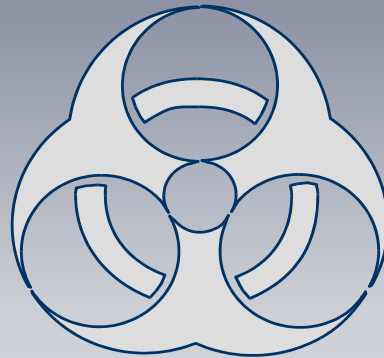


Bioterrorism Surveillance & Response Information Technology Initiatives



**Bioterrorism Preparedness and Response Program
Los Angeles County Department of Health Services
May 8th, 2003**



Outline

- Project Background – Cooperative Agreement
- HHS / CDC Information Technology Initiatives
- Bioterrorism Project Objectives and DHS Action Plan
- Proposed Architecture & Project Deliverables
- Available Funding and Project Timelines
- Proposed Development Options
- Questions



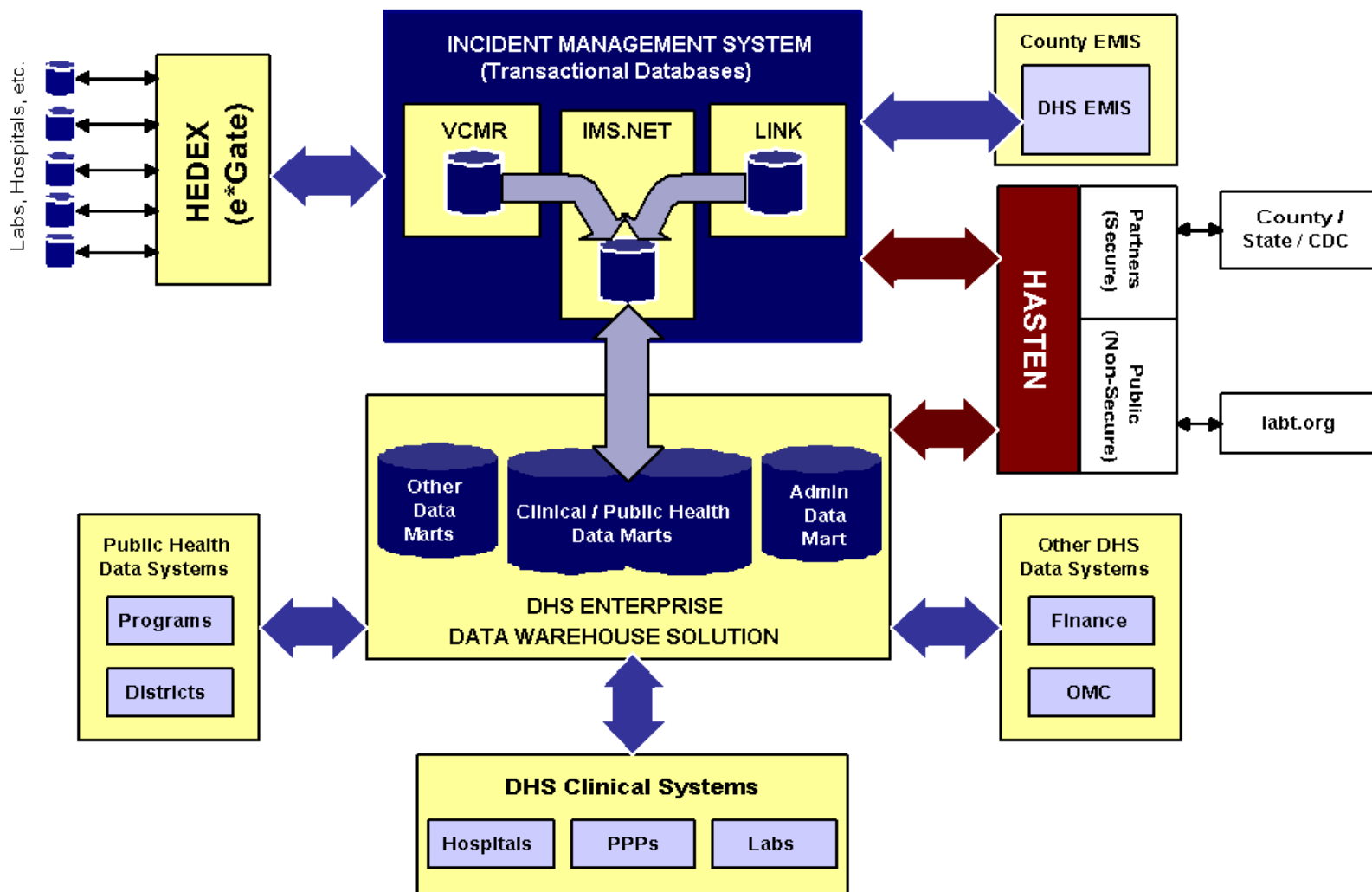
Bioterrorism IT Initiatives: The Challenge in L.A County

- Los Angeles County covers an area of over 4000 square miles (88 unincorporated cities)
 - Largest population of any county in the country with nearly 10 million people (14 million in the Op. Area)
 - 29.3 % of California's population (only eight other states exceed the population of the county)
 - Second largest public health jurisdiction in the country
 - 114 acute care hospitals, 81 of which have fully staffed emergency departments
 - Safety net of care lacks resources,
-
- **All these factors limit L.A. County's ability to respond to public health emergencies such as bioterrorism**



DHS Action Plan

Proposed System Architecture





DHS Enterprise Data Warehouse & Public Health Data Marts

Scope of DW / PHDM Project (Initial Phase)

- Develop Business Plan for consolidation of data
 - Standardization of data formats
 - Key programs to target
- Assist in the evaluation and selection of Data Models that incorporate public health data models such as PHDIM (based on HL7 RIM), and PHLDM
 - Develop common set of data definitions
 - Develop common set of data extracts and schedules
- Define necessary data marts for Public Health



Public Health Incident Management Systems

Scope of IMS Project (Second Phase)

- Disease Reporting and Surveillance Enhancements to VCMR application
 - Upgrade to NEDSS standards and add functionality (GIS, expanded analytical support wireless, etc.)
 - Development of user interface for rapid analysis of electronic data
 - Integration with HASTEN to support automated analysis and feedback to public health partners
- Emergency Management tool sets for DHS
 - Enhancements to Los Angeles County Immunization Network (LINK Immunization Registry) and implementation of management system for Strategic National Stockpile (SNS)
 - Support emergency management activities through co-development of EMIS II and integration with emerging IT initiatives of the TEW



Public Health Incident Management Systems

Additional Scope of IMS: HEDEX Project

- Development of electronic interfaces to support secure data exchange with public health partners including hospitals, laboratories, response agencies
 - Utilize E*Gate Interface Engine
- Develop capacity for data transformation
 - Translate internal codes and formats to standards (HL7, LOINC, SNOMED)
 - Ensure compliance with privacy and HIPAA requirements



Los Angeles County HASTEN System

Scope of HASTEN Project (Yr. 3 Expansion)

- Significantly expand infrastructure and user base
 - Hospitals (ER, ICPs, Clinics)
 - Professional Associations
 - Emergency Response Agencies
 - Other Public Health partners
- Expand alerting capability and communications infrastructure
 - Refinement of Call-Down System
 - Integration with other communication systems
- Mobile communications / Field command and control

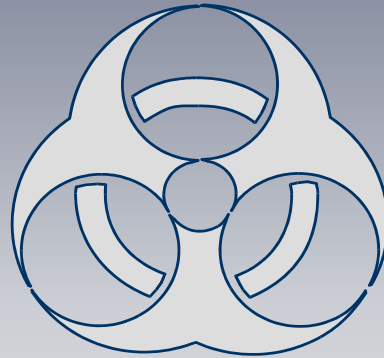


Los Angeles County Learning Management System

Scope of LMS Project (Initial Phase):

- Increased Delivery of Information
 - a formal mechanism to deliver competency training to the public health workforce and partner response agencies.
 - Content assembly or rapid content development tools
- Improved Monitoring and Tracking of Training
 - systematically track completion of continuing education modules
 - ongoing evaluation, certification
- Content Repository
 - Ability to accept training content from a wide variety of data sources including state and federal agencies (i.e. CDC, Homeland Security, CA DHS)
 - Adhere to Shareable Content Object Reference Model or SCORM specifications for content

Thank You!



Questions or Comments?