



Ground Robotics and the Joint Warfighter

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What we're hearing...



From Secretary of Defense Robert Gates:

“...the theme of the National Defense Strategy is balance...between ...capabilities such as counterinsurgency and stability operations... and maintaining ... above all, the technological edge – against the military forces of other nation states.”

“...we must not be so preoccupied with preparing for future conventional and strategic conflicts that we neglect to provide ... all the capabilities necessary to fight and win conflicts such as we are in today.”

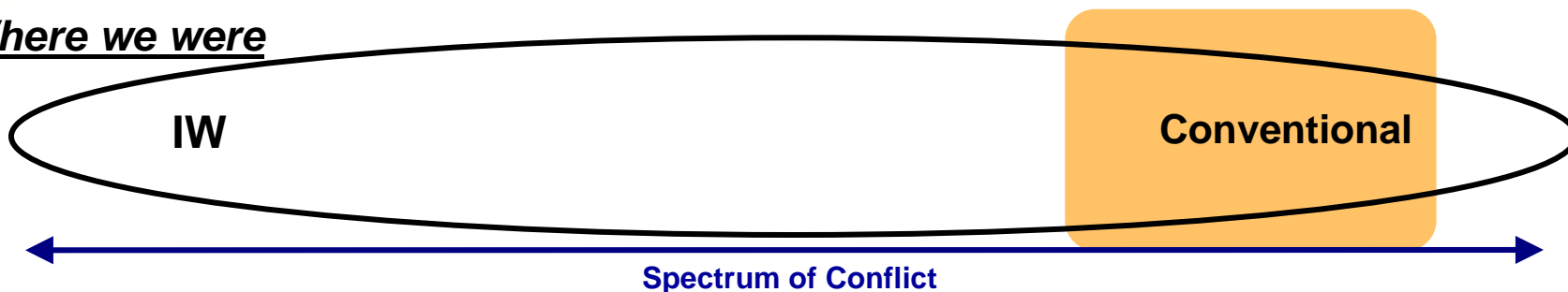
“Our conventional modernization programs seek a 99 percent solution in years. Stability and counterinsurgency missions – the wars we are in – require 75 percent solutions in months.”



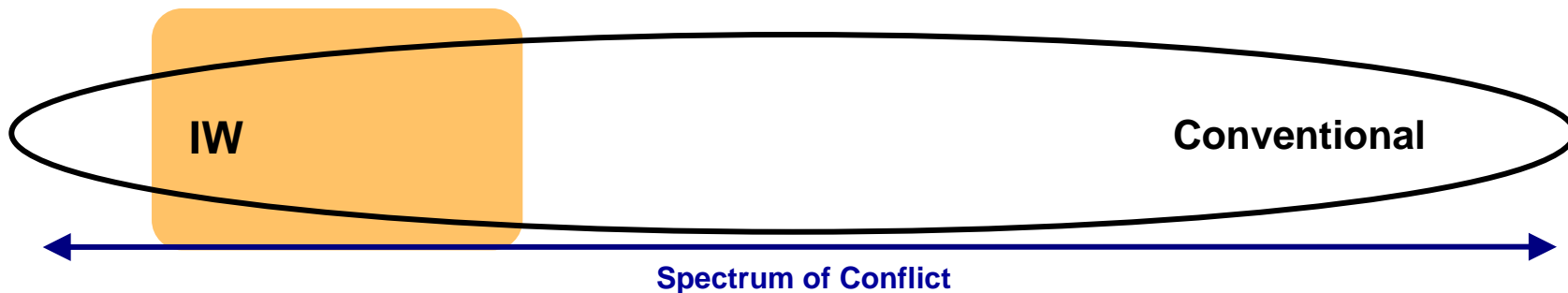
Where Is DoD Headed?



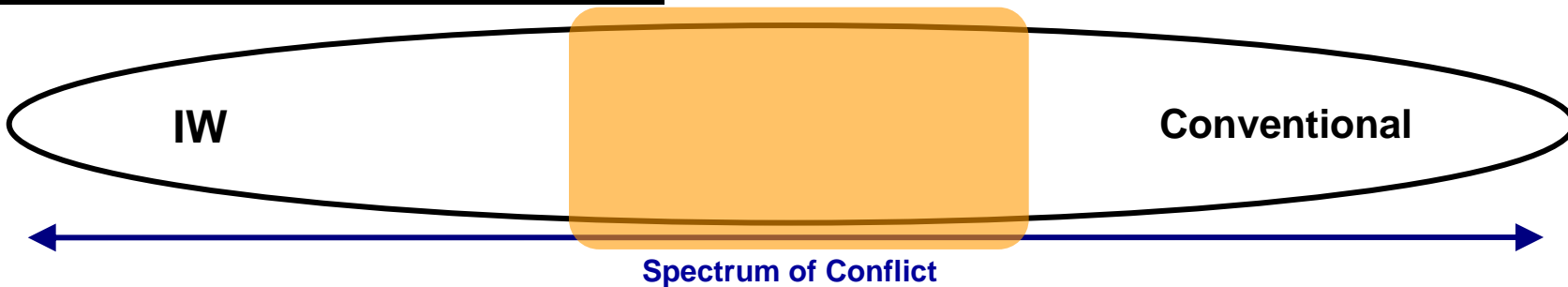
Where we were



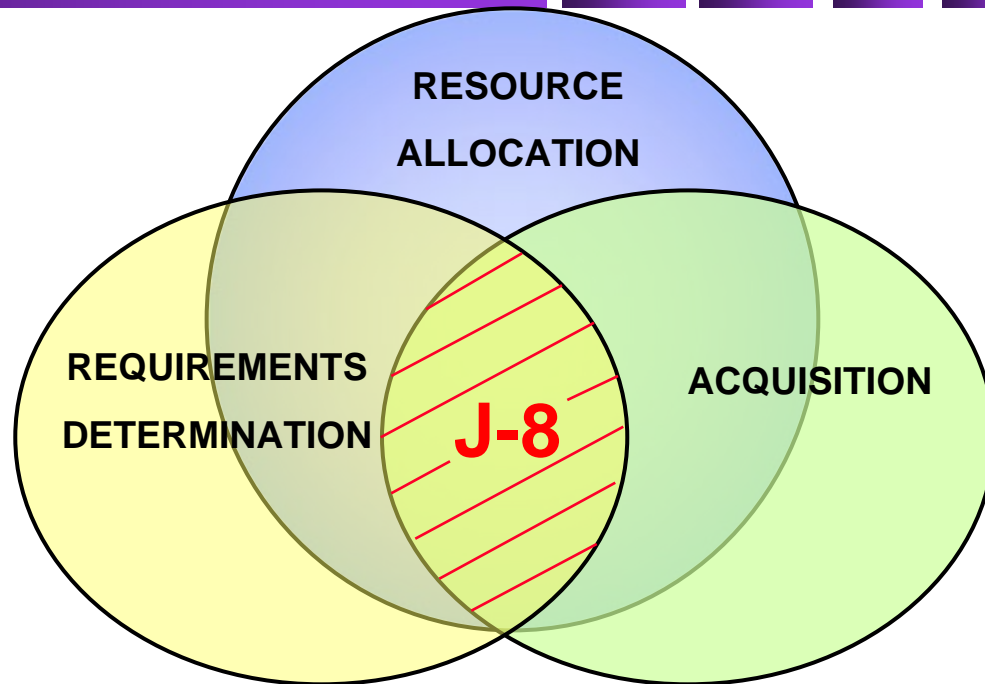
Where we are operating today



Where do we want to be tomorrow?



Joint Staff J-8 Mission



- Requirements Determination - Planning, studies, analysis, assessments
- Resource Allocation - Programming/Budgeting
- Acquisition Execution - Deliver the required capabilities

***Objective: Deliver the Right Mix of Capabilities
for the Joint Force Commanders***

Joint Staff Requirements Role



- **The “Voice of the Warfighter”**

- **Consolidate needs of the COCOMs (via Integrated Priority Lists) into JROC validated Capability Gaps (annually)**
- **Process and pursue/coordinate solutions for Joint Urgent Operational Needs Statements (continuous input from the warfighter)**

BOTTOM LINE:

Ensure the Joint Warfighter has the required capabilities to execute the assigned mission in a resource constrained environment...

For the Joint Warfighter, standardization and interoperability are paramount!

Joint Staff Contributions to Ground Robotics



- **Continue to provide warfighter need analysis for Joint Ground Robotics Enterprise (JGRE) investments**
 - **Align JGRE proposals with applicable Joint Capability Area(s)**
 - **Analyze each proposal against validated Joint Gaps and current Joint Urgent Operational Needs Statements (JUONS)**
- **Joint Requirements Oversight Council (JROC) review and endorsement of 2009-2034 Unmanned Systems Integrated Roadmap**
 - **Highlighting standardization and interoperability**

Joint Warfighter Influences on Ground Robotics



What has 6+ years of Joint/Coalition warfare told us to help shape the direction of Ground Robotics?

- **To be successful, unmanned systems need to provide the same or improved capabilities as the manned systems they replace while keeping Soldiers and Marines out of harm's way**
 - **Autonomous operations**
- **Managing the dense battlespace with Joint/Coalition Forces requires:**
 - **Interoperability (operational and logistical)**
 - **E-M spectrum bandwidth, agility, and adaptability**

QUESTIONS/COMMENTS

