MORS Workshop Outbrief: Improving Defense Analysis Through Better Data Practices

Working Group # 2 Report:
Obtaining Data from Outside Sources

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MILITARY OPERATIONS RESEARCH SOCIETY

Members

- William Ashman (Army ECBC)
- Ambrose Brennan (PA&E JDS)
- Michelle Busbee (NAIC)
- John Christakos (OSEC)
- Vic DiRienzo (Alion)
- David Drake (NAIC)
- Maj Hoot Gibson
- Bernard Harvey (SAIC)
- Steve Hix (PTI)
- Ollen Landrum (NAIC)

- LtCol Eric Holdaway (J-8 PEAD)
- Frank Holland (PA&E JDS)
- Phillippe Loustaunau (DFI International)
- Charles Metcalf (HQ Dept. Army)
- Raymond Miller (AFSAA/SAA)
- Jack Sheehan (DOT&E/DMSO)
- Gene Visco (Visco Consulting)
- Dan Kim (DFI International)
- Bruce Esken (SAIC)
- Phil Barry (Mitre)

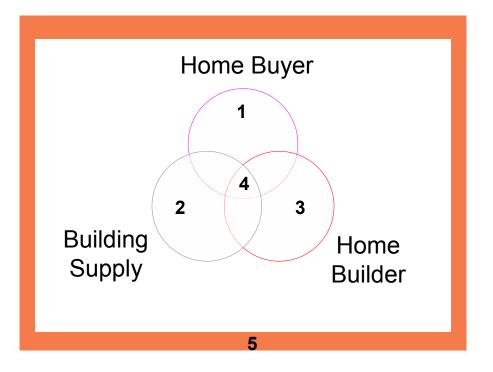
WG 2 – Obtaining Data from Outside Sources

- Issues, incentives with outside data:
 - Visibility, Availability, Suitability, Access
 - Credibility, Timeliness, Affordability
 - Planning, Producing, Paying
- Scope of discussion
 - Requirement: Scope & Framework
 - Content: Core (enterprise), Common (COI), Custom (private)
 - Policy: Business Model & Budgeting
 - Technology: Capabilities & Constraints
- Approach/Methodology used by the group
 - 2 case studies (TMAP, JMEM)
 - 4 topics discussed in 3 sub-groups with cross-briefing

Housing Construction Metaphor

Five Data Working Groups:

- 1) Data Management
- 2) Obtaining External Data
- 3) Creating Data Internally
- 4) Transforming and Employing
- 5) Data Technology



WG 2 – Purpose and Context: Two Broad Circumstances

Normal Op's

Decisions: JSCAP, TOA, Force Structure,
 Acquisition Milestones

- Tempo: Deliberate Planning

- Paradigm: Invest in Capability

- Fame: Go Slow, Finish First

- Shame: Haste Makes Waste

- Objective: Get it Right with All Deliberate Speed

Examples:

- Combatant Commander deliberate planning
- Service Chief personnel, training, spares planning
- Joint Chiefs out-year force mix planning
- Acquisition Chiefs new airframe, hull, chassis AoA

WG 2 – Purpose and Context: Two Broad Circumstances

Response Op's

- Decisions: Crisis Management, Force Selection,

Opportunity Branches and Sequels

- Tempo: Crisis Action Planning

- Paradigm: Buy Services

- Fame: Speed Kills

- Shame: Delay leads to Defeat

- Objective: Best Available by the Deadline

Examples

- Consequence Mgt: Air Traffic Shutdown on 9/11

- Force Selection: for Op Enduring and Iraqi Freedom

- Tech Opportunity: Tactical Internet, Wireless Comm's

WG 2 – Sequence of Success: Five Key Elements

- (1) Requirements Engineering with Users
 - the more complete the better
- (2) Social Engineering with Stakeholders
 - -- must enlist voluntary cooperation
- (3) Technical Engineering --
 - system/technical architecture should be Technology Readiness Level 8
- (4) Information Engineering
 - demand pull (users pull products, products pull tools)
- (5) Inventory Management
 - stock components that can be tailored for custom assembly

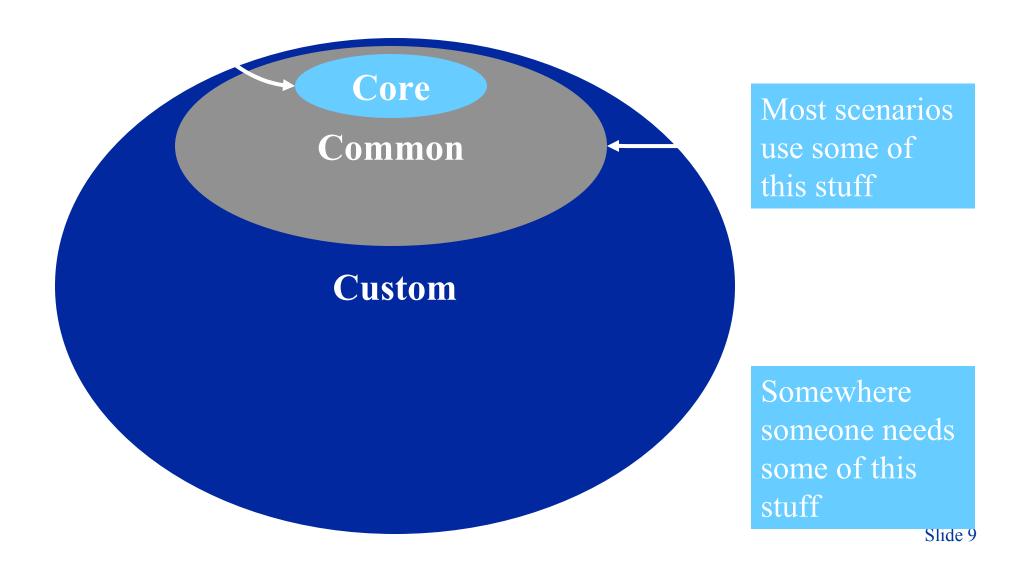
WG 2 - Content Issues

Core:

- Information elements that capture Purpose, Identity,
 Context -- defines COI's
- It's the Mission that Counts
 - Defined by Mission at Level of War which in turn defines and is composed of subordinate Missions at or below the same Level of War.
- Prefabricate selected Core and Common content
 - based on Difficulty, Importance, Frequency, Mutability

Without this stuff there is no scenario

Required Content



Policy Issues

		Present Condition		
		Institutional Provider	Executive Agent	Local Tribe
		for the	for the	for the
		DoD Enterprise	Comm Of Interest	Private Interest
	Core	Not Suitable		
Content	Common		Roll Your Own	
	Custom			"Un-Obtainium"

		Present Condition		
		Institutional Provider	Executive Agent	Local Tribe
			for the Comm Of Interest	for the Private Interest
	Core	Not Suitable		
Content	Common		Roll Your Own	
	Custom			"Un-Obtainium"
				Slide 10

Policy Issues

		Desired Condition		
		Institutional Provider	Executive Agent	Local Tribe
			for the Comm Of Interest	for the Private Interest
	Core	Immutable		
Content	Common	Baseline (D, I, F)	Assembled	
	Custom		Consensus	Tailored++

WG 2 – Way Forward

Immediate:

Recommend these content baselines for the Core:

- Unit Order of Battle
- Mission Essential Task Lists
- Weapon Effects
- Threat Representations
- Intermediate

"Joint" funding for Core content using COI priorities

- Example: JMEM plus-up for CC requirements
- Example: Proposed CTEIP funding of TMAP
- Example: Possible JTIMS support for non-training METL's
- Long Term
 - Need a Demonstration/Experimentation of Framework, Procedures, Value-Added of Top-Down definition/stocking of Core and Common "Data+Algorithm for Purpose in Context" followed by Bottom-Up reconstitution of COI, Private use.