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# Joint Ground Robotics Enterprise

## *Robotics Division Update September 13, 2007*

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# Ground Robotics Consortium

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- **Vision:**
  - A DoD and an Industry Consortium to partner in the development and execution of the JGRE Annual Research Plan.
- **Mission:**
  - Industry working together with the JGRE to accelerate the development and integration of ground robotics technologies for Warfighter capability needs, and assess/mature selected ground robotics technologies to meet identified capability gaps.



# Potential Benefits of a Consortium



- **Benefits to JGRE:**
- Increased visibility of industry innovations and potential leap-ahead technologies
- Increased interoperability
- Improved technology readiness through leveraging of technical and operational “lessons learned”
- Reduced systems cost and sustainability through re-use and commonality – facilitate ease of integration, upgrade and support
- Reduced Development Risk by identifying common components or the development of those that do not exist
- Improved Effectiveness through new, more focused development of key enablers and technologies to address specific technology gaps
- Eliminate redundancy and duplication of efforts
- Accelerated transitioning of unmanned ground robotic innovations to/from commercial technologies.



# Potential Benefits of a Consortium



- **Benefits to Industry:**
- Opportunity to participate in DoD research planning via the JGRE Annual Research Plan.
- Better investment of IRAD funding
- Access to cutting-edge research in diverse unmanned ground robotic technologies
- A forum for Subject Matter Experts to collaborate
- Opportunities to collaborate with other government and/or other industry members
- Knowledge of DoD development efforts for unmanned ground technologies.
- Opportunity to compete for substantial peer reviewed OSD funding (6.2/6.3)
- Accelerated transitioning of unmanned ground robotic innovations to/from commercial technologies.



# DoD Ground Robotics Technology Collaboration

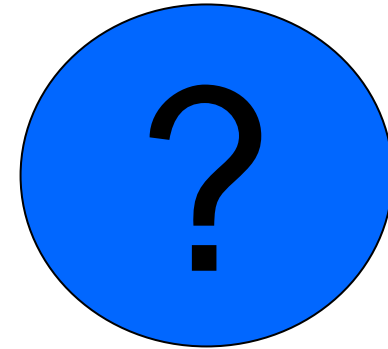


## Joint Ground Robotics Enterprise

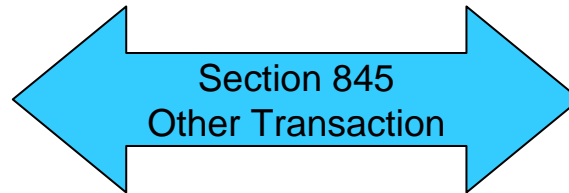


- OUSD(AT&L) PSA/LW&M
- Department of the Army
- Department of the Navy
- Department of the Air Force
- Defense Treat Reduction Agency
- J8
- Other Agencies and Departments

## Industry Ground Robotics Consortium



- Defense Contractors
- Small Businesses
- Academic Institutions
- Non-Profit Organizations
- Not-for-Profits Organizations



- Task Order Sub Agreements
- CRADAs
- DEAs
- Contracts
- Test Service Agreements

**DoD and IGRC ... Partnering to Leverage Capabilities and Investment**



# DoD Ground Robotics Technology Collaboration *Responsibilities*

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- **Joint Ground Robotics Enterprise (JGRE)**
  - Oversight
  - Planning and Budgeting
  - Policy & Standard Development
  - Acquisition Process
  - Liaison with Other Organizations
  - Development of Annual Research Plan, Requirements and Source Selection Plan
  - Source Selection
- **Industry Ground Robotics Consortium (IGRC)**
  - Liaison among Industry and with JGRE
  - Participate in development of Annual Research Plan
  - Issue Request for Proposals to support Annual Research Plan
  - Negotiate Task Order Contracts with Industry
  - Manage Research Sub-Committees



# DGRTC Management Structure



**Executive Committee**  
Govt Co-Chair / IGRC Co-Chair

O-6 Council

**Research Program Director**

JGRE Program Director  
(Support by TAB)

**Research Sub-Committees**

Supported by TAB

**Interoperability**  
Govt Co-Chair  
IGRC Co-Chair

**Mobility**  
Govt Co-Chair  
IGRC Co-Chair

**Autonomy**  
Govt Co-Chair  
IGRC Co-Chair

**Sensors**  
Govt Co-Chair  
IGRC Co-Chair

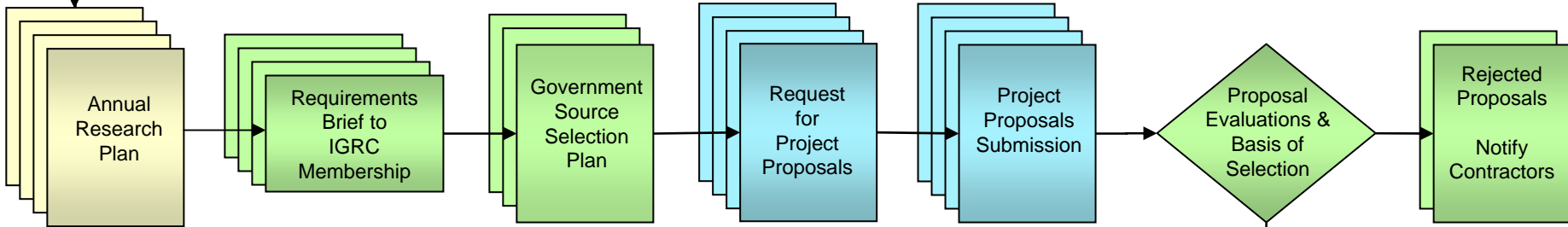
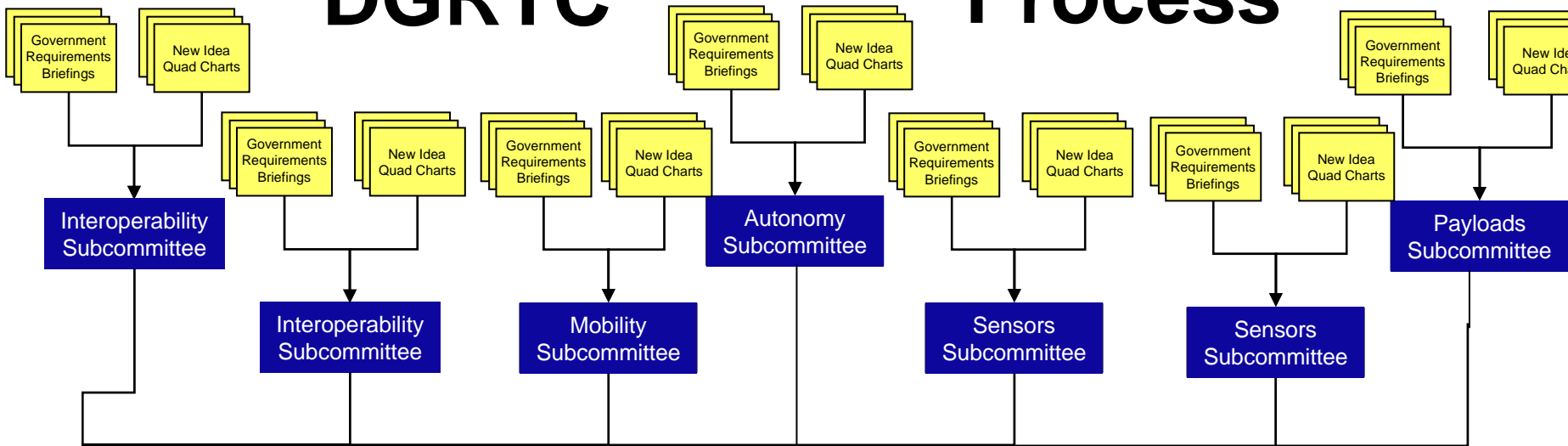
**Manipulators**  
Govt Co-Chair  
IGRC Co-Chair

**Payloads**  
Govt Co-Chair  
IGRC Co-Chair

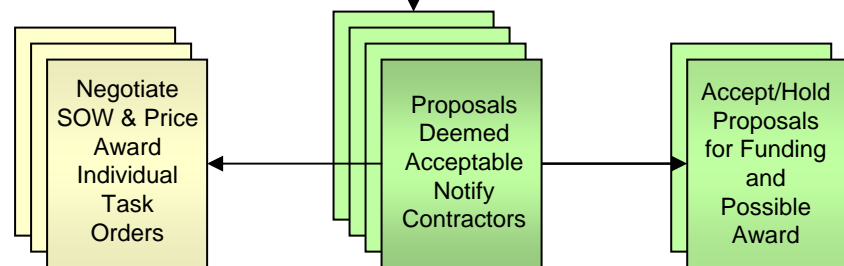
**Collaboration**  
Govt Co-Chair  
IGRC Co-Chair

# DGRTC

# Process



- Government Activities
- Joint Government/Consortium Activities
- Consortium Activities





# Contracting Concept



- Other Transaction Agreement (OTA)
  - Includes Annual Requests for Project Proposals
  - Relief from FAR and supplemental regulations
- Fully Executed Consortium Member Agreement
  - Not signed by government
  - Mirrors OTA but is a separate instrument that also included non-OTA terms and conditions
  - Details rules and procedures which govern the activities and relationships among industry/academia
- Government Labs cannot be members of Consortium
  - May be used as subcontractors



# IGRC Consortium



- Determines membership process / selection
- Competition among members
- Teams/subcontracts may include non-members (e.g. Labs, Warfare Centers)
- Government performs source selection process
- Cost sharing (can be evaluated on case by case basis)
- Establish publication guidance
- Establish dispute resolution process



# Consortia Path Forward

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- 25 Sept**      **Present Consortium Concept to SSG**  
**NDIA Announcement**
- Early Oct**    **Industry Day Announcement**
- Mid Oct**      **Industry Day #1**
- Mar 08**      **Kickoff: Introduce the Consortium at the**  
**Conference**