

THE VALUE OF PERFORMANCE.
NORTHROP GRUMMAN

Northrop Grumman Corporation

Overview Slides

Updated: 2/10/14

Northrop Grumman Today



- Leading global security company
- \$24.7 billion sales in 2013
- \$37 billion total backlog
- Leading capabilities in:
 - Unmanned Systems
 - Cyber
 - C4ISR
 - Logistics



Focus on Performance

Four Operating Sectors at a Glance

Aerospace Systems



**Airborne Ground
Surveillance / C2**

C4ISR

Directed Energy Systems

**Electronic Combat
Operations**

**Environmental & Space
Science Satellite Systems**

**Global / Theater Strike
Systems**

ISR Satellite Systems

**Large Scale Systems
Integration**

MILSATCOM Systems

**Missile Defense Satellite
Systems**

Naval BMC2

Strategic Space Systems

Unmanned Systems

Electronic Systems



Air Defense Systems

C4ISR Networked Systems

**EO/IR Targeting &
Surveillance**

Marine & Undersea Systems

**Navigation & Positioning
Systems**

**Propulsion & Power
Generation**

Radar Sensors & Systems

RF/IR Countermeasures

Space Sensors

Information Systems



**Command & Control
Systems**

Communications

Cyber

**Enterprise Systems
and Security**

**Federal, State/Local
& Commercial**

Health IT

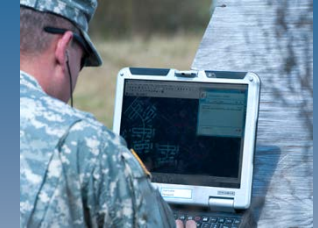
Homeland Security

Intelligence

**Intelligence, Surveillance &
Reconnaissance Systems**

IT/Network Outsourcing

Technical Services



**Aircraft
Subsystem/Component
Sustainment & Modernization**

**Aircraft System/Platform
Sustainment & Modernization**

**Defense and Government
Services**

**Ground Vehicle
Reconstitution**

**Integrated Logistics and
Modernization**

**Irregular Warfare/Quick
Reaction Capability**

**Live, Virtual and Constructive
Domains**

Nuclear Security Services

**Technical and
Operational Training Support**

Training Solutions



- Strong Focus On Values and Performance
 - Leadership And Ethics
 - Program Performance And Customer Satisfaction
 - Affordable Cost Structure And Innovation
 - Engaged Work Force
- \$10 Billion Sales 2012
- Systems Prime
 - Unmanned Autonomous Systems
 - Manned Weapon Systems
 - Space (National, Military, and Civil)
 - Laser Systems
- 22,000 Employees

18 Years of Knowledge Management Solutions

1995

2000

2010

2014

1st Company Wide KM Summit

Engineering Skills Mgmt

Corp KM Council

APOC Benchmark Studies

1st Division Level KM Team

Manager CoP

Program Learning Process

Systems Thinking Integration

People Solutions



Tools Solutions



Xref

Livelinek

1st Community of Practice

PeopleNet

How do I

Share Center & Search Engine

Lessons Management System

Sentinel Knowledge and Talent Utilization

Pockets of People Interested in KM



Formal KM Teams



Many Leading: In the Language and Thinking of Leadership

Change Leaders

Change Drivers



Consolidation



Integration



Workforce Demographics



Technology



Affordability

Challenges

- Collaboration
 - Solving problems
 - Applying the knowledge of the company
 - Building people to people networks

- Affordability and Innovation
 - Doing more without more - game changing solutions
 - Lowest price, technically acceptable

- Performance
 - Deliver as promised on cost, schedule and quality
 - Don't be a lame duck in a declining defense budget environment

Program Learning Process

- Process emphasizes **program events – big and small:**
 - Before: **working lessons review/application into formal processes** (example: FRR checklist)
 - **Relevant lessons are applied before/during event**
 - After: **new lessons are discussed** and drafted in the [LMS](#), a sector tool
 - After: **program approves lessons** for technical accuracy & publishes
 - **Complete loop: lessons are shared within and between programs for review/application before next event**

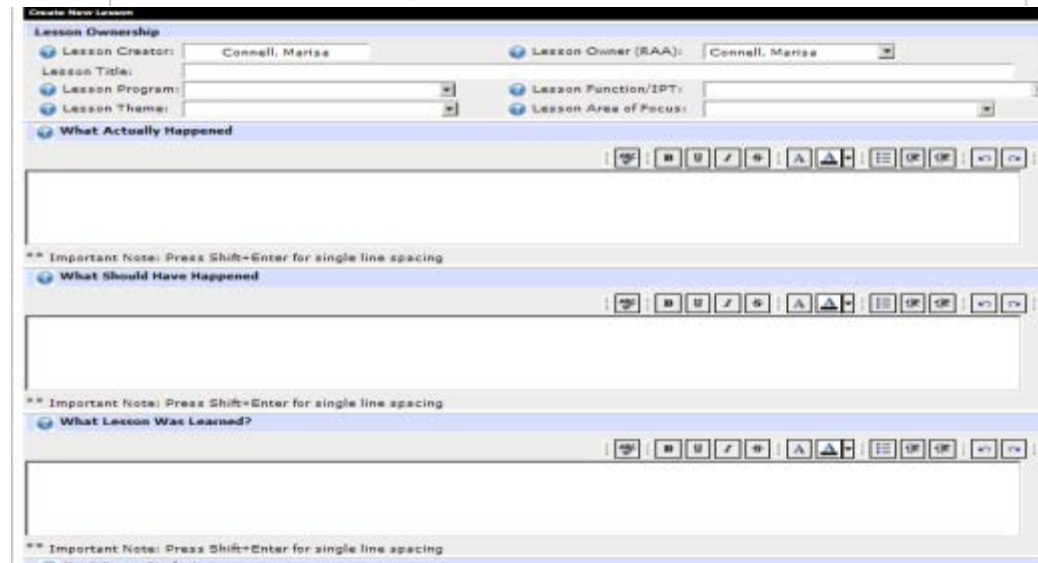
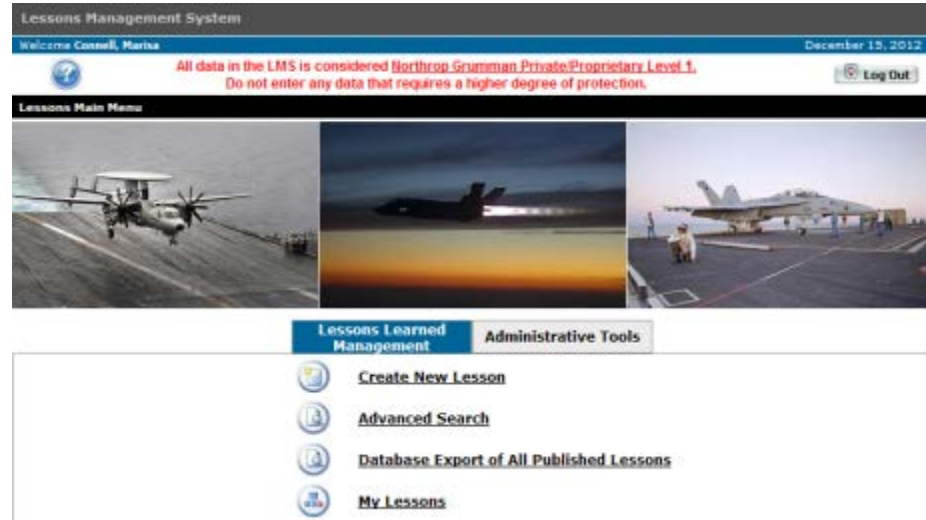


Continuous loop of learning from experience

- Expanded implementation (moving from hundreds of users to thousands)
- Continued support for embedded, effective program (product line) learning
- Adopting the Program Learning Process as the organization's standard for learning
 - Goal: provide practical guidelines as well as underlying philosophy for the Program Learning Process
 - Concise, user-friendly
 - Steps to embed the process in any program
 - Define roles and responsibilities
 - ***Provide definitive guide for how NGAS learns***

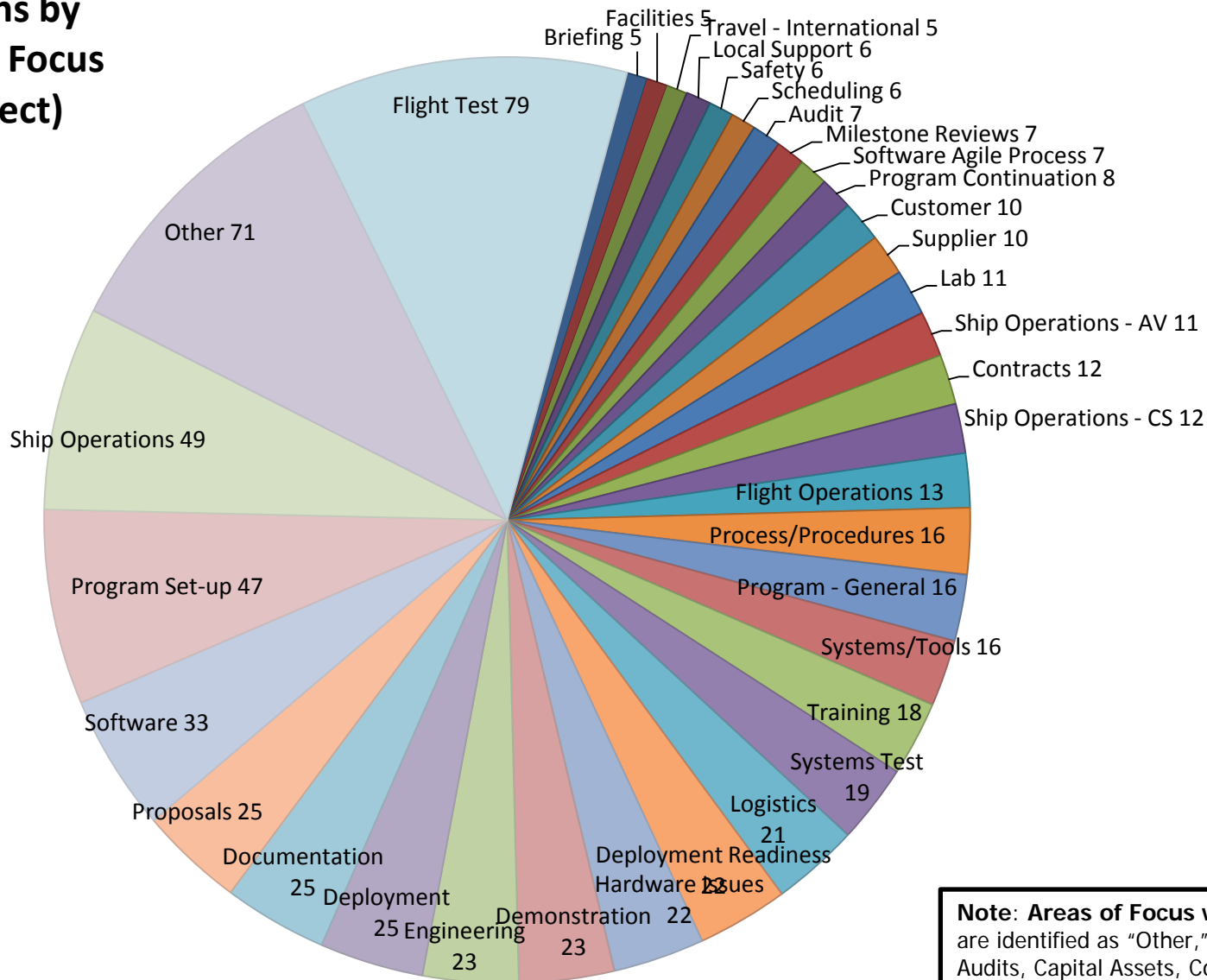
The LMS Resource: Sharing lessons and best practices

- The Intranet-based Lessons Management System (LMS) is a sector standard tool that allows users from any program to **search, review & add lessons independently** in addition to in formal reviews
- Since 2010, over **700 lessons** have been published
- All lessons are searchable by **Program**, global **Theme**, more specific **Area of Focus**, **Keyword**, and more
- Anyone can draft a lesson
 - Lessons are reviewed for accuracy by program-specific Lesson Review Boards (LRBs) and then published



Who would find the LMS useful?

Lessons by Area of Focus (subject)



Note: Areas of Focus with fewer than 5 lessons are identified as "Other," including: Affordability, Audits, Capital Assets, Cost Management, COMSEC, Program Planning, Pricing, Risk Management, Safety, Scheduling, and Systems Test.

Getting started: Implementing Program Learning

1. Assign a point person: someone with a program-wide perspective and an ability to facilitate.
2. Discuss the process with your team & identify opportunities for Take 60s.
3. Facilitate Take 60s. (Use your point person as a facilitator.) Most learning occurs there but also document lessons in a user-friendly, easily accessible database.
4. Use the lessons database a resource when initiating a new project or event. Provide database exports to team leads for application before review. What have other people learned that would help you?
5. Continue to identify upcoming opportunities for Take 60s and lesson review/application.
6. Learn!

Help your team perform:
Pause to think, discuss, learn & apply