Research, Development, and Acquisition Overview

Roger M. Smith
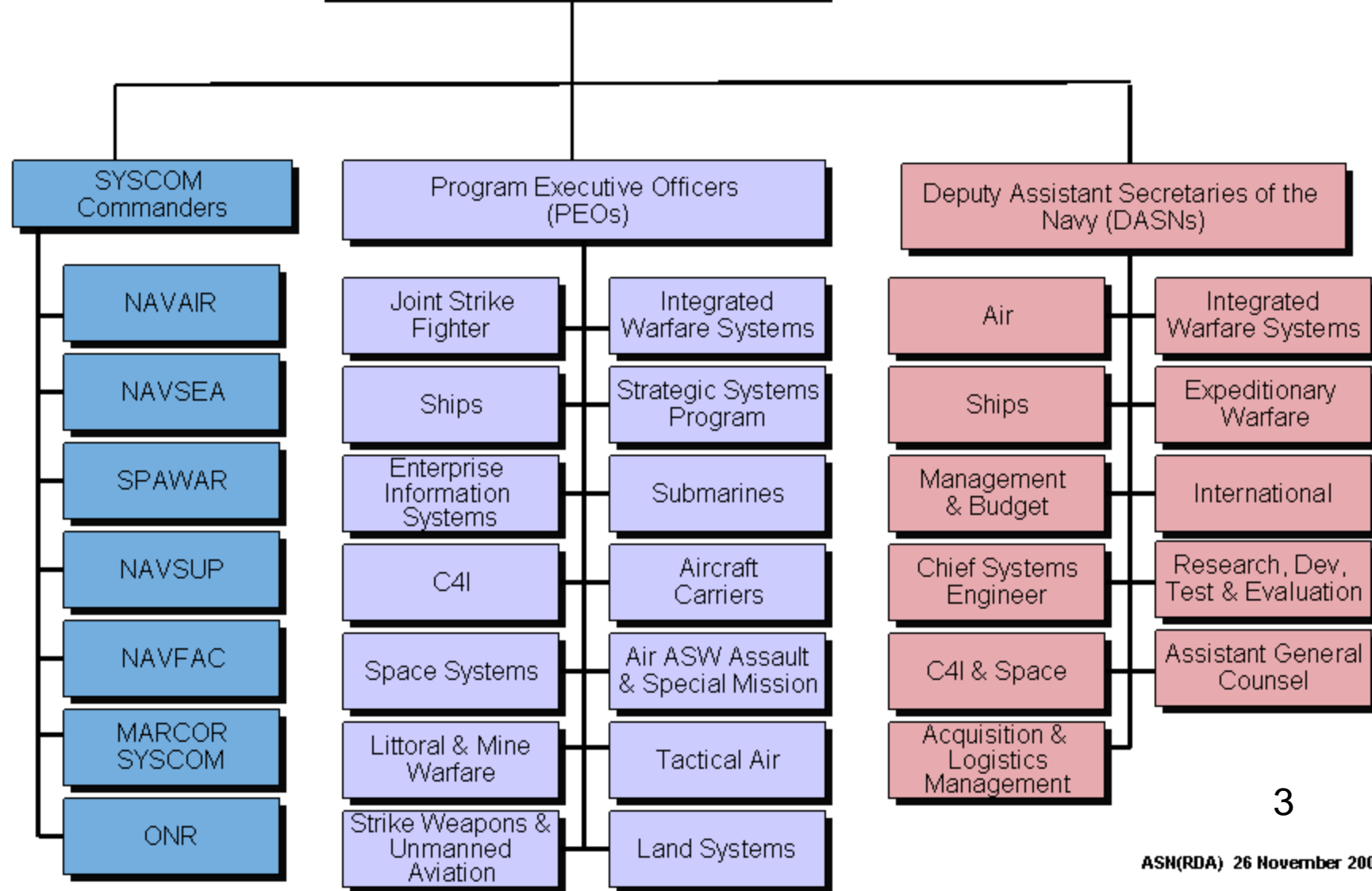## DASN Expeditionary Warfare

Agenda

- ASN RDA Role

- Major Capabilities In the Acquisition Pipeline

- Characteristics of Future Capabilities

- ASN RDA Comments To Industry

- ASN RDA Leadership & Management Initiatives

- Q&A Session

OFFICE OF THE ASSISTANT SECRETARY OF THE NAVY
(RESEARCH, DEVELOPMENT AND ACQUISITION)

ASSISTANT SECY OF NAVY (RDA)
(Acting) Mr. John S. Thackrah
Principal Deputy
VADM Dave Architzel

SYSCOM Commanders

- NAVAIR
- NAVSEA
- SPAWAR
- NAVSUP
- NAVFAC
- MARCOR SYSCOM
- ONR

Program Executive Officers (PEOs)

Joint Strike Fighter	Integrated Warfare Systems
Ships	Strategic Systems Program
Enterprise Information Systems	Submarines
C4I	Aircraft Carriers
Space Systems	Air ASW Assault & Special Mission
Littoral & Mine Warfare	Tactical Air
Strike Weapons & Unmanned Aviation	Land Systems

Deputy Assistant Secretaries of the Navy (DASNs)

Air	Integrated Warfare Systems
Ships	Expeditionary Warfare
Management & Budget	International
Chief Systems Engineer	Research, Dev, Test & Evaluation
C4I & Space	Assistant General Counsel
Acquisition & Logistics Management	

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ASN RDA Role

- The Navy Research, Development, and Acquisition Team, in partnership with industry, which serves the Nation by developing, acquiring, and supplying technologically superior and affordable systems for the Navy, Marine Corps, Joint, and Allied forces.
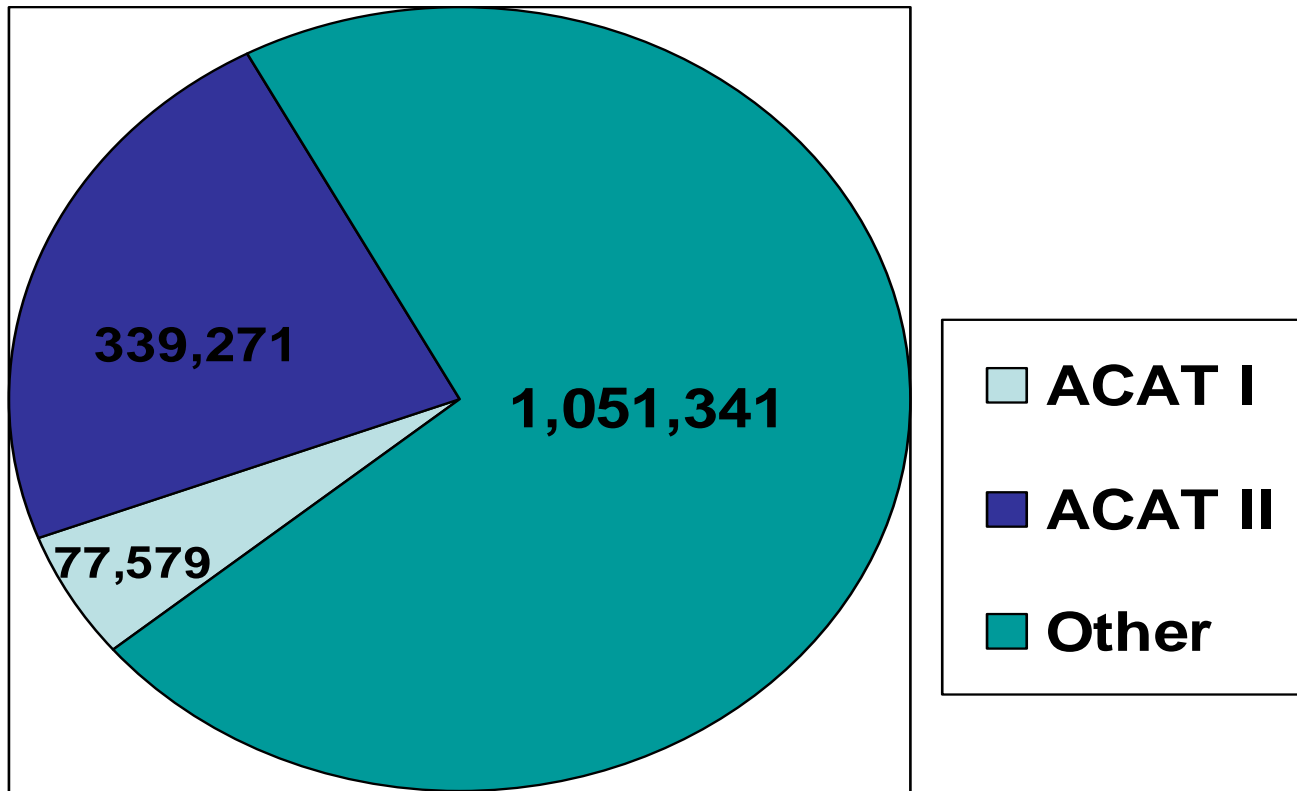
DASN RDA OVERSIGHT

ACAT DESIG	CRITERIA	MDA
ACAT 1	Major Defense Acquisition Program (MDAPs) (10 USC 2430) -RDT&E Total Expenditure>$365M or Procurement >$2.19B - USD(AT&L) designation as special interest	ACAT 1D: USD(AT&L) ACAT 1C: SECNAV, or delegated, ASN(RD&A) as CAE
ACAT 1A	Major Automated Information Systems (MAISs) -Program costs/year (all approps) > $32M, or Total program costs>$126M -Total life cycle costs> $378M -ASD(NII) designation as special interest	ACAT IAM: ASD(NII)/DoD CIO ACAT IAC: ASN(RD&A) as delegated by the DoD CIO
ACAT II	Does not meet the criteria for ACAT I Major Systems (10 USC 2303(5)) -RDT&E> $140M or PMC > $660M -ASN(RD&A) designation as special interest -Not applicable to IT system programs	ASN(RD&A), or the individual designated by ASN(RD&A)

ACAT	PROGRAM TITLE	FY09 ($K)	FY10-13 TOTAL ($K)
ACAT I:			
ACAT ID	Expeditionary Fighting Vehicle (EFV)	0	1,117,199
ACAT IC	Medium Tactical Vehicle Replacement (MTVR)	0	0
ACAT IAC	Common Aviation Command and Control System (CAC2S)	49,339	149,396
ACAT IAM	Global Combat Support System - Marine Corps (GCSS-MC)	28,240	25,299
ACAT ID	Mine Resistant Ambush Protected Vehicle (MRAP) *	* No PR-09 baseline funding	
	ACAT I SUBTOTAL	**77,579**	**1,291,894**
ACAT II:			
ACAT II	LW-155	2,669	5,399
ACAT II	Logistics Vehicle System Replacement (LVSR)	306,230	549,178
ACAT II	USMC CREW Systems	12,932	52,711
ACAT II	Ground/Air Task Order Radar (G/ATOR)	17,440	460,431
	ACAT II SUBTOTAL	**339,271**	**1,067,719**
	ACAT I & ACAT II GRAND TOTAL	**416,850**	**2,359,613**

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FY09 Investment

Total: 1,468,191

339,271

1,051,341

77,579

- ☐ ACAT I
- ☐ ACAT II
- ☐ Other
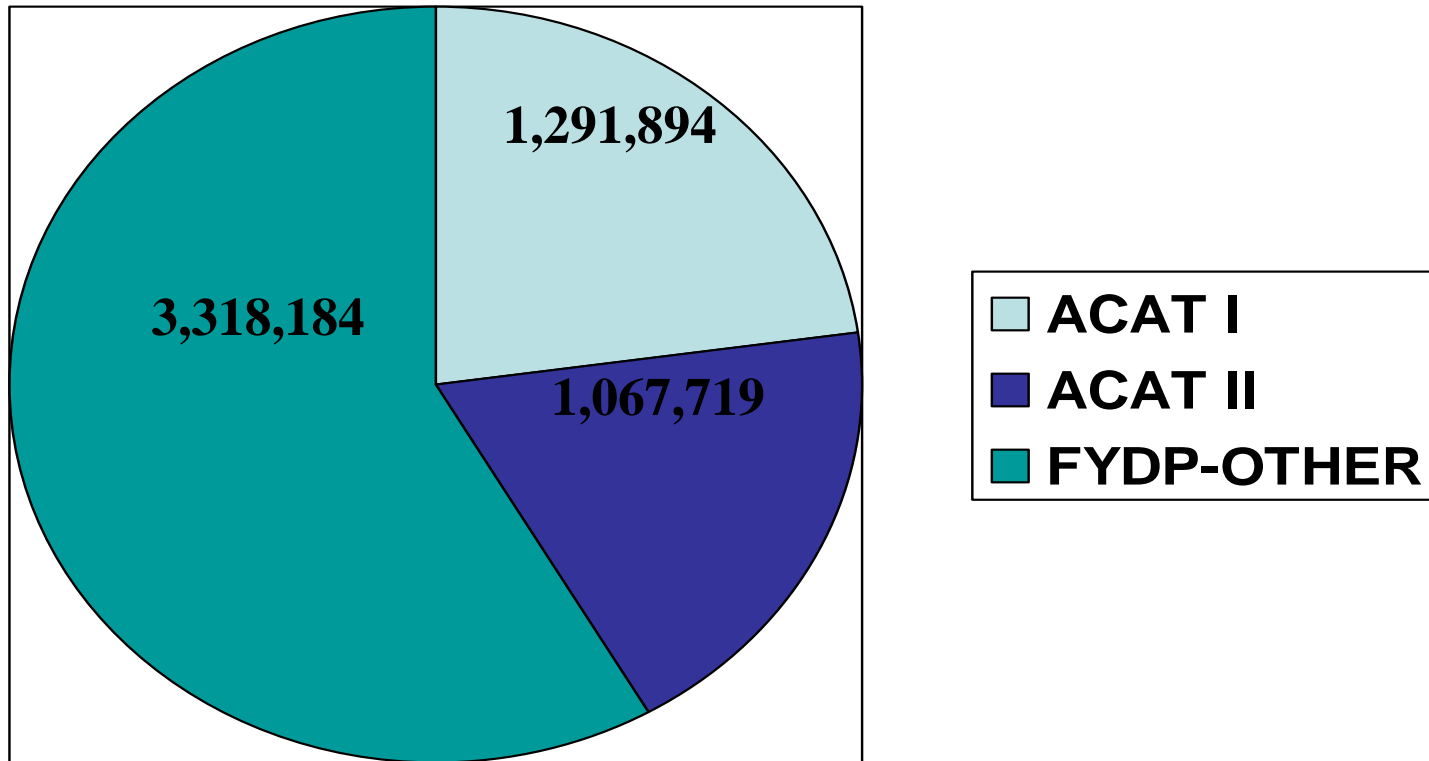
Investment Over FYPD

Total: 5,677,797

Air Programs in Pipeline

MV-22 OSPREY

CH-53K

F-35B JSF

UH-1Y

Ground Tactical Capabilities
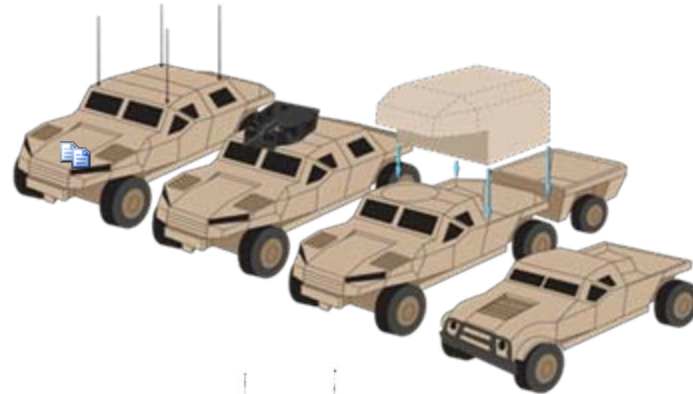
- MRAP   EFSS/ITV   HIMARS

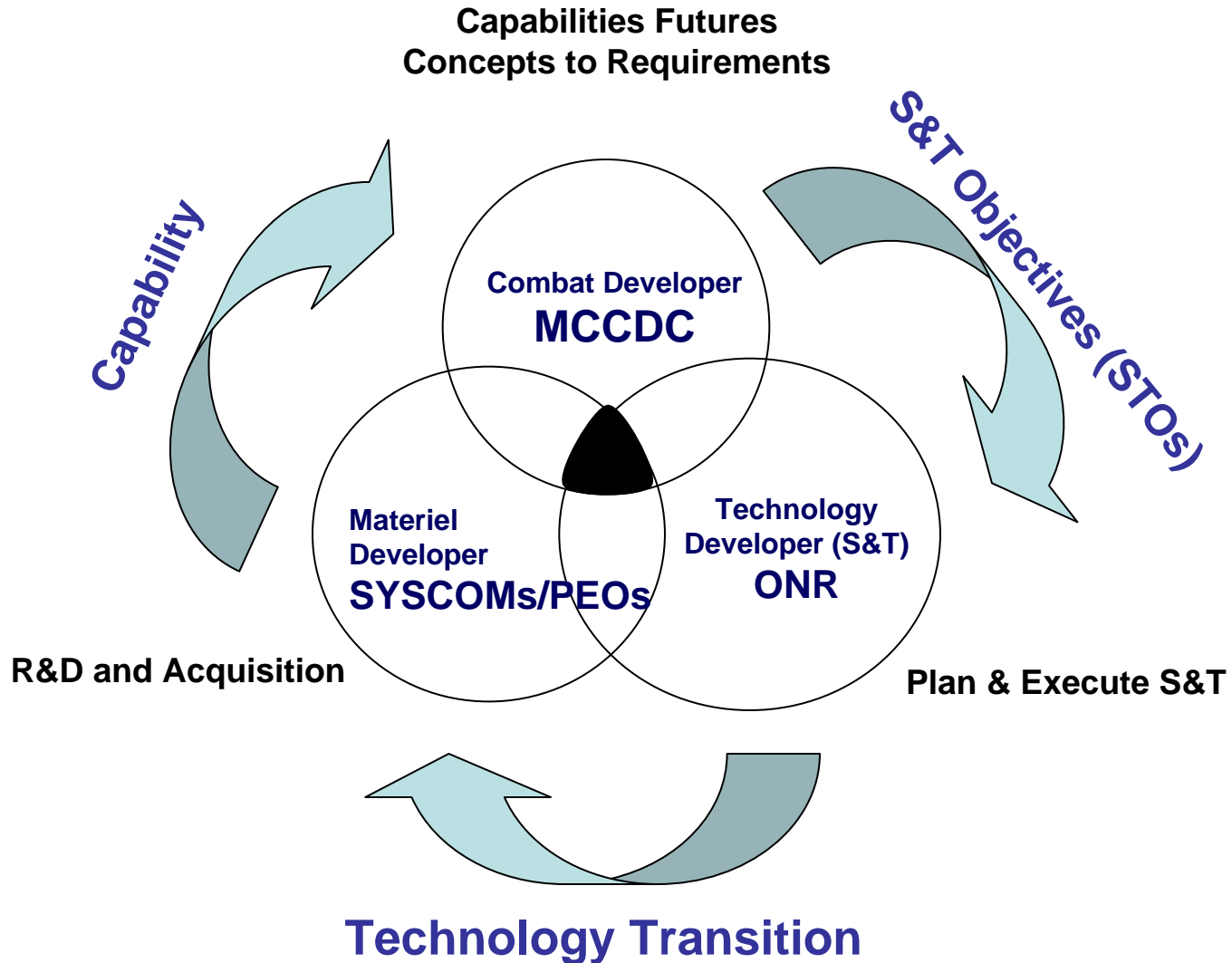# Ground Tactical Capabilities

- EFV

JLTV Family

MPC

Future Capabilities

- Capabilities Generation Process

- Characteristics of Capabilities

Future Capability Process

Capabilities Futures
Concepts to Requirements

Capability

S&T Objectives (STOs)

Combat Developer
MCCDC

Materiel
Developer
SYSCOMs/PEOs

Technology
Developer (S&T)
ONR

R&D and Acquisition

Plan & Execute S&T

Technology Transition

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Characteristics of Future Capabilities

- Light
- Interoperable
- Innovative Materials
- Full spectrum: Low Intensity to High Combat Operations
- SECNAV/CMC Surface Lift Analyses

Comments To Industry

- **Legislative Environment**
  - Deliver What You Propose On Schedule
    - Realistic Assessments of Engineering Required
    - Importance of Accurate Cost and Schedule Estimates

- **OSD Policy**
  - Testing
  - Competition Mandates Through SDD
  - Earned Value Management System (EVMS)

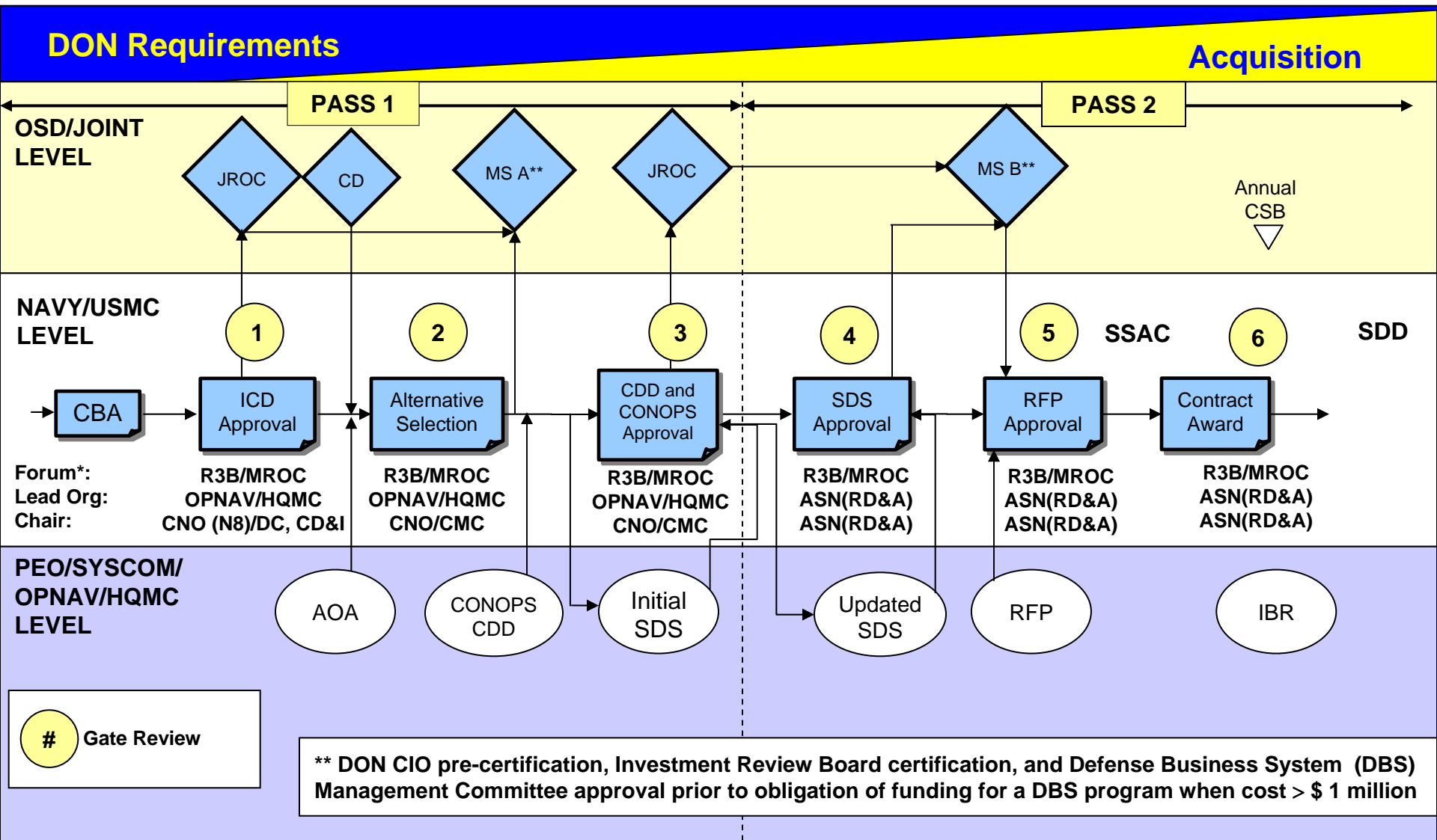- **Latent Impact of Acquisition Reform on SE**

Comments to Industry

- Rigorous Systems Engineering Practices
  - Integrated Master Plan/Integrated Master Schedules are Key

- Cost Management
  - Realistic Cost Estimates
  - Meet Contracted Delivery Schedules

ASN RDA Initiatives

- Gate Reviews
  - Milestone A Emphasis

- Probability of Program Success (POPS)

DON Requirements/Acquisition Two-Pass/Six-Gate Process
with Phase Development of System Design Specification
(illustrated example for program initiation at Milestone B)

DON Requirements — **Acquisition**
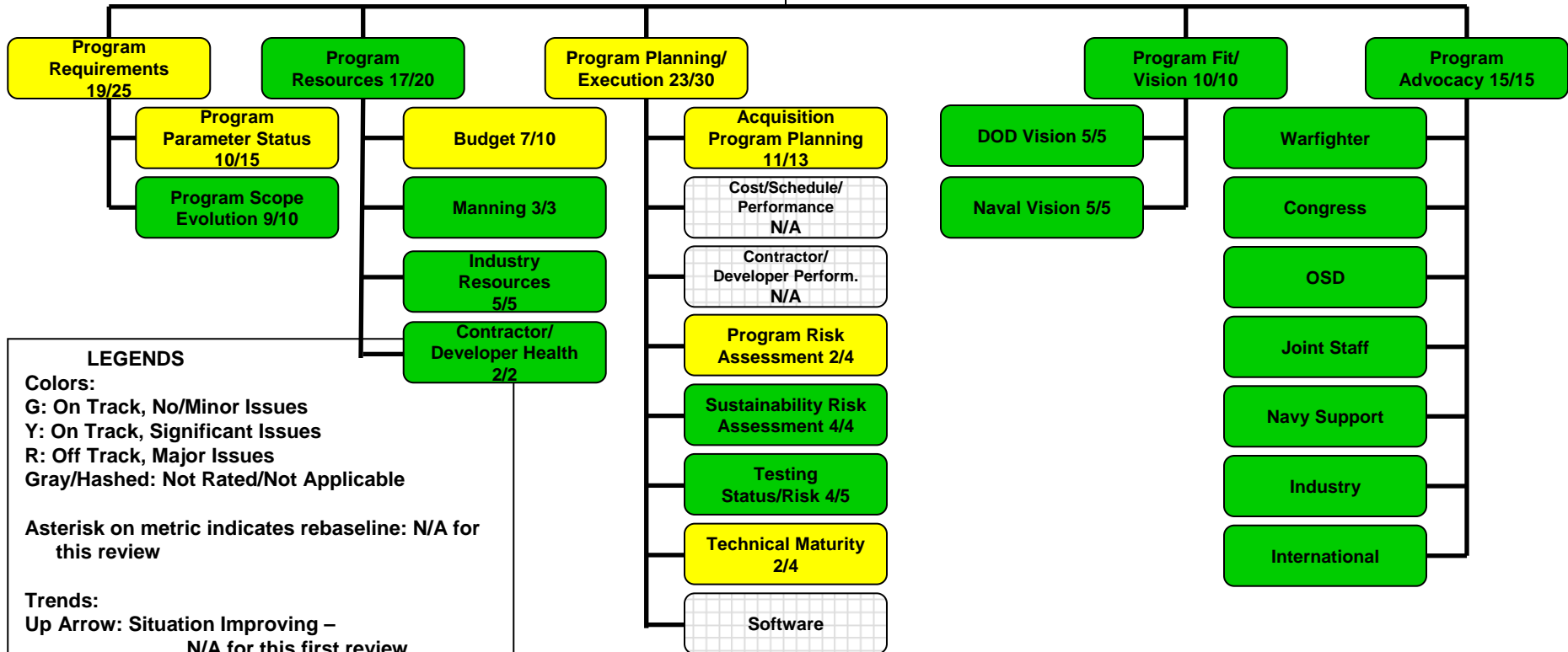
PASS 1 — PASS 2

OSD/JOINT LEVEL: JROC, CD, MS A**, JROC, MS B**, Annual CSB

NAVY/USMC LEVEL: SSAC, SDD

Gate	1	2	3	4	5	6
	ICD Approval	Alternative Selection	CDD and CONOPS Approval	SDS Approval	RFP Approval	Contract Award

CBA

Forum*:	R3B/MROC	R3B/MROC	R3B/MROC	R3B/MROC	R3B/MROC	R3B/MROC
Lead Org:	OPNAV/HQMC	OPNAV/HQMC	OPNAV/HQMC	ASN(RD&A)	ASN(RD&A)	ASN(RD&A)
Chair:	CNO (N8)/DC, CD&I	CNO/CMC	CNO/CMC	ASN(RD&A)	ASN(RD&A)	ASN(RD&A)

PEO/SYSCOM/ OPNAV/HQMC LEVEL: AOA, CONOPS CDD, Initial SDS, Updated SDS, RFP, IBR

 # Gate Review

** DON CIO pre-certification, Investment Review Board certification, and Defense Business System (DBS) Management Committee approval prior to obligation of funding for a DBS program when cost > $ 1 million

Program Health

ASN RDA Initiatives

- SECNAV Corporate Reviews
  - Executive Level Exchanges
  - Change In Business Culture

Questions

- Questions and Answers