



United States Army Combined Arms Support Command
Sustainment Center of Excellence



Planning Data Branch Overview



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Agenda



- Mission & Authority**
- Organization & Staffing**
- What is a Planning Factor**
- Data\Product Development and Rate Approval Process**
- Support Provided to *Army, DOD, and Allies***
- Rate / Factor Development for Classes of Supply**

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Mission & Authority



**Army Regulation 700–8 (July 2007)
“Logistics Planning Factors and Data Management”**

1–1. Purpose

This regulation provides policy and assigns responsibilities for managing, collecting, developing, maintaining, validating, and disseminating Army logistics data and planning factors for use in Total Army Analysis (TAA), Operations Logistics Planner (OPLOG Planner), Logistics Factors File (LFF), and other Army, Joint, and Department of Defense (DOD) logistical processes.

2–2. Policy

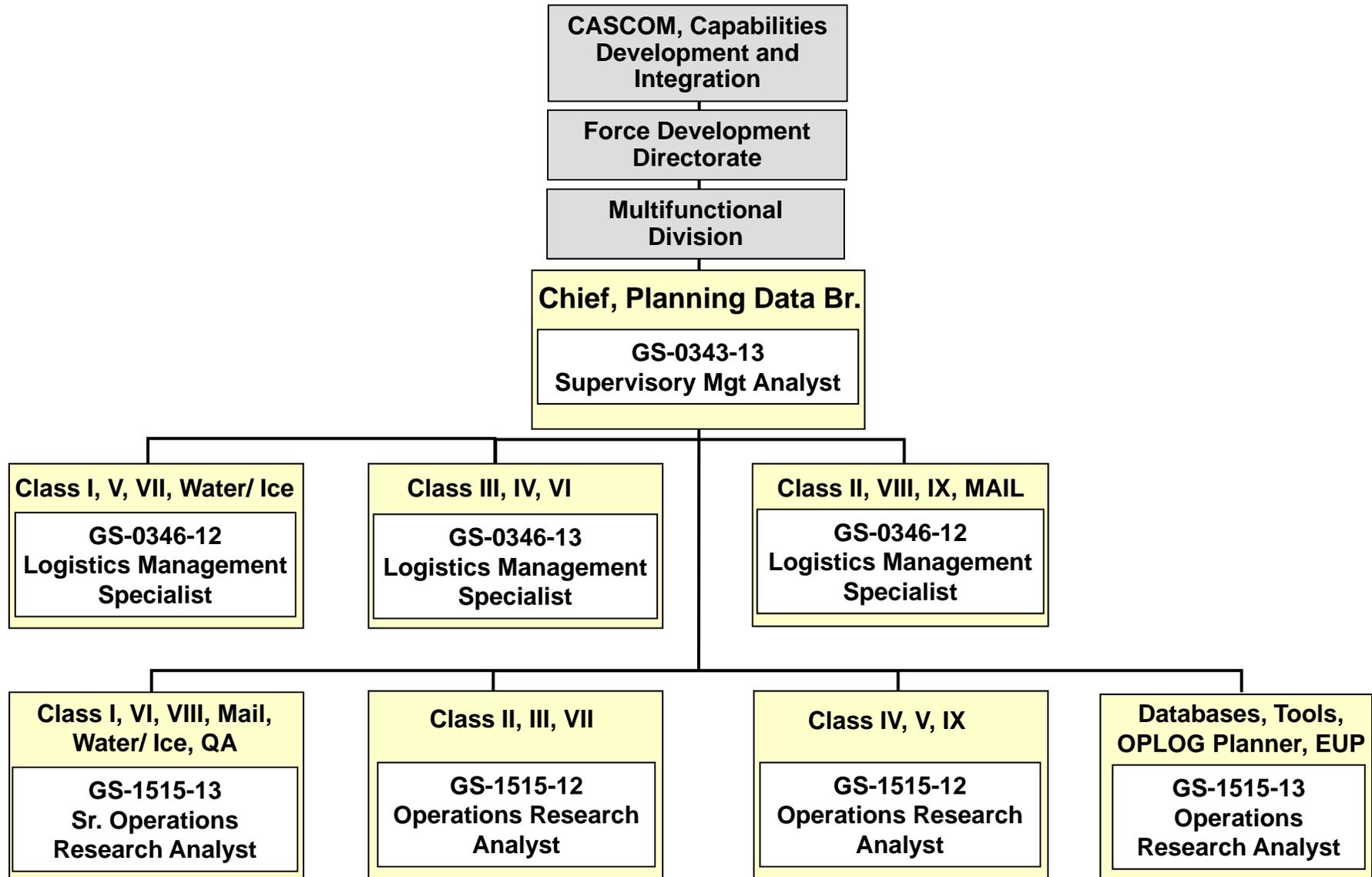
Central management of the collection and dissemination of logistics planning data is performed under the auspices of the G-4 (DALO-SIF-FI). The commander, CASCOM (ATCL-FFMP), is responsible for collecting, developing, maintaining, validating, storing, and disseminating logistics planning factors. The commander, CASCOM (ATCL-FFMP) will provide this information to authorized users.

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Organization & Staffing



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What is a Planning Factor?



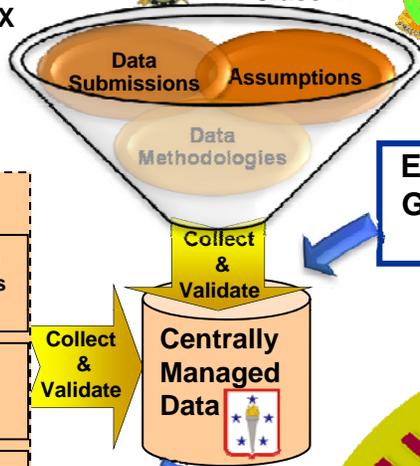
- ❑ Factor used to estimate consumption by each Class of Supply

- ❑ Two basic categories of factors:
 - Population based (variable single point estimate by time/phase):
 - Class I, II, IV, VI, VIII, Water, Mail and Ice
 - Rates expressed as lbs/person/day (PPD), lbs/patient admission or gals/person/day
 - Class I (lbs) = Number of Days * Class I Rate (PPD)* Population Qty

 - Equipment based (variable set of rates based on operation/phase):
 - Class III, V, VII and IX
 - Rates expressed as lbs/LIN/day or gals/LIN/(Hr or KM)
 - Class III (gals) = Number of Days * Fuel Burn rate (gal/LIN/hr) x Equipment Usage Profile (hrs/day) x FMC x Equipment Qty
 - Class IX (lbs) = Number of Days * Class IX Rate (lbs/LIN/day) x FMC x Equipment Qty



Annual Data/Product Development and Rate Approval Process



Additional Data

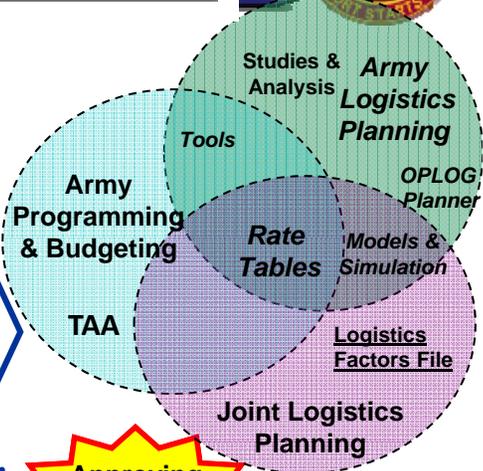
Force Structure (G3)	
Equipment Usage Profiles (TRADOC)	Fully Mission Capable Rates (G4)
Characteristic Data (DLA)	CALL Report Reviews (TRADOC)
Populations (J1,J4)	Surveys (CASCOC)
TPE (ARCENT)	Fuel Burn Rates (AMC)

- Identify obvious disconnects
- Apply Operational knowledge

Execute G4 Data Call

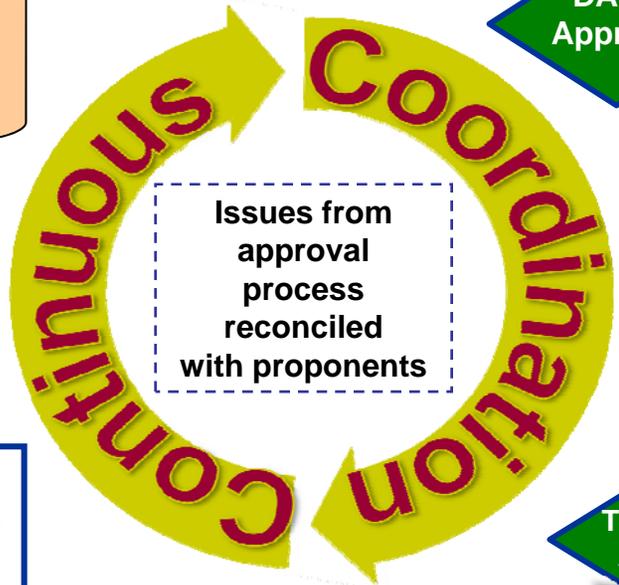
Disseminate Approved Rates

Approved Data Supports



Approving Authority AR 700-8

Reviews for TAA Synchronization



CASCOM Analyzes Input

Develop Draft Rates & Impacts

Proponent & Peer Review

CG CASCOM

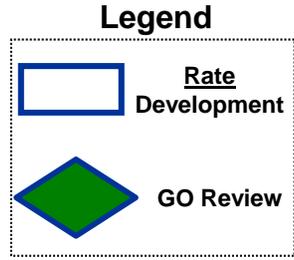
TRADOC ARCIC

DA G4/5/7

DFM DA G3

DA G4 Approval

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AMEDDC&S – Army Medical Department Center and School
 CAA – Center of Army Analysis
 JCCOE – Joint Culinary Center of Excellence
 MPSA - Military Postal Service Agency
 MSCOE – Maneuver Support Center of Excellence
 OPLOG Planner - Operational Logistics Planner
 QMS – Quartermaster School
 SSI – Soldier Support Center

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LOGISTICS PLANNING DATA

Supporting the Army, DOD, and Allies with Logistics Planning Factors

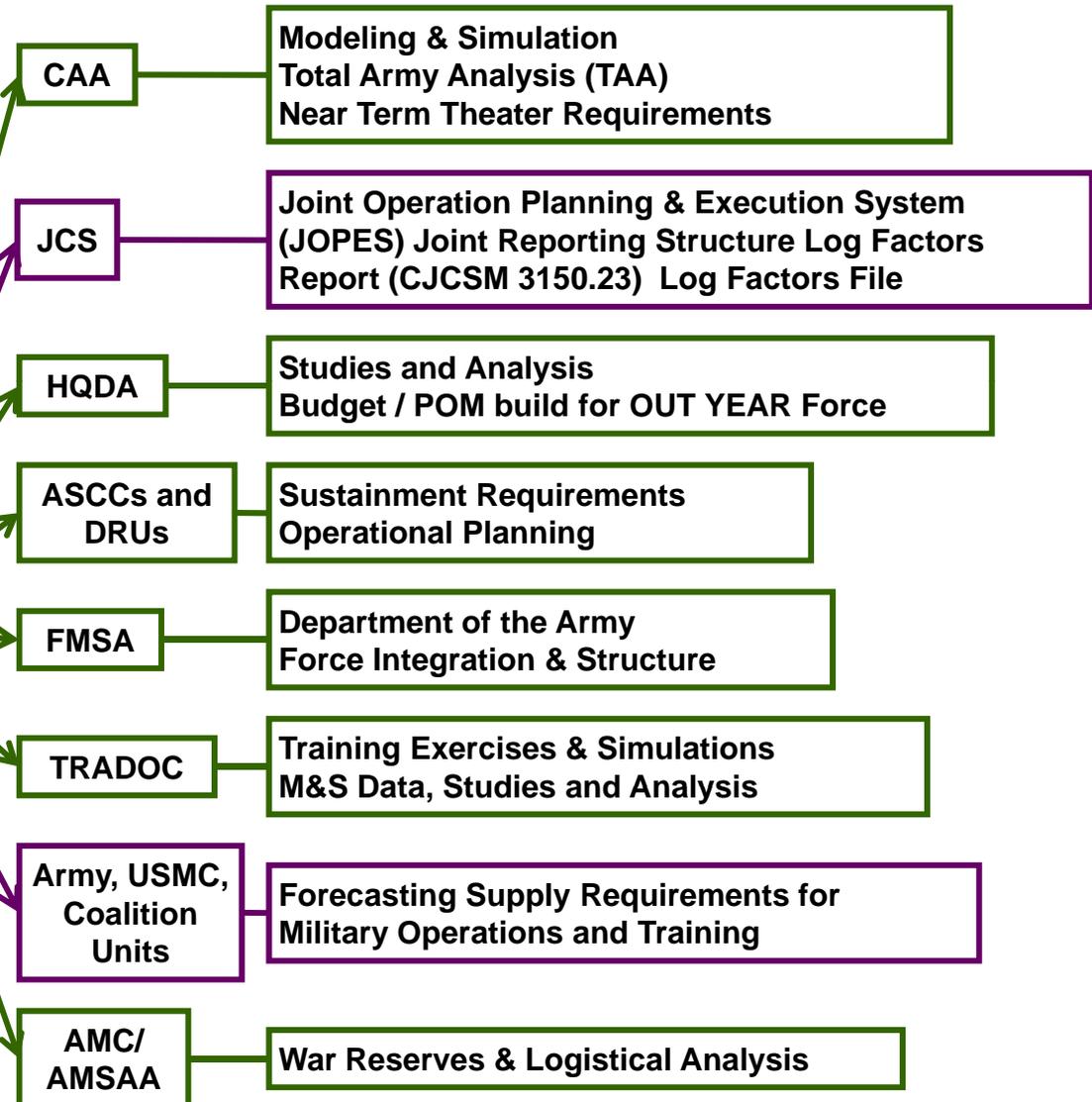


- ❑ Unique Mission: The ONLY authorized source of logistics planning data. (AR 700-8)
- ❑ Personnel (8 auth.) fully funded by DA G4.

IAW AR 700-8, Logistics Planning Factors and Data Management:

- ❑ Manage the collection, development, maintenance, validation, review, and dissemination of Army logistics planning data (1-4.d.(5)).
- ❑ Serve as the central source for logistics planning data used by all Army, Joint, and DOD activities (to include acquisition programs and DOD-sponsored contractors) (1-4.d.(6)).
- ❑ Respond to Army requirements for logistics planning data (1-4.d.(7)).

Enable current operations and future force design.



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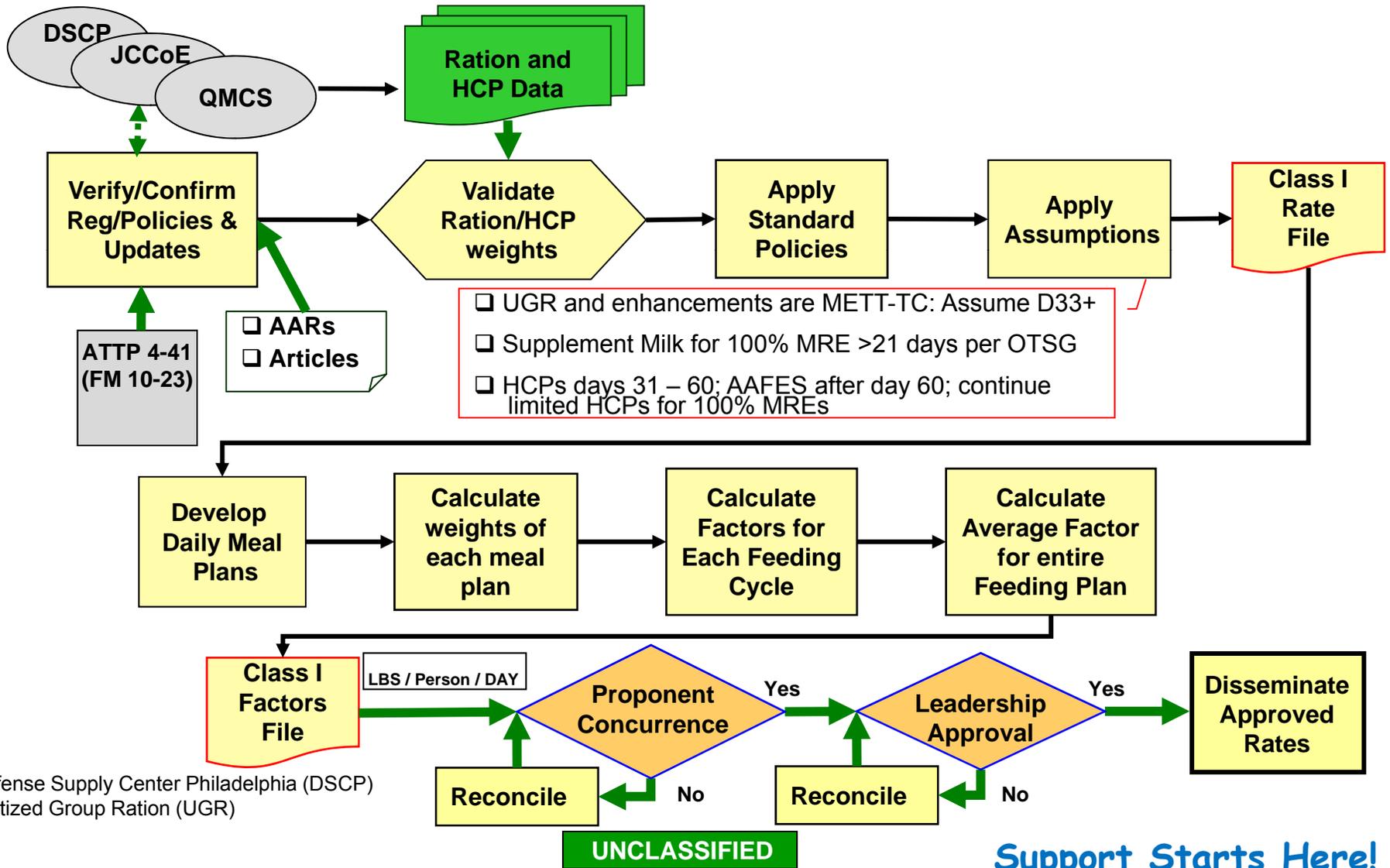
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Class I: Process



DATA and DOCTRINE PROPONENT: Quartermaster Center & School (QMCS) and Joint Culinary Center of Excellence (JCCoE)



* Defense Supply Center Philadelphia (DSCP)
* Unitized Group Ration (UGR)

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Class I: Feeding Plan



Standard	Expeditionary		< 6 Months			Temporary < 24 Months	LOGCAP (70%) DA CONOPS Menu Force Provider, LOGCAP or Direct Contractor
Ration Cycle	M-M-M	U-M-M	U-M-U w/one UGR (A) meal every third day	U-M-U	U-M-U	Military (30%) U-M-U	
Theater Ration Mix	MRE 5.49 PPD	UGR (H&S) B UGR H&S & milkx2, cereal L MRE D UGR H&S & milk	UGR (H&S) B UGR H&S & milkx2, bread x2, cereal L MRE D UGR H&S, fruit, milk, bread x2, salad w/dressing HCP I, II, III	UGR (H&S) B UGR H&S & milkx2, bread x2, cereal L MRE D UGR H&S, fruit, milk, bread x2, salad w/dressing	UGR (H&S) B UGR H&S & milkx2, bread x2, cereal L MRE D UGR H&S, fruit, milk, bread x2, salad w/dressing	UGR (H&S) B UGR H&S & milkx2, bread x2, cereal L MRE D UGR H&S, fruit, milk, bread x2, salad w/dressing	UGR (H&S) B UGR H&S & milkx2, bread x2, cereal L MRE D UGR H&S, fruit, milk, bread x2, salad w/dressing
		8.77 PPD 34%	10.39 PPD 56%	10.13 PPD 34%	10.13 PPD 20%	10.13 PPD 10%	
		MRE B MRE & milk L MRE D MRE & milk	MRE B MRE & milk x2, bread x2, cereal L MRE D MRE, fruit, milk, bread x2, Salad w/dressing HCP I, II, III	MRE B MRE & milk x2, bread x2, cereal L MRE D MRE, fruit, milk, bread x2, Salad w/dressing HCP I, II, III	MRE B MRE & milk x2, bread x2, cereal L MRE D MRE, fruit, milk, bread x2, Salad w/dressing HCP I, II, III	MRE B MRE & milk x2, bread x2, cereal L MRE D MRE, fruit, milk, bread x2, Salad w/dressing HCP I, II, III	MRE B MRE & milk x2, bread x2, cereal L MRE D MRE, fruit, milk, bread x2, Salad w/dressing HCP I, II, III
100%	6.71 PPD 66%	9.07 PPD 33%	9.07 PPD 33%	9.07 PPD 20%	9.07 PPD 30%		
UGR (A) B UGR A, Milk x2, bread x2, cereal L MRE D UGR A, fruit, milk, bread x2, Salad w/dressing HCP I, II, III	UGR (A) B UGR A, Milk x2, bread x2, cereal L MRE D UGR A, fruit, milk, bread x2, Salad w/dressing	UGR (A) B UGR A, Milk x2, bread x2, cereal L MRE D UGR A, fruit, milk, bread x2, Salad w/dressing	UGR (A) B UGR A, Milk x2, bread x2, cereal L MRE D UGR A, fruit, milk, bread x2, Salad w/dressing	UGR (A) B UGR A, Milk x2, bread x2, cereal L MRE D UGR A, fruit, milk, bread x2, Salad w/dressing	UGR (A) B UGR A, Milk x2, bread x2, cereal L MRE D UGR A, fruit, milk, bread x2, Salad w/dressing		
8.87 PPD 11%	8.61 PPD 33%	8.61 PPD 60%	8.61 PPD 60%	8.61 PPD 60%			
Deployment Days D+	1-20 days	21-30	31-60	61-90	91-180	181 Days to 24 Months	
PPD	5.49	7.41	9.79	9.28	9.01	2.67	

Note: The Average Rate for Military Provided After Day 181 is 8.92 before the 70% LOGCAP support is applied

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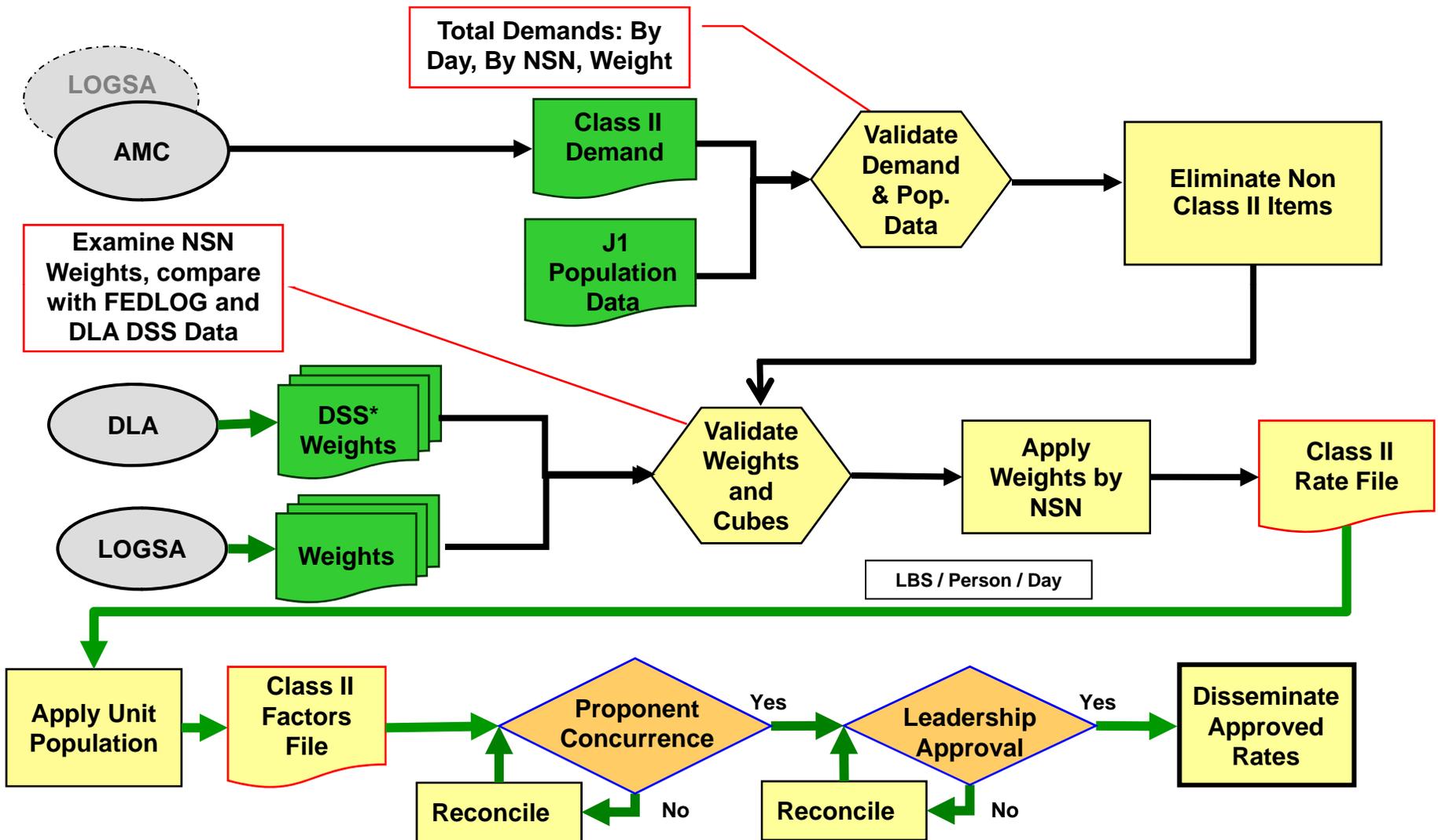
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Class II: General Supplies



DATA and DOCTRINE PROPONENT: Army Materiel Command (AMC)



*Distribution Standard System (DSS)

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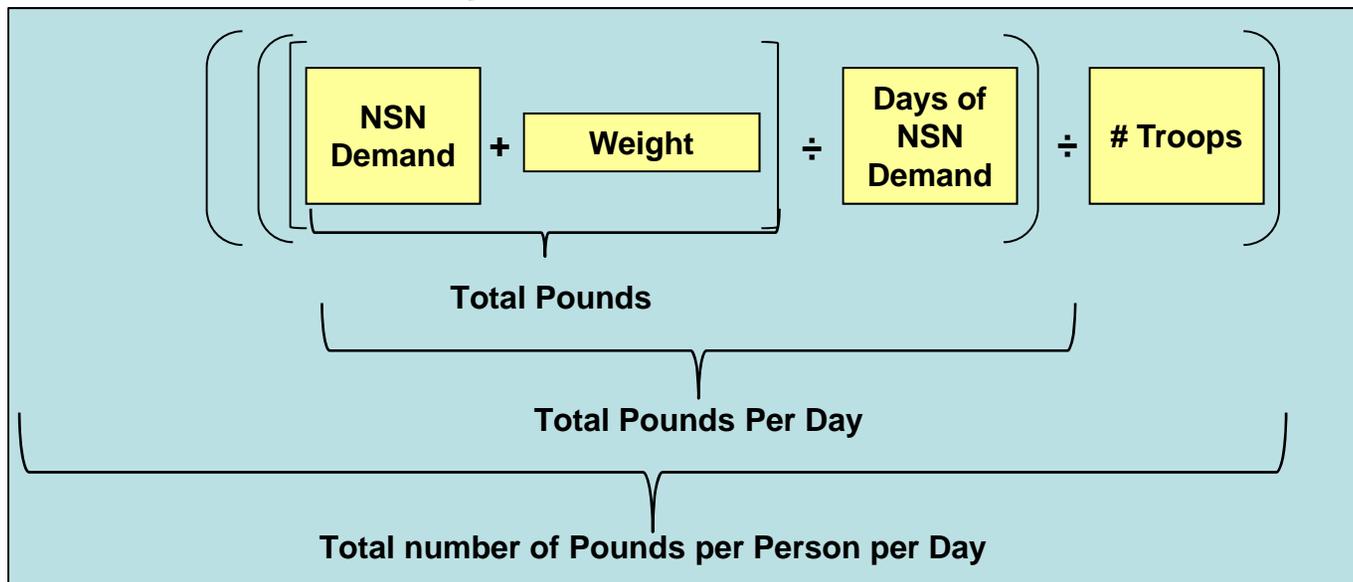
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Class II: Details



$$\text{Consumption Rate Class II} \times \text{\# Troops} = \text{PPD}$$



Data for Five of Six Joint Phases: Deter, Seize the Initiative, Dominate, Stabilize, and Enable Civil Support

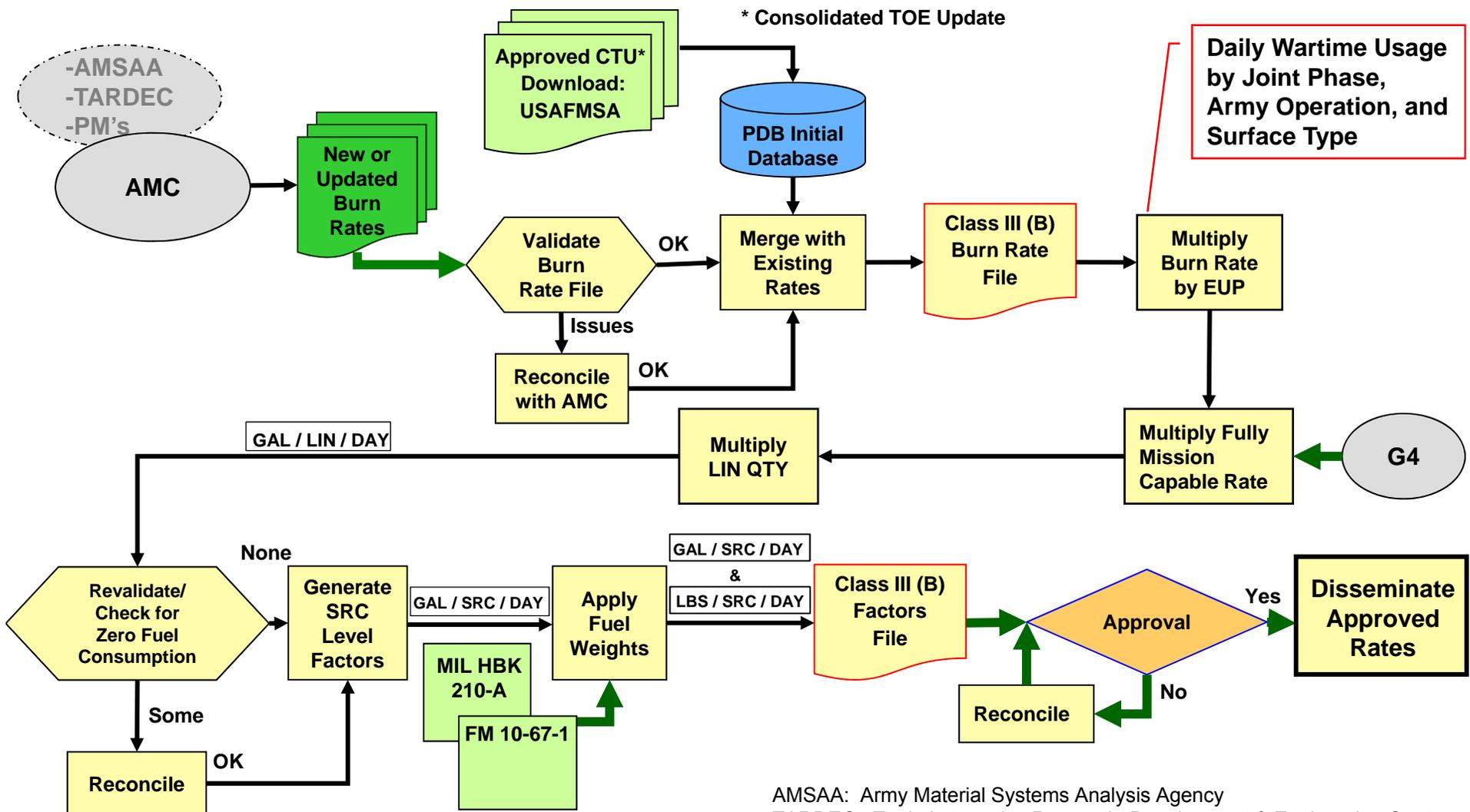
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Class III (B): Process



DATA and DOCTRINE PROPONENT: Army Materiel Command (AMC)



Daily Wartime Usage by Joint Phase, Army Operation, and Surface Type

AMSAA: Army Material Systems Analysis Agency
TARDEC: Tank-Automotive Research, Development & Engineering Center

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Class III (B): EUP Design Parameters



PC	EC	EC Description
01A	WV01	Wheeled Vehicle- Command and Control

Phase	Military Operation	Other Hours	Idle Hours	Total Movement	Primary Road	Secondary Road	Cross Country	Total HRS	Total KMS
Dominate	Defensive Ops	0	0.5	55	60	30	10	0.5	55

FMC Rate
G4

6 Joint Phases x 4 Army Military Operations

Proponent Input - TRADOC

Separate and adjustable

- Idle, Primary and Secondary Road Surfaces for Ground Vehicles
- Multiple Flight Profiles for Aviation
- FMC rates in a separate file
- Updated Joint Phases, Military Operations

REFERENCES

Joint Pub 3.0, Doctrine for Joint Operations

FM 1, THE ARMY

TRADOC Pam 525-3-0, The Army in Joint Operations

Standardizing Campaign Phases and Terminology (J-7, JEDD, 3 Jan 2005)

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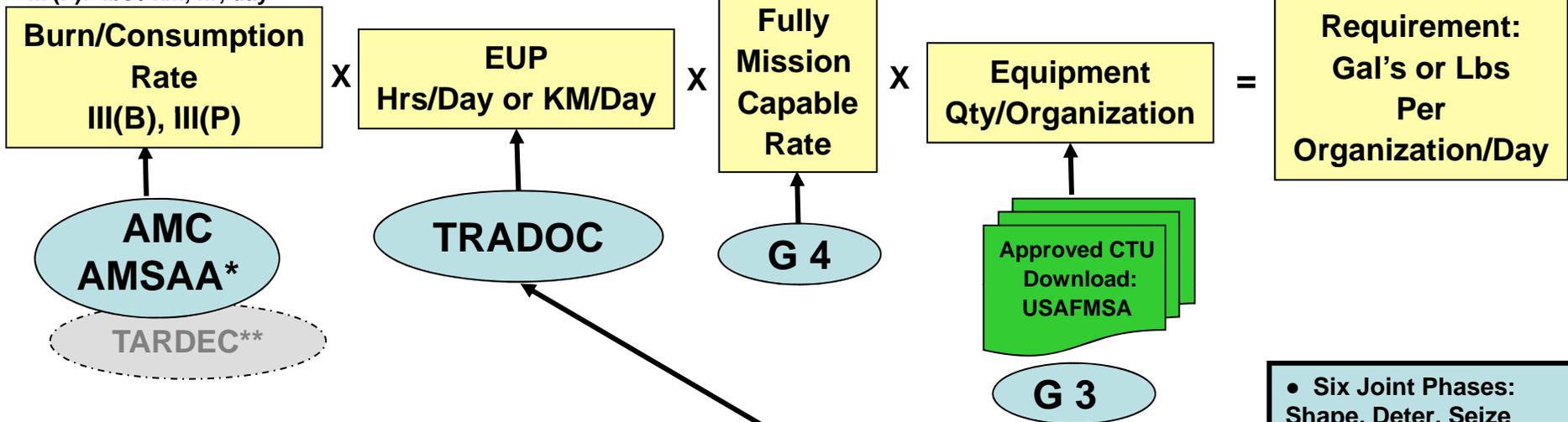
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Class III (B): EUP How Is It Used ?

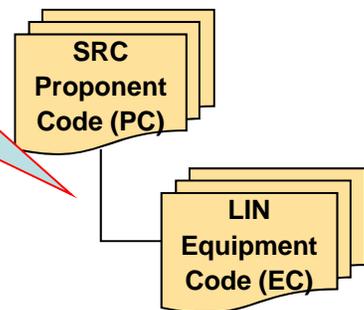


III (B): gal / km or hr
III (P): lbs / km, hr, day



PC and EC combination allows for the same equipment to have different profiles in different organizations

70,000+ Combinations in database currently



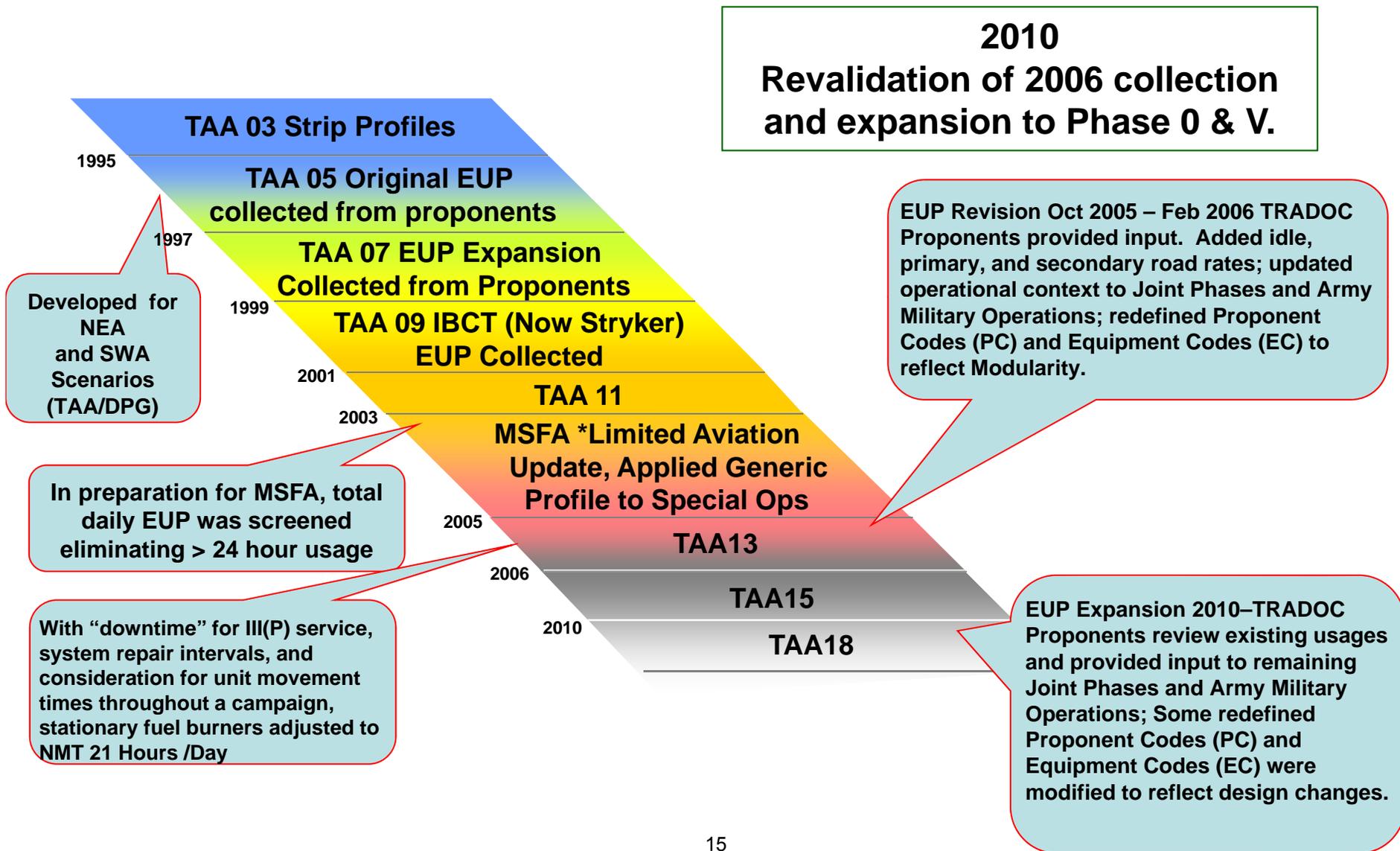
- Six Joint Phases: Shape, Deter, Seize Initiative, Dominate, Stability, Security, Transition and Reconstruction (SSTR), and Enable Civil Authority
- Four Military Operations: Offense, Defense, SSTR, Mission Staging
- Fuel has multiple rates dependant on Road Surface Profile (Primary & Secondary Road, Cross Country)

* U.S. Army Materiel Systems Analysis Agency
** U.S. Army Tank Automotive Research, Development and Engineering Center

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EUP (Equipment Usage Profile) History

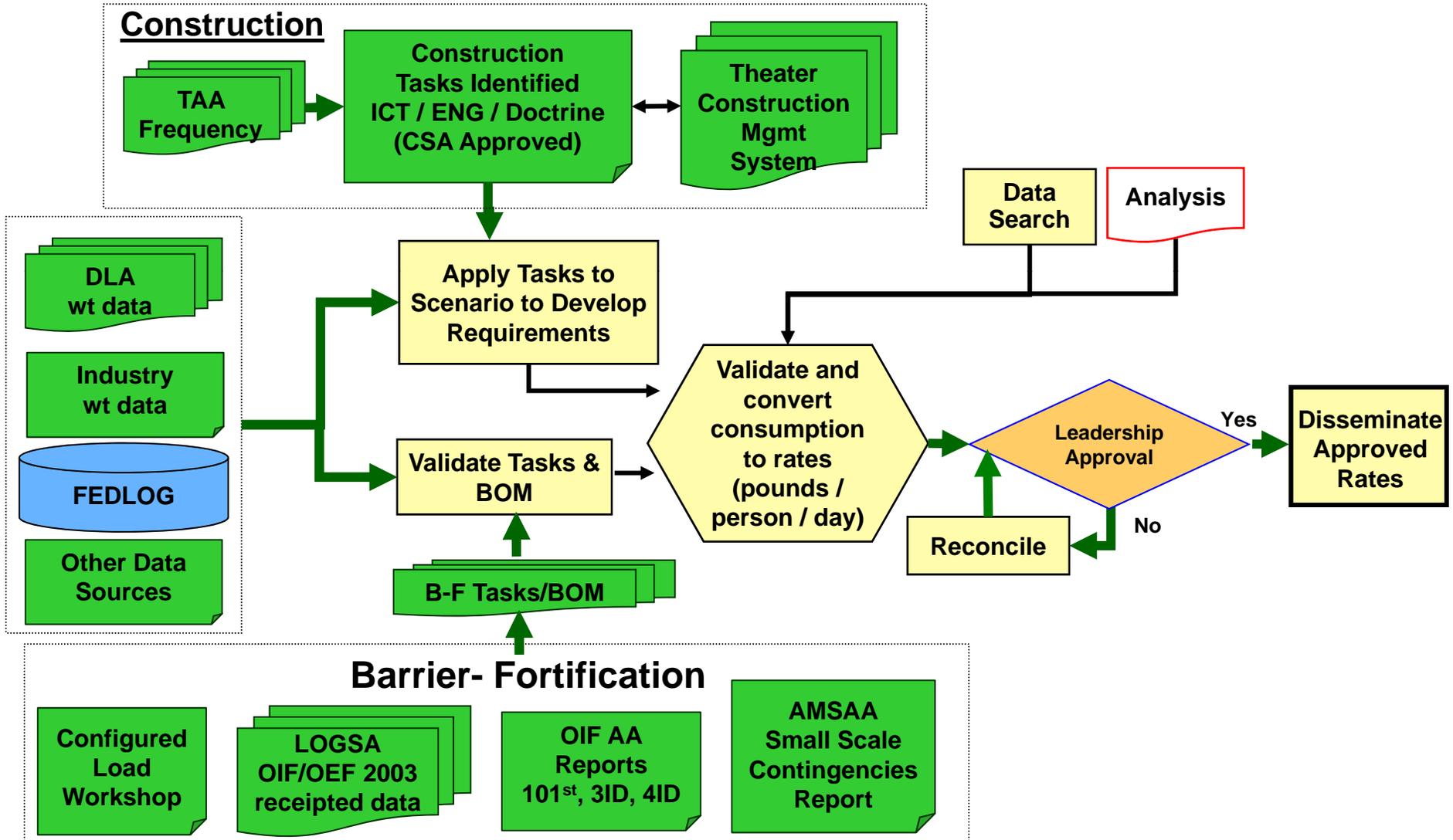




Class IV: Process



DATA and DOCTRINE PROPONENT: Maneuver Support Center of Excellence



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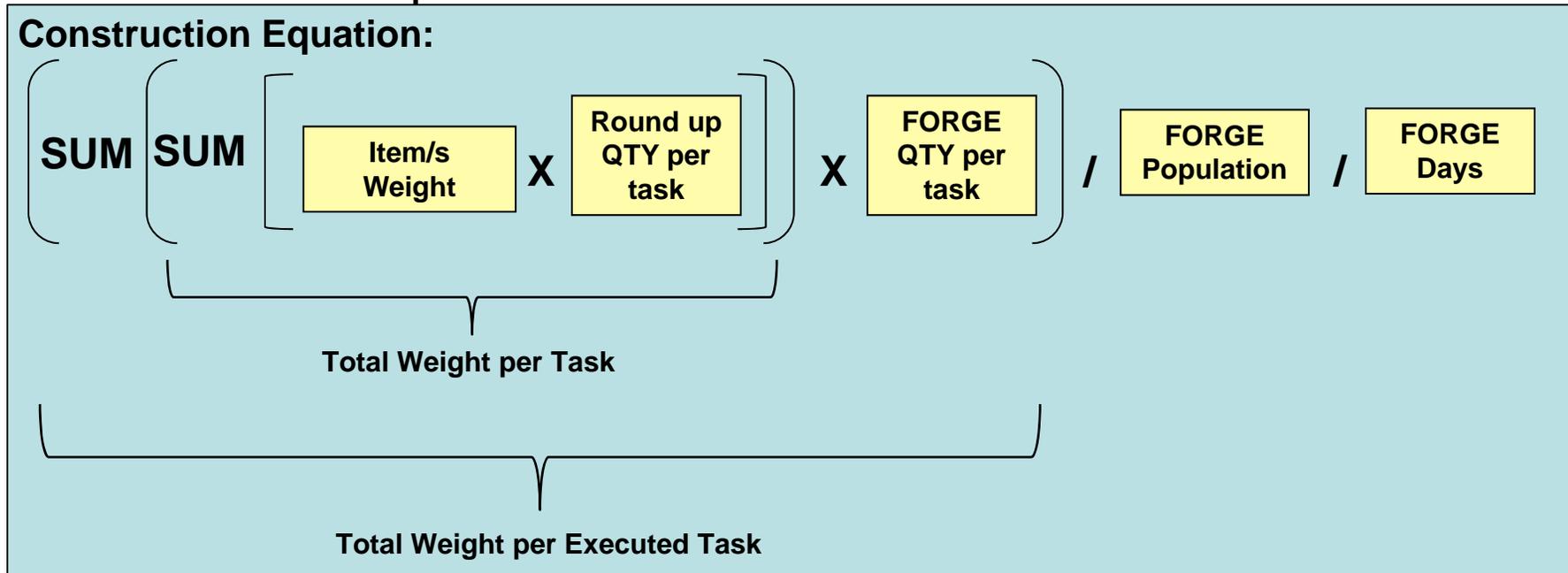
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Class IV: Details



$$\text{Consumption Rate Class IV} \times \text{\# Troops} = \text{PPD}$$



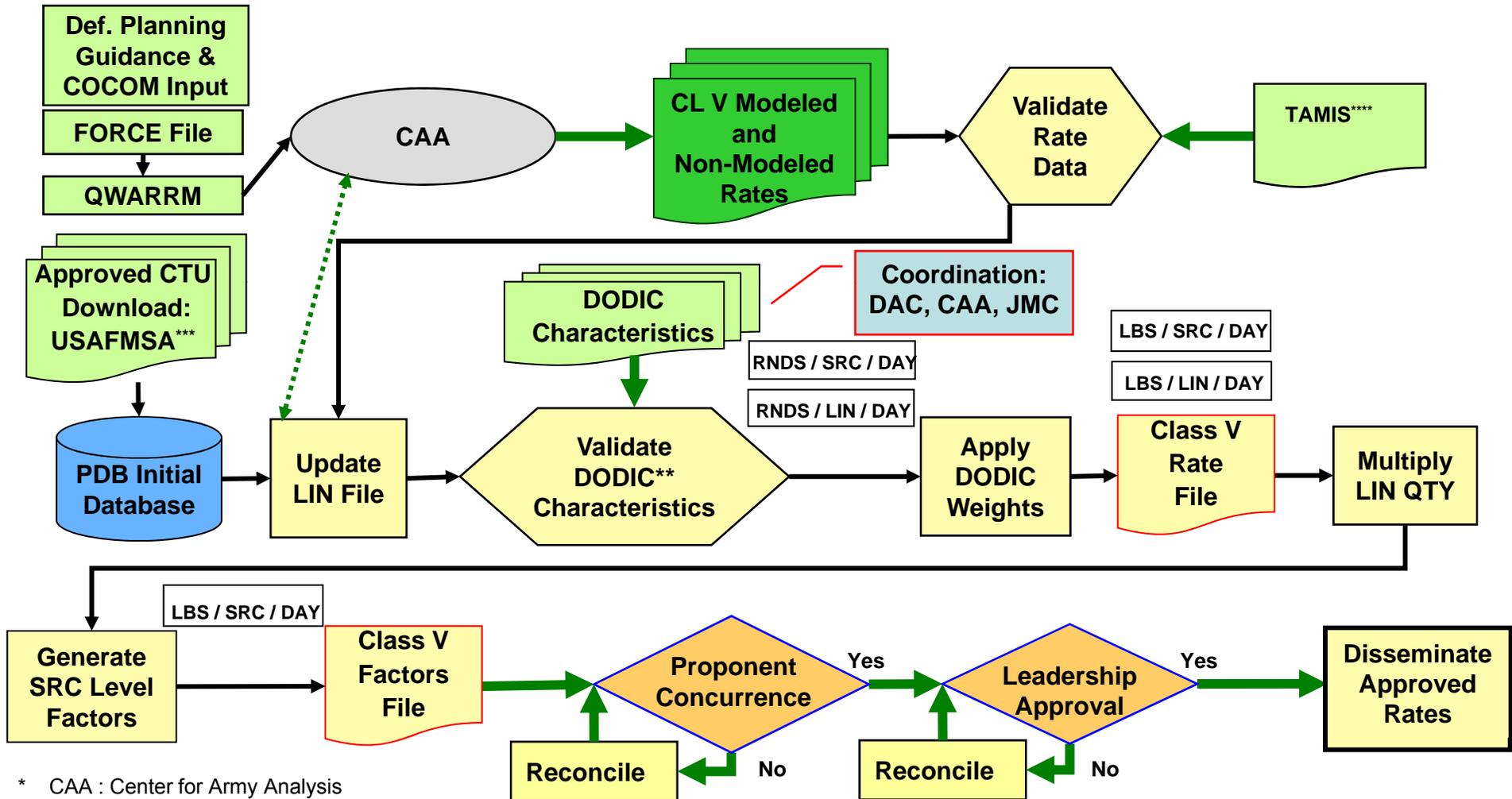
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Class V: Process



DATA and DOCTRINE PROPONENT: HQDA, CAA* Field Operating Agent (FOA) of G8; U.S. Army Sustainment Center of Excellence (SCoE)

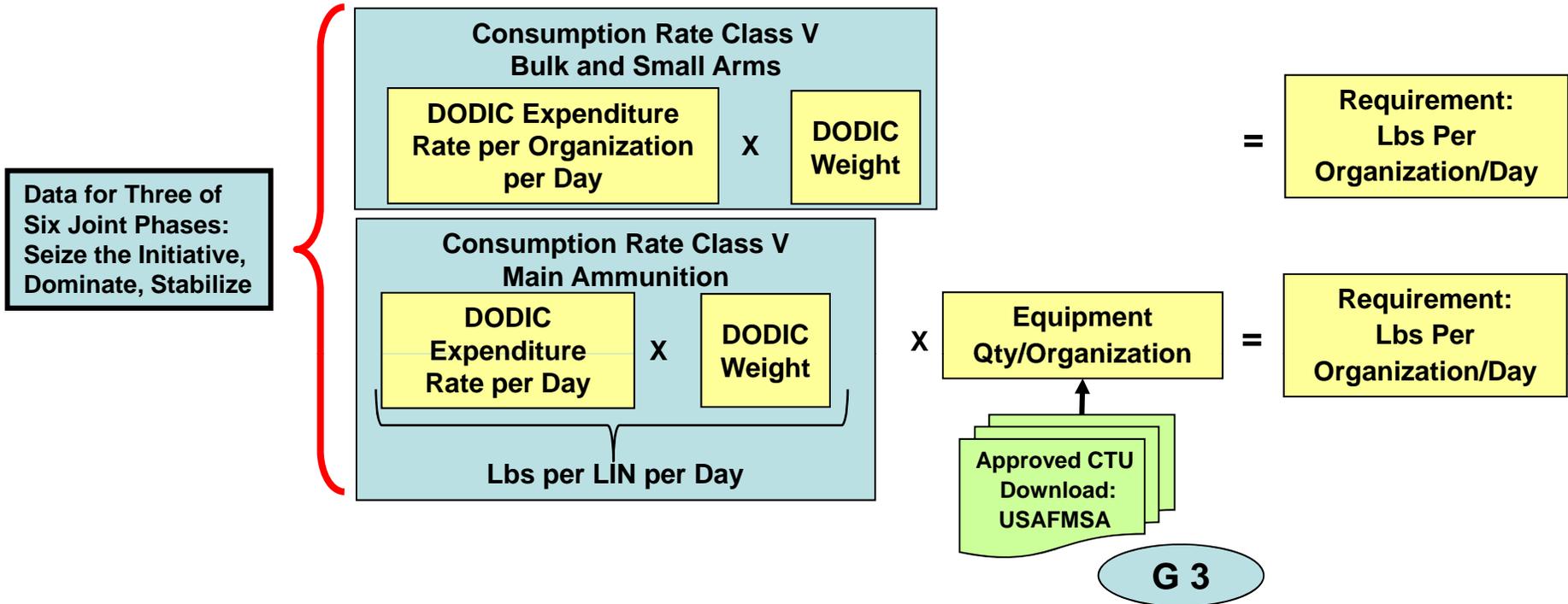


* CAA : Center for Army Analysis
 ** DODIC: DoD Identification Code
 *** USAFMSA: USA Force Management Support Agency
 ****TAMIS: Total Ammunition Management Information System

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Class V: Details



Validation Techniques

- Check for new DODICs
- Duplication in expenditure data
- Rate comparison to previous year's
 - Individual DODICs
 - LIN comparison between year's
 - Break down the weights by DODIC by Bulk, Main, and Small Arms
 - DODIC use per LIN between year's

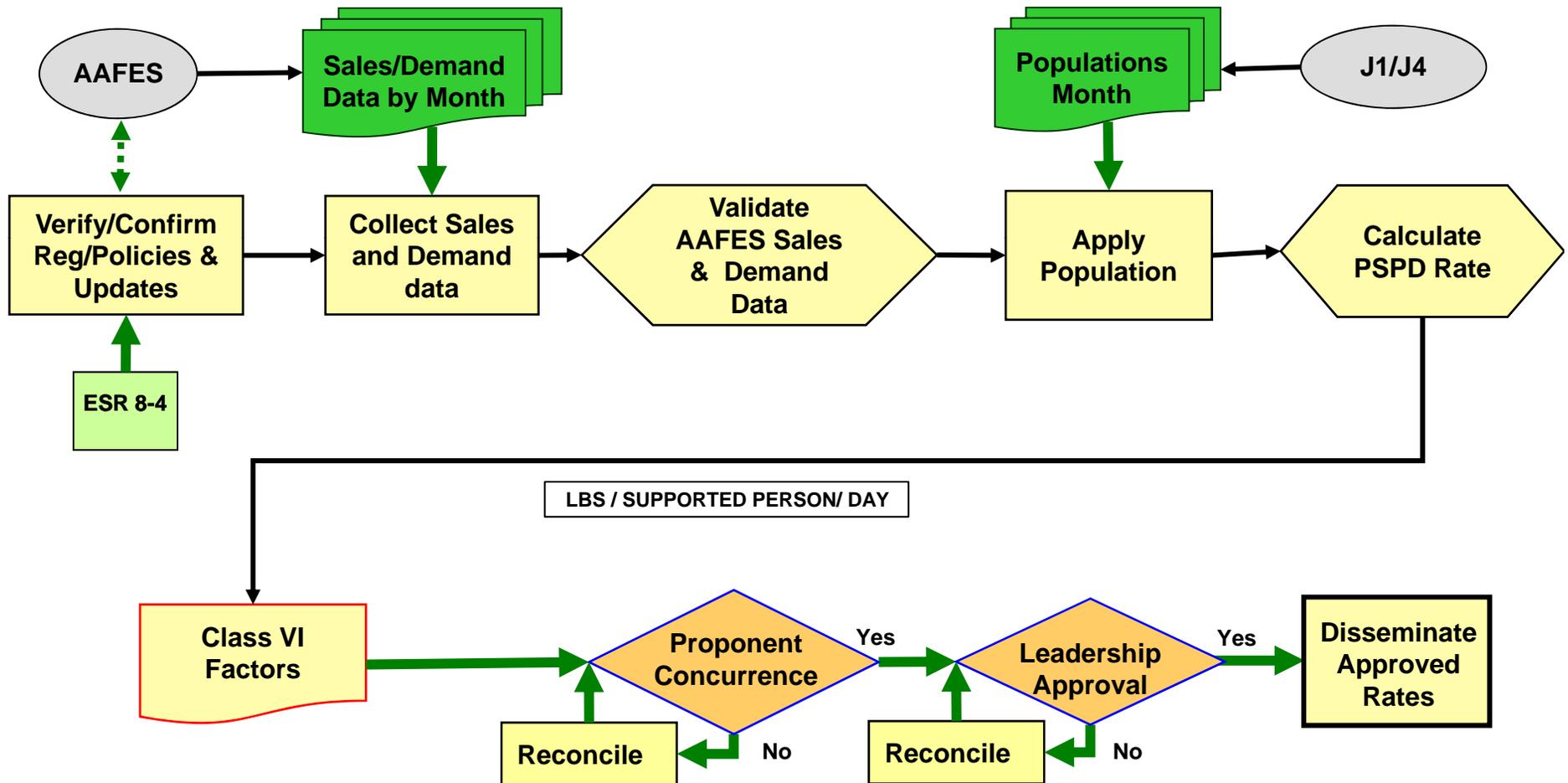
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Class VI: Process



DATA PROPONENT: Army Air Force Exchange Services (AAFES); DOCTRINE PROPONENT: QMC&S



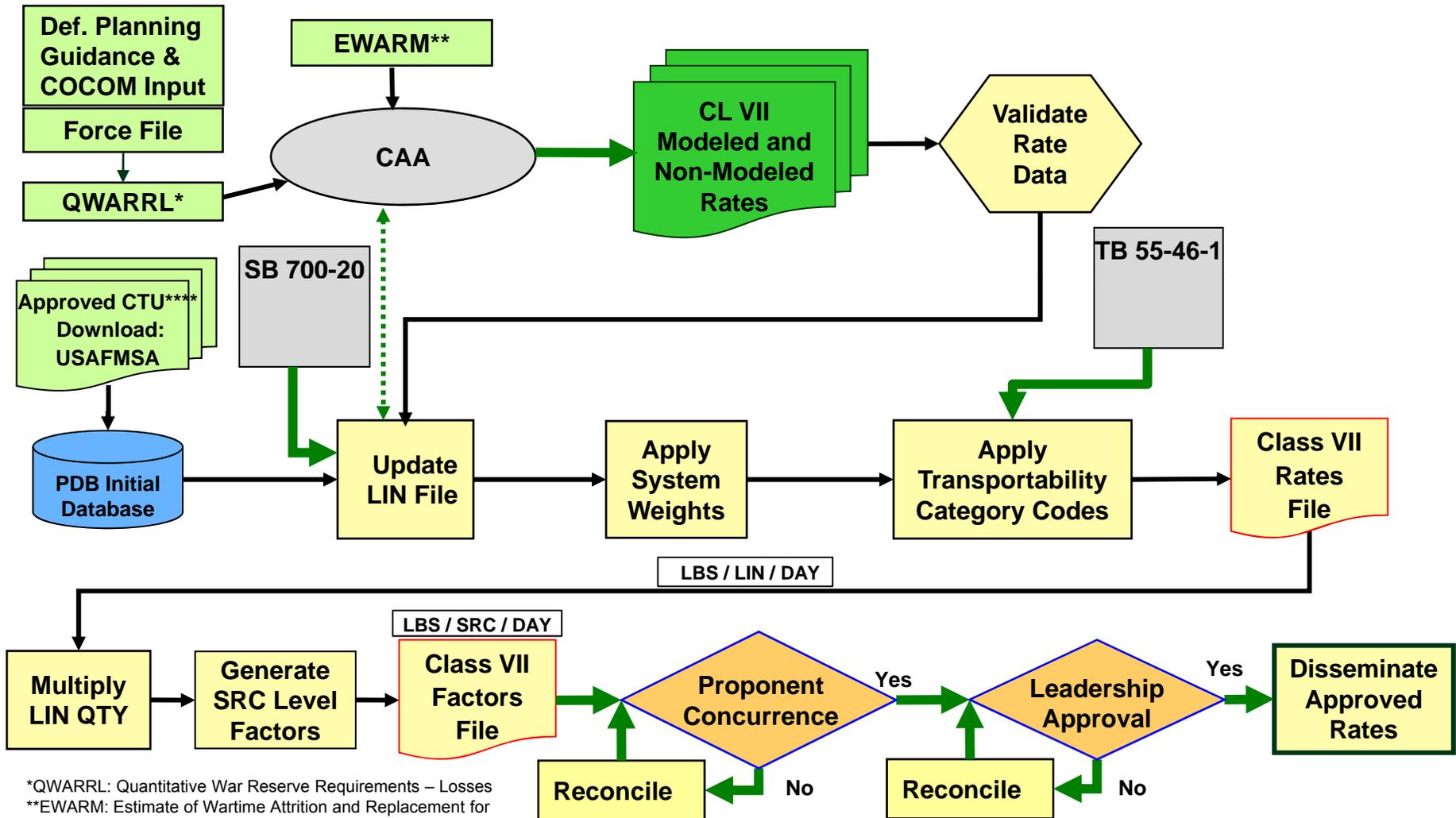
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Class VII: Process



DATA and DOCTRINE PROPONENT: HQDA, CAA*** – Field Operating Agent of G8; U.S. Army Sustainment Center of Excellence (SCoE)

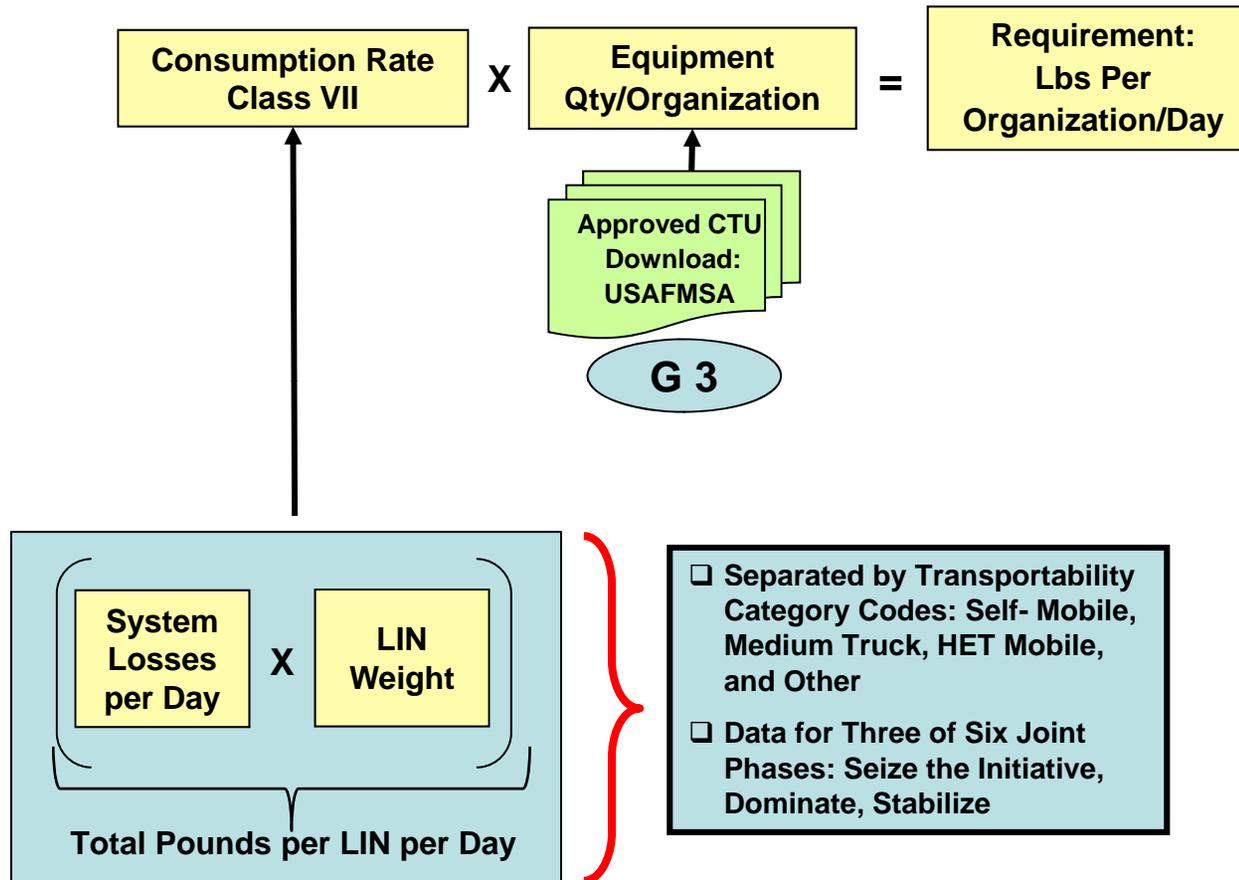


*QWARRL: Quantitative War Reserve Requirements – Losses
 **EWARM: Estimate of Wartime Attrition and Replacement for Materiel
 *** CAA : Center for Army Analysis
 ****Consolidated TOE Update

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Class VII: Details



Validations:

- ❑ Ensure all LINs have the correct Transportability Codes and Characteristics
- ❑ Check for missing LIN Rates

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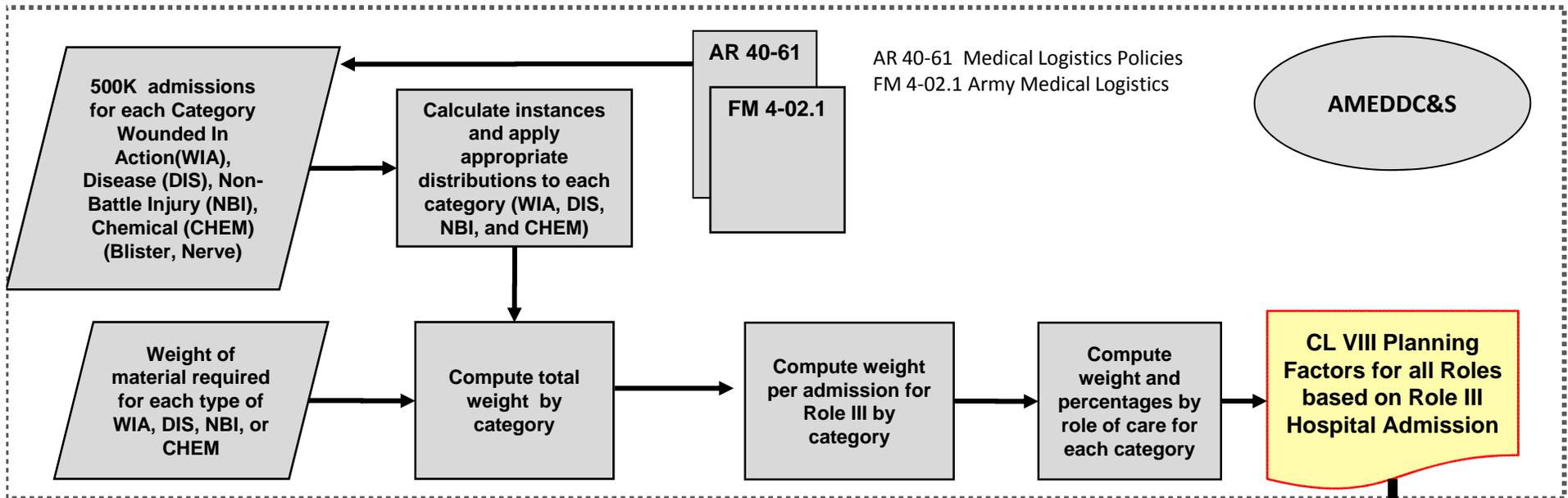
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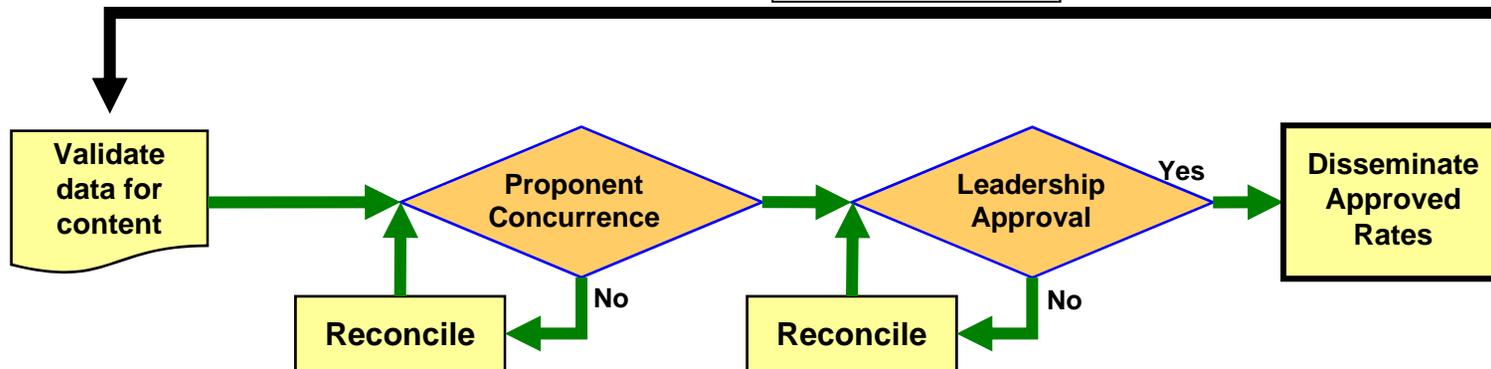
Class VIII: Medical



DATA and DOCTRINE PROPONENT: US Army Medical Department Center & School (AMEDDC&S)



LBS / Admission



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Class VIII: Details



- *Echelon IA = CLS/Medic
- *Echelon IB = BAS
- *Echelon II = MED CO
- *Echelon IIF = FST
- *Echelon III = CSH
- *Echelon IV = EAC CSH

*For this analysis
Echelon = Level or
Role

MTW	Echelon	WIA Wgt	Total WIA
NEA	IA	613,986	289,440
NEA	IB	3,666,299	288,320
NEA	II	2,460,965	170,564
NEA	IIF	7,027,886	113,353
NEA	III	76,878,946	240,063
NEA	IV	24,151,618	233,548
NEA	V	-	213,167
SWA	IA	613,996	289,440
SWA	IB	3,666,802	288,245
SWA	II	2,464,178	170,617
SWA	IIF	7,019,950	113,225
SWA	III	76,519,896	240,309
SWA	IV	24,118,672	233,919
SWA	V	-	213,438
	Total	229,203,194	480,372

↑
Sum Entire
Column

← Sum Only WIA at Echelon III

WIA PF = (229,203,194 lbs)/(480,372 Echelon III admissions) = 477 lbs/admission

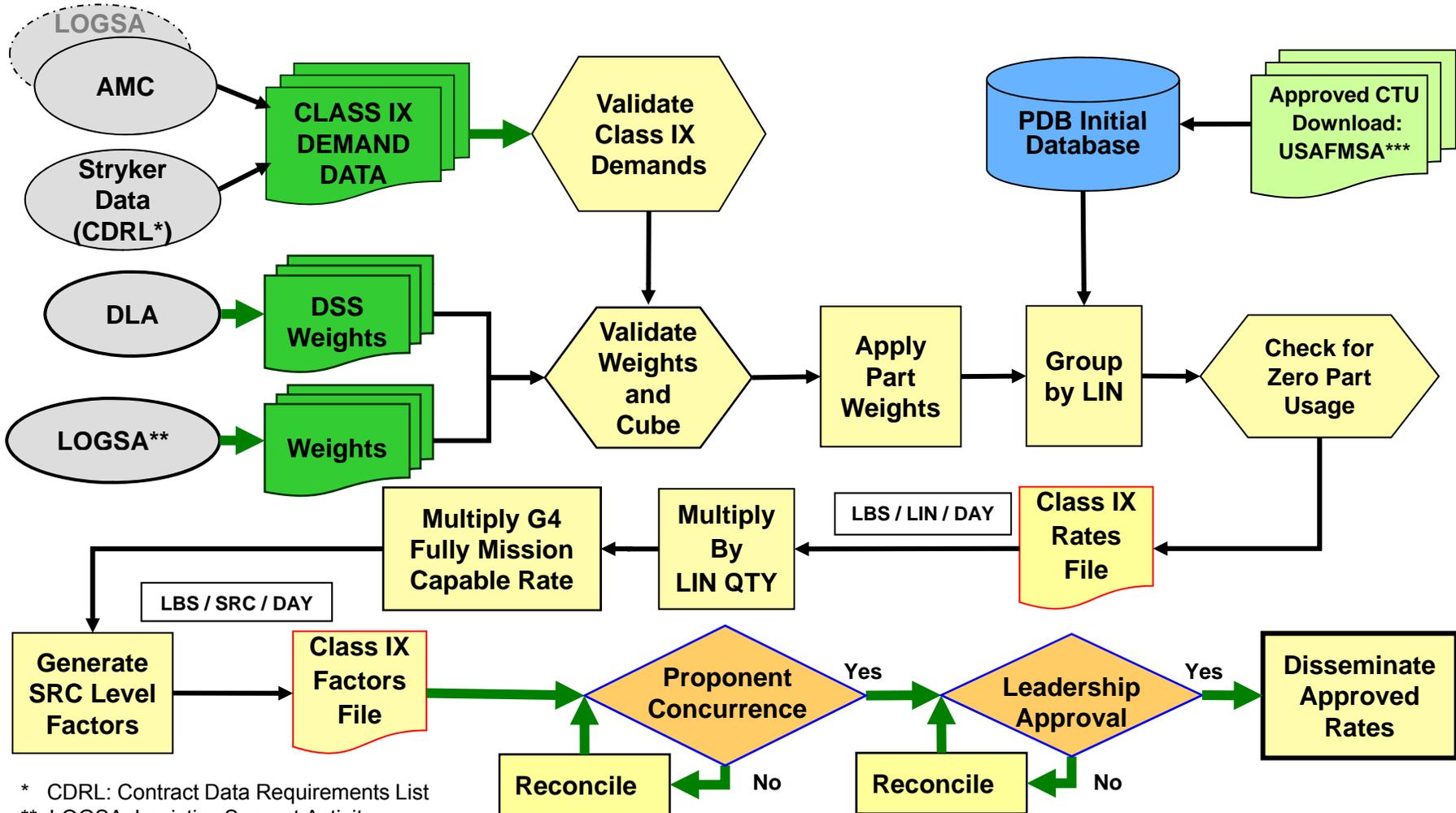
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Class IX: Process



DATA and DOCTRINE PROPONENT: Army Materiel Command (AMC); U.S. Army Sustainment Center of Excellence (SCoE)

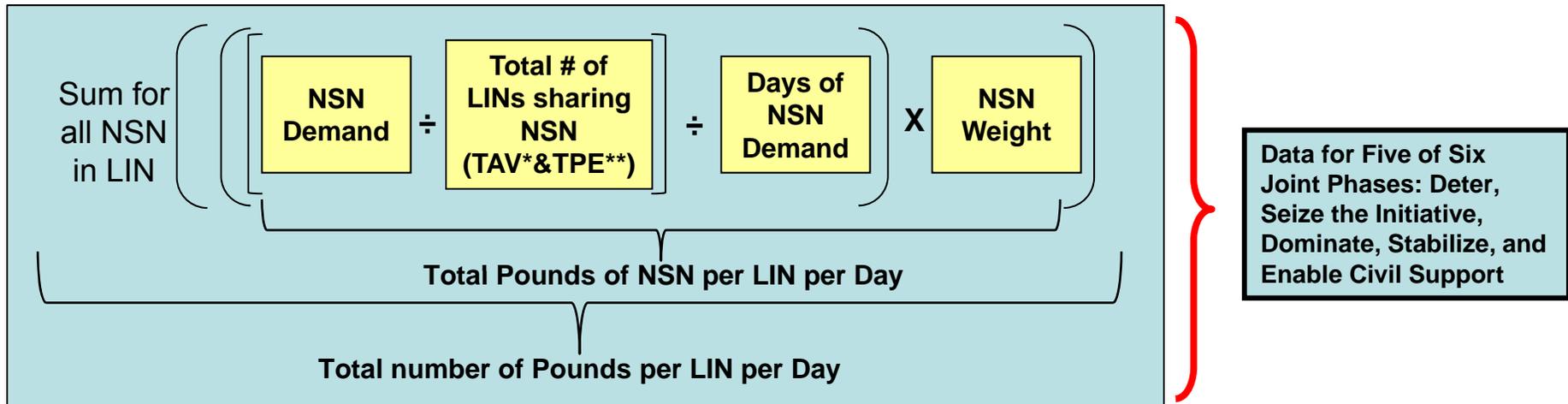
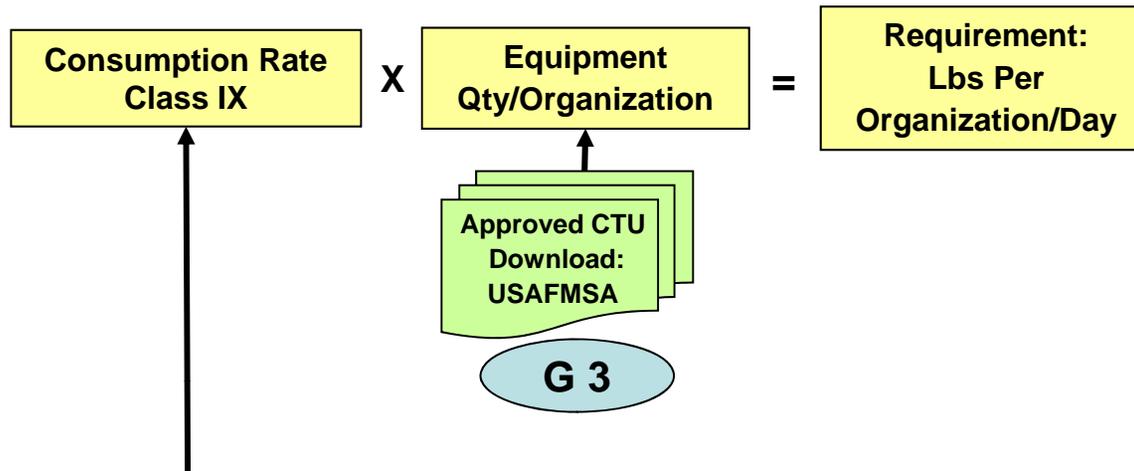


* CDRL: Contract Data Requirements List
** LOGSA: Logistics Support Activity
*** USAFMSA: USA Force Management Support Agency

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Class IX: Details



* TAV: Total Asset Visibility
 ** TPE: Theater Provided Equipment

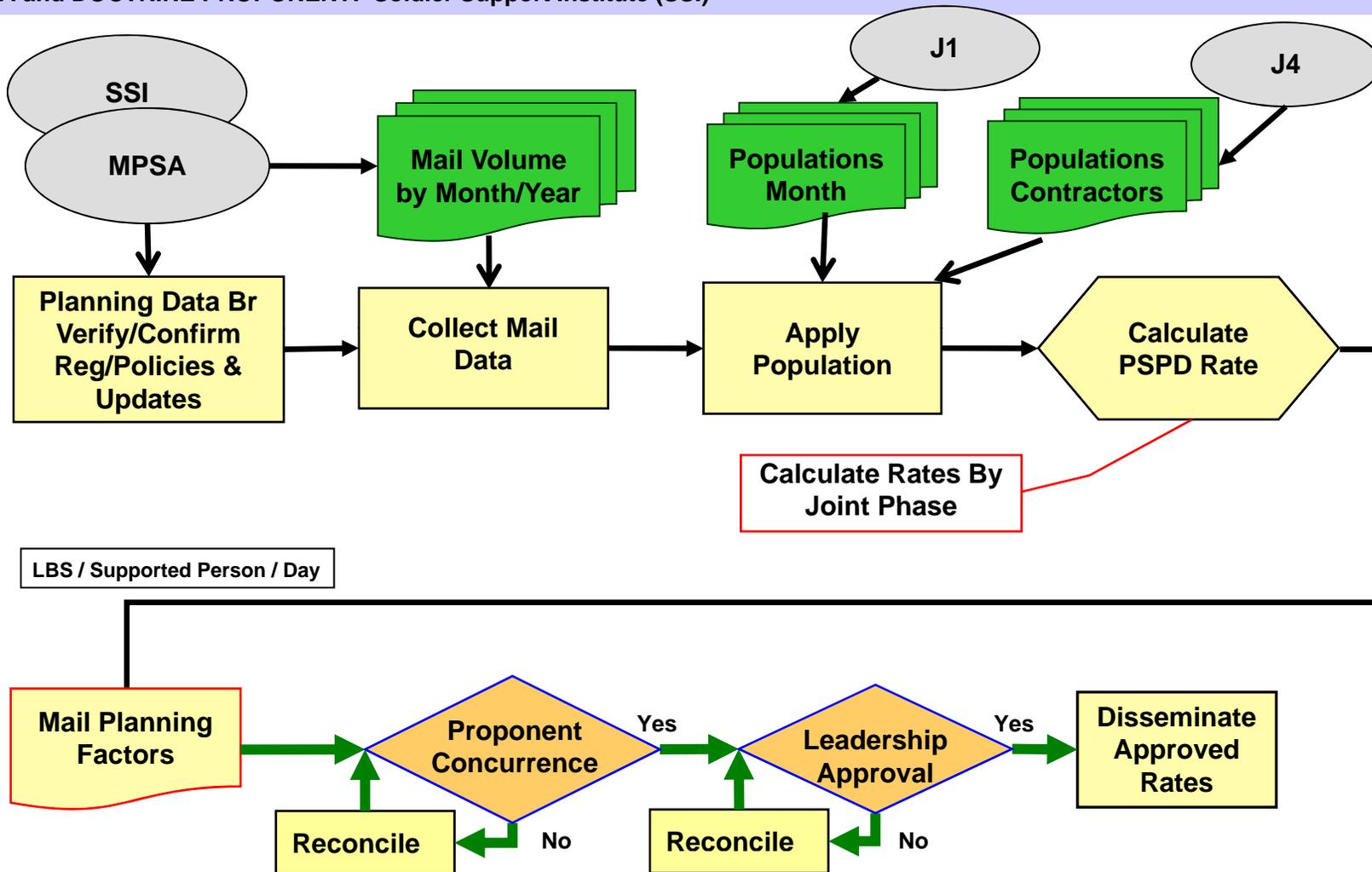
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Mail



DATA and DOCTRINE PROPONENT: Soldier Support Institute (SSI)



* Military Postal Service Agency (MPSA)

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Water & Ice: Process



DATA and DOCTRINE PROPONENT: Quartermaster Center & School (QMCS)

