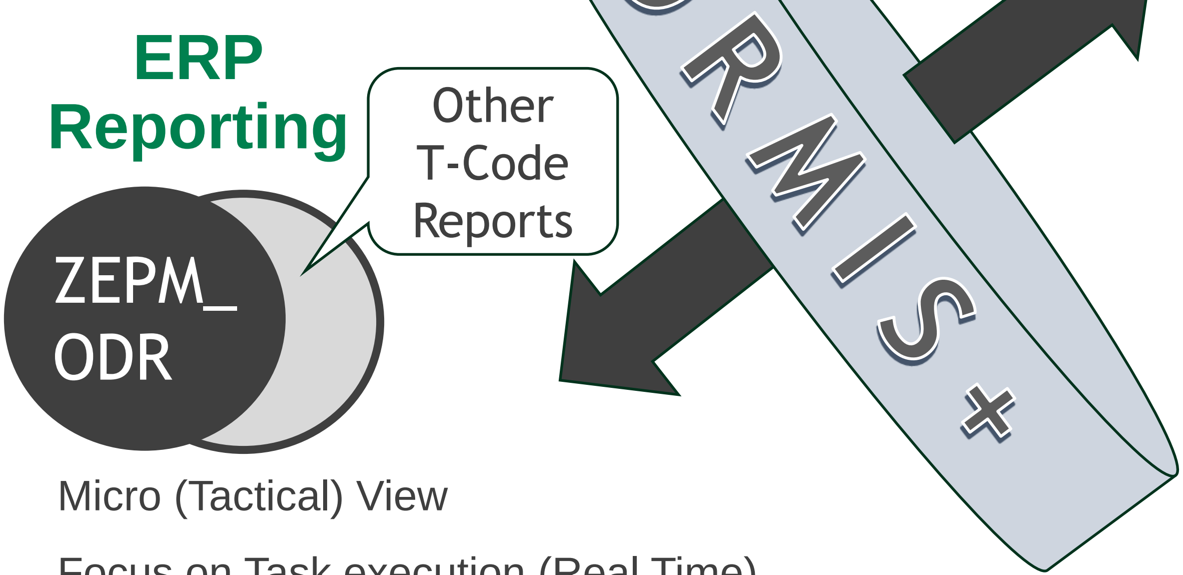
Supply Chain

Purchasing Group to
TA Code to
SMC to
MRP Area to
Material to

Supply Chain demand tracing

Supply Chain tracking ☑
Depot Plant for supply chain 3201 to

ERP Reporting



- Micro (Tactical) View
- Focus on Task execution (Real Time)
- Tactical Performance-Based Tools/Dashboards **(for Working Level)**

Enterprise Dashboards/ Analytics

- Macro (Strategic) View
- Reveals historical **Enterprise** systemic “pain points” and trends
- Tailored KPIs and Metrics
- **Enterprise** Performance (Executive/Manager/Fleet Level)

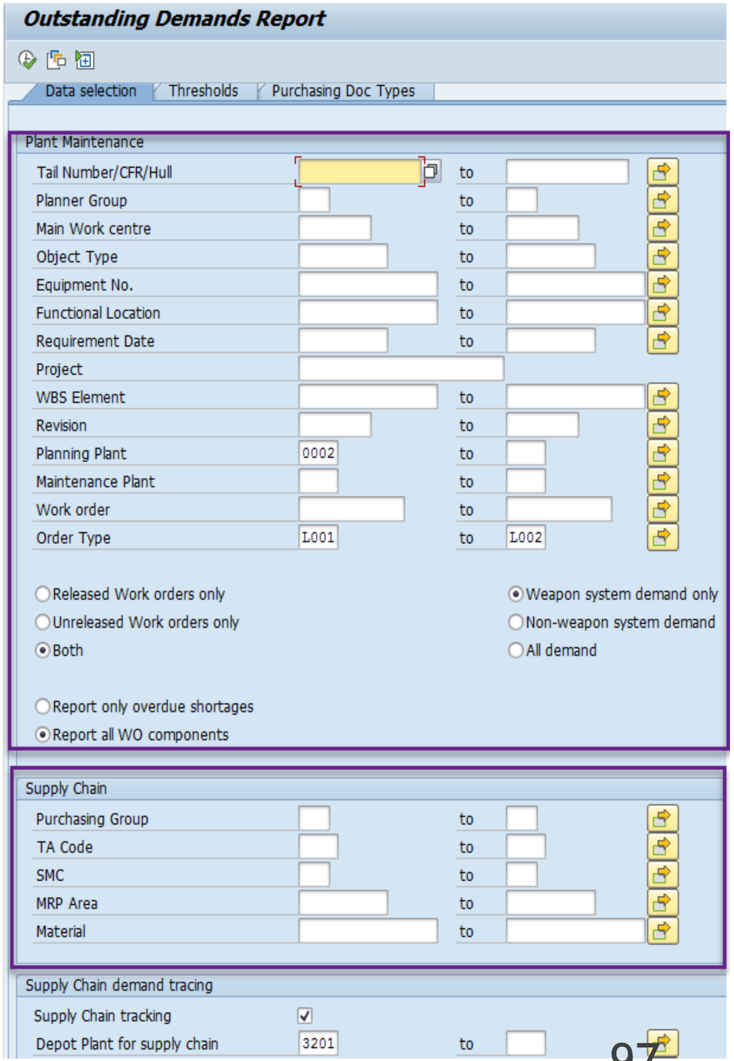
ZEPM_ODR vs Other KEY DRMIS T-Code Reports

T-CODE	TITLE	DESCRIPTION	ZEPM_ODR*
IE36	CFR	Provide list of Fleet Equipment. Equipment data includes general data, serial number, Licence Plate.	YES
IH08	DRMIS EMR	Provide list of Equipment (EMR). Equipment data comprises general data, serial number data, location data.	YES
IW39	RMA W/O (Work Center)	Provide external repair Report of type R01 & R02, by Work Center.	YES
MB25	RESERVATION	Provide Report of Depots Reservations, (Manual Dues-in).	YES
MB51	DEPOTS/RMA HISTORY	Provide Report of Transactions History for Depots (3201), and Repair Material Account (1000).	NO
MB51	USAGE HISTORY	Provide Report of Units Work Orders Usage.	NO
MB52	STOCK ON HAND (SOH)	Provide Report of Warehouse Stocks of Material on hand. Give an overview of the stock balances across different Plants and SLoc for a selected material. It also displays the status (unrestricted, blocked…)	YES
MB5T	STOCK TRANSFER ORDER (STO)	Provide Report of Stock in Transit (STO), To view the stock in transit in various statuses or life cycle stages.	YES
ME2N	PURCHASE ORDER (CONTRACTS)	Provide Report of Purchase Orders of goods, status and cost from a specific Suppliers.	YES
ME5A	PURCHASE REQUISITIONS	Provide Report of Purchase Requisitions, Customer Demands (PDO), Public Service Procurement Canada Orders (PSPC), and Recommended Order Buy (ROB).	YES
MIR5	INVOICES	Provides Report of Invoices from Purchase Orders.	NO
ZE_ME55	COLLECTIVE RELEASE OF PURCHASE REQUISITIONS	Provide Report of Collective release of Purchase Requisitions.	YES
ZEIWBK	RMA WORK ORDER (SLoc)	Provide external repair Report of movement type 261	YES
ZEMM_AGED_PO	PURCHASE ORDER (EDD)	Provide Report of Purchase order Estimated Delivery Date (EDD).	NO
ZSUPSTRIP	DEPOTS MIN/MAX	Provides Report of Depots warehouse stock levels across different Plants and storage locations.	NO
ZSUPSTRIP	DEPOTS MOVING AVERAGE PRICE	Provide Moving Average Price (MavgP), after each acquisition, average unit price is recomputed by adding the price of acquired units to the price of units in inventory and dividing by the new total number of units.	NO
ZSUPSTRIP	DEPOTS SHELF-LIFE EXPIRATION DATE	Provide Report of Depots Shelf-Life Expired items.	NO

* YES = T-CODE IS COVERED BY ZEPM_ODR; NO = T-CODE IS NOT COVERED BY ZEPM_ODR

ZEPM_Outstanding Demand Report as a Key Integration Tool for Materiel Managers

- The ZEPM_ODR is a standard DRMIS report that reflects live DRMIS data and enables DSC Actors to:
  - know the status of PReqs/POs regardless of the source of the demand
  - investigate the causes of 20+ different potential bottlenecks in the DSC
  - in many cases take immediate action to remediate bottlenecks including prioritizing actions by importance (e.g. operational impact)
- It is the only DRMIS report that:
  - matches supply to workorder demand
  - is capable of navigating through the Defence Supply Chain (and all the way back) to trace a 1st Line demand to where the fulfillment of the demand currently lies
  - is intended to be used by both the Maintenance and Supply communities
    - provides a common view of the same data
  - Capable of determining the various sources of demand



Outstanding Demands Report

Plant Maintenance

Tail Number/CFR/Hull		to	
Planner Group		to	
Main Work centre		to	
Object Type		to	
Equipment No.		to	
Functional Location		to	
Requirement Date		to	
Project			
WBS Element		to	
Revision		to	
Planning Plant	0002	to	
Maintenance Plant		to	
Work order		to	
Order Type	L001	to	L002

○ Released Work orders only
○ Unreleased Work orders only
● Both

● Weapon system demand only
○ Non-weapon system demand
○ All demand

○ Report only overdue shortages
● Report all WO components

Supply Chain

Purchasing Group		to	
TA Code		to	
SMC		to	
MRP Area		to	
Material		to	

Supply Chain demand tracing

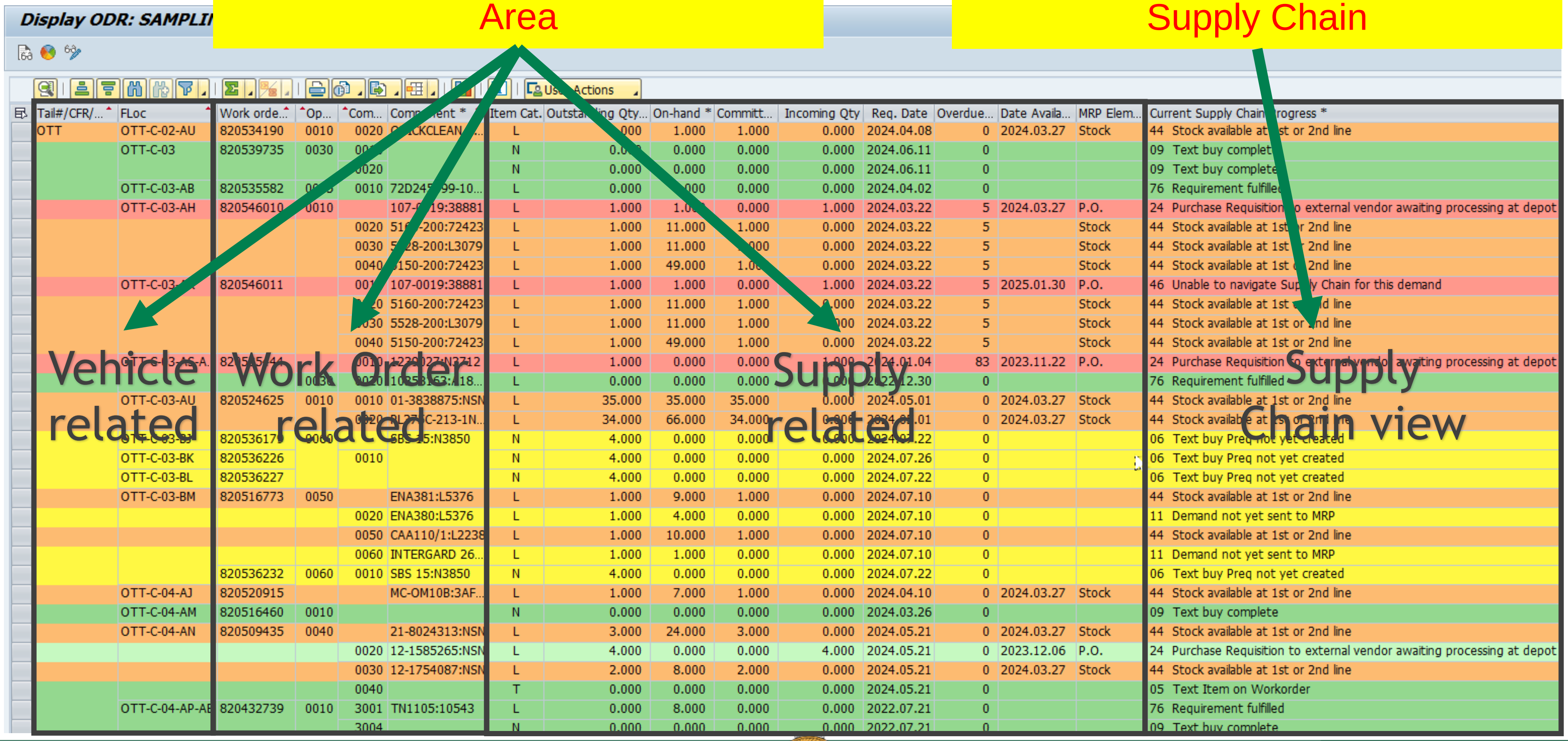
Supply Chain tracking	☑		
Depot Plant for supply chain	3201	to	

ZEPM_ODR and Integration

The ODR integrates Supply and Demand elements using “pegging”

CROSS-MODULE INTEGRATION
(Horizontal)
Integration of data from various areas of ECC for a given MRP Area

INTRA-MODULE INTEGRATION
(Vertical)
Bird’s eye view drawn from different MRP Areas that span the Supply Chain



Vehicle related

Work Order related

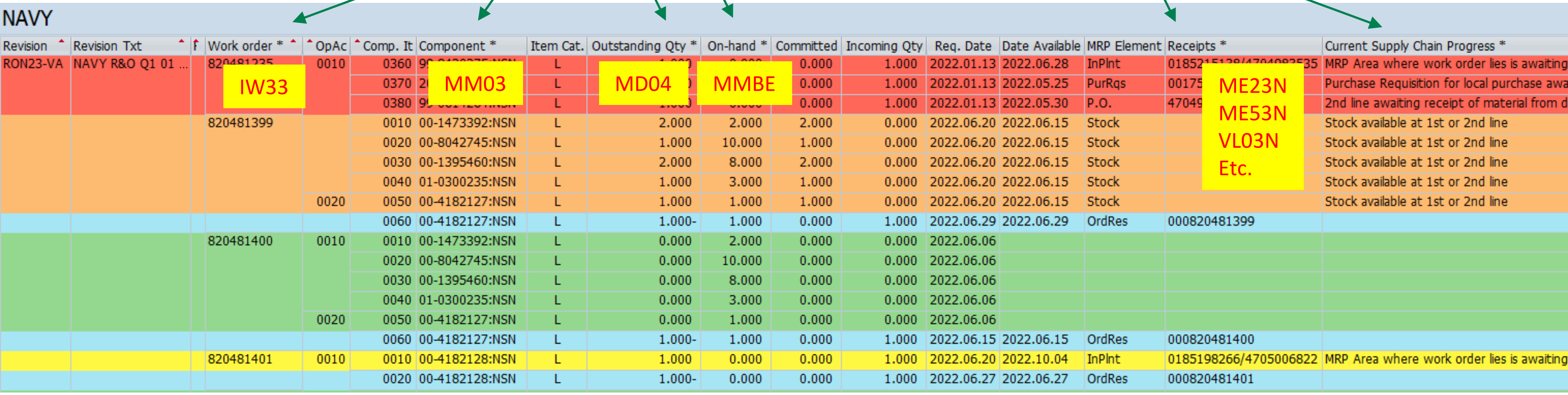
Supply related

Supply Chain view

Tail#/CFR/...	FLoc	Work orde...	Op...	Com...	Component *	Item Cat.	Outstanding Qty...	On-hand *	Committ...	Incoming Qty	Req. Date	Overdue...	Date Availa...	MRP Elem...	Current Supply Chain Progress *
OTT	OTT-C-02-AU	820534190	0010	0020	QUICKCLEAN...	L	.000	1.000	1.000	0.000	2024.04.08	0	2024.03.27	Stock	44 Stock available at 1st or 2nd line
	OTT-C-03	820539735	0030	00		N	0.0	0.000	0.000	0.000	2024.06.11	0			09 Text buy complete
				0020		N	0.000	0.000	0.000	0.000	2024.06.11	0			09 Text buy complete
	OTT-C-03-AB	820535582	00	0010	72D245 99-10...	L	0.000	.000	0.000	0.000	2024.04.02	0			76 Requirement fulfilled
	OTT-C-03-AH	820546010	0010		107-0019:38881	L	1.000	1.0	0.000	1.000	2024.03.22	5	2024.03.27	P.O.	24 Purchase Requisition to external vendor awaiting processing at depot
				0020	51 -200:72423	L	1.000	11.000	1.000	0.000	2024.03.22	5		Stock	44 Stock available at 1st or 2nd line
				0030	5 28-200:L3079	L	1.000	11.000	.000	0.000	2024.03.22	5		Stock	44 Stock available at 1st or 2nd line
				0040	150-200:72423	L	1.000	49.000	1.0	0.000	2024.03.22	5		Stock	44 Stock available at 1st or 2nd line
	OTT-C-03-	820546011		001	107-0019:38881	L	1.000	1.000	0.000	1.000	2024.03.22	5	2025.01.30	P.O.	46 Unable to navigate Supply Chain for this demand
				0020	5160-200:72423	L	1.000	11.000	1.000	.000	2024.03.22	5		Stock	44 Stock available at 1st or 2nd line
				0030	5528-200:L3079	L	1.000	11.000	1.000	00	2024.03.22	5		Stock	44 Stock available at 1st or 2nd line
				0040	5150-200:72423	L	1.000	49.000	1.000	0.000	2024.03.22	5		Stock	44 Stock available at 1st or 2nd line
	OTT-C-03-AS-A...	[illegible]		0010	1220027:N3712	L	1.000	0.000	0.000	1.000	2024.01.04	83	2023.11.22	P.O.	24 Purchase Requisition to external vendor awaiting processing at depot
			0030	0020	10258163:A18...	L	0.000	0.000	0.000	0.000	2022.12.30	0			76 Requirement fulfilled
	OTT-C-03-AU	820524625	0010	0010	01-3838875:NSN	L	35.000	35.000	35.000	0.000	2024.05.01	0	2024.03.27	Stock	44 Stock available at 1st or 2nd line
				0020	BL27 C-213-1N...	L	34.000	66.000	34.000	0.000	2024. .01	0	2024.03.27	Stock	44 Stock available at 1st or 2nd line
	OTT-C-03-BJ	820536179	0060		SBS 15:N3850	N	4.000	0.000	0.000	0.000	2024. .22	0			06 Text buy Preq not yet created
	OTT-C-03-BK	820536226		0010		N	4.000	0.000	0.000	0.000	2024.07.26	0			06 Text buy Preq not yet created
	OTT-C-03-BL	820536227				N	4.000	0.000	0.000	0.000	2024.07.22	0			06 Text buy Preq not yet created
	OTT-C-03-BM	820516773	0050		ENA381:L5376	L	1.000	9.000	1.000	0.000	2024.07.10	0			44 Stock available at 1st or 2nd line
				0020	ENA380:L5376	L	1.000	4.000	0.000	0.000	2024.07.10	0			11 Demand not yet sent to MRP
				0050	CAA110/1:L2238	L	1.000	10.000	1.000	0.000	2024.07.10	0			44 Stock available at 1st or 2nd line
				0060	INTERGARD 26...	L	1.000	1.000	0.000	0.000	2024.07.10	0			11 Demand not yet sent to MRP
		820536232	0060	0010	SBS 15:N3850	N	4.000	0.000	0.000	0.000	2024.07.22	0			06 Text buy Preq not yet created
	OTT-C-04-AJ	820520915			MC-OM10B:3AF...	L	1.000	7.000	1.000	0.000	2024.04.10	0	2024.03.27	Stock	44 Stock available at 1st or 2nd line
	OTT-C-04-AM	820516460	0010			N	0.000	0.000	0.000	0.000	2024.03.26	0			09 Text buy complete
	OTT-C-04-AN	820509435	0040		21-8024313:NSN	L	3.000	24.000	3.000	0.000	2024.05.21	0	2024.03.27	Stock	44 Stock available at 1st or 2nd line
				0020	12-1585265:NSN	L	4.000	0.000	0.000	4.000	2024.05.21	0	2023.12.06	P.O.	24 Purchase Requisition to external vendor awaiting processing at depot
				0030	12-1754087:NSN	L	2.000	8.000	2.000	0.000	2024.05.21	0	2024.03.27	Stock	44 Stock available at 1st or 2nd line
				0040		T	0.000	0.000	0.000	0.000	2024.05.21	0			05 Text Item on Workorder
	OTT-C-04-AP-AE	820432739	0010	3001	TN1105:10543	L	0.000	8.000	0.000	0.000	2022.07.21	0			76 Requirement fulfilled
				3004		N	0.000	0.000	0.000	0.000	2022.07.21	0			09 Text buy complete

Drill-Down Capability/Colour Coding in ZEPM_ODR

Drill-downs available for any column that contains an asterisk



NAVY

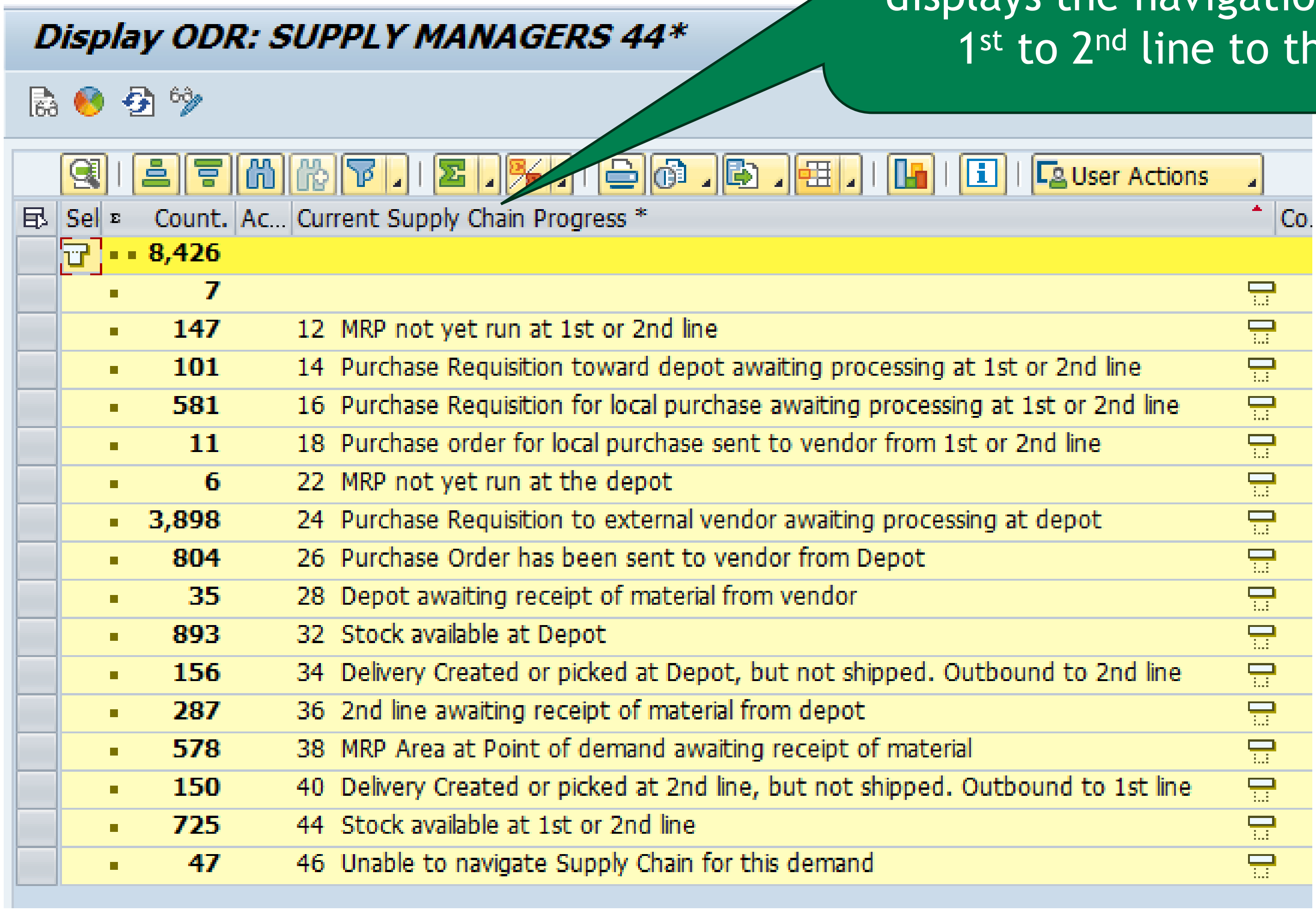
Revision	Revision Txt	f	Work order *	OpAc	Comp. It	Component *	Item Cat.	Outstanding Qty *	On-hand *	Committed	Incoming Qty	Req. Date	Date Available	MRP Element	Receipts *	Current Supply Chain Progress *
RON23-VA	NAVY R&O Q1 01 ...		820481235	0010	0360	[illegible]	L	1.000	0.000	0.000	1.000	2022.01.13	2022.06.28	InPlnt	[illegible]	MRP Area where work order lies is awaiting
					0370	[illegible]	L	[illegible]	[illegible]	0.000	1.000	2022.01.13	2022.05.25	PurRqs	[illegible]	Purchase Requisition for local purchase awa
					0380	[illegible]	L	1.000	0.000	0.000	1.000	2022.01.13	2022.05.30	P.O.	[illegible]	2nd line awaiting receipt of material from d
			820481399		0010	00-1473392:NSN	L	2.000	2.000	2.000	0.000	2022.06.20	2022.06.15	Stock		Stock available at 1st or 2nd line
					0020	00-8042745:NSN	L	1.000	10.000	1.000	0.000	2022.06.20	2022.06.15	Stock		Stock available at 1st or 2nd line
					0030	00-1395460:NSN	L	2.000	8.000	2.000	0.000	2022.06.20	2022.06.15	Stock		Stock available at 1st or 2nd line
					0040	01-0300235:NSN	L	1.000	3.000	1.000	0.000	2022.06.20	2022.06.15	Stock		Stock available at 1st or 2nd line
				0020	0050	00-4182127:NSN	L	1.000	1.000	1.000	0.000	2022.06.20	2022.06.15	Stock		Stock available at 1st or 2nd line
					0060	00-4182127:NSN	L	1.000-	1.000	0.000	1.000	2022.06.29	2022.06.29	OrdRes	000820481399	
			820481400	0010	0010	00-1473392:NSN	L	0.000	2.000	0.000	0.000	2022.06.06				
					0020	00-8042745:NSN	L	0.000	10.000	0.000	0.000	2022.06.06				
					0030	00-1395460:NSN	L	0.000	8.000	0.000	0.000	2022.06.06				
					0040	01-0300235:NSN	L	0.000	3.000	0.000	0.000	2022.06.06				
				0020	0050	00-4182127:NSN	L	0.000	1.000	0.000	0.000	2022.06.06				
					0060	00-4182127:NSN	L	1.000-	1.000	0.000	1.000	2022.06.15	2022.06.15	OrdRes	000820481400	
			820481401	0010	0010	00-4182128:NSN	L	1.000	0.000	0.000	1.000	2022.06.20	2022.10.04	InPlnt	0185198266/4705006822	MRP Area where work order lies is awaiting
					0020	00-4182128:NSN	L	1.000-	0.000	0.000	1.000	2022.06.27	2022.06.27	OrdRes	000820481401	

COLOUR LEGEND

🟥	**A shortage exists**
🟩	The requirement has been fulfilled.
🟩	The requirement date is in the future and the supply is projected to meet the requirement date/quantity
🟨	**A future shortfall condition exists**
🟦	These relate to negative quantities defined for components (items to be returned to stock).
🟧	The outstanding quantity equals the committed quantity

ZEPM_ODR View of the Defence Supply Chain

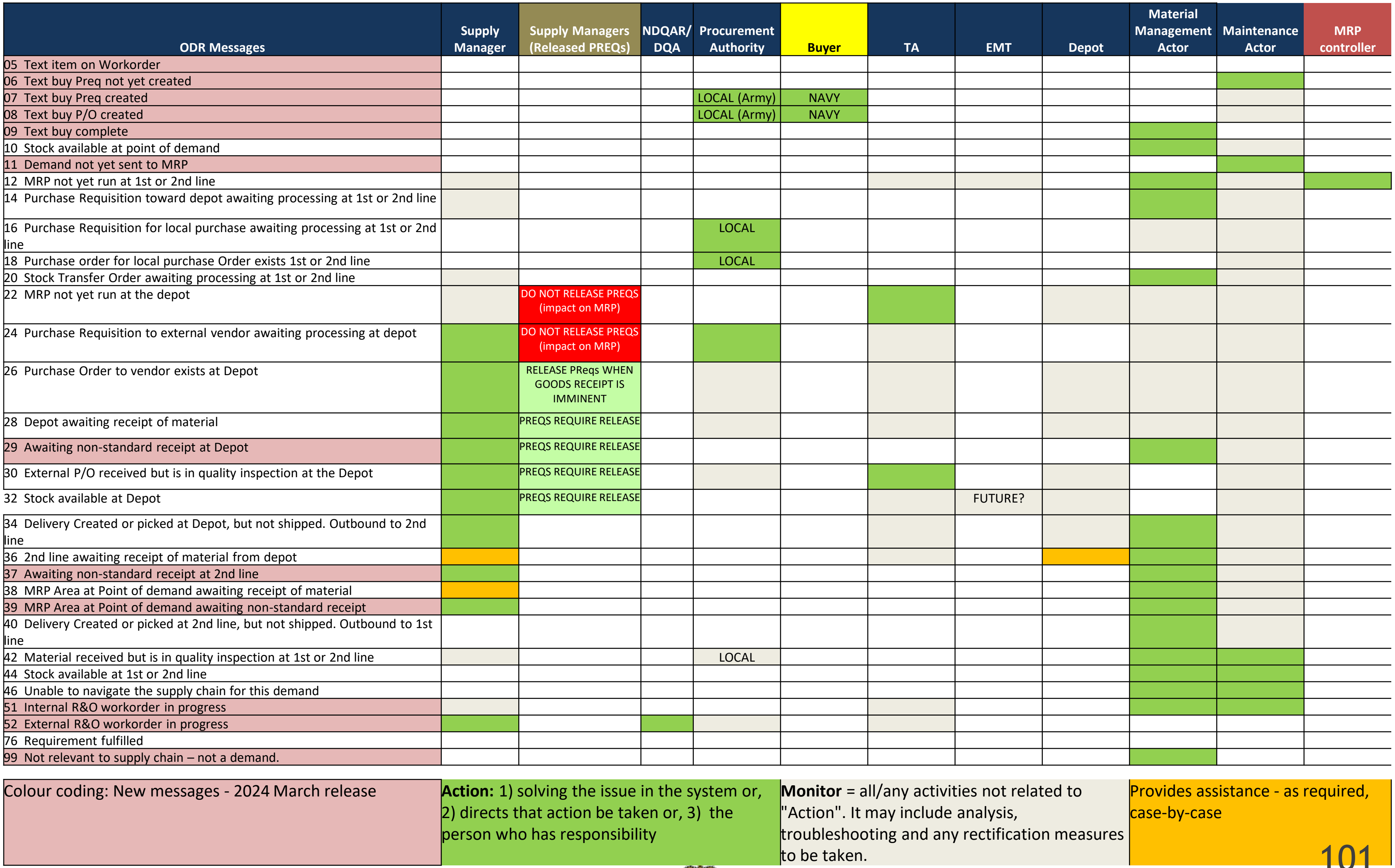
Double-clicking on the “Current Supply Chain Progress” column displays the navigation path from 1^{st} to 2^{nd} line to the Depot



*Display ODR: SUPPLY MANAGERS 44**

Sel	Σ	Count.	Ac...	Current Supply Chain Progress *	Co.
	▪ ▪	**8,426**			
	▪	**7**			
	▪	**147**		12 MRP not yet run at 1st or 2nd line	
	▪	**101**		14 Purchase Requisition toward depot awaiting processing at 1st or 2nd line	
	▪	**581**		16 Purchase Requisition for local purchase awaiting processing at 1st or 2nd line	
	▪	**11**		18 Purchase order for local purchase sent to vendor from 1st or 2nd line	
	▪	**6**		22 MRP not yet run at the depot	
	▪	**3,898**		24 Purchase Requisition to external vendor awaiting processing at depot	
	▪	**804**		26 Purchase Order has been sent to vendor from Depot	
	▪	**35**		28 Depot awaiting receipt of material from vendor	
	▪	**893**		32 Stock available at Depot	
	▪	**156**		34 Delivery Created or picked at Depot, but not shipped. Outbound to 2nd line	
	▪	**287**		36 2nd line awaiting receipt of material from depot	
	▪	**578**		38 MRP Area at Point of demand awaiting receipt of material	
	▪	**150**		40 Delivery Created or picked at 2nd line, but not shipped. Outbound to 1st line	
	▪	**725**		44 Stock available at 1st or 2nd line	
	▪	**47**		46 Unable to navigate Supply Chain for this demand	

ZEPM_ODR Messages and Actions by DSC Actors or Roles



ODR Messages	Supply Manager	Supply Managers (Released PREQs)	NDQAR/ DQA	Procurement Authority	Buyer	TA	EMT	Depot	Material Management Actor	Maintenance Actor	MRP controller
🟥 05 Text item on Workorder											
🟥 06 Text buy Preq not yet created										🟩	
🟥 07 Text buy Preq created				🟩 LOCAL (Army)	🟩 NAVY					🟫	
🟥 08 Text buy P/O created				🟩 LOCAL (Army)	🟩 NAVY					🟫	
🟥 09 Text buy complete									🟩		
10 Stock available at point of demand									🟩	🟫	
🟥 11 Demand not yet sent to MRP										🟩	
12 MRP not yet run at 1st or 2nd line	🟫					🟫	🟫		🟩	🟫	🟩
14 Purchase Requisition toward depot awaiting processing at 1st or 2nd line	🟫								🟩	🟫	
16 Purchase Requisition for local purchase awaiting processing at 1st or 2nd line				🟩 LOCAL					🟫	🟫	
18 Purchase order for local purchase Order exists 1st or 2nd line				🟩 LOCAL						🟫	
20 Stock Transfer Order awaiting processing at 1st or 2nd line	🟫								🟩	🟫	
22 MRP not yet run at the depot	🟫	DO NOT RELEASE PREQS (impact on MRP)				🟩		🟫	🟫	🟫	
24 Purchase Requisition to external vendor awaiting processing at depot	🟩	DO NOT RELEASE PREQS (impact on MRP)		🟩		🟫			🟫	🟫	
26 Purchase Order to vendor exists at Depot	🟩	RELEASE PReqs WHEN GOODS RECEIPT IS IMMINENT		🟫		🟫		🟫	🟫	🟫	
28 Depot awaiting receipt of material	🟩	PREQS REQUIRE RELEASE		🟫		🟫		🟫	🟫	🟫	
🟥 29 Awaiting non-standard receipt at Depot	🟩	PREQS REQUIRE RELEASE							🟩	🟫	
30 External P/O received but is in quality inspection at the Depot	🟩	PREQS REQUIRE RELEASE		🟫		🟩		🟫		🟫	
32 Stock available at Depot	🟩	PREQS REQUIRE RELEASE				🟫	🟫 FUTURE?	🟫		🟫	
34 Delivery Created or picked at Depot, but not shipped. Outbound to 2nd line	🟩					🟫		🟫	🟩	🟫	
36 2nd line awaiting receipt of material from depot	🟧					🟫		🟧	🟩	🟫	
🟥 37 Awaiting non-standard receipt at 2nd line	🟩								🟩	🟫	
38 MRP Area at Point of demand awaiting receipt of material	🟧								🟩	🟫	
🟥 39 MRP Area at Point of demand awaiting non-standard receipt	🟩								🟩	🟫	
40 Delivery Created or picked at 2nd line, but not shipped. Outbound to 1st line									🟩	🟫	
42 Material received but is in quality inspection at 1st or 2nd line	🟫			🟫 LOCAL					🟩	🟩	
44 Stock available at 1st or 2nd line									🟩	🟩	
46 Unable to navigate the supply chain for this demand									🟩	🟩	
🟥 51 Internal R&O workorder in progress	🟫					🟫			🟩	🟩	
🟥 52 External R&O workorder in progress	🟩		🟩	🟫		🟫					
76 Requirement fulfilled											
🟥 99 Not relevant to supply chain – not a demand.									🟩		

🟥 Colour coding: New messages - 2024 March release

🟩 **Action:** 1) solving the issue in the system or, 2) directs that action be taken or, 3) the person who has responsibility

🟫 **Monitor** = all/any activities not related to "Action". It may include analysis, troubleshooting and any rectification measures to be taken.

🟧 Provides assistance - as required, case-by-case

Supply Manager Use Cases (enabled by ZEPM_ODR)

As a Supply Manager I need to:

- be able to work with current (live) transactional data
- know the source, type and importance of a specific demand (e.g. required for ops)
- know what bottlenecks may exist that need action on my part to resolve
- have available all relevant information to assist in making a decision to release a Preq in a timely fashion. This includes:
  - information pertaining to the source and importance of the demand which includes:
    - Whether a vehicle or aircraft is grounded (and including specific aircraft, ship or vehicle#)
    - Days overdue (from the work order's requirement date)
    - The priority of the work order
  - know when my materiel is in available depot stock
  - the MMR's internal comments and technical details
  - ERN-related information
  - the IMA Code of the materiel
- be able to monitor overdue materiel and proactively address potential future shortages
- be able to seamlessly navigate among ECC transactions

ZEPM_ODR Resources

Help:

++DSC Support Desk - Centre de Soutien CAD@ADM(Mat) DSCO@Ottawa-Hull

+LEMS DRMIS Helpdesk@ADM(Mat) DLEPS@Ottawa-Hull

Points of Contact:

- AEPM: Christian Cecil
- LEPM: Steve Cusson
- MEPM: Dany Ouellet/Bill Schulte

Training:

- Currently limited to Supply Manager Course (Guest Lecture)
- ODR institutionalization is a key part of the SDI initiative

Other Resources:

- PPTs available on Request to the above PoCs
- User Manual: Not yet available, but is also part of ODR institutionalization

Module 3G - DSC Business Execution MAIN TOPICS

A. Core Supply Chain Concepts, Goals and Operation
B. Integration in the DSC
C. Materiel Requirements Planning (MRP) Concepts
D. Roles & Responsibilities
E. IT Systems & Tools
F. **Enabling the Smooth Flow of Data and Materiel**

Learning objectives

Module 3 – DSC Business Execution
Section F. Enabling the Smooth Flow of Data and Materiel

At the end of this Section, you will be able to:

- Express, using key use cases, how to enable the smooth flow of data and materiel in the DSC

slido

Activity 3-5

Join at slido.com
Event code: DSC

SLIDO #3-5:
Demand Prioritization – Non-HPR Demands

True or False - At the Depot level, non-HPR demands are satisfied in the order they are received regardless of the importance of the demand.

ANSWER: **TRUE**

- The root cause of this is that for non-HPR items, Program Code related to ATP at the depot does not consider the importance of the demand when determining which demands are to be satisfied; rather, it fulfills demand by the earliest requirement date which essentially means that the earliest demands get satisfied first. This is often referred to as First In First Out (FIFO). So, for example, if two demands for an MMR are received, the first one for a RoP and a following one raised by an operational theatre, the RoP demand is automatically actioned first
- A Business Requirement has been raised to revise the Program Code to take into consideration other importance factors (e.g. requirement to support in-theatre or deployed operations, requirement to make an operational system serviceable, etc)

Case Study 2/4:
Inability of Depots to Ship Materiel that is In Stock

Restricted Items (previously IMA Code 1*) require the approval of a Supply Manager or Technical Authority to release them

Other related root causes of this condition are:

- Unreleased PReqs cannot be converted to STOs.
- Depots can create Deliveries to ship materiel only against STOs, not Preqs.
- Although a system tool exists to identify (and release) PReqs in a timely manner (e.g., when stock exists) it does not have widespread use

NOTE: The ODR provides functionality that enables applicable actors to expeditiously resolve many of the root causes.

Case Study 3/4: Inability to prevent external purchasing of materiel when stock already exists in DND

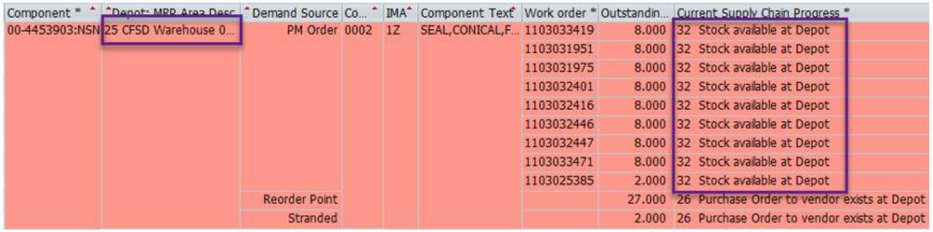
There are several permutations of this:

- Materiel is often purchased for common stock when, in fact, project stock exists within DND
- The reverse of the above
- Materiel is often purchased for a depot when another depot has stock
- Materiel is often purchased when repairable stock exists

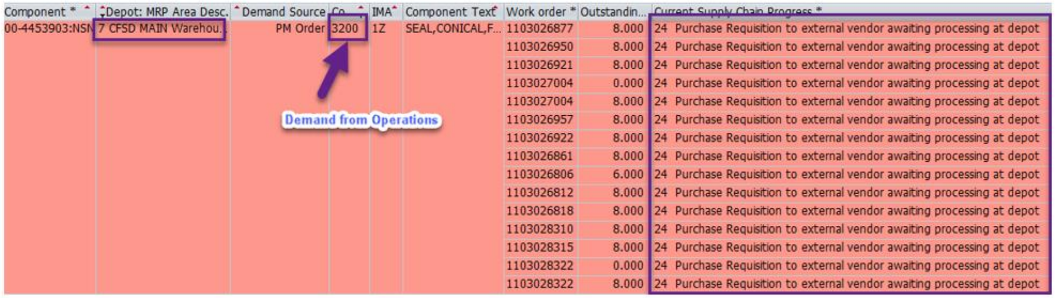
Root cause: a simple lack of visibility to stock that may be available elsewhere in DND prior to initiating external procurement.

SDI: Example of information related to stock available elsewhere

25 CFSD has stock available, 7 CFSD has demand from Operations.
The system would inform the user of this condition.



Component *	Depot: MRP Area Desc.	Demand Source	Co...	IMA	Component Text	Work order *	Outstandin...	Current Supply Chain Progress *
00-4453903:NSN	25 CFSD Warehouse 0...	PM Order	0002	1Z	SEAL,CONICAL,F...	1103033419	8.000	32 Stock available at Depot
						1103031951	8.000	32 Stock available at Depot
						1103031975	8.000	32 Stock available at Depot
						1103032401	8.000	32 Stock available at Depot
						1103032416	8.000	32 Stock available at Depot
						1103032446	8.000	32 Stock available at Depot
						1103032447	8.000	32 Stock available at Depot
						1103033471	8.000	32 Stock available at Depot
						1103025385	2.000	32 Stock available at Depot
		Reorder Point					27.000	26 Purchase Order to vendor exists at Depot
		Stranded					2.000	26 Purchase Order to vendor exists at Depot



Component *	Depot: MRP Area Desc.	Demand Source	Co...	IMA	Component Text	Work order *	Outstandin...	Current Supply Chain Progress *
00-4453903:NSN	7 CFSD MAIN Warehou...	PM Order	3200	1Z	SEAL,CONICAL,F...	1103026877	8.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103026950	8.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103026921	8.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103027004	0.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103027004	8.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103026957	8.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103026922	8.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103026861	8.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103026806	6.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103026812	8.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103026818	8.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103028310	8.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103028315	8.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103028322	0.000	24 Purchase Requisition to external vendor awaiting processing at depot
						1103028322	8.000	24 Purchase Requisition to external vendor awaiting processing at depot

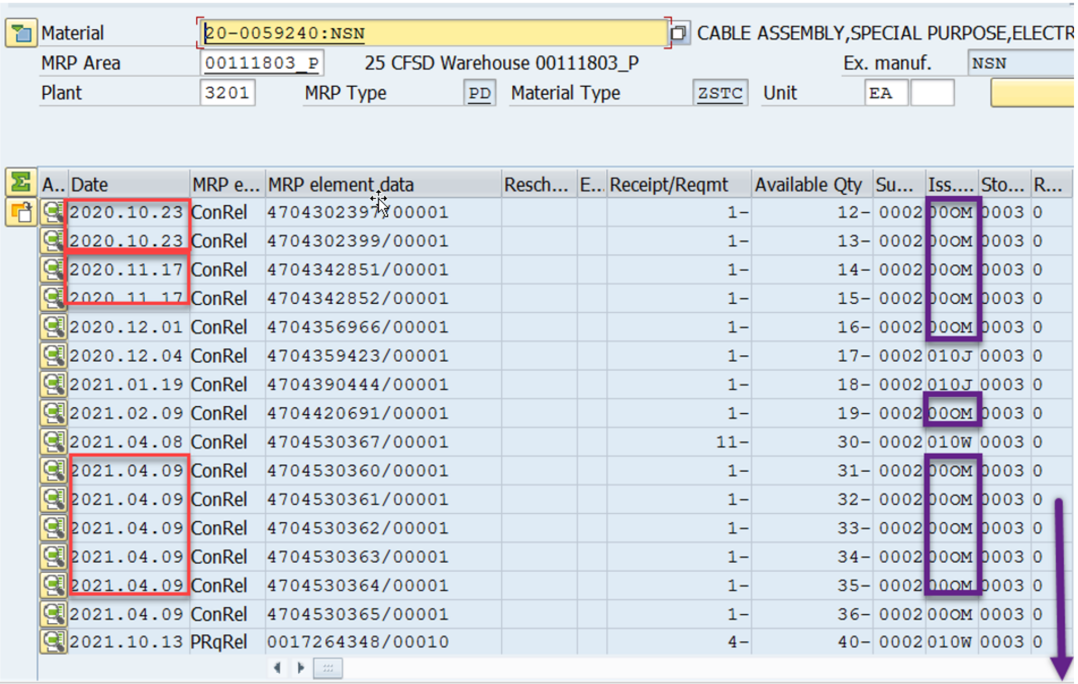
Case Study 4/4: Inability to Consolidate Supply Objects as Demands Move Up the DSC

- Standard SAP has an out-of-the-box capability to perform period-based lot sizing.
- When this technique is used, multiple demands are consolidated into a single procurement object (a Preq)
- The consolidation of supply results in much fewer picks, packaging and goods issues and goods receipts transactions. In some cases, this could result in a 90% reduction of materiel handling and transaction costs.

Root cause: The premature conversion of Preqs to stock transport orders prevents MRP from using period-based lot sizes.

Consequence of not using Period-based Lot-Sizing

- Multiple picks of the same materiel (or disaggregation is required post-pick)
- Requires multiple packages for the same materiel destined for a specific destination
- Multiple goods receipts required at receiving destination



Material 20-0059240:NSN CABLE ASSEMBLY,SPECIAL PURPOSE,ELECTR
MRP Area 00111803_P 25 CFSD Warehouse 00111803_P Ex. manuf. NSN
Plant 3201 MRP Type PD Material Type ZSTC Unit EA

A..	Date	MRP e...	MRP element data	Resch...	E..	Receipt/Reqmt	Available Qty	Su...	Iss....	Sto...	R...
	2020.10.23	ConRel	4704302397/00001			1-	12-	0002	000M	0003	0
	2020.10.23	ConRel	4704302399/00001			1-	13-	0002	000M	0003	0
	2020.11.17	ConRel	4704342851/00001			1-	14-	0002	000M	0003	0
	2020.11.17	ConRel	4704342852/00001			1-	15-	0002	000M	0003	0
	2020.12.01	ConRel	4704356966/00001			1-	16-	0002	000M	0003	0
	2020.12.04	ConRel	4704359423/00001			1-	17-	0002	010J	0003	0
	2021.01.19	ConRel	4704390444/00001			1-	18-	0002	010J	0003	0
	2021.02.09	ConRel	4704420691/00001			1-	19-	0002	000M	0003	0
	2021.04.08	ConRel	4704530367/00001			11-	30-	0002	010W	0003	0
	2021.04.09	ConRel	4704530360/00001			1-	31-	0002	000M	0003	0
	2021.04.09	ConRel	4704530361/00001			1-	32-	0002	000M	0003	0
	2021.04.09	ConRel	4704530362/00001			1-	33-	0002	000M	0003	0
	2021.04.09	ConRel	4704530363/00001			1-	34-	0002	000M	0003	0
	2021.04.09	ConRel	4704530364/00001			1-	35-	0002	000M	0003	0
	2021.04.09	ConRel	4704530365/00001			1-	36-	0002	000M	0003	0
	2021.10.13	PRqRel	0017264348/00010			4-	40-	0002	010W	0003	0

Summary - Why Are We Here?

- Foundational knowledge is key to the enablement of the DSC mission and vision
- The DSC exists both as a concept (e.g. model) and as a physical entity – both aspects are enabled by an ERP and associated applications to support military operations
- Properly configured DSC Tools, ensures compliance and the audit trail comes as a free by-product

Key Takeaways

A. Core Supply Chain Concepts, Goals and Operation

The DSC at its core (concept plus enablement), is powered by an instance of an SAP-based ERP called DRMIS and what you do as DSC practitioners at the operational / tactical level have strategic implications.

B. Integration in the DSC

The efficient and effective operation of the DSC is greatly diminished without integration in all its forms: Intra-Module; Cross-Module; Cross-Application; and Business Process

C. Materiel Requirements Planning (MRP) Concepts

MRP, which balances supply and demand, is the heart of a Supply Chain.

D. Roles and Responsibilities

The DSC involves many actors that must work together within defined roles to enable the right materiel to be delivered to the right location, in the right condition, in the right quantity and at the right time.

E. IT Systems and Tools

The DSC is made up of many systems and tools – the Outstanding Demands (ZEPM_ODR) report is the only DRMIS report that matches supply to workorder demand and is capable of navigating through the Defence Supply Chain while reflecting live DRMIS data.

F. Enabling the Smooth Flow of Data and Materiel

You are part of the DSC capability. Accurate Execution has downstream effects which makes YOU a critical enabler of Operational Effectiveness.

Module 3:
Question & Answer (Part 2)

Join at slido.com
Event code: DSC

Additional References/Information

- Defence Supply Chain Governance Charter – Version 3.0 (Jan 2020)

  Note: this is currently undergoing a major update
- VCDS Open Letter to L1s (Oct 2020)
- Modernization & Integration of Sustainment and Logistics Share Point
- Supply Administration Manual, 7.1 REPAIR AND MAINTENANCE OF MATERIEL, Annex A
- Technical Support Guide, Appendix 10-4-A Outstanding Demands Report

End of Module 3

Lunch
60 Mins

DSC Business Acumen

Module 4

DSC Analytics

Eric Belisle

Supply Chain Analytics Manager

DSCO 8

Modules Summary

1. Government of Canada Direction
2. Departmental Policy
3. DSC Business Execution
4. **DSC Analytics**
5. Reporting

Learning objectives

Module 4 - DSC Analytics

At the end of this module, you will be able to:

- Identify what analytics is
- Identify data and what is required to produce analytics
- Explain DSC analytics products and know how to use them

Activity 4-1

Join at slido.com
Event code: DSC

Module 4 - DSC Analytics

Main Topics:

1. What is analytics
2. How analytics are built
3. How you can use analytics

Topic #1: What is Analytics

In this stage of the module, we will cover:

- What defines analytics?
- The difference between reporting and analytics
- How does analytics apply within DND?

What is Analytics?

[…] military leaders rely heavily on rational/logical models for planning and executing missions. Once the action starts, there may not be time to gather and analyze data in order to make adjustments to planned strategy. Intuitive decision making based on experience under time pressure is often the only alternative to making no decision at all.

Crafting a Data-Driven Culture

To truly unlock the power of Business Analytics, it's crucial for organizations to **cultivate a data-driven culture**. This entails fostering an environment where **data is seen as a strategic asset** and **decisions are guided by evidence** rather than gut feelings.

By contrast, if you make a business decision to commit resources to a new project based on "gut feeling" and not on analysis of projected costs and benefits, you are likely to make some very expensive mistakes.

Willian Adkins, The Disadvantage of Mixing Decision Support Models

Go Deeper

See SAM 1.4 and DSC Analytics Strategy Link

Reporting VS Analytics

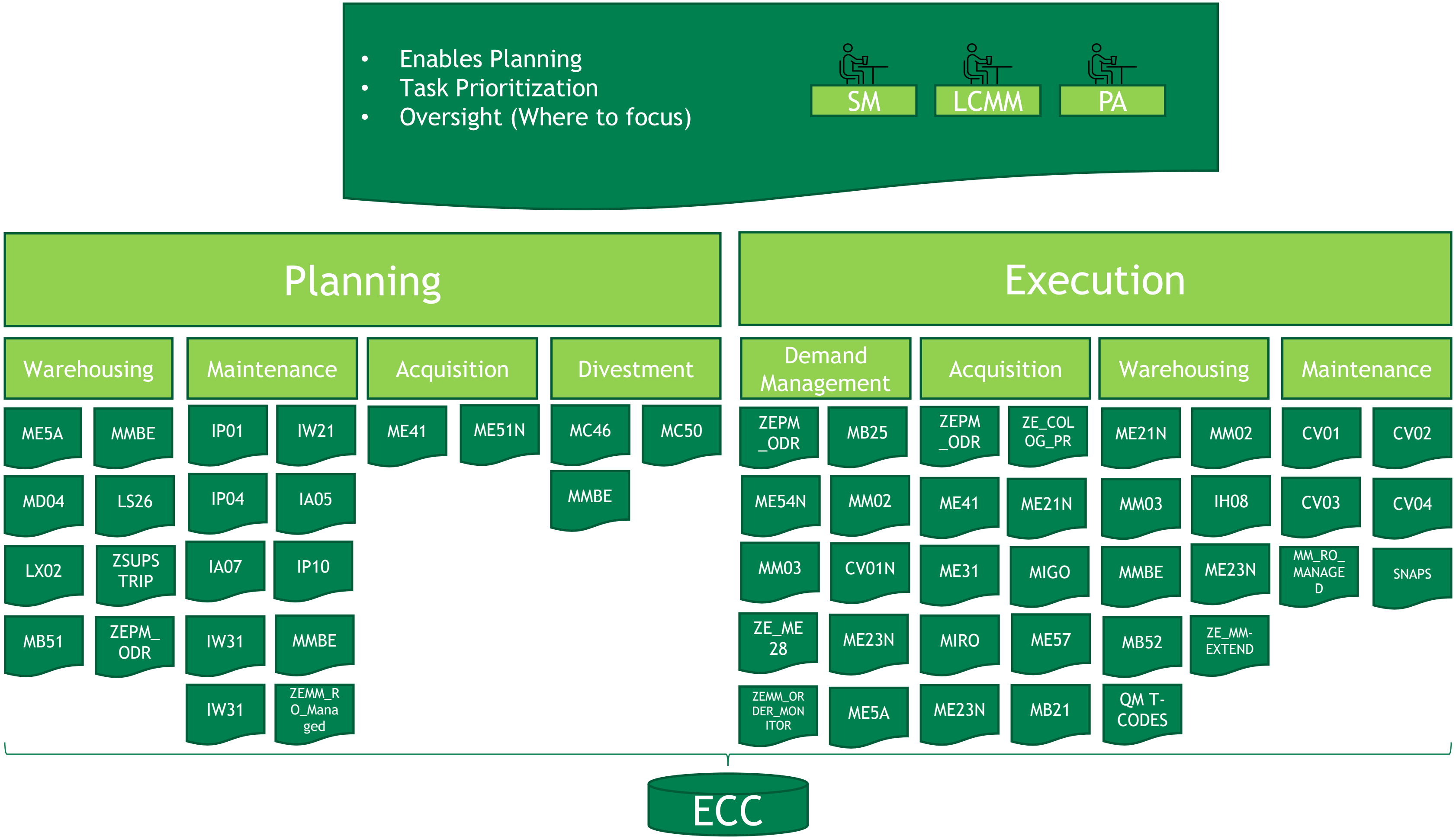
Standard ERP Reporting

- Micro (Tactical) View
- Focus on Task execution
- Reporting scope is limited
- Tactical Performance

Enterprise Analytics

- Macro (Strategic) View
- Reveals Enterprise “pain points”
- Tailored KPIs and Metrics
- Enterprise Performance

DSC Analytics Integrated view



- Enables Planning
- Task Prioritization
- Oversight (Where to focus)

SM
LCMM
PA

- **Planning**
  - Warehousing
    - ME5A
    - MMBE
    - MD04
    - LS26
    - LX02
    - ZSUPS TRIP
    - MB51
    - ZEPM_ODR
  - Maintenance
    - IP01
    - IW21
    - IP04
    - IA05
    - IA07
    - IP10
    - IW31
    - MMBE
    - IW31
    - ZEMM_RO_Managed
  - Acquisition
    - ME41
    - ME51N
  - Divestment
    - MC46
    - MC50
    - MMBE
- **Execution**
  - Demand Management
    - ZEPM_ODR
    - MB25
    - ME54N
    - MM02
    - MM03
    - CV01N
    - ZE_ME28
    - ME23N
    - ZEMM_ORDER_MONITOR
    - ME5A
  - Acquisition
    - ZEPM_ODR
    - ZE_COLOG_PR
    - ME41
    - ME21N
    - ME31
    - MIGO
    - MIRO
    - ME57
    - ME23N
    - MB21
  - Warehousing
    - ME21N
    - MM02
    - MM03
    - IH08
    - MMBE
    - ME23N
    - MB52
    - ZE_MM-EXTEND
    - QM T-CODES
  - Maintenance
    - CV01
    - CV02
    - CV03
    - CV04
    - MM_RO_MANAGED
    - SNAPS

ECC

Module 4 - DSC Analytics

Main Topics:

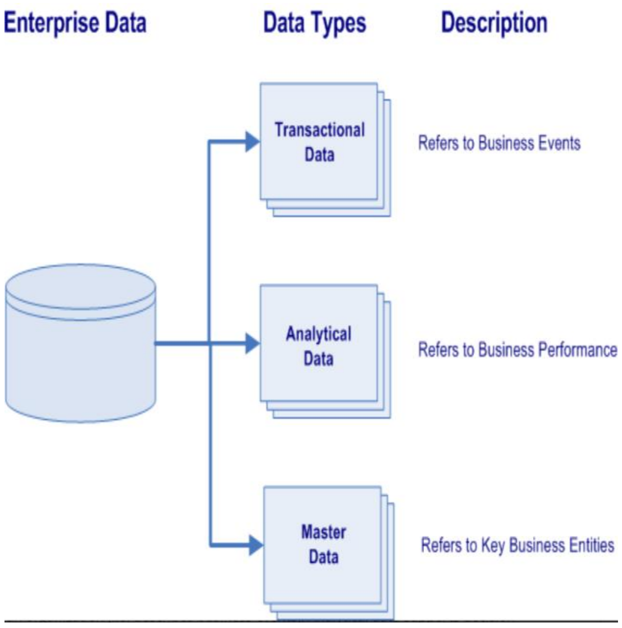
1. What is analytics
2. How analytics are built
3. How you can use analytics

Topic #2: How analytics are built

In this stage of the module, we will cover:

- The different dimensions of data
- How we transform data into analytics
- How we can visualize the analytics

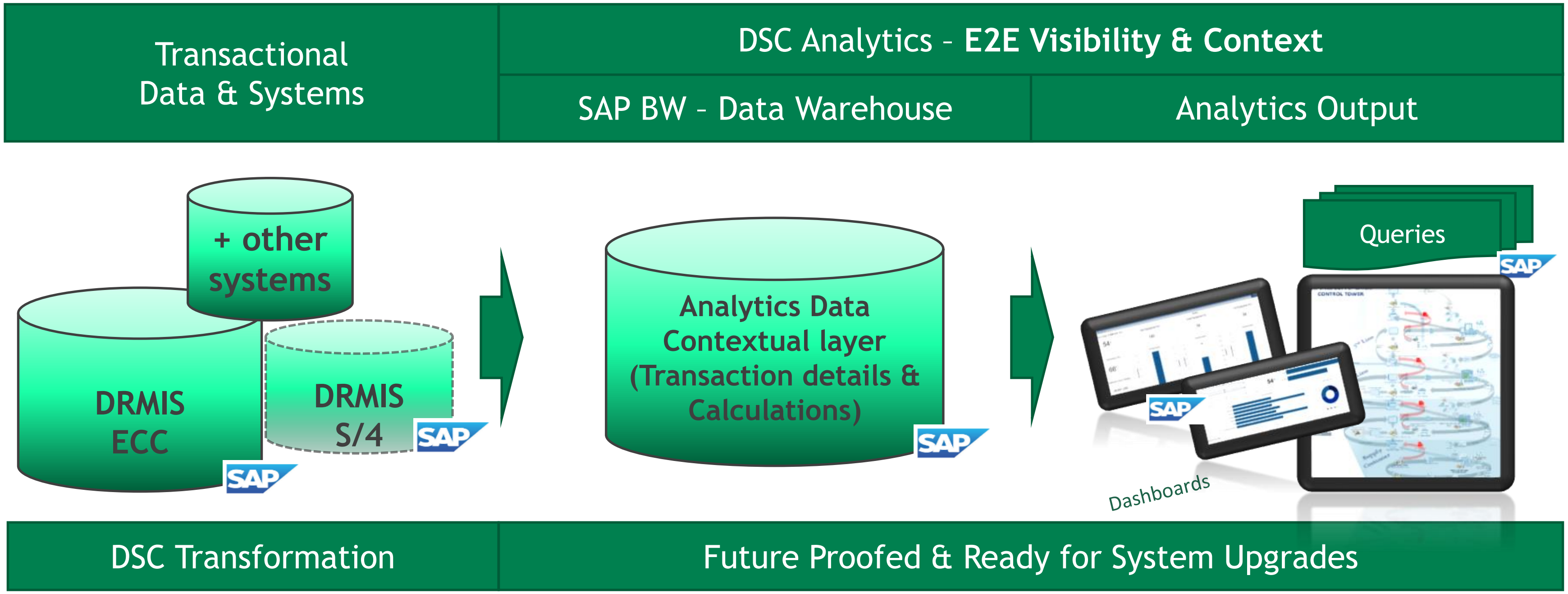
There are multiple dimensions to data


Enterprise Data
Data Types
Description
Transactional Data
Refers to Business Events
Analytical Data
Refers to Business Performance
Master Data
Refers to Key Business Entities

Master Data	Transactions	Analytics
Master Records System Configuration	T-Codes used (Process)	Data Warehouse/Lake

The analytics dimension provides the numerical values, metrics, and measurements that provide business intelligence and support organizational decision making

Data flow – how the magic happens



Transactional Data & Systems

DSC Analytics – **E2E Visibility & Context**

SAP BW – Data Warehouse

Analytics Output

+ other systems

DRMIS ECC

DRMIS S/4

Analytics Data Contextual layer (Transaction details & Calculations)

Queries

Dashboards

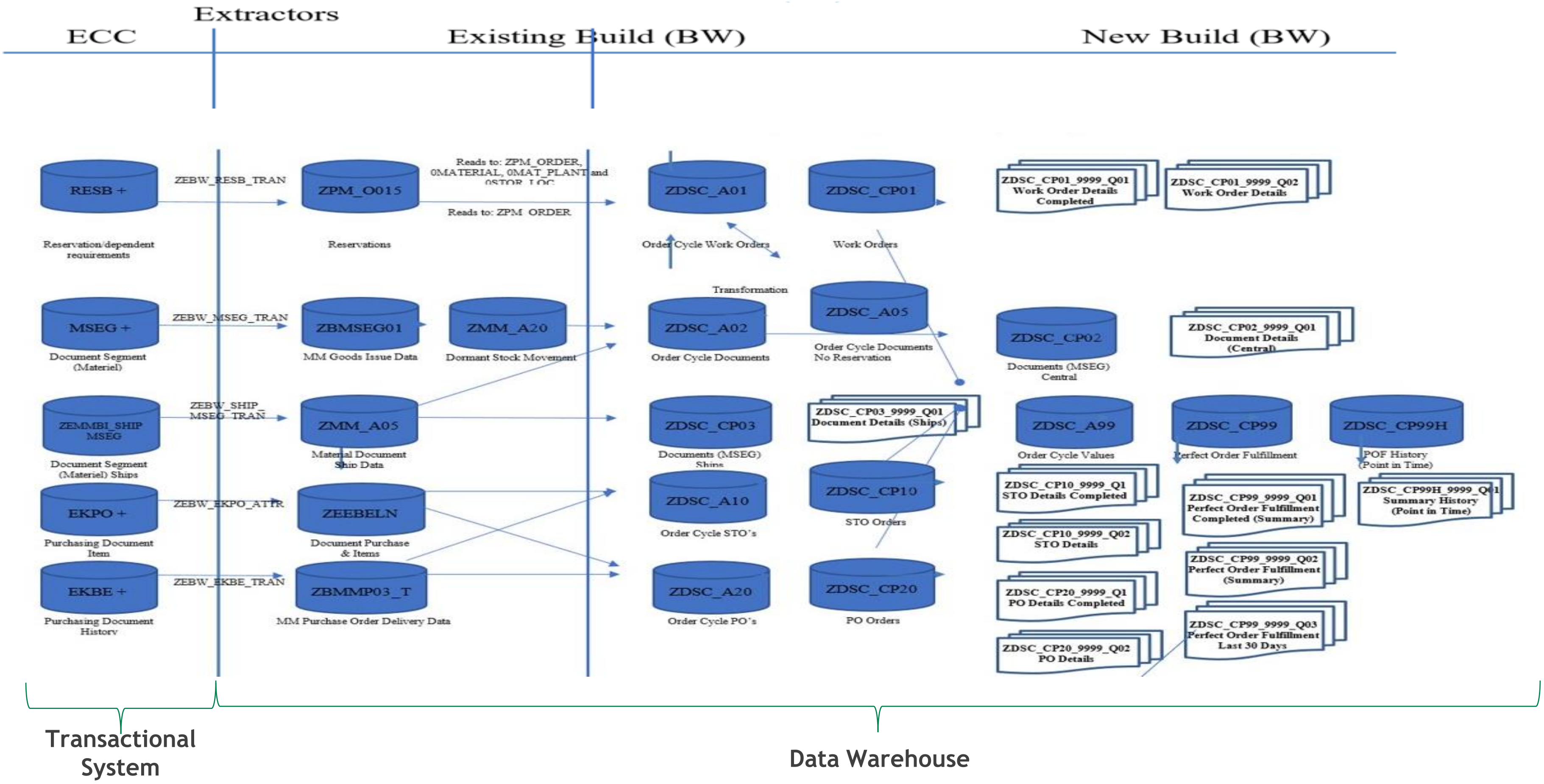
DSC Transformation

Future Proofed & Ready for System Upgrades

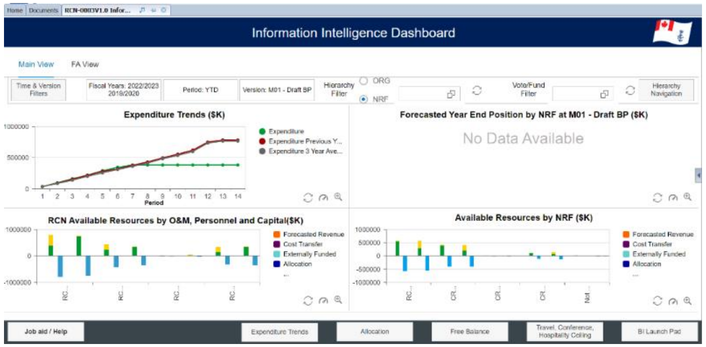
DSC Analytics

- Enterprise DSC Business Intelligence
- Business context based on system transactions
- Analytic Data architecture compatible with S4 future upgrades
- Reveals Enterprise pain points to support DSC Transformation

Data structure and availability


Extractors
ECC
Existing Build (BW)
New Build (BW)
RESB +
Reservation/dependent requirements
ZEBW_RESB_TRAN
ZPM_O015
Reservations
Reads to: ZPM_ORDER, 0MATERIAL, 0MAT_PLANT and 0STOR_LOC
Reads to: ZPM_ORDER
ZDSC_A01
Order Cycle Work Orders
ZDSC_CP01
Work Orders
ZDSC_CP01_9999_Q01
Work Order Details Completed
ZDSC_CP01_9999_Q02
Work Order Details
Transformation
MSEG +
Document Segment (Materiel)
ZEBW_MSEG_TRAN
ZBMSEG01
MM Goods Issue Data
ZMM_A20
Dormant Stock Movement
ZDSC_A02
Order Cycle Documents
ZDSC_A05
Order Cycle Documents No Reservation
ZDSC_CP02
Documents (MSEG) Central
ZDSC_CP02_9999_Q01
Document Details (Central)
ZEMMBI_SHIP MSEG
Document Segment (Materiel) Ships
ZEBW_SHIP_MSEG_TRAN
ZMM_A05
Material Document Ship Data
ZDSC_CP03
Documents (MSEG) Ships
ZDSC_CP03_9999_Q01
Document Details (Ships)
ZDSC_A99
Order Cycle Values
ZDSC_CP99
Perfect Order Fulfillment
ZDSC_CP99H
POF History (Point in Time)
EKPO +
Purchasing Document Item
ZEBW_EKPO_ATTR
ZEEBELN
Document Purchase & Items
ZDSC_A10
Order Cycle STO's
ZDSC_CP10
STO Orders
ZDSC_CP10_9999_Q1
STO Details Completed
ZDSC_CP10_9999_Q02
STO Details
ZDSC_CP99_9999_Q01
Perfect Order Fulfillment Completed (Summary)
ZDSC_CP99H_9999_Q01
Summary History (Point in Time)
ZDSC_CP99_9999_Q02
Perfect Order Fulfillment (Summary)
EKBE +
Purchasing Document History
ZEBW_EKBE_TRAN
ZBMMP03_T
MM Purchase Order Delivery Data
ZDSC_A20
Order Cycle PO's
ZDSC_CP20
PO Orders
ZDSC_CP20_9999_Q1
PO Details Completed
ZDSC_CP20_9999_Q02
PO Details
ZDSC_CP99_9999_Q03
Perfect Order Fulfillment Last 30 Days
Transactional System
Data Warehouse

Various visualization tools / Output


Home
Documents
RCN-0003V1.0 Infor...
Main View
FA View
Time & Version Filters
Hierarchy Filter
ORG
NRF
Vote/Fund Filter
Hierarchy Navigation
1000000
500000
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14
Period
Expenditure
Expenditure Previous Y...
Expenditure 3 Year Ave...
Forecasted Revenue
Cost Transfer
Externally Funded
Allocation
-500000
-1000000
Job aid / Help
Expenditure Trends
Allocation
Free Balance
Travel, Conference, Hospitality Ceiling
BI Launch Pad

Information Intelligence Dashboard

Fiscal Years: 2022/2023 2019/2020

Period: YTD

Version: M01 - Draft BP

Expenditure Trends ($K)

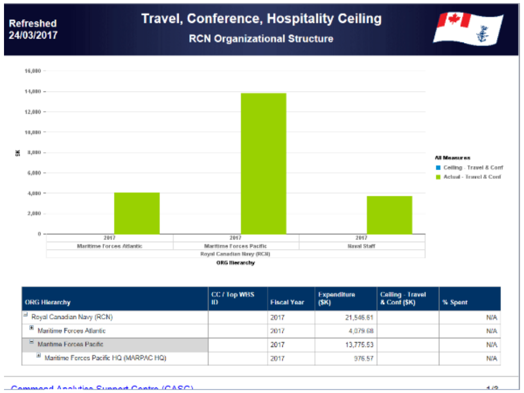
Forecasted Year End Position by NRF at M01 - Draft BP ($K)

No Data Available

RCN Available Resources by O&M, Personnel and Capital($K)

Available Resources by NRF ($K)

SAP BOBJ Lumira


16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
$K
All Measures
Ceiling - Travel & Conf
Actual - Travel & Conf
2017
Maritime Forces Atlantic
2017
Maritime Forces Pacific
2017
Naval Staff
Royal Canadian Navy (RCN)
ORG Hierarchy

Refreshed 24/03/2017

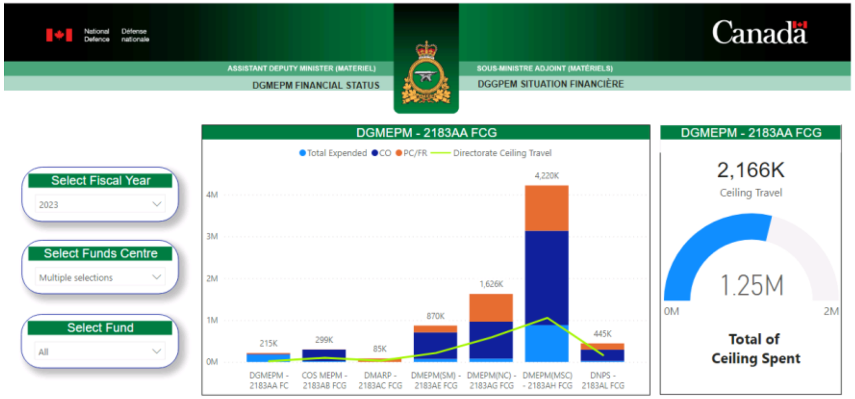
Travel, Conference, Hospitality Ceiling

RCN Organizational Structure

ORG Hierarchy	CC / Top WBS ID	Fiscal Year	Expenditure ($K)	Ceiling - Travel & Conf ($K)	% Spent
Royal Canadian Navy (RCN)		2017	21,546.61		N/A
Maritime Forces Atlantic		2017	4,079.68		N/A
Maritime Forces Pacific		2017	13,775.53		N/A
Maritime Forces Pacific HQ (MARPAC HQ)		2017	976.57		N/A

Command Analytics Support Centre (CASC) 1/3

SAP BOBJ WEBI


National Defence
Défense nationale
Canada
ASSISTANT DEPUTY MINISTER (MATERIEL)
SOUS-MINISTRE ADJOINT (MATÉRIELS)
Select Fiscal Year
Select Funds Centre
Select Fund
Total Expended
CO
PC/FR
Directorate Ceiling Travel
4M
3M
2M
1M
0M
215K
299K
85K
870K
1,626K
4,220K
445K
DGMEPM - 2183AA FC
COS MEPM - 2183AB FCG
DMARP - 2183AC FCG
DMEPM(SM) - 2183AE FCG
DMEPM(NC) - 2183AG FCG
DMEPM(MSC) - 2183AH FCG
DNPS - 2183AL FCG
0M
2M

DGMEPM FINANCIAL STATUS

DGGPEM SITUATION FINANCIÈRE

Select Fiscal Year: 2023

Select Funds Centre: Multiple selections

Select Fund: All

DGMEPM - 2183AA FCG

DGMEPM - 2183AA FCG

2,166K Ceiling Travel

1.25M

Total of Ceiling Spent

MS PowerBI

Module 4 - DSC Analytics

Main Topics:

1. What is analytics
2. How analytics are built
3. How you can use analytics

Activity 4-2

Join at slido.com
Event code: DSC

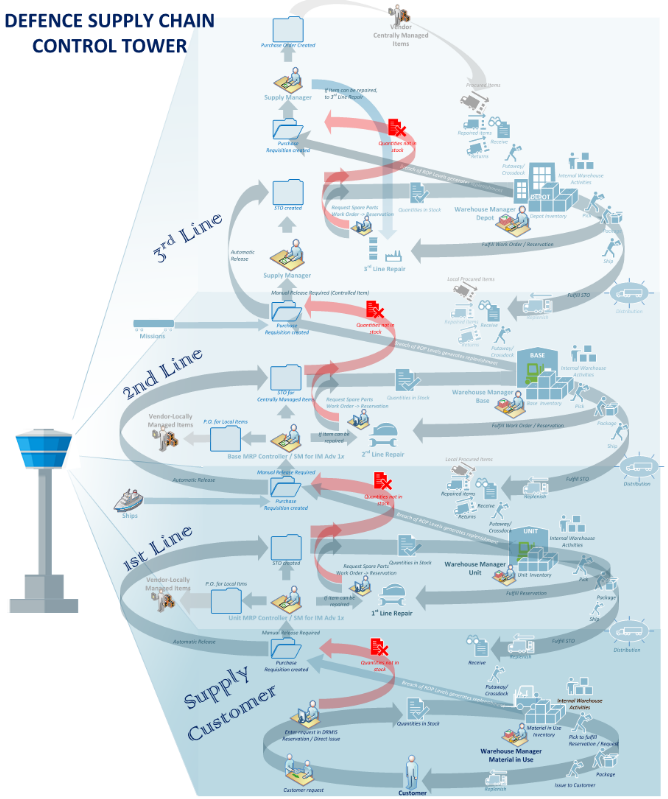
Topic #3: How you can use analytics

In this stage of the module, we will cover:

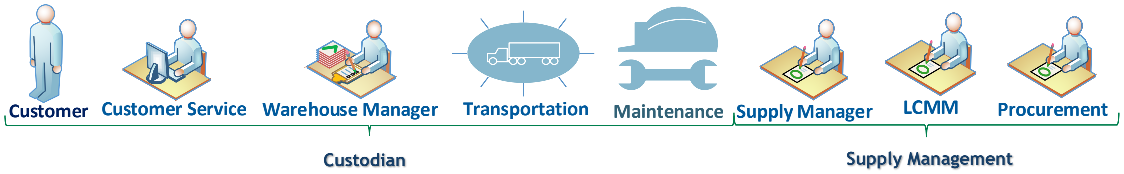
- DSC Analytics Products
- DSC Analytics Dashboards
- Advanced Analytics

DSC Analytic Products

DSC Configuration


DEFENCE SUPPLY CHAIN CONTROL TOWER
3rd Line
2nd Line
1st Line
Supply Customer
Missions
Ships
Customer

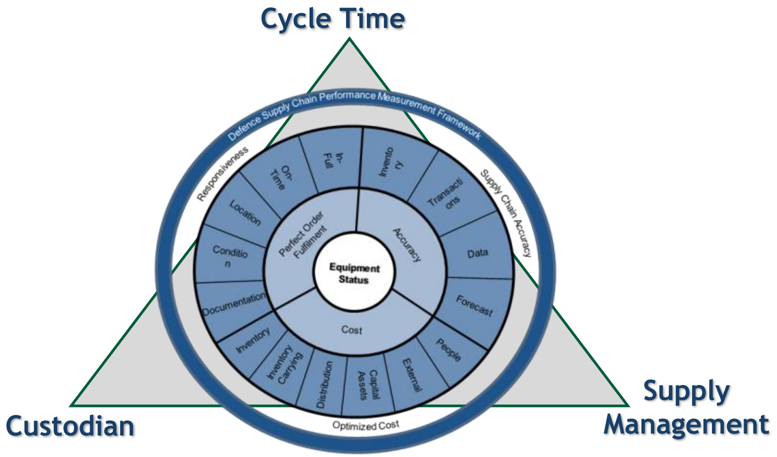
DSC Functions



Customer
Customer Service
Warehouse Manager
Transportation
Maintenance
Supply Manager
LCMM
Procurement

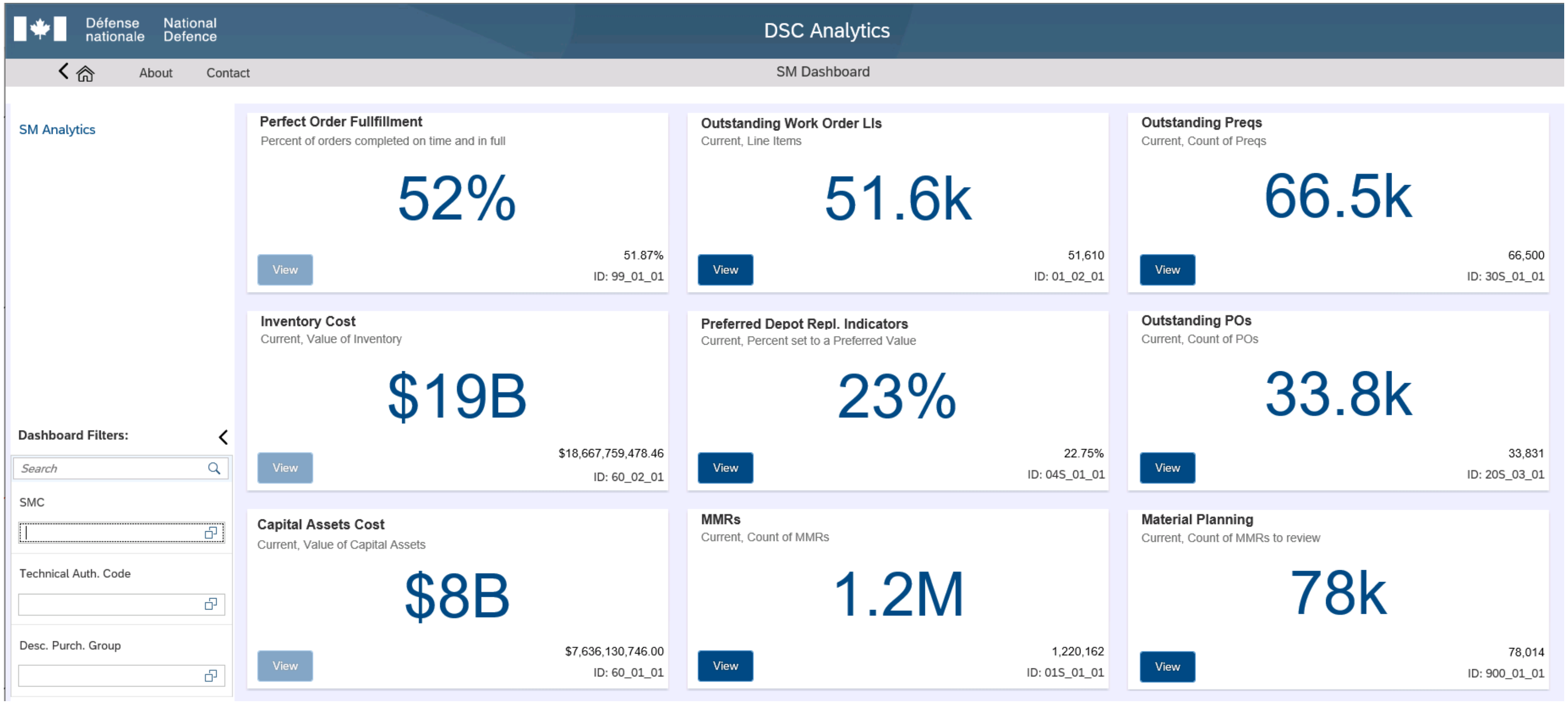
Custodian
Supply Management

DSC Analytic Products


Cycle Time
Custodian
Supply Management
Defence Supply Chain Performance Measurement Framework
Responsiveness
Supply Chain Accuracy
Optimized Cost
On-Time
In-Full
Inventory
Transactions
Data
Forecast
People
External
Capital Assets
Distribution
Inventory Carrying
Inventory
Documentation
Condition
Location
Perfect Order Fulfilment
Accuracy
Cost
Equipment Status

- ✓ **PMF.** Provides a benchmarking capability to track DSC performance.
- ✓ **Supply Management Dashboard.** Provides EPMs with consolidated information to manage centralized Supply Management activities.
- ☐ **Custodian Dashboard.** Provides DSC end-users with a consolidated view of what is required to manage their activities.
- ☐ **Cycle Time.** Provides E2E DSC visibility and analytics for strategic decisions (**RESILLIENCY / DSC EFFECTIVENESS**).

DSC Analytics Material Management Dashboard


Défense nationale
National Defence
DSC Analytics
About
Contact
SM Dashboard
SM Analytics
Dashboard Filters:
Search
SMC
Technical Auth. Code
Desc. Purch. Group
View

Perfect Order Fullfillment
Percent of orders completed on time and in full
52%
51.87%
ID: 99_01_01

Outstanding Work Order LIs
Current, Line Items
51.6k
51,610
ID: 01_02_01

Outstanding Preqs
Current, Count of Preqs
66.5k
66,500
ID: 30S_01_01

Inventory Cost
Current, Value of Inventory
$19B
$18,667,759,478.46
ID: 60_02_01

Preferred Depot Repl. Indicators
Current, Percent set to a Preferred Value
23%
22.75%
ID: 04S_01_01

Outstanding POs
Current, Count of POs
33.8k
33,831
ID: 20S_03_01

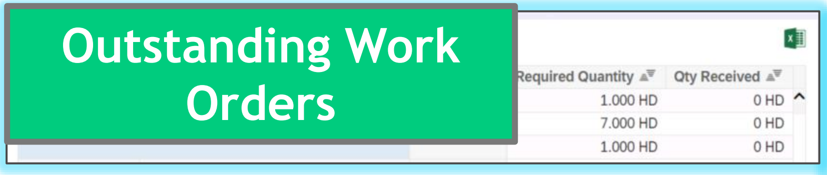
Capital Assets Cost
Current, Value of Capital Assets
$8B
$7,636,130,746.00
ID: 60_01_01

MMRs
Current, Count of MMRs
1.2M
1,220,162
ID: 01S_01_01

Material Planning
Current, Count of MMRs to review
78k
78,014
ID: 900_01_01

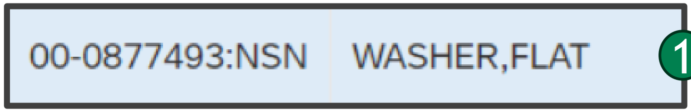
DSC Analytics Training Packages & Calendar

DSC Analytics Material Management Dashboard

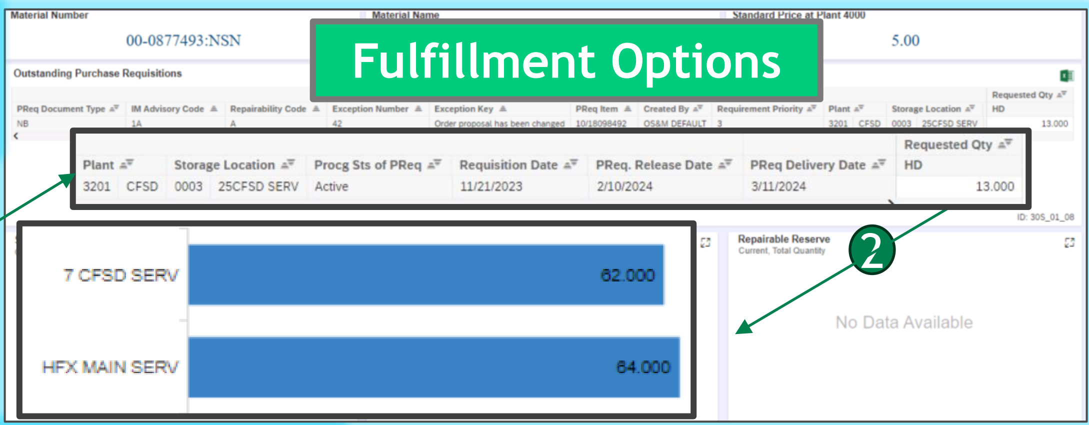


Outstanding Work Orders

Required Quantity	Qty Received
1.000 HD	0 HD
7.000 HD	0 HD
1.000 HD	0 HD



00-0877493:NSN	WASHER,FLAT



Fulfillment Options

Material Number: 00-0877493:NSN

Material Name

Standard Price at Plant 4000: 5.00

Outstanding Purchase Requisitions

PReq Document Type	IM Advisory Code	Repairability Code	Exception Number	Exception Key	PReq Item	Created By	Requirement Priority	Plant	Storage Location	Requested Qty HD
NB	1A	A	42	Order proposal has been changed	10/18098492	OS&M DEFAULT	3	3201 CFSD	0003 25CFSD SERV	13.000

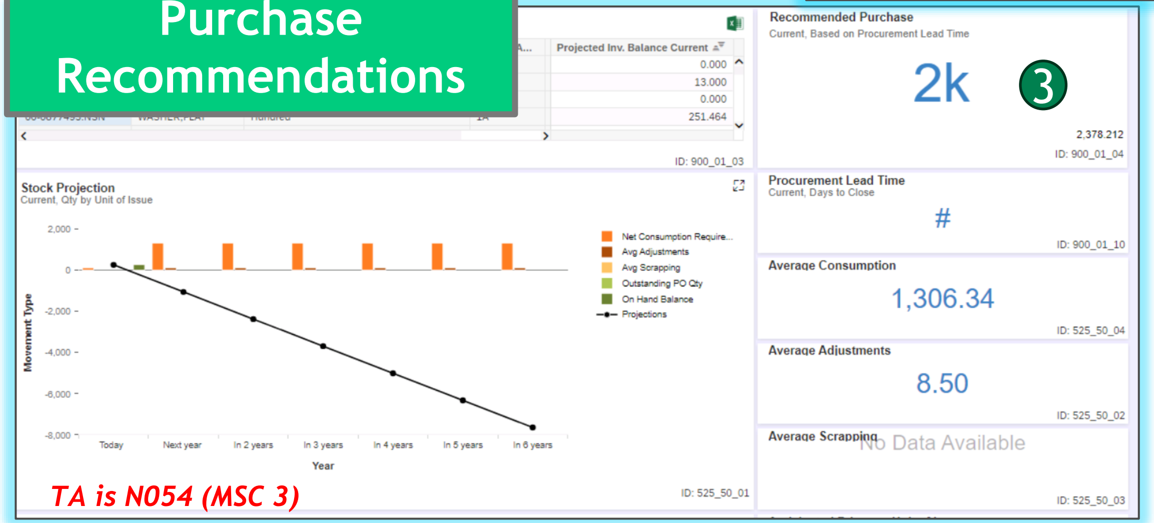
Plant	Storage Location	Procg Sts of PReq	Requisition Date	PReq. Release Date	PReq Delivery Date	Requested Qty HD
3201 CFSD	0003 25CFSD SERV	Active	11/21/2023	2/10/2024	3/11/2024	13.000

ID: 305_01_08

7 CFSD SERV
62.000
HFX MAIN SERV
64.000
1
2

Repairable Reserve
Current, Total Quantity

No Data Available



Purchase Recommendations

Projected Inv. Balance Current
0.000
13.000
0.000
251.464

ID: 900_01_03

Stock Projection
Current, Qty by Unit of Issue

2,000
0
-2,000
-4,000
-6,000
-8,000
Movement Type
Today
Next year
In 2 years
In 3 years
In 4 years
In 5 years
In 6 years
Year
Net Consumption Require...
Avg Adjustments
Avg Scrapping
Outstanding PO Qty
On Hand Balance
Projections

ID: 525_50_01

TA is N054 (MSC 3)

Recommended Purchase
Current, Based on Procurement Lead Time

2k

3

2,378.212

ID: 900_01_04

Procurement Lead Time
Current, Days to Close

#

ID: 900_01_10

Average Consumption

1,306.34

ID: 525_50_04

Average Adjustments

8.50

ID: 525_50_02

Average Scrapping

No Data Available

ID: 525_50_03

Washer Case Study

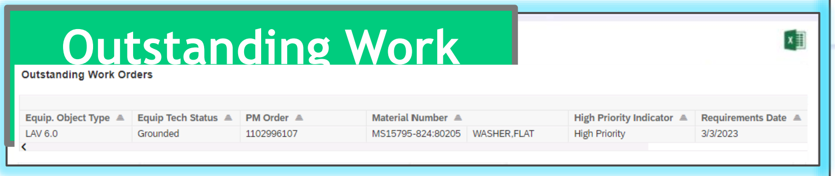
1. There are 3 outstanding WOs from Nov 2023 at the AEFC pointed at Mtl Depot for grounded LAV 6.0 that requires Qty 9 HD.
2. There are 126 HD in Edm & Halifax Depot that could be used to fulfill the WO.
3. Despite the New Buy PReq for 13 HD, DSC Analytics recommends buying 2378 HD.

So WHAT?

- Requirements get fulfilled immediately
- NP is spent more deliberately

DSC Analytics Material Management Dashboard

Outstanding Work

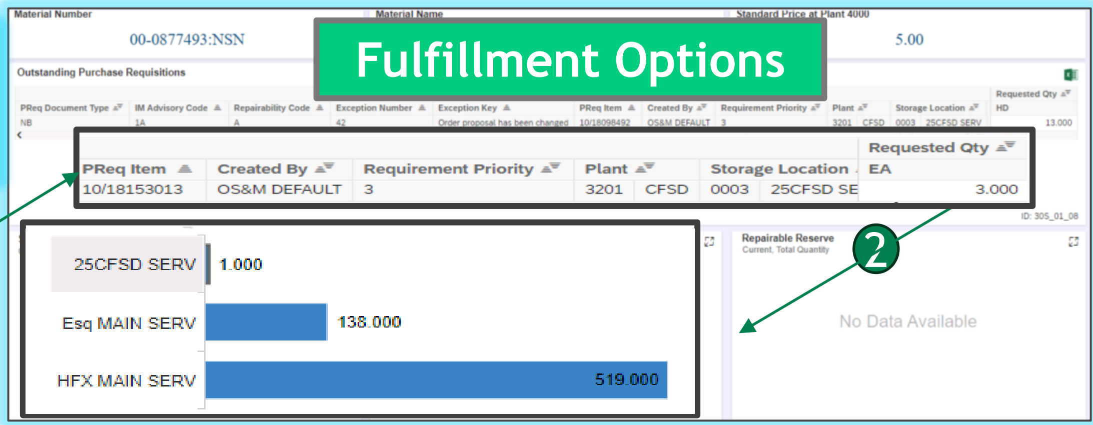


Outstanding Work Orders

Equip. Object Type	Equip Tech Status	PM Order	Material Number		High Priority Indicator	Requirements Date
LAV 6.0	Grounded	1102996107	MS15795-824:80205	WASHER,FLAT	High Priority	3/3/2023

MS15795-824:80205 WASHER,FLAT ①

Fulfillment Options



Material Number: 00-0877493:NSN

Material Name

Standard Price at Plant 4000: 5.00

Outstanding Purchase Requisitions

PReq Document Type	IM Advisory Code	Repairability Code	Exception Number	Exception Key	PReq Item	Created By	Requirement Priority	Plant		Storage Location		Requested Qty HD
NB	1A	A	42	Order proposal has been changed	10/18098492	OS&M DEFAULT	3	3201	CFSD	0003	25CFSD SERV	13.000

PReq Item	Created By	Requirement Priority	Plant		Storage Location		Requested Qty EA
10/18153013	OS&M DEFAULT	3	3201	CFSD	0003	25CFSD SE	3.000

ID: 305_01_08

Purchase Recommendations

③

There are none!

TA is N246 (MSC 6)

Washer Case Study

① There is an outstanding WO at the AEFC pointed at Mtl Depot for a grounded LAV 6.0 that requires Qty 4 – **Req date of 3 Mar 23…**

② There is only 1 at 25 CFSD but a total of 658 across the DSC that could be used to fulfill the WO.

③ Despite the New Buy PReq for 3, DSC Analytics recommends buying None!

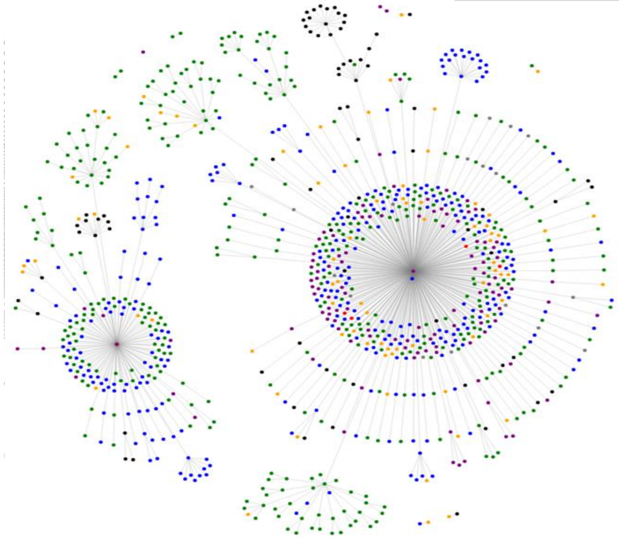
So WHAT?

- Requirements get fulfilled immediately
- NP is spent more deliberately

Advanced analytics

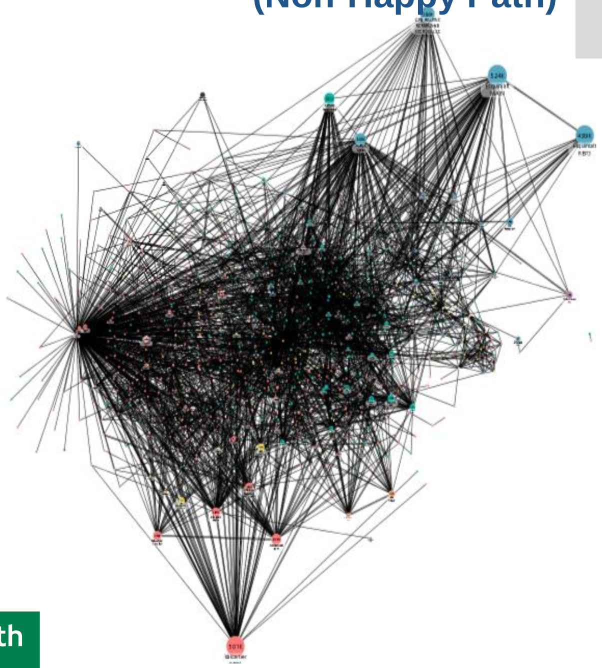
Followed Supporting Relationship (Happy Path)

Automated



Did NOT Follow Supporting Relationship (Non-Happy Path)

Manual Intervention



2020-21 STOs

Excludes:

- All Ships
- All _S MRP Areas
- All clothing accounts
- Plants 5000 to 5999
- No RMA/CRPA
- Publication Depot (in/out)
- Reverse logistics

	Happy Path	Non-Happy Path
Total Volume (LI)	55.98%	44.02%
Total Volume (Qty)	56.05%	43.95%
POF (LI)	61.81%	50.57%
High Priority (LI)	47.36%	52.64%

DRMIS was configured to allow materiel demands to go up the supply chain based on the supporting relationship, which we will call the Happy Path. In 20/21, **44% of all Stock Transport Orders (STO) did not follow the Happy Path.** When the Happy Path was followed, STOs had a 61% POF, while STOs that followed the non-happy path had a 50% POF.

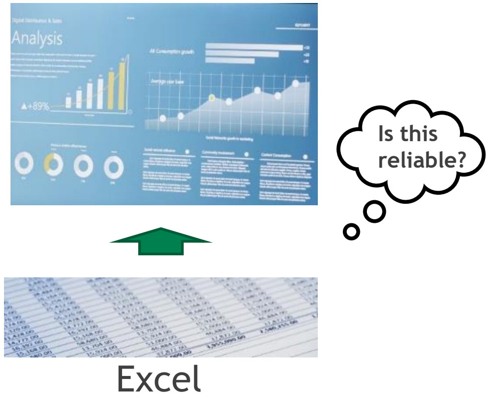
Module 4: Question & Answer

Join at slido.com
Event code: DSC

Key takeaways

Analytics Data

- Functional data sets such as DSC should be managed centrally
- Limit manual data manipulation



Dashboards

- Consider what's under the hood…
- Leverage enterprise capabilities first
- Tailor build dashboards for your line of business, with centralized data
- Highly paid contractor are not required…

Analysts

- Look beyond the picture
- Dedicate resources to analysis work
- These analysts need to act on the information, not producing competing dashboards…

End of Module 4

Break
15 Mins

DSC Business Acumen

Module 5

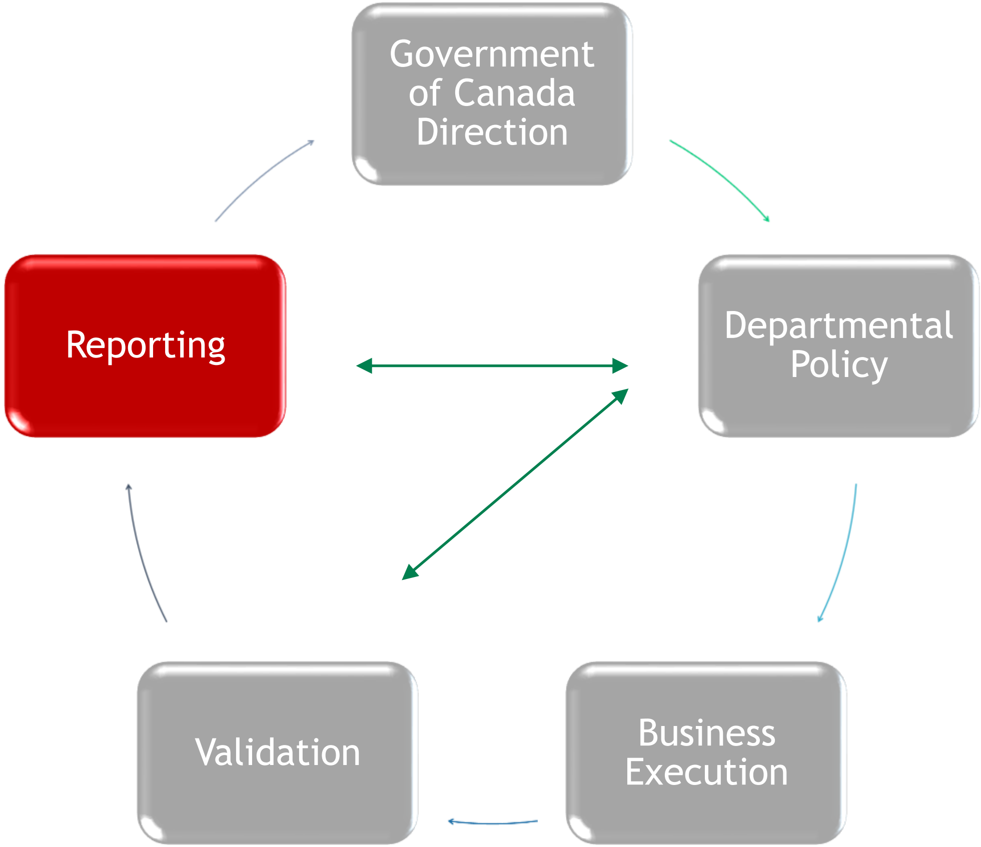
Reporting

Bronwynn Guymer

Section Head

DMPP 7

The Cycle



Government of Canada Direction

Departmental Policy

Business Execution

Validation

Reporting

Module 5:
Audits,
MAPs
Financial
Statements

Module 5 - Reporting

Main Topics:

1. What We Report
2. Why We Report
3. How We Report

Module 5 - Reporting

Learning objectives

At the end of this module, you will be able to:

- Understand why the management of materiel and associated data is critical to reporting back to the Government of Canada

slido

Activity 5-1

Join at slido.com
Event code: DSC

Topic #1: What We Report

All Departments are mandated to report back to the Government of Canada

What we did with the resources we were given:

Financial

Materiel

Human Resources

Infrastructure

How well we achieved the mandate that was given to us:

- 👍 Operations
- 👍 Readiness
- 👎 Training
- 👍 Budgeting
- ✋ Procurement
- 👍 Environmental Protection

Topic #2: Why We Report

In some instances, we self-report and in others we are audited by internal auditors (Review Services) and external auditors (Office of the Auditor General).

We report to Demonstrate:

Sound Stewardship & Value for Money

- We are responsible with the resources we have been granted by the public

Program Delivery

- Show that our programs/mandate are achievable
  - Strong at Home
  - Secure in North America
  - Engaged in the World

Priorities of Canada

- Show that we are able to achieve the Priorities
  - Green Procurement/Indigenous Procurement
  - Fuel Management
  - Toxic Substance Management

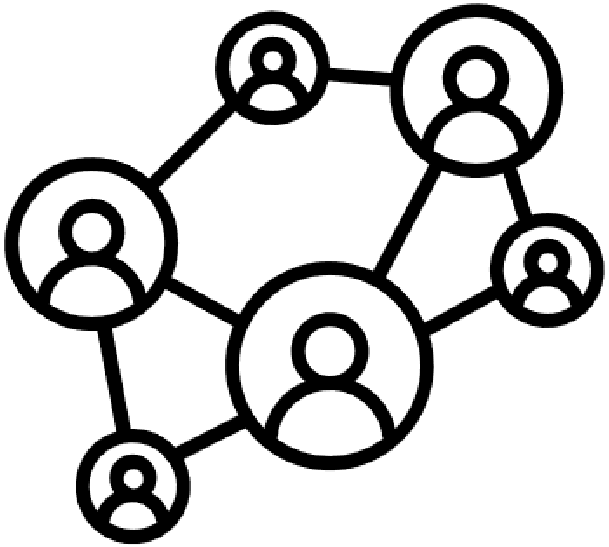
Topic #3: How We Report

We use Instruments such as:

- Departmental Plan
- Departmental Results Report
- Management Action Plans
- Financial Accounts/Public Accounts Statements
- Office of Auditor General Reports/Responses
- Materiel Accountability Action Plans

Integration

- The data that we generate through all of the processes that are executed in the Business Execution Phase that are articulated and designed in the Policy phase is what is pulled in the Validation and Reporting Phase.
- The data is cross-functional and multi-purpose

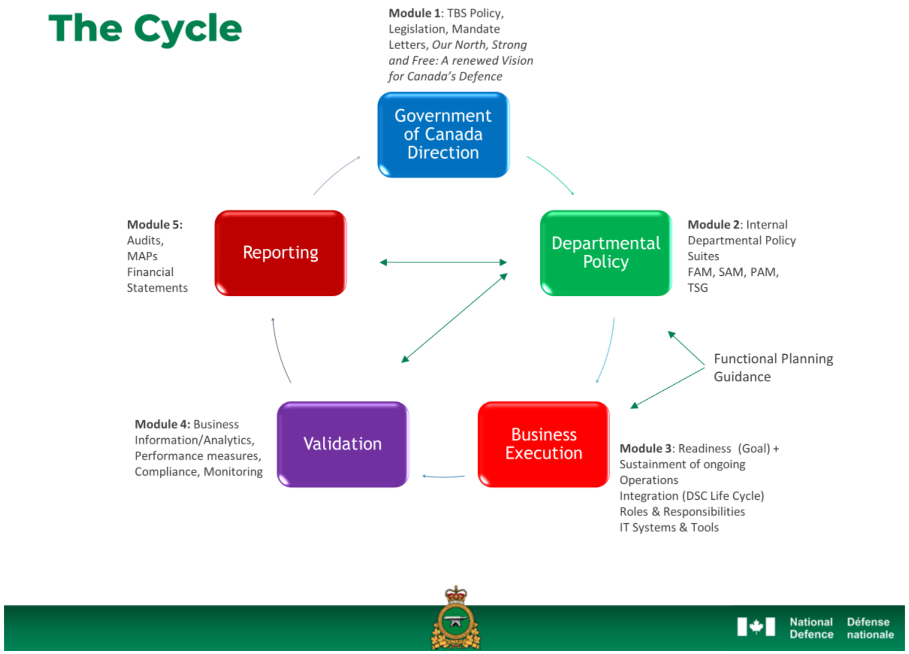


slido

Moule 5: Question & Answer

Join at slido.com
Event code: DSC

Key Takeaways



The Cycle

Module 1: TBS Policy, Legislation, Mandate Letters, *Our North, Strong and Free: A renewed Vision for Canada's Defence*

Government of Canada Direction

Departmental Policy

Module 2: Internal Departmental Policy Suites FAM, SAM, PAM, TSG

Functional Planning Guidance

Business Execution

Module 3: Readiness (Goal) + Sustainment of ongoing Operations Integration (DSC Life Cycle) Roles & Responsibilities IT Systems & Tools

Validation

Module 4: Business Information/Analytics, Performance measures, Compliance, Monitoring

Reporting

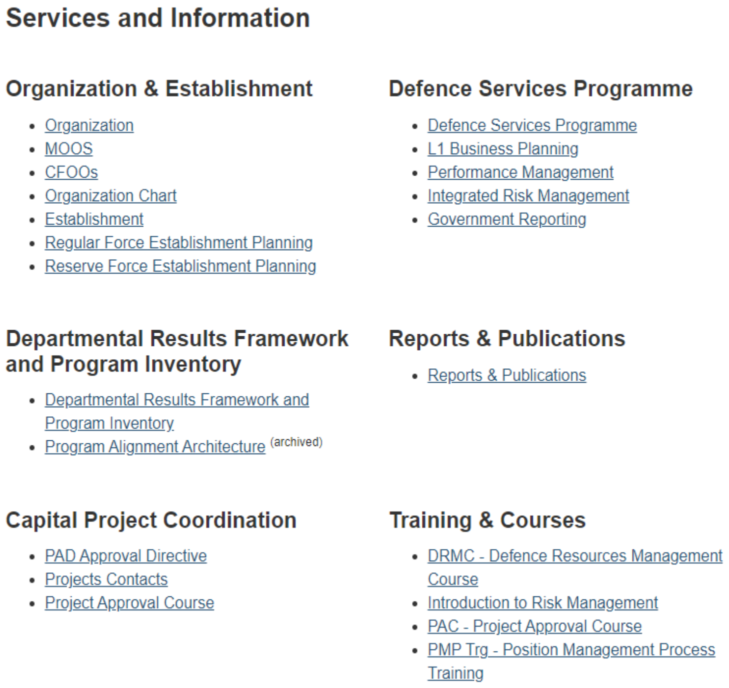
Module 5: Audits, MAPs Financial Statements

National Defence Défense nationale

- We are tasked by Government through multiple instruments
- That information is converted into internal policies that may include process and procedures
- Business is executed
- Internal Analytics and Compliance are done
- Resulting in reporting back to Government that we did what we were tasked with the resources we were given.

Additional Resources

- Under VCDS – Chief of Programme
- Under ADM(MAT)



Services and Information

Organization & Establishment

- Organization
- MOOS
- CFOOs
- Organization Chart
- Establishment
- Regular Force Establishment Planning
- Reserve Force Establishment Planning

Defence Services Programme

- Defence Services Programme
- L1 Business Planning
- Performance Management
- Integrated Risk Management
- Government Reporting

Departmental Results Framework and Program Inventory

- Departmental Results Framework and Program Inventory
- Program Alignment Architecture (archived)

Reports & Publications

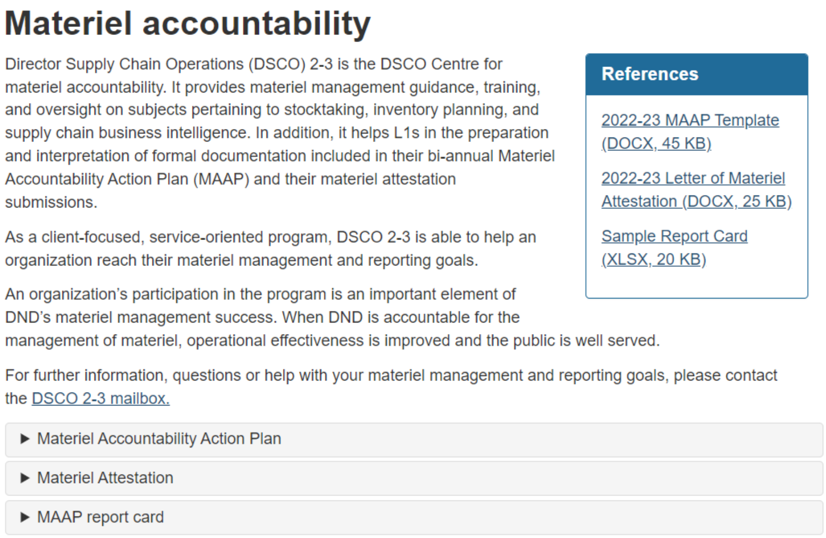
- Reports & Publications

Capital Project Coordination

- PAD Approval Directive
- Projects Contacts
- Project Approval Course

Training & Courses

- DRMC - Defence Resources Management Course
- Introduction to Risk Management
- PAC - Project Approval Course
- PMP Trg - Position Management Process Training



Materiel accountability

Director Supply Chain Operations (DSCO) 2-3 is the DSCO Centre for materiel accountability. It provides materiel management guidance, training, and oversight on subjects pertaining to stocktaking, inventory planning, and supply chain business intelligence. In addition, it helps L1s in the preparation and interpretation of formal documentation included in their bi-annual Materiel Accountability Action Plan (MAAP) and their materiel attestation submissions.

As a client-focused, service-oriented program, DSCO 2-3 is able to help an organization reach their materiel management and reporting goals.

An organization's participation in the program is an important element of DND's materiel management success. When DND is accountable for the management of materiel, operational effectiveness is improved and the public is well served.

For further information, questions or help with your materiel management and reporting goals, please contact the DSCO 2-3 mailbox.

References

2022-23 MAAP Template (DOCX, 45 KB)

2022-23 Letter of Materiel Attestation (DOCX, 25 KB)

Sample Report Card (XLSX, 20 KB)

▶ Materiel Accountability Action Plan

▶ Materiel Attestation

▶ MAAP report card

End of Module 5

Feedback Form

Your feedback is much appreciated and helps to improve future professionalization events

Feedback Form

Link to Feedback Form

Sign in using your Office 365 ECN account login

Attestation Form

Please complete the form to have your Training record updated in HRMS/PeopleSoft

Attestation Form

Link to Attestation Form

Sign in using your Office 365 ECN account login

Closing Remarks
Master of Ceremonies

Denis Forest

Lead

Materiel Management Practitioner Professionalization Project (MMP3)

Thank You