



# MILCON Transformation in Support of Army Transformation

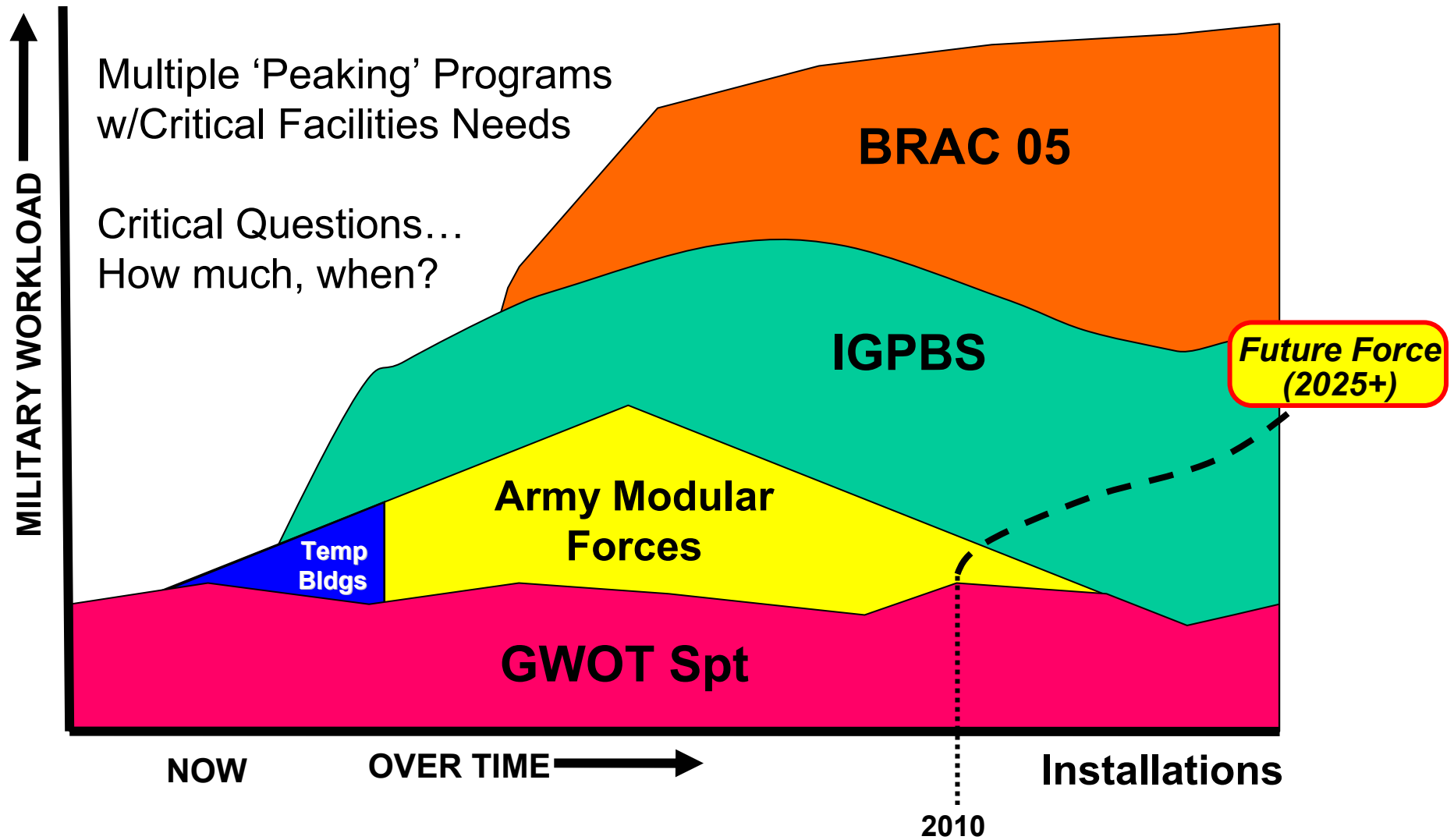
*An encore presentation*

**Mr. Claude Matsui**  
Program Coordinator for Readiness  
& Modernization Support /  
Combat Readiness Support Team Leader  
DoD Integration Team, HQUSACE



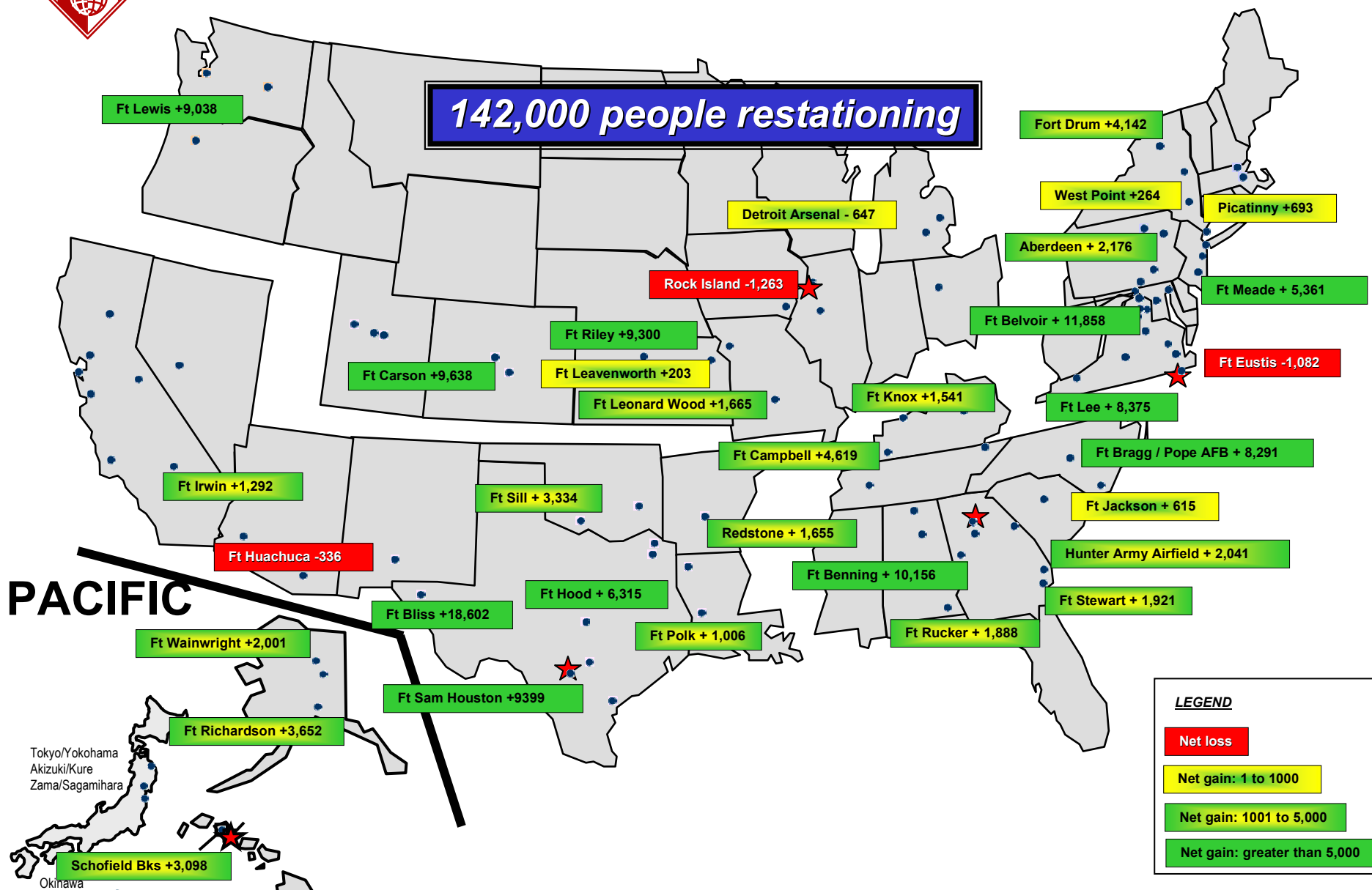


# Army Transformation & MILCON Program



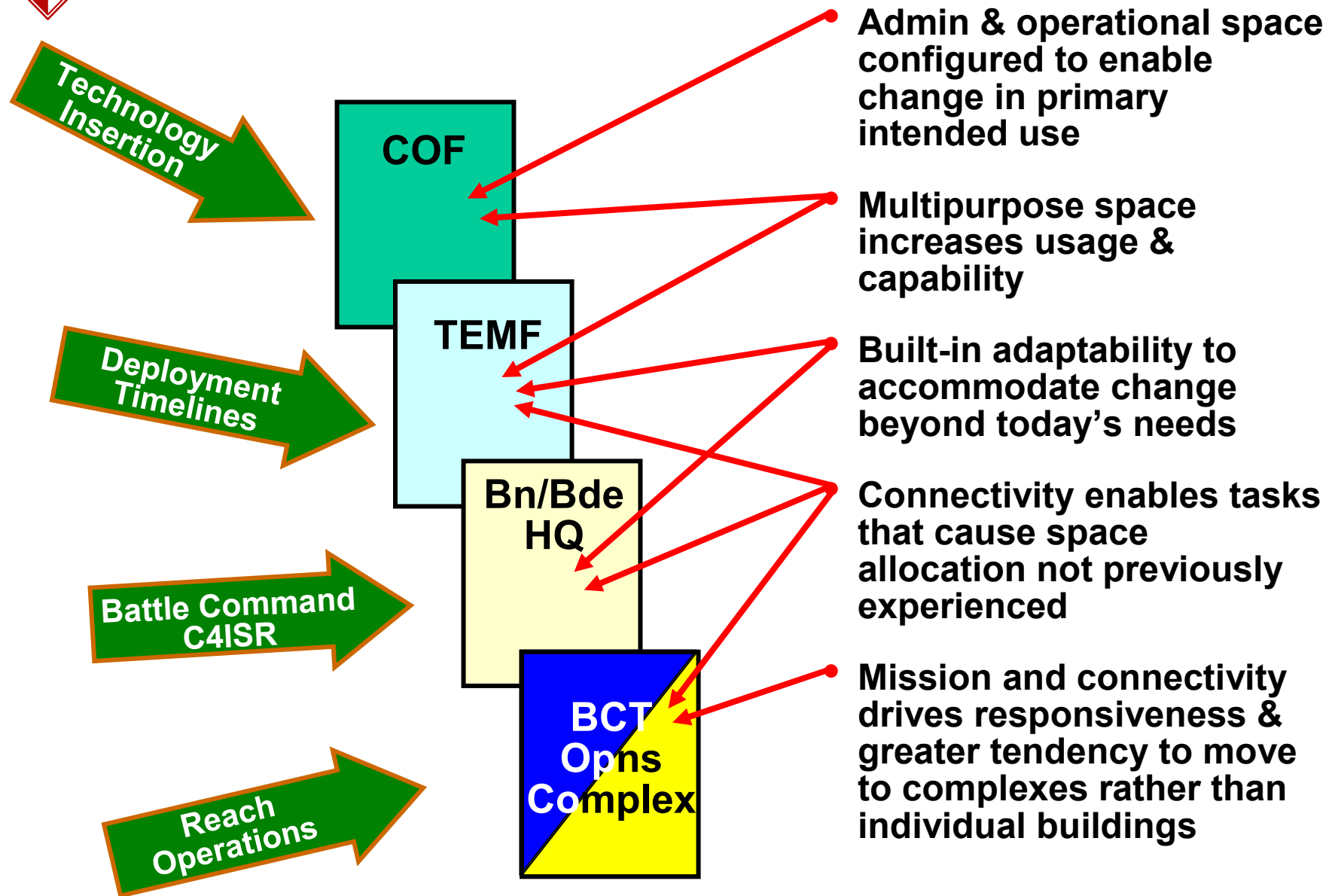


# AMF, IGPBS, BRAC Construction Implications





# Brigade Complex Concept





# Improve MILCON Responsiveness

Accelerated pace of change requires a faster construction execution window.

*How are we planning on doing this?*

## MILCON Transformation

- Three-part strategy to provide permanent facility solutions quicker
- Focused on five facility types initially
- Planning Charettes – centrally managed/decentralized execution
- Best commercial practices/methods with functional military requirements
- Innovative/aggressive acquisition strategy and contracting mechanisms

**Private Industry Apartment**





# Provide Data/Power Throughout Installation

Unprecedented connectivity required in facilities not previously considered.

*What types of facilities are going to be affected? How broad an impact?*

## New Criteria & Requirements

- Secure facilities down to Brigade level .. compartmented, physical, communication, and information security
- Power & data connectivity down to parking pads
- Uninterrupted power to select zones in mission critical facilities
- Connectivity includes both NIPR and SIPR drops to maintenance bays
- Non-traditional facility connection to installation backbone e.g., warehouses

### Vehicle Maintenance



### Industrial/Heavy Equipment Repair Buildings



# Consider Future Requirements

Technology insertions will drive space allowances and necessitates adaptive/multipurpose facility designs.

*What are adaptive/multi-purpose facility designs?*

## *Minimize retrofit turmoil by accepting risk*

- Identify “pace setting” or pre-programmed technology fielding packages (*e.g., spin outs*)
- Incorporate construction techniques and/or materials to enable reconfigurability with minimal effort
- Build to “objective” design to minimize retrofit to accommodate change
- Use life-cycle cost model or “investment portfolio” vice first-cost “ledger” *where it makes sense*

**Headquarters**



Office Buildings

*Objective Design – Maximum Army is willing to commit to*  
*Threshold Design – Minimum acceptable functionality/capability*





## *Provide Flexibility to Adapt to Change*

Fiscal reality causing need to reduce repetitive modification as Transformation occurs.

*What changes are we considering?*

### **Adaptive, multipurpose design**

- **Baseline against current requirements; objective end-state accommodates foreseeable future needs**
- **“Internal” flexibility using reconfigurable space, demountable walls**
- **“External” flexibility using building configurations/ construction methods that accommodate primary use change**
- **Maximize space use to meet more than one function whenever feasible**

**Company Operations**

**Industrial Warehouse Park Buildings**





# Use a Streamlined Acquisition Model

Current acquisition and contracting practices unable to meet pace and demand.

*What types of contracting vehicles are we talking about?*

## Request For Proposal Format

- **Best commercial practices/methods with functional military requirements .. *performance/industry-based RFP***
- **Innovative/aggressive acquisition strategy and contracting mechanisms**
- **Design-build acquisition process**
- **Management environment – Government-Industry shared risk**



**See: Track 8 - Design-Build for Military Projects**



# Partnering for Success

Change in facility duty cycle renders habitually used materials and methods less economical.

*What is industry's role? What's the District/Division role? Who else?*

## 25-year design life; less demanding construction type

- Installation role – site selection & Installation Design Guide compliance
- District role – project management/execution
- HQUSACE & HNC – Program Management, planning charrettes, DD1391 templates, master planning manpower contingencies
- MCX/COS role – standards & criteria compliance; bid proposal review
- HQIMA role – programmatic priorities execution oversight, user priority coordination/synchronization
- ACSIM role – resourcing, policy, and process oversight

• Industry role – *innovation, rapid response, different materials & methodology, performance & quality management?*



## What Does it All Mean?

- MCA process (as we know it) will change as Transformation continues beyond 2025 (*i.e., must be increasingly responsive*)
- Increasing industry-Government partnerships likely to continue well into Future Force fielding timelines (c. 2030+)
- Technical evaluation of RFP responses crucial to getting what Soldiers need .. *Must be able to interpret vendor proposal AND capability to meet functional and operational needs .. Representing the Warfighter*
- Increasing Warfighter dependence upon Centers of Excellence and Standardization (*e.g., concepts, requirements validation, cross-functional technical expertise*) extends beyond USACE role as the “construction facilitator”

*How do we “transform” USACE to be simultaneously more supportive of the Soldier and remain a “premier Government A-E” organization?*

*Is USACE’s role a “service provider” or as a “trusted agent”?*

*One-time need*

*Repeat business*  
*Warfighter rep*



# Summary



## Questions??

“The willingness of future generations to serve in our military will be directly dependent upon how we have treated those who have served in the past.”

*George Washington*





# Preliminary Gap Analyses

## Combat Brigade Unit Facility Support



**Nov '04  
URS  
Tomorrow**

**Yesterday**

**Today**

Facility Category	Maneuver BDE	Stryker BCT (2007)	AMF BCT (2007)	FCS Unit of Action (2020)
Brigade HQ	1	1	1	1
Battalion HQ	3	5	6	6
COF	13	26	30-32	36
Deploy Equip Storage	Y DOL storage	Y * Limited unit storage	Y * Limited unit storage	Y * Sust Opns Cmplx serves as deployment staging area
Deploy Supply Storage	N * Assumes DOL/ Depot storage	N * Assumes DOL/ Depot storage	N * Assumes DOL/ Depot storage	Y * Unit storage all classes
-10 Maint/Sup Capability	Y	Y	Y	Y * Full 2LM 1st Tier @ UA
-20 Maint/Sup Capability	Y	Y	Y	Y * Full 2LM 1st Tier @ UA
-30 Maint/Sup Capability	N - 30 by DISCOM MSB	N * Some NO DISCOM	Y * Some NO DISCOM	Y * 2LM 2d Tier space @ UA
-40 Maint/Sup Capability	N - 40 by DISCOM MSBb	• - 40 Maint/Sup TBD; NO DISCOM	• - 40 Maint by SUA or NMP	Y * NMP/SUA space @ UA
Embedded Training	N	N	N	Y * Power & Data @ Parking
Manned Aircraft	N	N	N	Y * Integrated training, mission planning/rehearsal
UAV - CL I/II	N	Y * Limited to CL I ONLY	Y * Limited to CL I ONLY	Y * Operator training = to pilot training/FHP
UAV - CL III/IVa	N	N	N	Y * Operator training = to pilot training/FHP
UGV - Mule	N	N	N	Y * Operator training = driver training course/convoy
R/A-UGV	N	N	N	Y * Operator training = driver training course/convoy

**NEW**

*Fielded*

*Fielded by FY07*

*Begin Fielding FY08 (EB)*

\* Planning assumptions. BCT & UA requirements VALIDATION pending senior leader review and APPROVAL.