



AMERICA'S ARMY:
THE STRENGTH OF THE NATION

UNCLASS

U.S. Army Munitions HQ DA G-3/5/7



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- **DA G-3/5/7 Munitions Mission**
- **Army Munitions Strategy**
- **Capability Requirements Process**
- **Munitions Requirement Process (MRP)**
- **Requirement Challenges to the Munitions Enterprise**
- **The Way Forward**



UNCLASS



- **Serve as Army Staff focal point for integrating all munitions issues**
- **Where do we focus?**
 - ✓ **Determine ALL munitions requirements**
 - ✓ **Support the warfight**
 - ✓ **“Operationalize” munitions issues and recommend priorities**
 - ✓ **Coordinate munitions resourcing strategy**
 - ✓ **Synchronize munitions policy**
 - ✓ **Oversee Army weapon systems training programs**
 - ✓ **Monitor munitions and industrial base readiness**





Validation, Prioritization, Resourcing, Policy

G-3/5/7

- TRA: **Develop RQMTs**
- FM: **Force structure**
- CIC: **Capability RQMTs**
- CIR: **Develop priorities**
- SSW: **War plans**
- OD: **Current operations**

G-4

Sustainment
• Munitions Div

G-8

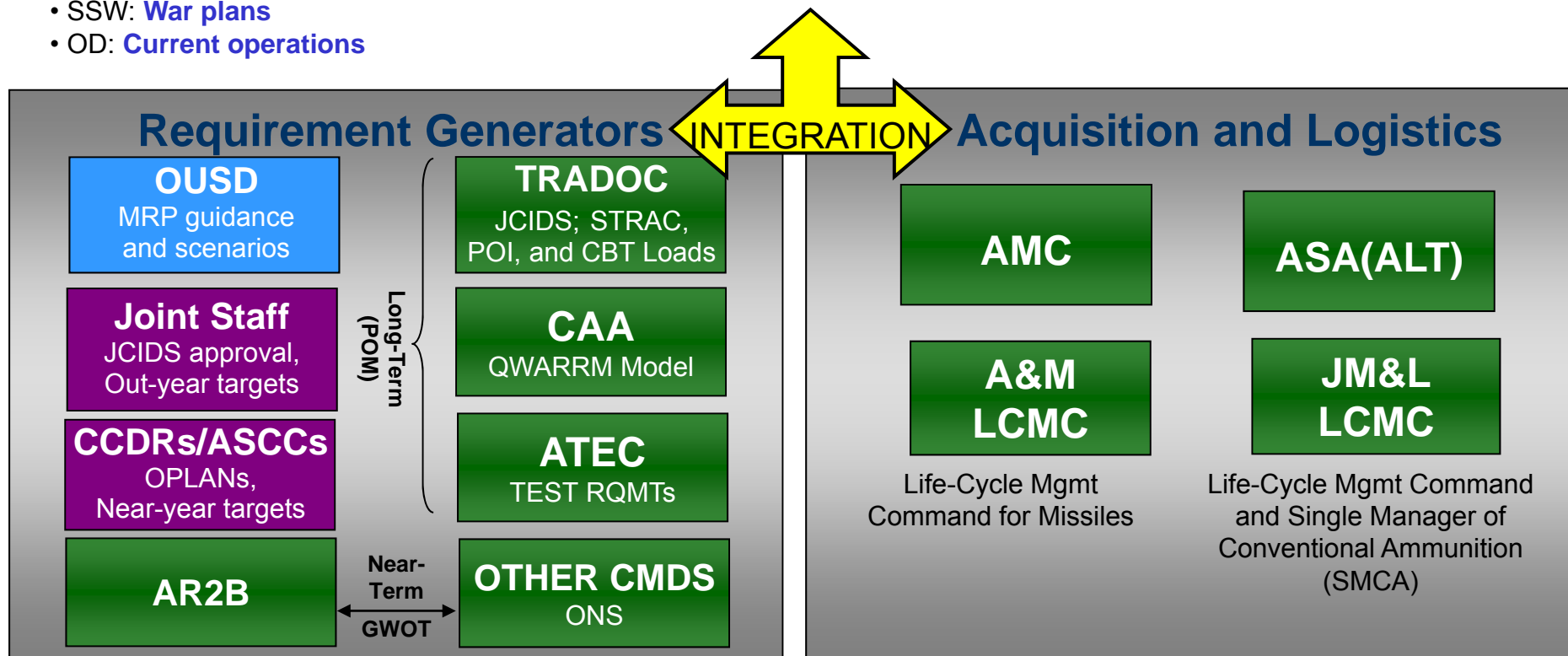
Programming
• Conv'l Ammunition (FDX)
• Missiles & PGMs (FDD, FDE, FDS, FDV, FDF)

ABO

Budgeting
• Munitions Div

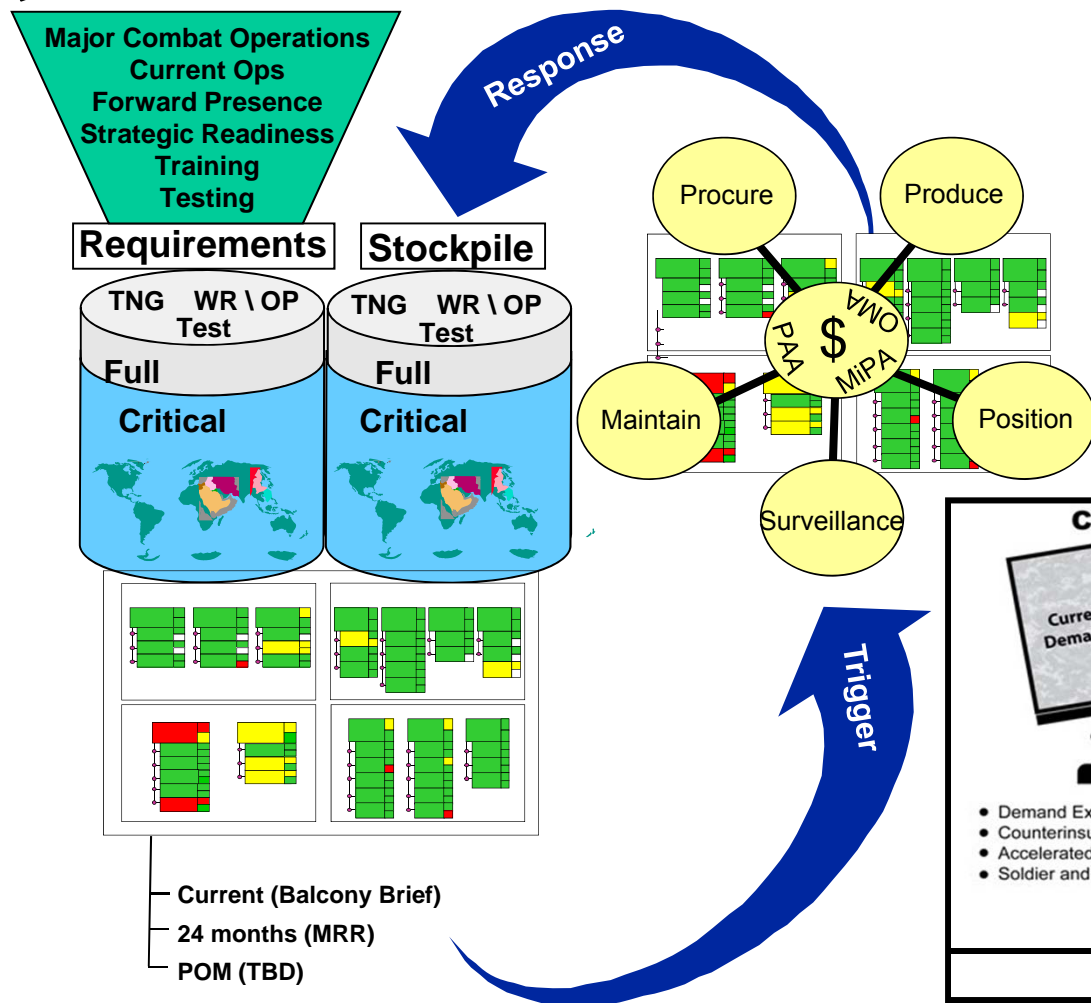
ASA(ALT)

Acquisition & Program Management
• Missile Systems & Ammunition Directorate





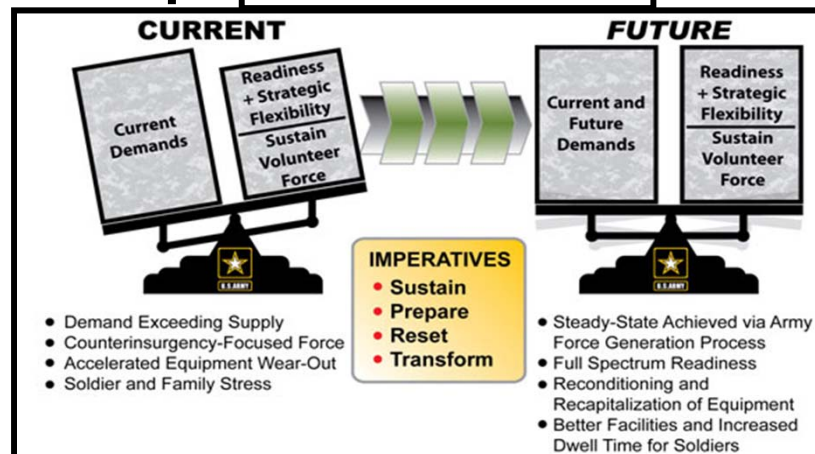
Drivers Reservoirs Triggers



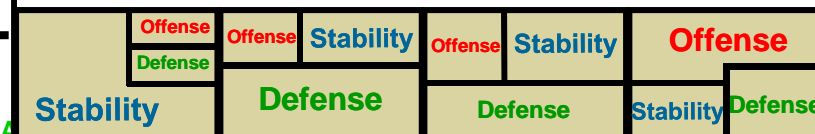
Objective

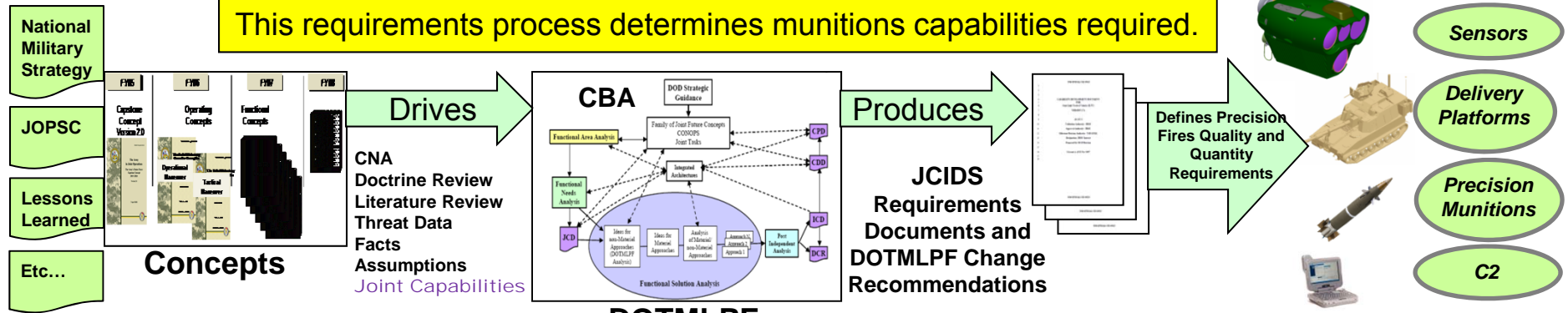
- Generate steady-state capability maintaining readiness and flexibility to surge.
- Support Joint and Army capability and readiness based requirements and priorities across the full spectrum of operations.
- Get operational issues in operational channels.

Restoring Balance



FULL SPECTRUM OPERATIONS



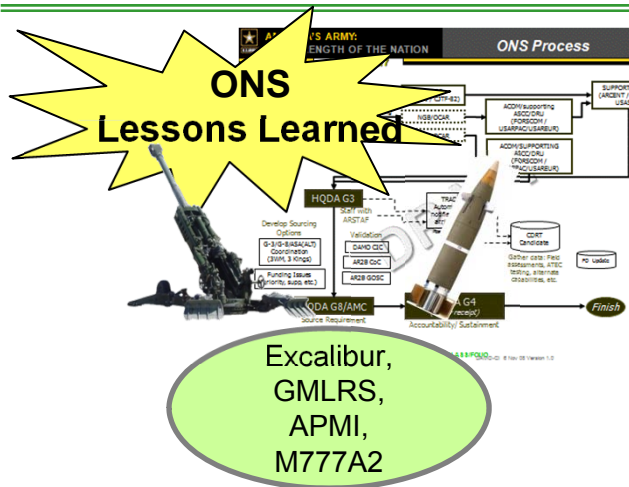


ARCIC:

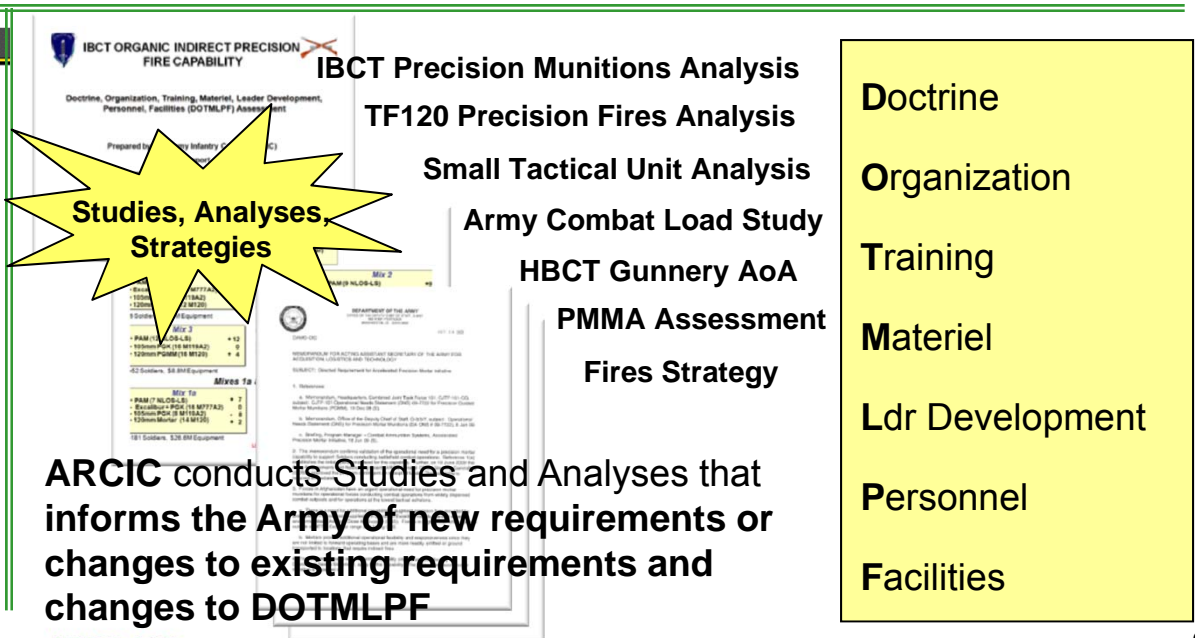
- Identifies requirements along with Proponents
- Identifies Materiel as well as DOTMLPF Solutions
- Identifies Other DOTMLPF Considerations
- Identifies changes over time to Materiel and DOTMLPF Requirements

- ✓ Key Performance Parameters
- ✓ Key System Attributes
- ✓ Informs Basis of Issue

Review



ARCIC reviews ONS as potential long term solutions (CDRT)

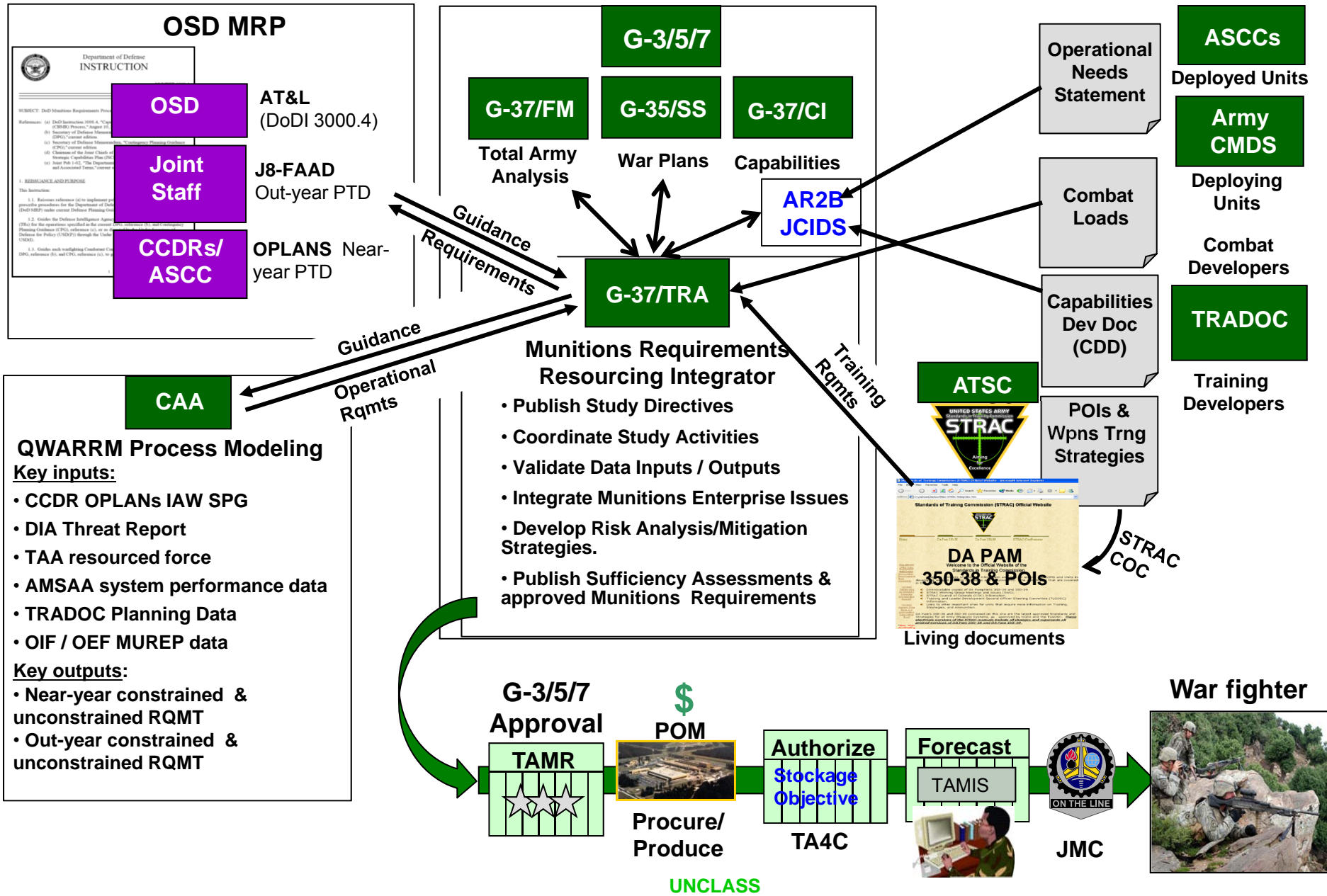


ARCIC conducts Studies and Analyses that informs the Army of new requirements or changes to existing requirements and changes to DOTMLPF



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Munitions Requirements Process (MRP) "The How Many Do We Need?"





Challenge: Generating the right mix of munitions (conventional, near-precision, and precision) by weapon system to provide the commander at every echelon the maximum flexibility and capabilities on the current and future battlefield.

Conventional (\$ Low)
155mm HE

PGK (\$ Medium)
155mm HE w/kit

PGM (\$ High)
Excalibur

Non-Precision

Near-Precision

Precision

260m CEP (max range)

<50m CEP

10m CEP

Match round to task

- Area coverage required
- Precision not required
- TLE* not restricted
- CD** not an issue
- Ammunition resupply is not an issue

- Efficient area fires required
- Near precision creates efficiency
- TLE between 30m and 120m
- CD is a consideration
- Reduced resupply burden

- Point target attack
- Precision required (<10m CEP)
- TLE ≤ 25m
- Minimize CD
- Lowest resupply burden

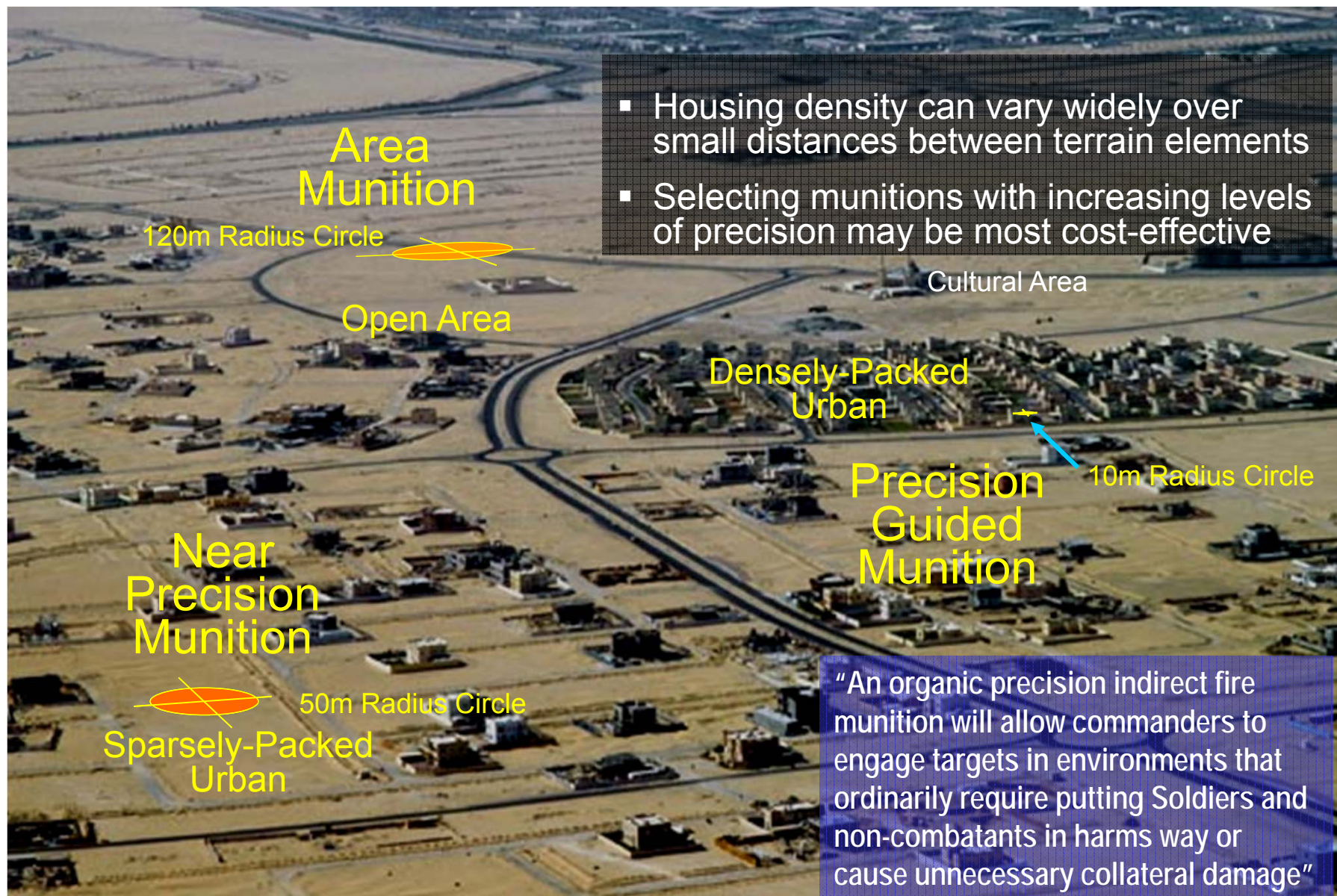
Type Warhead?

Scalable precision provides more effective and efficient fires

* Target Location Error (TLE)
** Collateral Damage (CD)



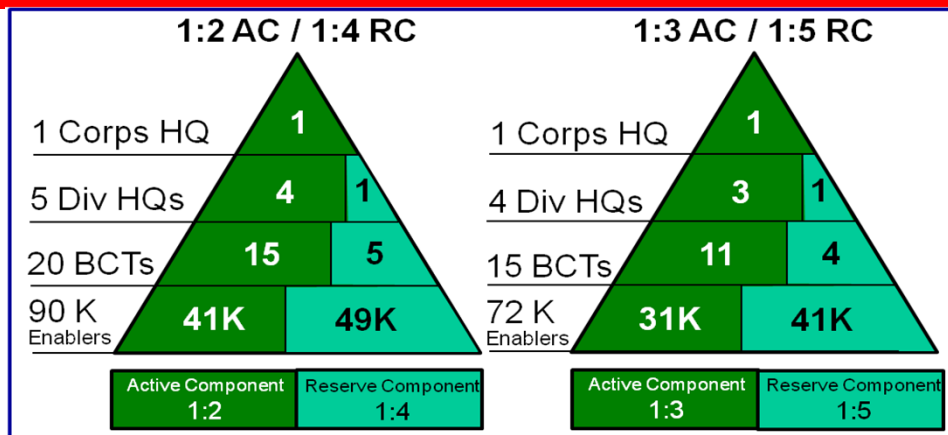
Challenge – The Right Mix of Capabilities



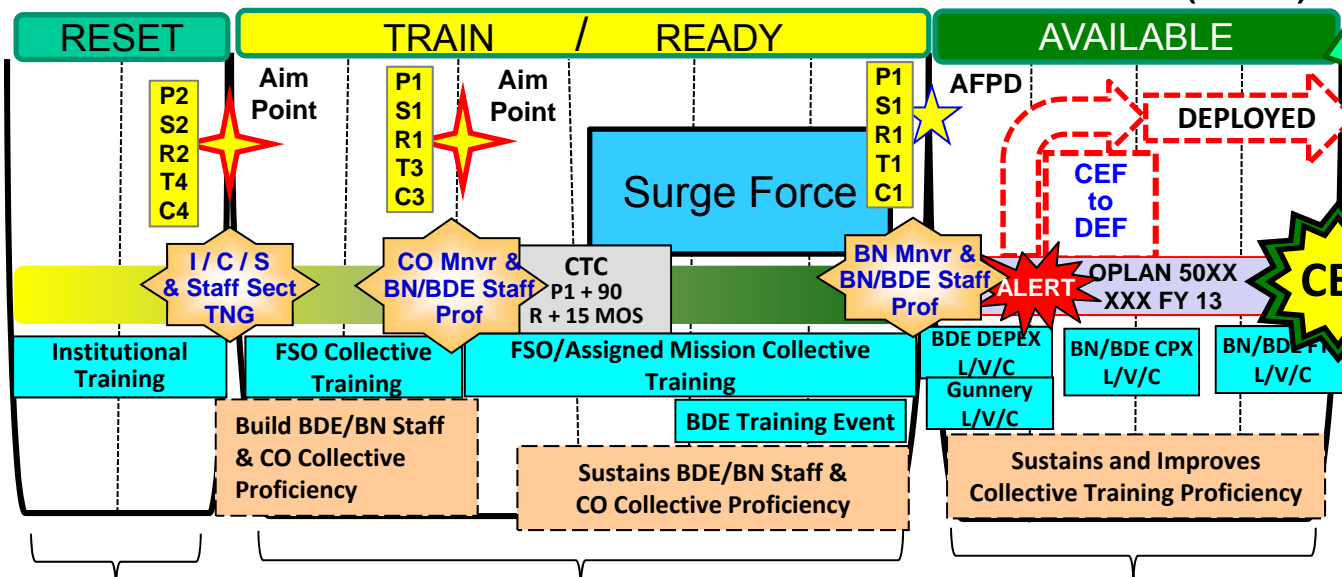
- Housing density can vary widely over small distances between terrain elements
- Selecting munitions with increasing levels of precision may be most cost-effective



Challenge: Generating the right mix of munitions and weapon system training strategies to support a versatile mix of tailorable and networked formations operating on a rotational model



AC 6 months 18 months 12 months (1:2 AC)
RC 12 months 36 months 12 months (1:4 RC)



Mission Force

Mission Force: The composition of forces in the Available Force Pool consisting of all Deployed Expeditionary Forces (DEFs) and Contingency Expeditionary Forces (DEF)

Legend:
I / C / S: Individual / Crew / Squad
R: Day of Return from Available Pool
CTC: Combat Training Center
L / V / C: Live / Virtual / Constructive

1/6 of Operating Force

1/2 of Operating Force including a Surge Force of: 1 Corps Hq, 3 Div Hq, 10 BCTs & 41K of Enablers

1/3 of Operating Force: 1 Corps Hq, 5 Div Hq, 20 BCTs & 90K Enablers

UNCLASS



➤ **Sustain the Warfight**

- Integrating Emerging Munitions (EPRs/APMI/XM25/etc)
- Aggressive Management of Operational Need Statements

➤ **Manage Army Munitions Requirements and Prioritization**

- Precision to Conventional Munitions – Right Mix?
- Advancement from Anti-Armor to Multipurpose warheads – Right Mix?
- Improved Integration of Operational Capabilities - CPR
- ARFORGEN Impact to Training Strategies - Resolution of Events Menu Matrices (EMM) and STRAC
- Operational Need Statement – Transition of Enduring Capabilities
- Cluster Munitions Replacements – In time for 2018?
- Improve Forecasting of Test Requirements involving Army Munitions

➤ **FY14-18 POM / TAMR**

- Developed IAW Department of Defense Instruction 3000.4, Munitions Requirement Process (MRP)
- OSD AT&L Implementation Guidance dictates Defense Planning Scenarios for use in MRP
- QWARRM model is our war reserve munitions requirements development process - ensure fully updated
- Training Ammunition requirements developed IAW STRAC and TRADOC POI's
- Improved Incorporation of Test Requirements