## DHS SCIENCE AND TECHNOLOGY

## TSA – S&T Consolidated Technology Roadmap Development







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Science and Technology

# **Consolidated Technology Roadmap Development Goals**



#### Kecurity Recurity



### Strategy

- Develop a consensus on technology needs
- Align development and acquisition strategies
- Prioritize and target technology development

## Acceleration

- Identify pilot and technology transition opportunities
- Identify R&D dependencies

## Efficiency

- Identify areas that are under- or over- invested
- Optimize resource allocation
- Coordinate investment & transition (TSA and S&T)
- Eliminate duplications

# Development Process for Consolidated TSA and S&T Technology Roadmap







# **Evolution of Roadmap To Date**





Security

### Accessible Property Screening (APS) Capability Maturation Roadmap



CAPABILITIES ANALYSIS



(\*) Pre-Planned Capability Improvements to APS are enhancements to the solution beyond the intended solution performance envelope required to achieve FOC

Administration

### Accessible Property Screening (APS) Consolidated Technology Roadmap

Phase 1 (CPSS Increment 1) Phase 1 of the APS Capability Maturation Roadmap will provide a foundation for future enhancements in threat detection and throughput efficiency. The underlying activities include the **development, demonstration, and refinement** of IOC solution capabilities in alignment with CPSS acquisition increment 1.



# **Benefits of the Consolidated Roadmap**

- Capture the current state, not correct it
- Enable alignment of acquisition strategy to technology maturity
- Enable CM to identify gaps between current efforts and desired capabilities
- Framework for socializing new technology
- Enable effective budget planning
- Drive solicitation cycle



# **Next Steps**

- Finalize project deep dives for APS Consolidated Technology Roadmaps Phase I and II
- Support development of other Capability Manager-level roadmaps
  - Begin project deep dive roadmaps for remainder of Capability Managers (Alarm Resolution, Checked Baggage, Identification Management, On Person Screening)
  - Identify appropriate S&T resources for collaboration with TSA Capability Managers
- Develop strategy to expand coordination efforts beyond DHS S&T and TSA RCA
  - e.g., DOE Lab-directed Research and Development

### **Upcoming Actions**

- ✓ Presentation of the consolidated technology roadmap process at TSA RCA All-Hands
- ✓ Use the Roadmap as a tool for demonstrating alignment of TSA and DHS S&T
- ✓ Continue engagement with Capability Managers on roadmap development efforts
- ✓ APS proceed to step 3 for RM gap analysis (see slide 3)







