Team Software Process Symposium 2009

Keynote Address

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> The Honorable Claude M. Bolton, Jr., DSC Executive In Residence Defense Acquisition University September 23, 2009

Trivia Question

Name the "King" who became President of the United States

(Hint: He was born in Nebraska)





The Answer

"KING" Gerald R. Ford

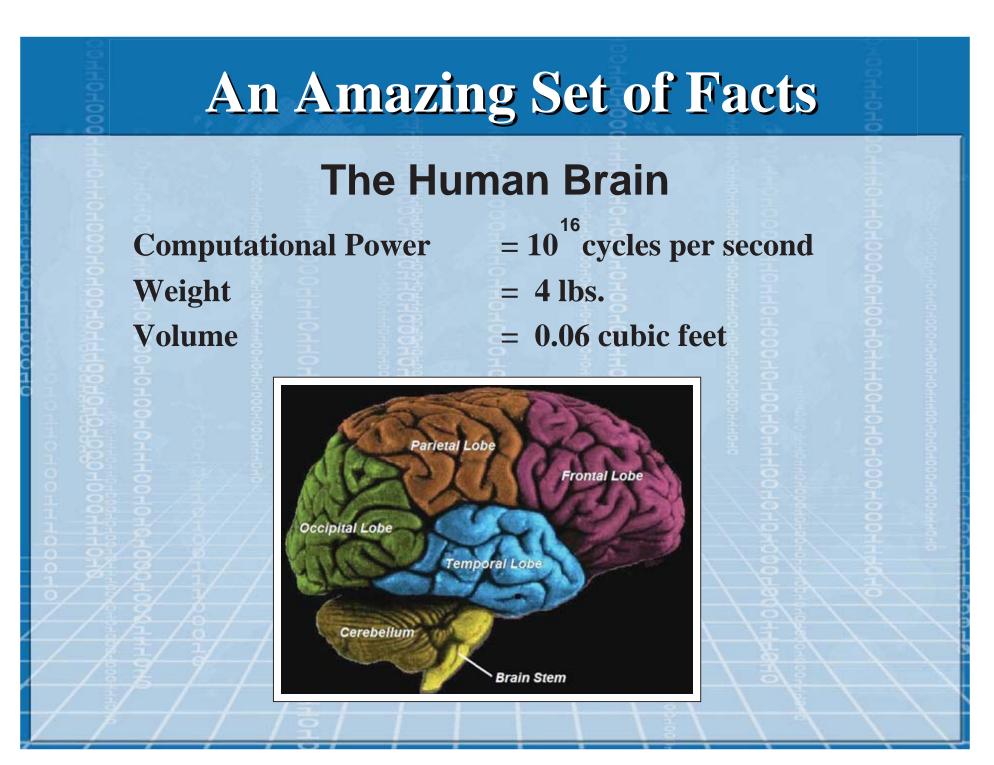
Adopted: original name - Leslie King



Trivia Question

When was the last time that Department of Defense spending was 2% of our Nation's Gross Domestic Product?

(Hint: Trick Question)



Trivia Question

How Many <u>Watts Of Power</u> Does The Human Brain Consume?



Trivia Answer

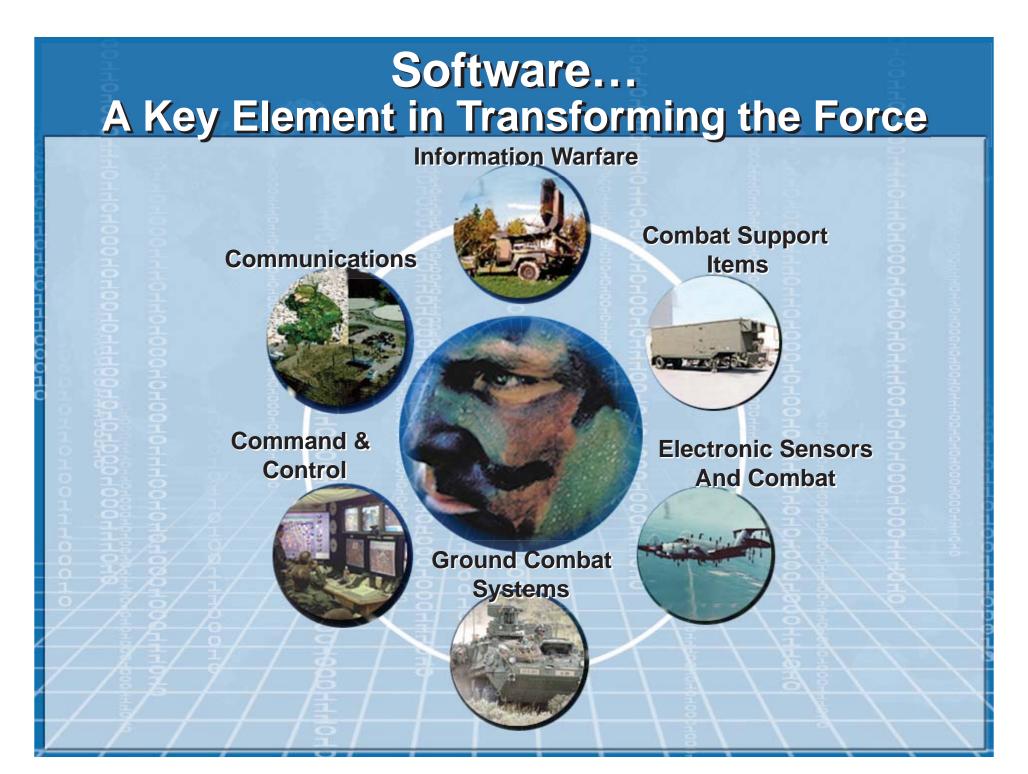
15 Watts

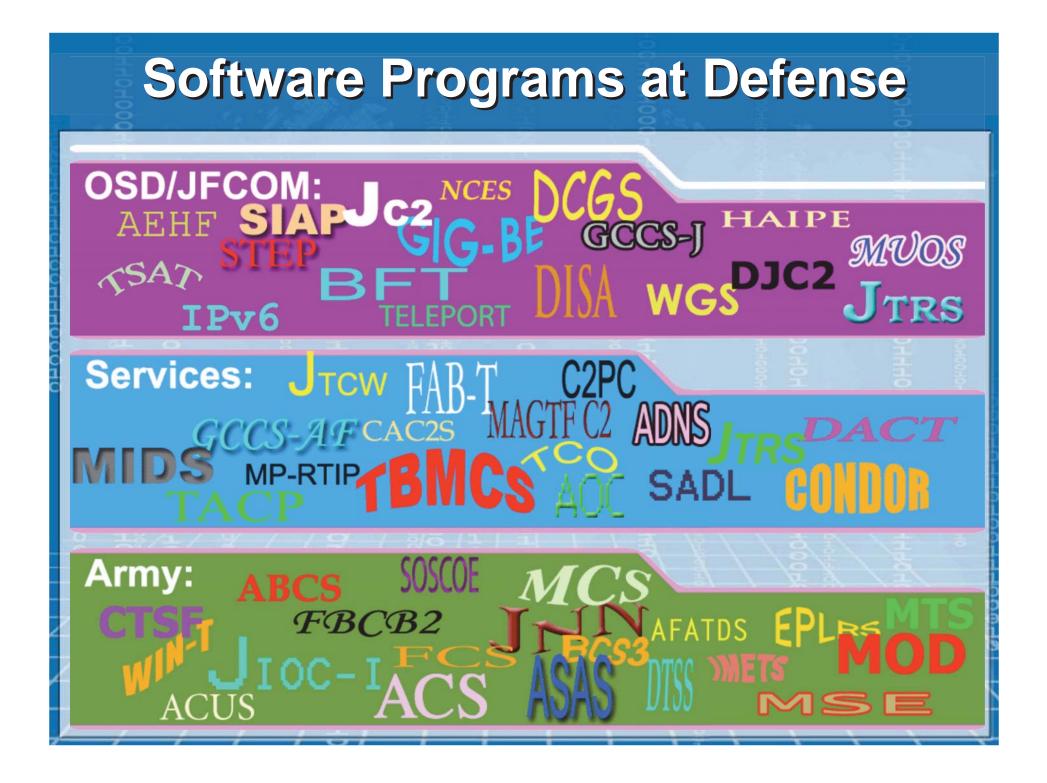
BluegeneIs The Most Powerful Supercomputer.Computational Power 10^{15} cycles per secondWeight=100,000 lbs.Volume=5000 cubic feet



Power Required = 2,000,000 Watts

(Data provided by Lawrence Livermore National Laboratory





Where Are We?

Progress Great Tools for the Soldier Good Lines of Code

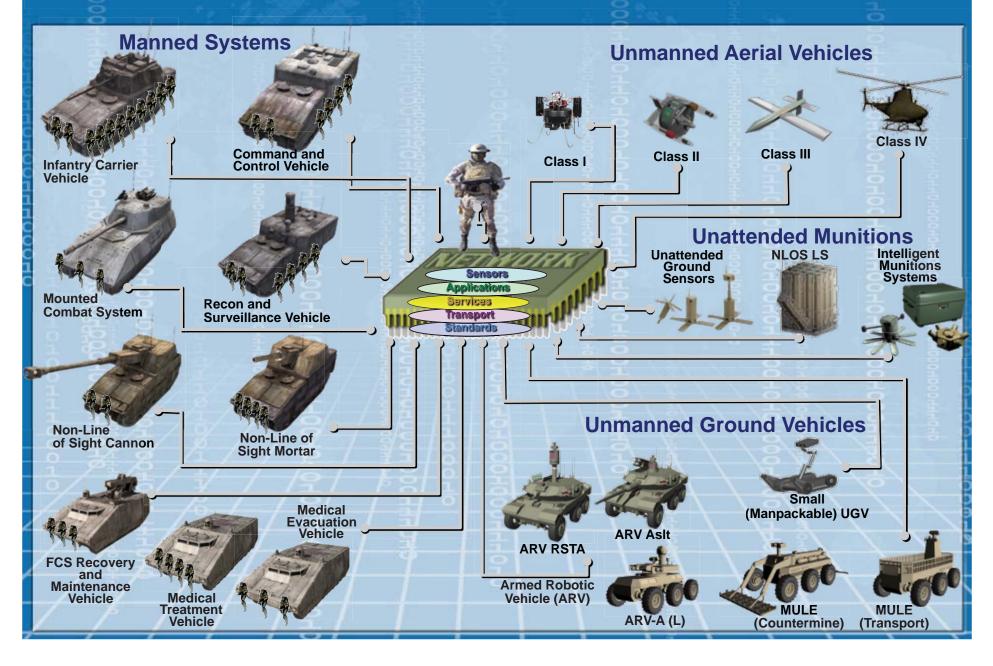
Challenges

Tools Becoming Antiquated
Difficult to Keep Pace with Technology

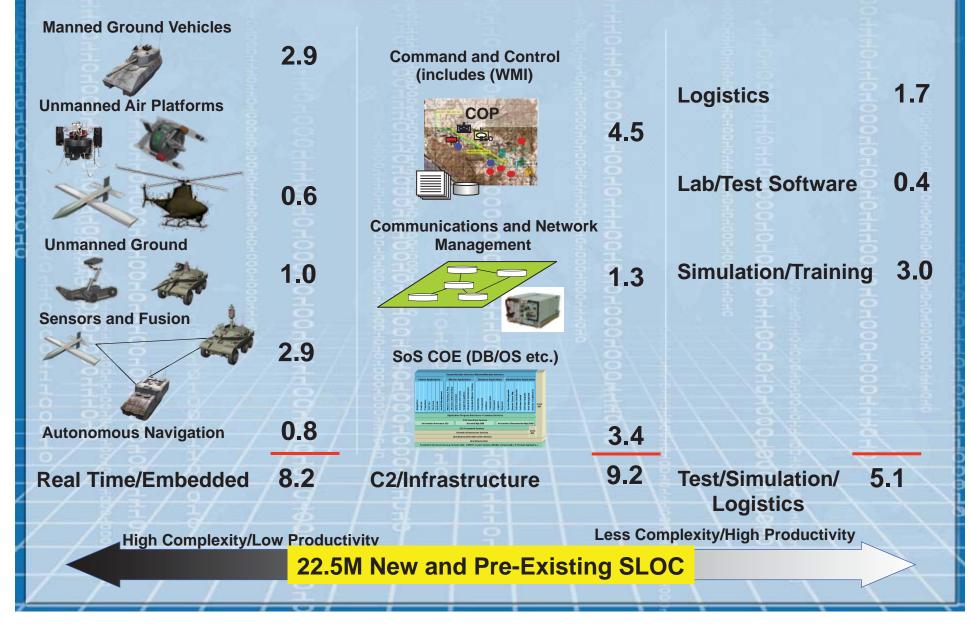
Where Do We Go From Here?

How Do We Make Software Development Light-Years Better, Faster and Cheaper With 10% of the People, Time and Money?

FCS (BCT) System-of-Systems



FCS Initial Software Breakdown



What Does The Future Hold?

How Do We Acquire and Manage a Billion Lines of Code?

Ultra-Large-Scale (ULS) Systems

- DoD systems of the future will be ULS Systems -"Billion Lines of Code Systems" and more ...
- Socio-Technical EcoSystems that are a mixture of people and technology in balance
 - New ways of thinking about such systems are needed
- The Army sponsored an SEI led multi-disciplinary team to search for answers beyond traditional engineering disciplines
 - The ULS Systems Research Agenda, completed 31 May 06, identified a roadmap for research necessary for meeting the Army's future

Products May Differ, But . . .

Management 101 is still Management 101!

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What Makes a Successful Program? The "3 Rs"

1. Requirements

2. Resources

3. Right People

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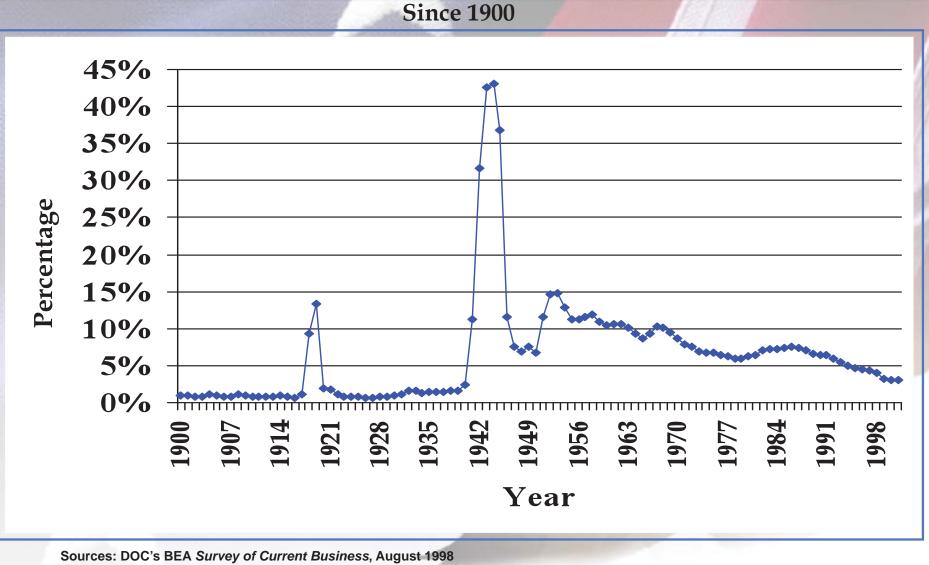
Trivia Question

When was the last time that Department of Defense spending was 2% of our Nation's Gross Domestic Product?

The Answer

Never; Previously known as Department of War and Gross National Product.

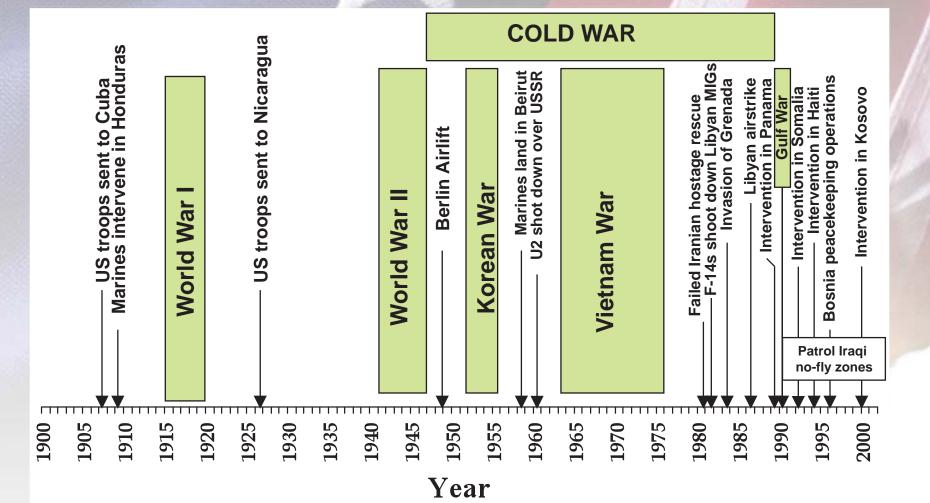
National Defense As Percentage of GNP/GDP



OUSD(C) National Defense Budget Estimates for FY2000 (projections)

Conflicts with U.S. Involvement

Since 1900



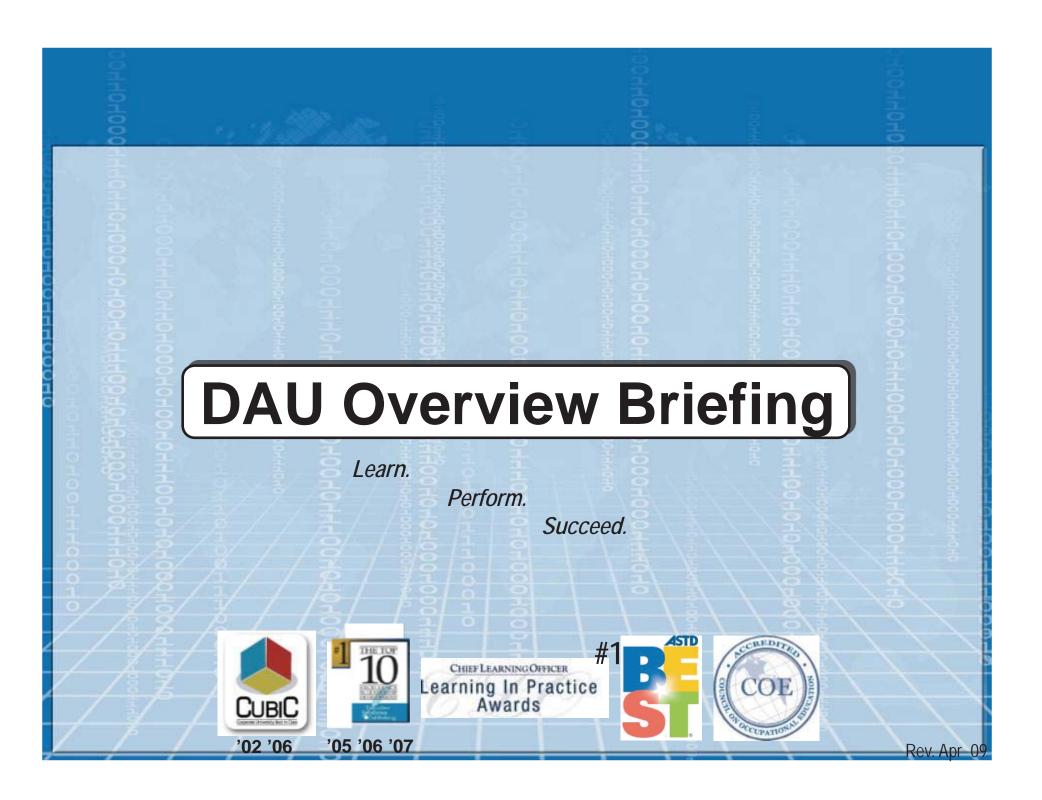
Question

How Do We Maintain A World Class Military On 2% GDP With A Hundred Years Of History Against Us?

Solution

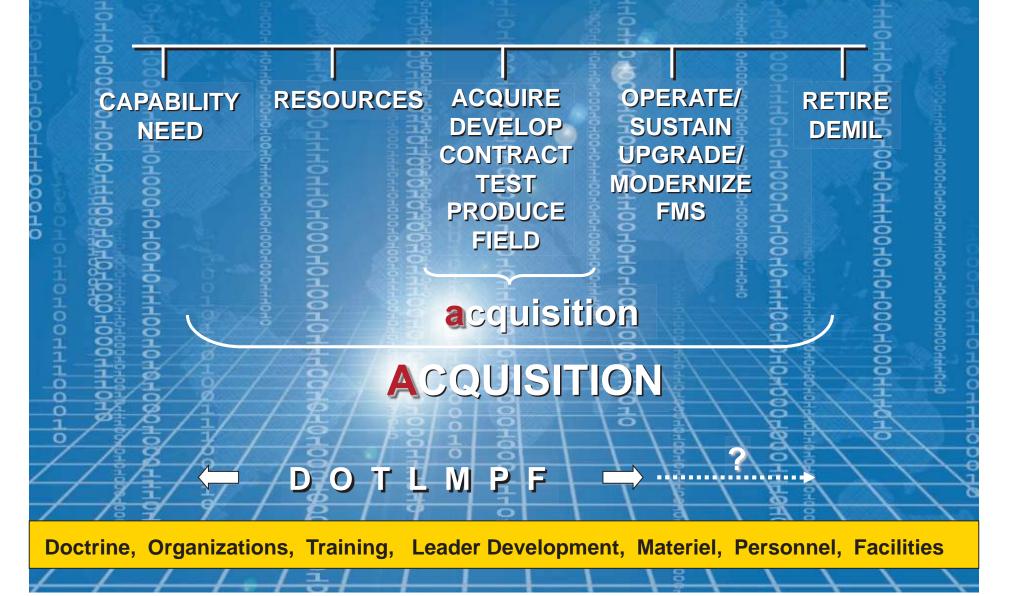
We must change the way DoD does business

a.k.a - Acquisition & Logistics Excellence ... Transformation



Improving the Acquisition Process **ACQUISITION REFORM** UTIONARY ACQUISITION TOC "Try Before DAWIA You Buy" TQM FASA Reengineering FARA CAIV 2-Levels Performance Based of Maintenance Contracting and Logistics TOCR ACQUISITION AN SIX SIGMA EXCELLENCE

"Big A – Little a" One Process – One Team



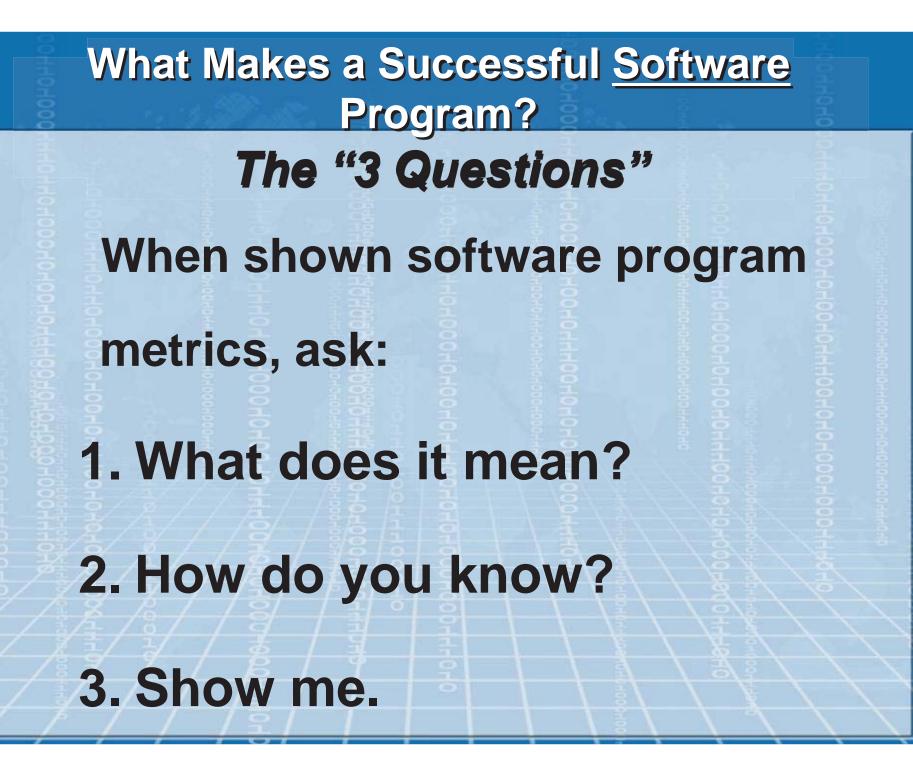
What Makes a Successful Program? The "3 Rs"

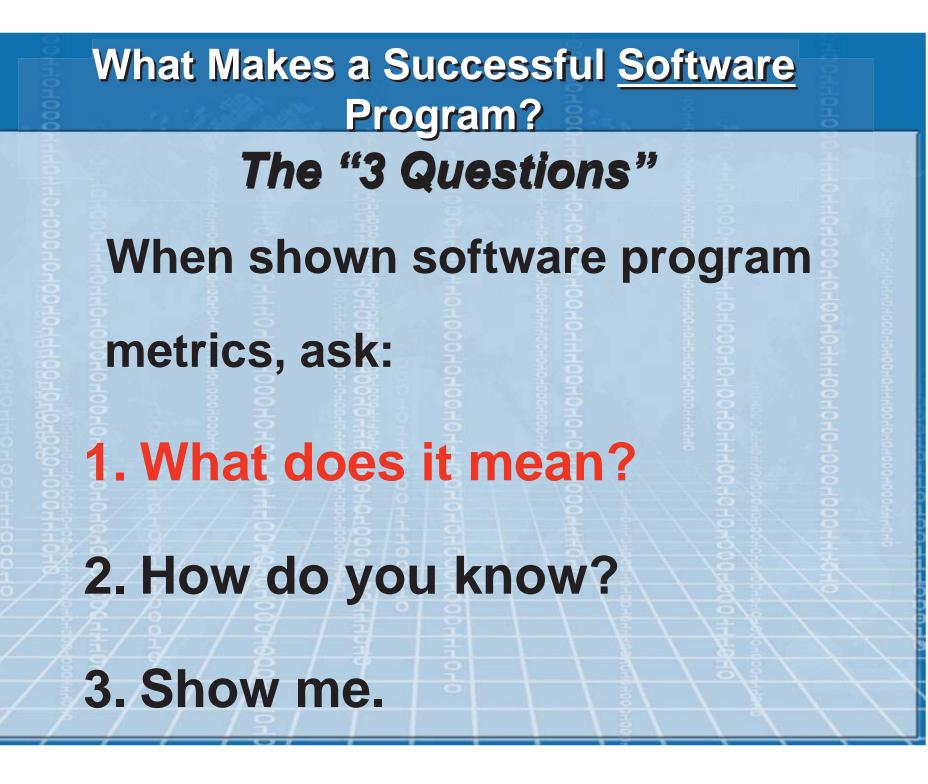
1. Requirements

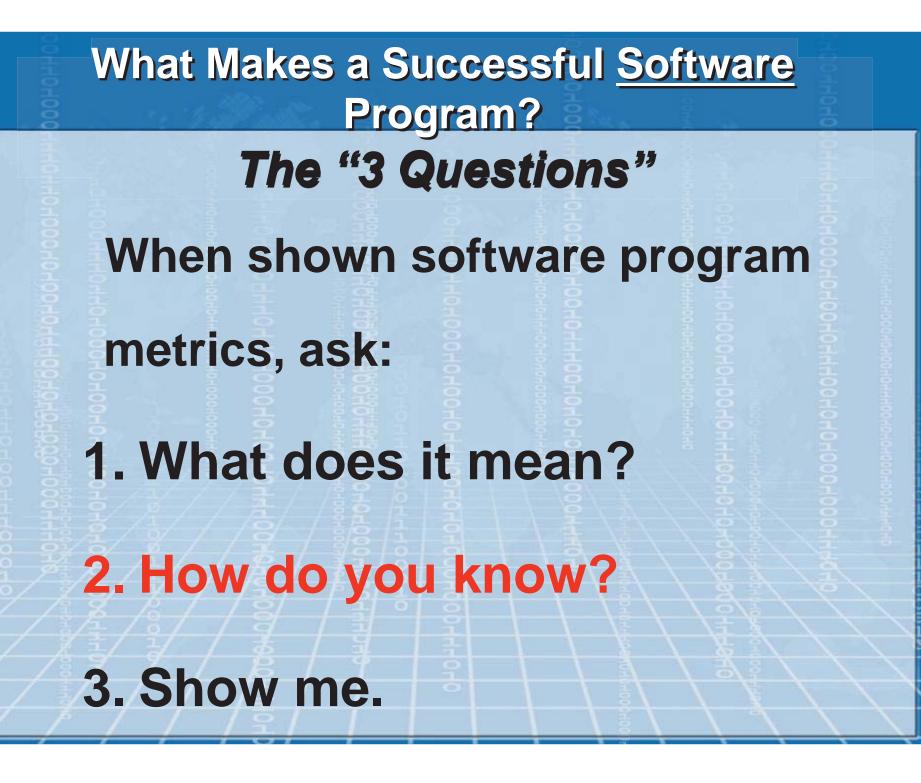
2. Resources

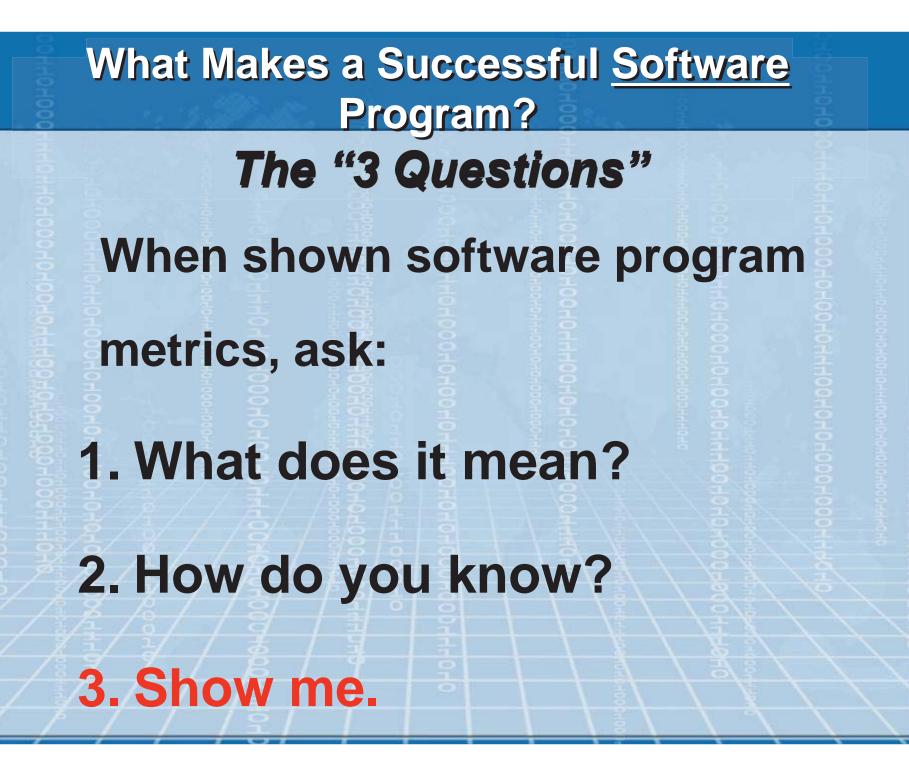
3. Right People

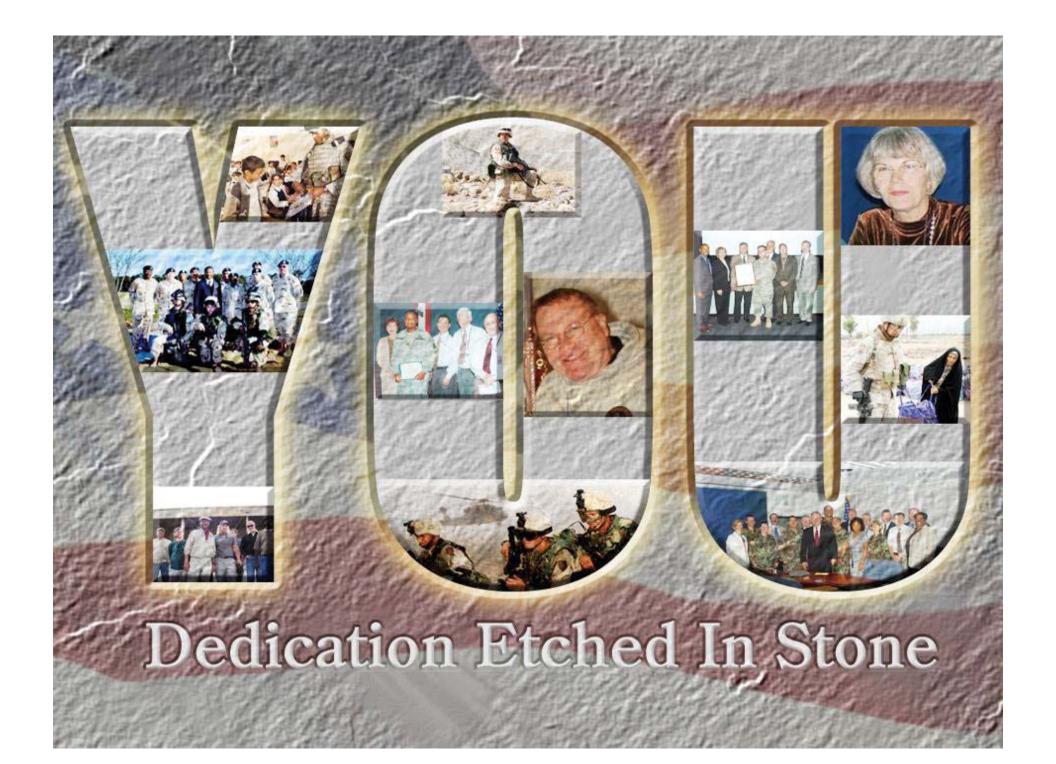
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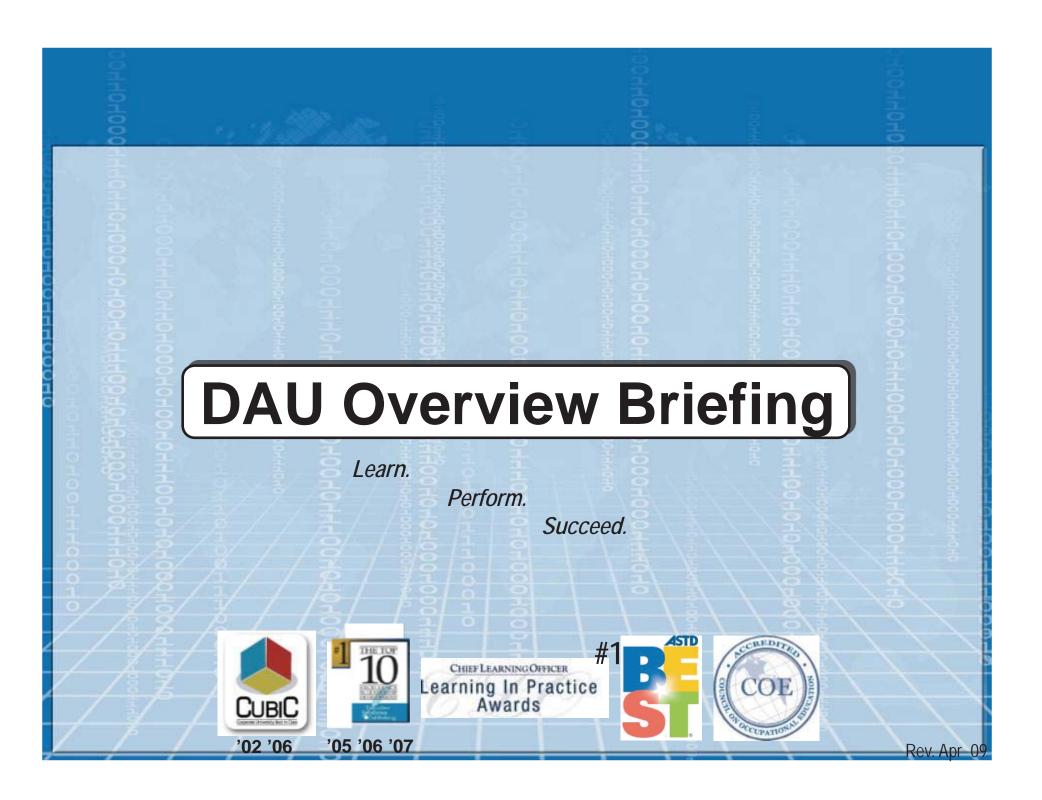


www.dau.mil

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claude.bolton@dau.mil

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DAU within the Department of Defense Secretary of Defense Hon. Robert Gates Defense Acquisition Workforce Acquisition Policy and Process Under Secretary of Defense (Acquisition, Technology & Logistics) Defense Agencies Deputy Under Secretary of Defense (Acquisition & Technology) AT&L Human Capital Initiatives **Defense-Wide Acquisition Training** SYSCOMs SYSCOMs SYSCOMs PEO PEO PEO Defense Acquisition University Frank Anderson, President Service-unique acquisition training Army Logistics Naval Air Force Management Postgraduate Institute of College School Technology

DAU Mission

Provide practitioner training, career management, & services to enable the AT&L community to make smart business decisions and deliver timely and affordable capabilities to the warfighter.

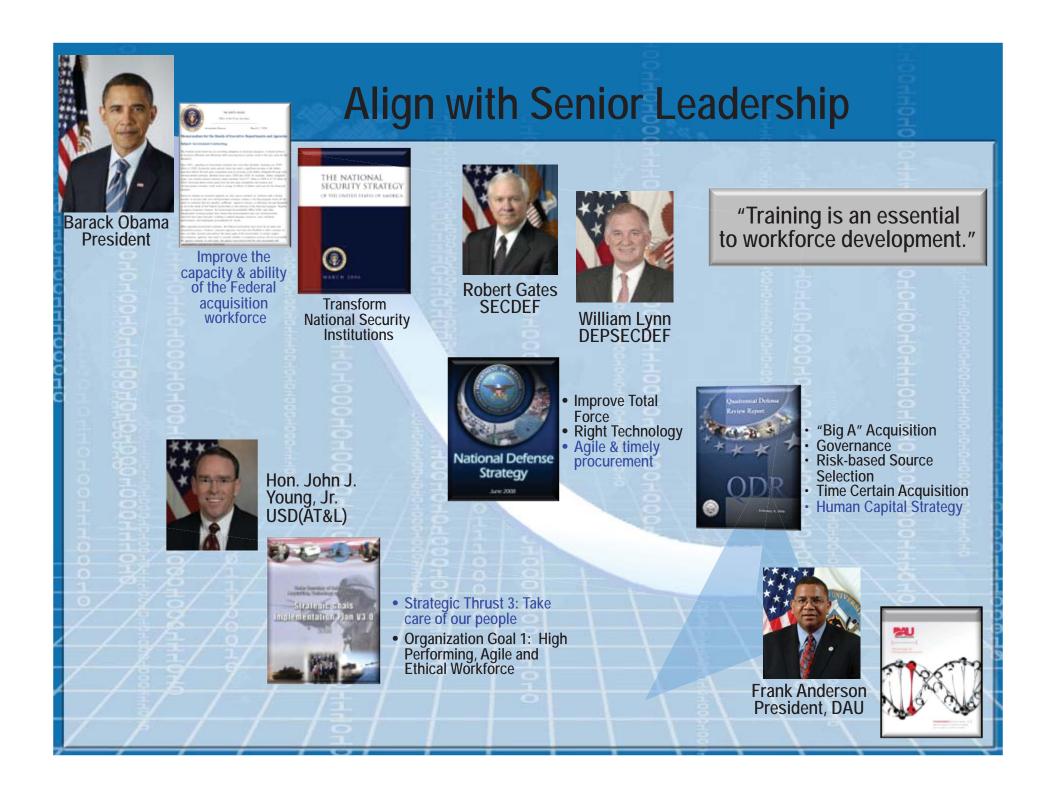
> *"This truck saved my life as well as 5 others 2 Apr 08 at 2300L in Basrah (Iraq)"*

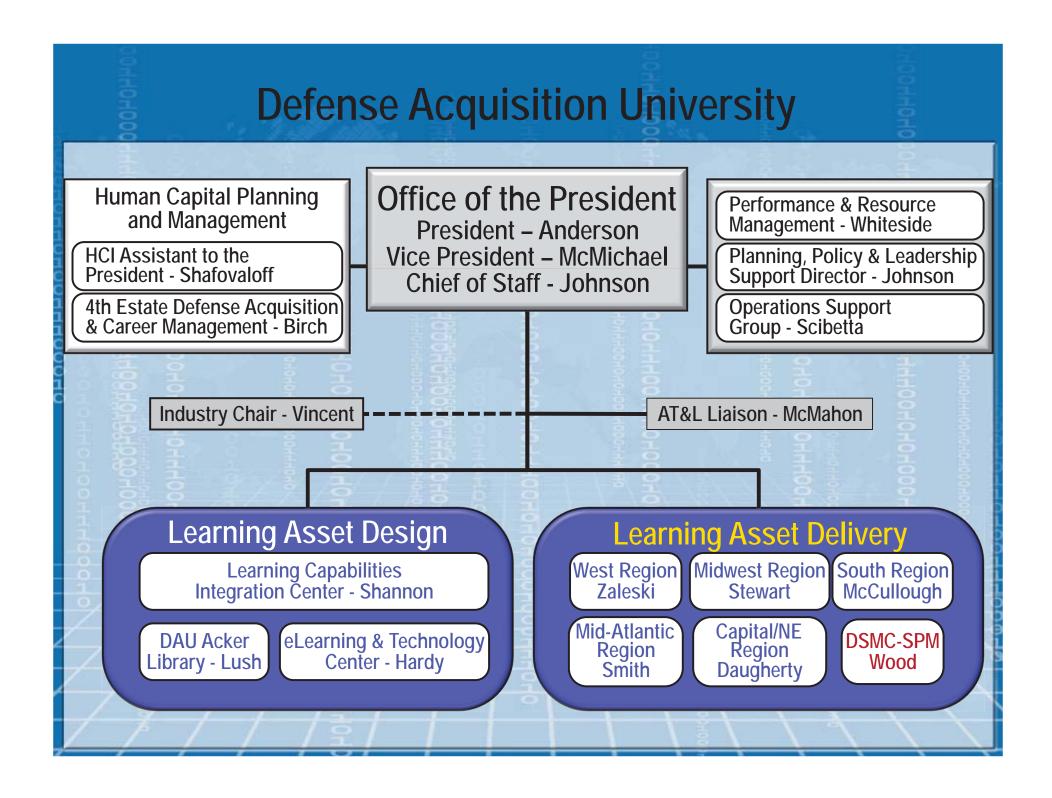
We Help the Defense Acquisition Workforce: Learn...Perform...Succeed

Defense Acquisition

Workforce

Career Fields	ARMY	NAVY/USMC	AIR FORCE	4th Estate	TOTAL
Auditing	0	0	0	3,638	3,638
Business, Cost Est., & Fin. Mgt	3,350	1,935	1,530	270	7,085
Contracting	7,714	5,245	6,834	5,887	25,680
Facilities Engineering	988	3,902	6	24	4,920
Industrial/Contract Property Mgt	99	62	26	264	451
Information Technology	1,764	903	950	317	3,934
Life Cycle Logistics	7,134	4,355	1,727	145	13,361
Production, Quality & Manufacturing	1,952	2,005	383	4,798	9,138
Program Management	3,690	4,085	4,105	901	12,781
Purchasing	319	545	142	190	1,196
SPRDE - S&T Manager	143	191	43	103	480
SPRDE - Systems Engineering	10,740	16,576	6,429	756	34,501
SPRDE - Program System Engineer	29	3 0 \		37	36
Test and Evaluation	2,135	2,476	2,622	187	7,420
Other / Unknown	212	768	30	230	1,258
Total	40,269	43,066	24,827	17,717	125,8 <mark>7</mark> 9
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AT&L Performance Learning Model

Knowledge Sharing

AKSS - Online access to acquisition regulations & tools ACC - Online collaborative communities

Virtual Library - Online Connection to DAU research collection

Continuous Learning CL Modules - Online, self-paced modules learning modules Conferences - PEO / SYSCOM, Business Managers, DAU Acquisition Community Symposium



Training Courses Classroom & online DAWIA Core, Core Plus, & Executive

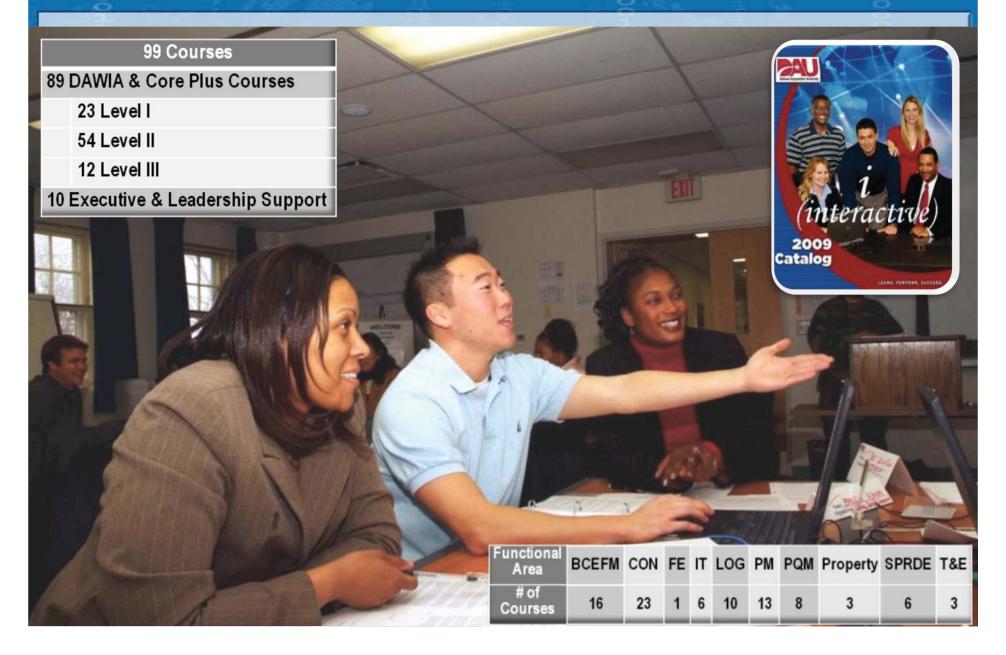
Performance Support

Consulting - Helping organizations solve complex acquisition problems Targeted Training - Tailored organizational training

Rapid Deployment Training - Onsite and online training on the latest AT&L policies

24/7 Learning Assets for the Classroom and the Workplace

DAU Formal Training Courses



Validation of DAU Learning Assets



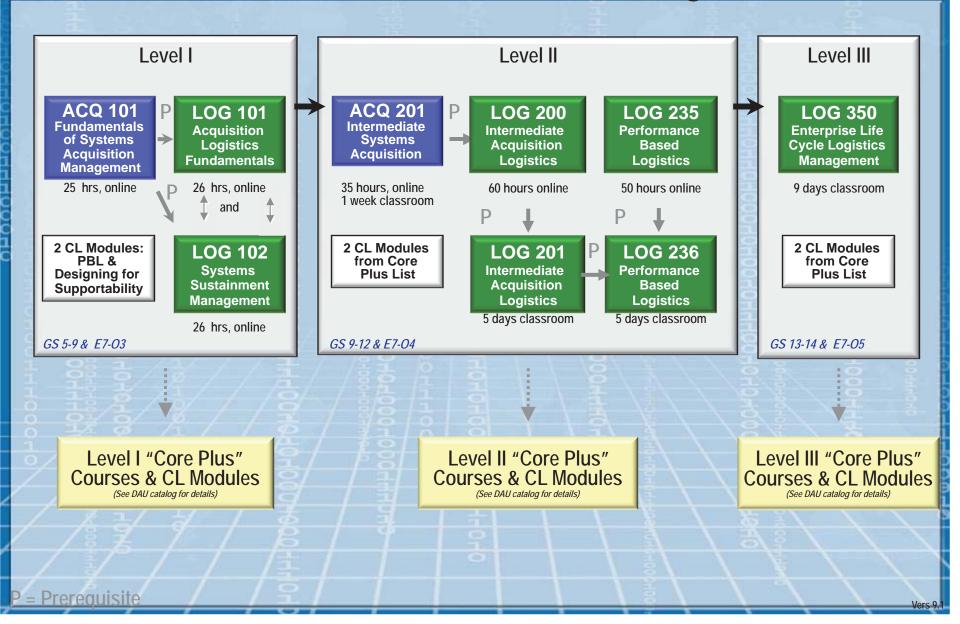
Council on **Occupational Education** American Council on Education

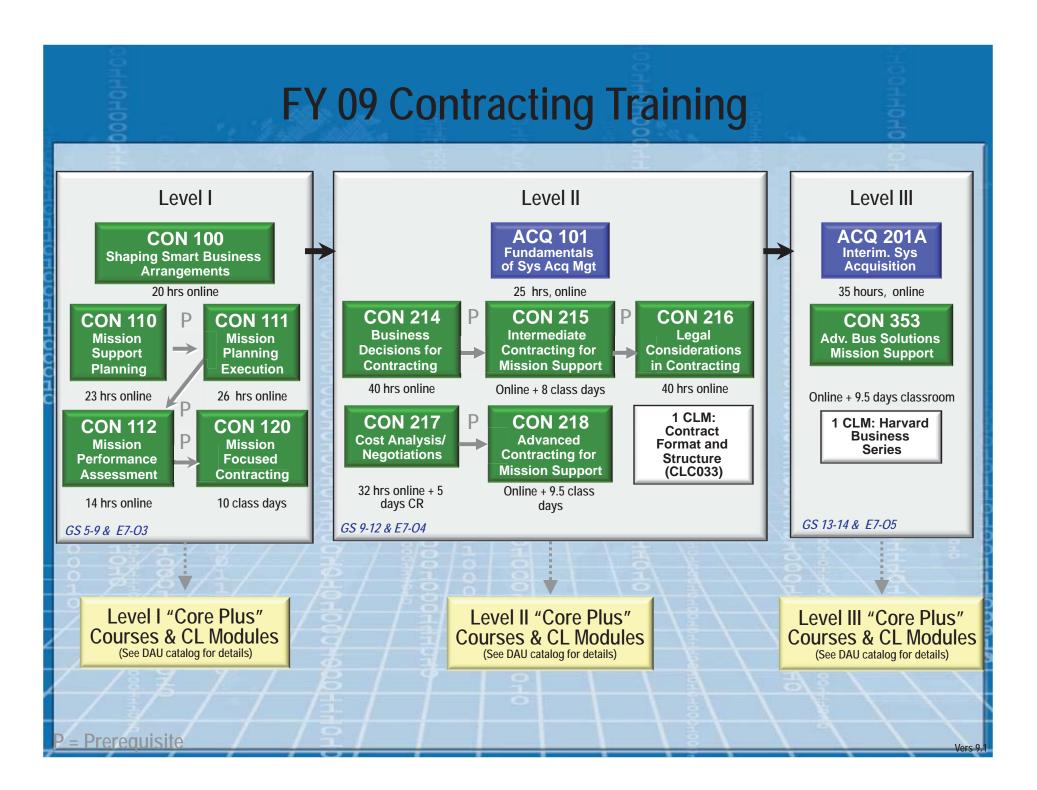
International Association for Continuing Education and Training Six year re-affirmation of Accreditation Unprecedented three commendations

College Credit Recommendations for Training Courses

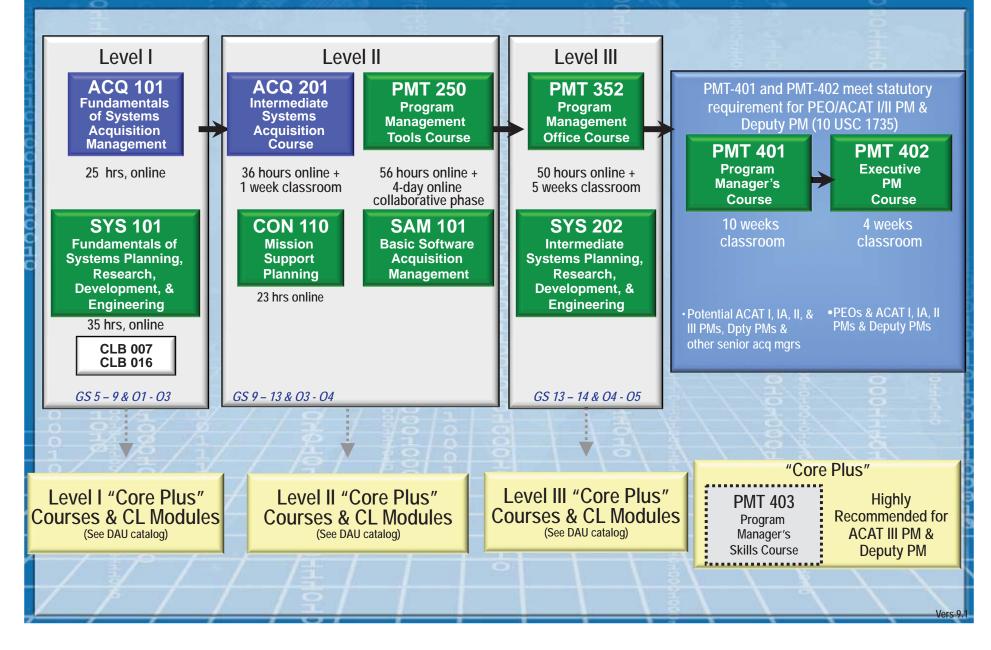
Continuing Education Units (CEU) awarded for Training Courses

FY09 Life Cycle Logistics Certification Training

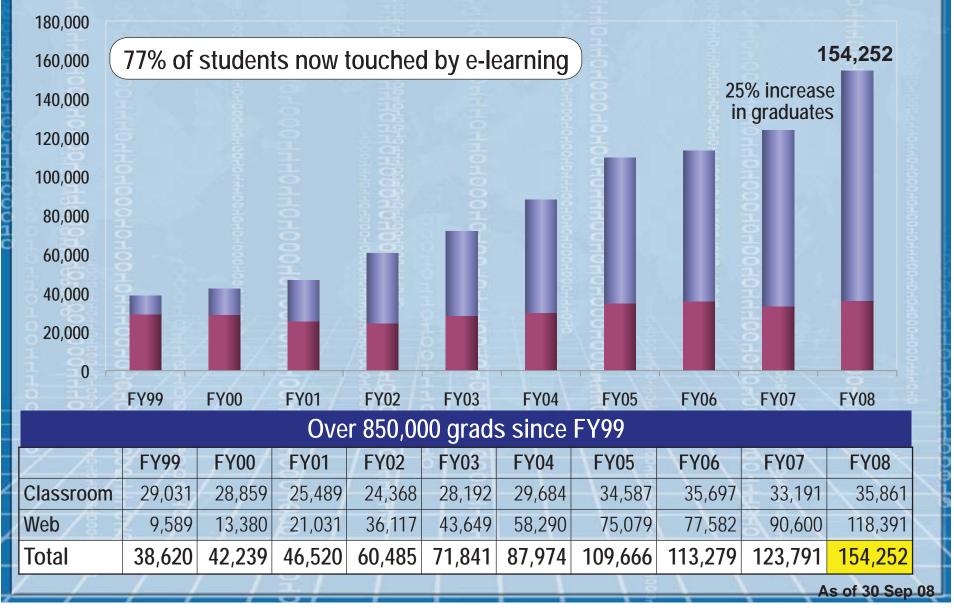




FY 09 Program Management Training



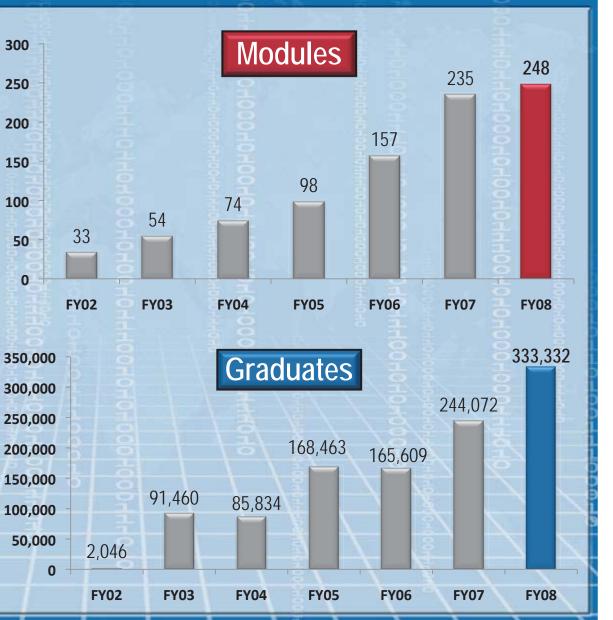
Training Courses: Reaching the Workforce



FY08 Performance Support Example Efforts Hours Consulting MDAP Start up Workshop 31,016 180 Targeted Training 384,138 DAEOW 196 Rapid Deployment Training 11 DoDI 5000.02 4,350 Logistics Life C Acquisition, Technology, J **Action Learning in the Workplace**

Continuous Learning Center Growth

Module Type	Count		
Business	14		
Contracting	57		
Engineering & Technology	28		
Government Purchase Card	3		
International 6			
Logistics	25		
Acquisition Management & 30 Program Management			
Standard Procurement 2			
Harvard Business Modules	83		
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Browse for content or enroll to earn CLPs			
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As of 30 Sep 08

Acquisition Skills & Knowledge Sustainment

Acquisition Knowledge Management System

AT&L Knowledge Sharing System

- Searchable regulations & policies
 Ask-a-Professor
- •Online workplace support tools –Integrated Framework Chart
 - -Defense Acquisition Guidebook (DAG)

AKSS Statistics	FY08
Weekly AKSS Avg Visits	23,915
Contact Hours	429,351
Page Views	74M
DAG Visits	708,862

Acquisition Community Connection Where the DoD AT&L Workforce Meets to Share Knowledge

- Functional Communities of Practice
- Special Interest Areas
- Collaborative environment connecting field practitioners and policy experts

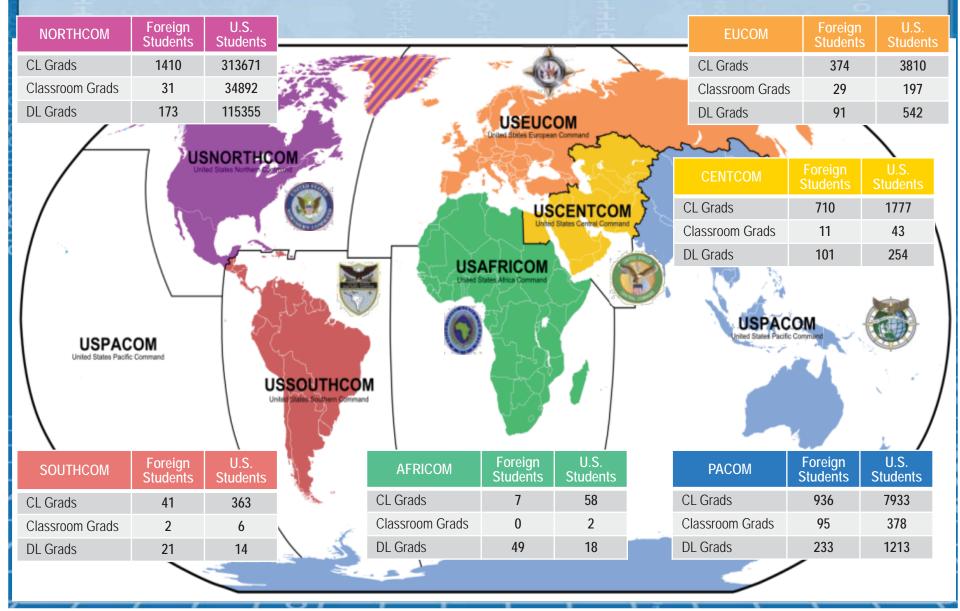
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ACC Statistics	FY08
Registered Users	53,942
Contact Hours	248,645
Knowledge Contributions	57,095
Page Views	36.7M

Applied Research Program



- Research is an underpinning of the Performance Learning Model -- used to develop knowledge assets
 - -Curricula
 - -Guidebooks
 - -Performance Support
 - -Communities of Practice
- Policy research to support AT&L priorities & initiatives
- Defense Acquisition Review Journal
 - -Captures acquisition research, lessons learned/best practices, tutorials, expert opinion
 - -Each issue is theme based. Examples:
 - "LEAN"
 - Performance Based Acquisition
 - Communities of Practice
 - System of Systems Acquisition

Global Reach to Support Combatant Commands





Impact: Saves time, tuition assistance dollars and out of pocket expenses

