



Urgent Requirements - an I MEF G-9 Perspective

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NDIA EWC

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Urgent Requirements

- During Operation Enduring Freedom (OEF) and Operation Iraqi Freedom (OIF)
 - Warfighters needed a process to provide a rapid acquisition of a capability in order to meet an urgent requirement to enhance their capability.

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G-9's Mission Statement

To identify and shape innovative solutions for capability-driven warfighter requirements.

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Requirement identification Process

- G-9, in partnership with:
 - **I Marine Expeditionary Force (I MEF)**
 - **Marine Forces Pacific (MARFORPAC or MFP)**
 - **Marine Forces Central Command (MARCENT)**
 - **Marine Corps Combat Development Command (MCCDC)**
 - **Marine Corps Systems Command (MCSC)**

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Requirement identification Process

- The Marine Corps developed the
 - **Urgent Universal Need Statement (UUNS)** process

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Urgent UNS Process

- Driven by priorities of the warfighter
 - *Extensive use of liaisons to speed staffing*
- Compressed version of an *existing* process
 - *Several years reduced to several months*
 - *Limitations associated with this*
- High visibility with Senior Leadership
 - **Marine Requirements Oversight Committee**
 - **(MROC)**

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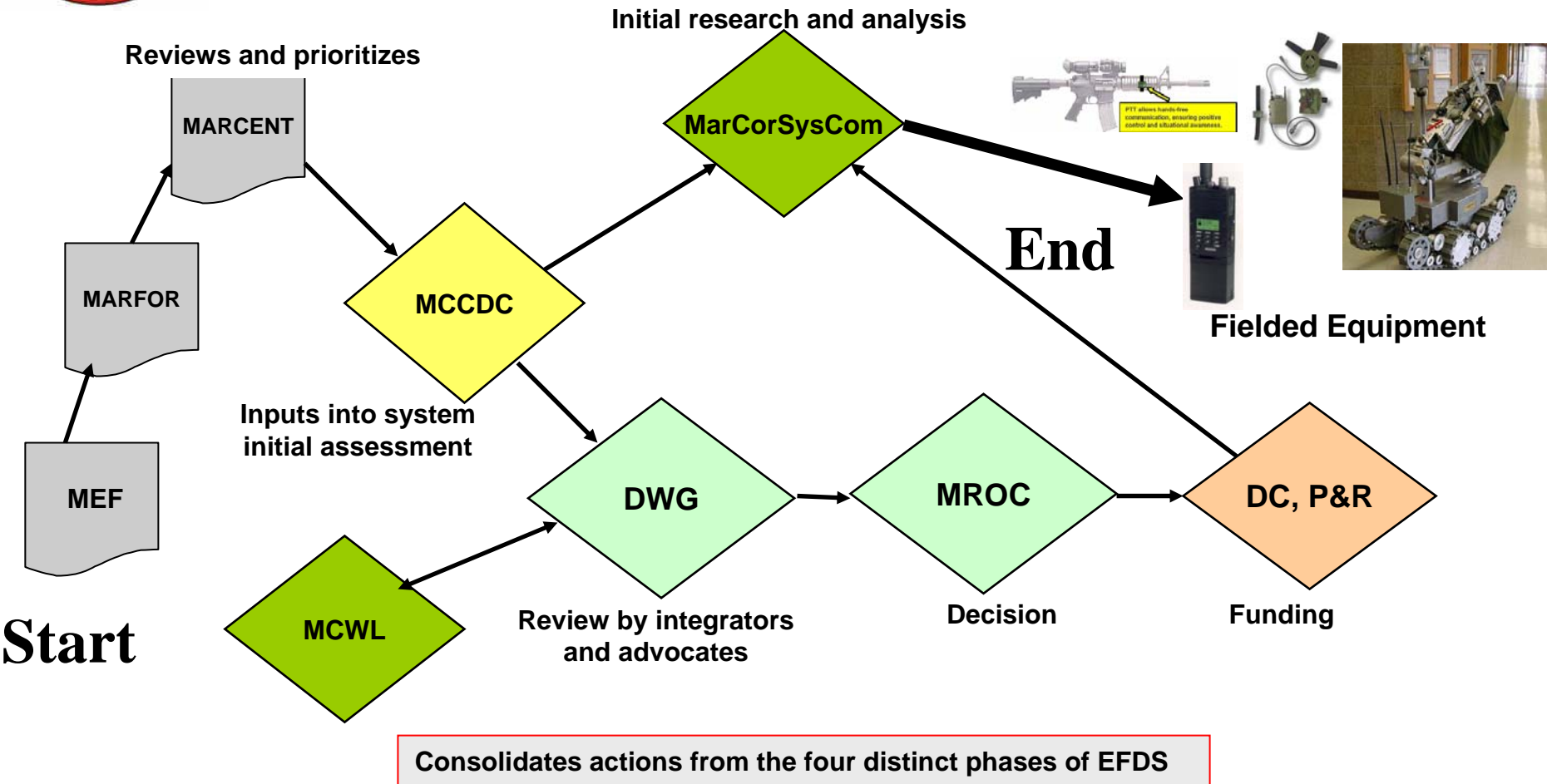
Urgent UNS Process

- Process governed via Marine Admin Instruction (**MARADMIN**)
- Operating forces determine and prioritize urgent capability requirement
- Staffing expedited at all levels
- Senior leadership forum (**MROC**) for rapid decisions
- Fielding expedited by Acquisition Command

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Urgent UNS Staffing Flow



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Additional Requirement Identification Processes

- **Operational Need Statement (ONS)**
- **Joint Urgent Operational Need Statement (JUONS)**

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Sources of Solution

- **Marine Corps Systems Command (MCSC)**
- **Marine Corps Warfighting Lab (MCWL)**
- **Defense Advanced Research Projects Agency (DARPA)**
- **Office of Naval Research (ONR)**

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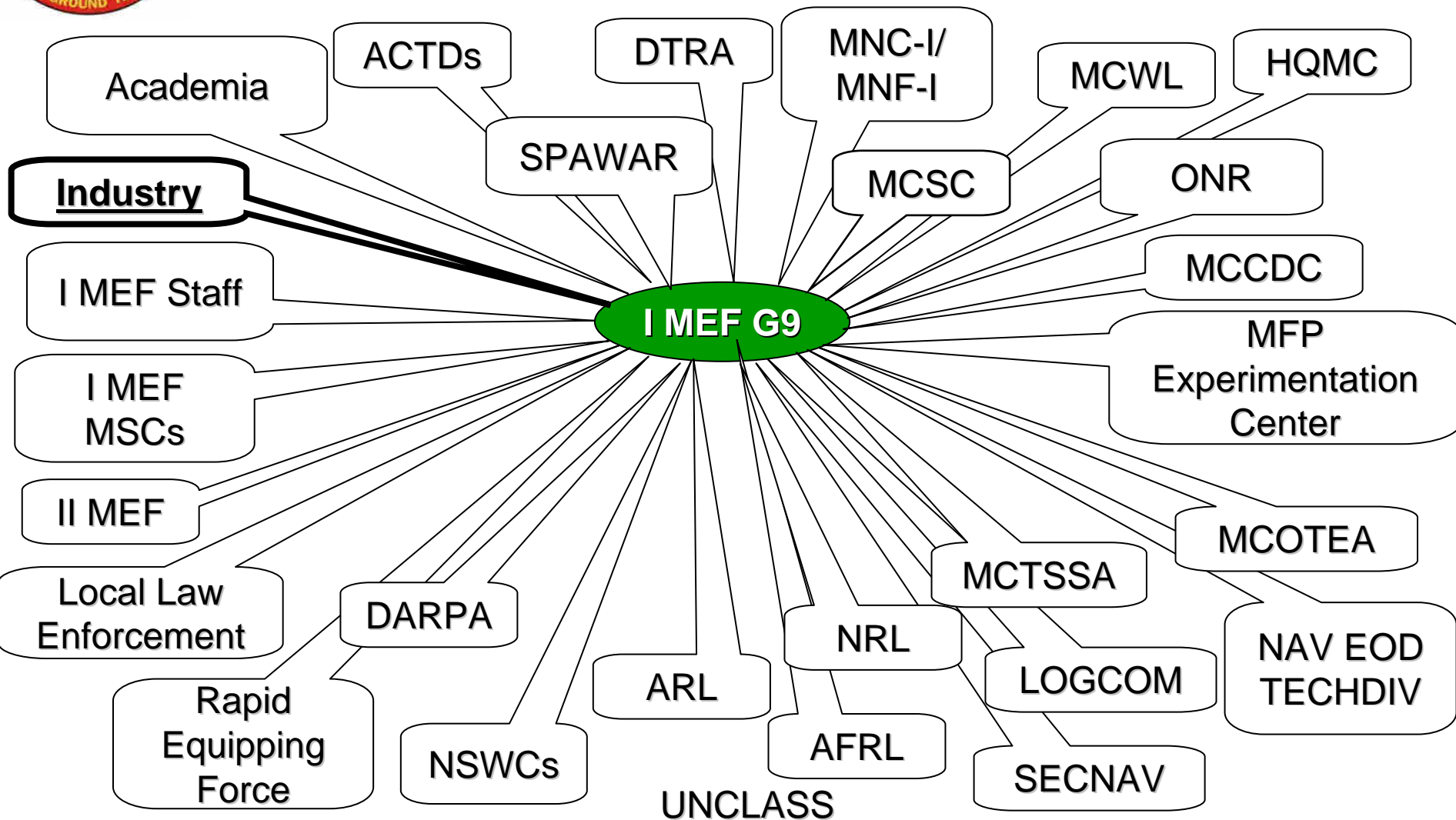
Sources of Solution

- US ARMY
 - Army Research Lab (**ARL**)
- US Air Force
 - Air Force Research Lab (**AFRL**)
- **Advanced Concept Technology Demonstration (ACTD)**
- Industry
- And many others

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G-9 Relationships





I MEF Rapid Requirements

- ***Sample successes.***
 - ***Inherent limitations..***
 - ***Learning process...***
 - ***The future....***

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Sample Successes



Marine Armor Kit (MAK)



M1114 Up-Armored HMMWV

MCTAGS



MTVR Armoring System (MAS)



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Sample Successes

✓ SHERPA

- Precision airborne delivery capability for loads 250-2000 lbs.
- Delivery from 10,000ft with error less than 35m from target.



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Sample Successes

✓ Blue Force Tracker

- Provides near real-time position location of friendly forces and limited “chat” capability.
- Works beyond line-of-sight through satellite.



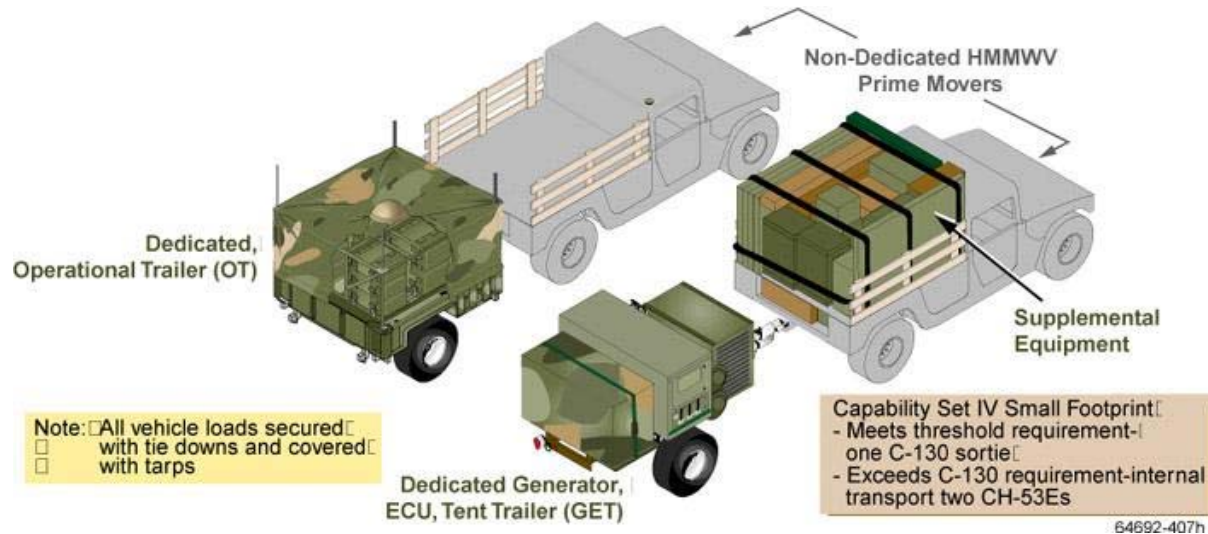
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Sample Successes

✓ Unit Operations Center

- Integrated communications package (internal & external)
- Provides new shelters, tents & generators



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Sample Successes

- ✓ Cougar Joint Explosive Ordnance Disposal Rapid Response Vehicle



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Sample Successes

✓ Scan Eagle UAV

- **Endurance: 20 hours**
- **Operational Range: 110 km**
- **Loiter time - max range: 12 hrs**
- **Averaging 600 hours/month**



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Sample Successes

✓ EOD Robotics

- Large robot with articulating arm (6ft reach) and camera for use with remote de-arm equipment.
- Remote with RF (650m) or fiber optic cable (1200ft).



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Sample Successes

Most popular
urgent requirement
submitted
(38 times!)



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Sample Successes

- ✓ Warfighter has a powerful voice in articulating warfighter needs and command support for innovative thinking
- ✓ Capability solution product acquisition reduced from *several years* to *several months*
- ✓ Efficiency and effectiveness of the Marine warfighter - never better

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Inherent Limitations

- Urgent requirements funded for one year
 - *Procurement funds are regulated by law*
- Beta versions of equipment requested
 - *Warfighters were willing to accept the risk of acting as the testing mechanism*
 - *Response to need vs. full capability*

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Inherent Limitations

- Tactics Techniques and Procedures (TTP) for new equipment
 - *Improvised use of new equipment (to meet the changing situation) required improvised use of the TTPs.*
 - *Continual feedback to MCSC and MCCDC*



Learning Process

- Warfighter evaluates the new technology
 - OK, now that we used this innovative technology for some length of time,
 - *How well did it work?*
 - *Was it worth the effort?*
 - *How could we improve it?*
 - *MCSC is constantly tailoring the procurement to meet the need.*

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Learning Process

- No readily available capability solution to requirement
 - *Industry throughput limitations*
 - *We want what does not exist*
- Tailoring equipment to meet the environment
 - *What works in Kansas may not work in the Middle-east*

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The Future

- Warfighters continue to provide feedback to the Marine Corps and industry.
 - Formal and informal methods
- Now, with end users having “been there - done that”
 - *Lessons learned can be incorporated into future solution developments.*

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The Future

- I MEF anticipated requirement priorities:
 - Counter IED
 - Identify, Pre-detonate, Jam
 - EOD capability enhancements
 - C3 Systems
 - C2, collaborative planning tools, expeditionary distributed links, long range communications

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The Future

- Force protection
 - Facility hardening, FOB security systems, vehicle & body armor, sniper detection
- Surveillance / Fires
 - UAVs, sensors, tactical video transfer/links
- Language translation / Cultural training
 - Handheld devices, software, training

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Closing Comment

- All warfighters in support of the global war on terror - past, present, and future thank all of you for your continued tireless support.

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Questions?



LtCol Pioli



ACRONYMS

- C2: Command and Control
- C3: Command, Control, and Communications
- DC: Deputy Commandant
- DOTMLPF: Doctrine, Organization, Training, Materiel, Leadership and education, Personnel, and Facilities
- EOD: Explosive Ordnance Disposal
- FOB: Forward Operating Base
- IED: Improvised Explosive Device
- MAGTF: Marine Air Ground Task Force
- MCTAGS: Marine Corps transparent Gunner Shield
- MEF: Marine Expeditionary Force
- P&R: Programs and Records

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