#### **Range Sustainment**

# Enterprise Range Information Systems: Building the Foundation for a DoD Range Enterprise



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# Agenda



# The Range Information Enterprise Initiative

- Context
- Vision
- Enterprise Analysis
- Way-Ahead
  - Enterprise Architecture and Plan Development
- Summary

# Context: Sustainable Ranges





# Concept



- The DoD Training Transformation and Range Sustainment requires planned transformation initiatives that promote:
  - Documenting range business process functional areas
  - Cross-Service sharing of training and testing resources and best practices
  - System interoperability and information sharing
  - Creation of highly dynamic systems that directly support range training and testing business needs



Comprehensive, Interoperable, and Networked...

# **Range Functional Areas**



- Range Safety
- Range Inventory, Capacity, and Capability Management
- Encroachment Management
- Land Use and Buffer Zone Management
- Training and Testing Requirements
- Range Scheduling
- Public Involvement
- Environmental Planning
- Range Investments
- Sustainable Range Planning and Management
- Operations Planning and Logistics
- Facilities Management

#### **Cross-Functional Capabilities**

- Geographic Information Systems
- Range Database Capabilities
- Management Query and Decision Tools



#### Where Range Information System Functional Areas Occur



# **Data Gathering and Analysis**

- 32 Systems across the services were identified
- 17 systems identified by the WIPT Points of Contact across the services were reviewed:



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## Enterprise Analysis: What we learned...



- Range information systems across the services represent varied levels of maturity
- Where range missions are similar, there are similar information needs
- Where the range missions differ, there are common issues being faced:
  - Encroachment
  - Environmental Planning
  - Range Scheduling
  - Range Inventory, Capacity, and Capabilities
  - Range Use



The functional areas offer opportunities for systems convergence and improved enterprise solutions

# **Enterprise Analysis: Range Information Systems Best Practices**



### Cross-Service cooperation

- Joint Service development of range information systems to meet common mission requirements
  - Example: Range Facility Management Support System (RFMSS) and Range Managers Toolkit (RMTK)

# Enterprise-level system planning

- Enterprise approach to range information development that flows from the range management and operations requirements
  - Example: Navy Tactical Training Theater Assessment and Planning Repository (TAPR) and Environmental Information Management System (EIMS)

## Standards-based modular development

- Range information systems development with modular style architecture based on industry standards
  - Example: Center Scheduling Enterprise (CSE)

# System development working groups

- Establishing executive and working group teams comprised of subject matter experts and stakeholders to plan and manage Service information system efforts and support system development
  - Example: Range Facility Management Support System (RFMSS)

# **Range Enterprise Plan**



# Range Enterprise Planning

- Four-Service approach
- Stakeholders from all levels of the range community

# Range Information Systems Baseline

- A living document
- Updated annually
- Inventory of range information systems and capabilities

# Requirements Analysis

- Identify new and existing requirements for information sharing
- Highlight any requirements not currently being addressed

# Architecture Descriptions

- Composed of three phases
  - Current State Architecture
  - Future State Architecture
  - Gap Analysis and Transition Plan

# A Range Enterprise Architecture would...



- Describe the operational and systems elements of DoD's training and testing range business, including —
  - An architecture for common and interoperable range business practices and information systems
  - Range operational and information requirements and current capabilities using a collaborative, four-Service approach
  - Range issues in relation to Business Transformation and Training Transformation efforts
  - A transformation plan for improving range business processes and increasing the flow of information vertically and horizontally in the Department

#### Benefits

 Streamlines business processes, data, and systems across the four services to improve the use of training and testing resources and reduce the costs associated with range-related activities

# All Views Product (AV-1 Draft)



- The All Views (AV-1) product provides the architecture's scope and acts as a guide throughout the architecture's development:
  - Establishes mission and vision for Range Enterprise Architecture
  - Develops overarching goals and objectives
  - Provides the architecture's viewpoint
  - Stakeholders and organizations inside and outside of the training and testing community
  - Identifies key questions and issues the architecture will address

# **Operational View Product (OV-1 Draft)**





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# Summary



- Range Sustainment and Training Transformation initiatives require:
  - Comprehensive, multi-disciplinary approach
  - Common, compatible, and interoperable business processes and systems to support common training and testing requirements

#### To accomplish this we need to:

- Create an enterprise framework that supports the creation of an architecture supporting the development of common and interoperable range business practices and information systems
- Encourage Service management of range information system capabilities and investments to meet mission requirements and promote information exchange horizontally and vertically throughout the enterprise