

**CLIAC Sept. 11, 2002** 



### Testing of Public Health Significance Numbers of Laboratories:

- 4,414 Level A "capable" for Bioterrorism
- 1,959 Mycobacteriology (TB)
- 2,516 HIV Antibody
- 5,074 Syphilis serology
- 824 Blood lead

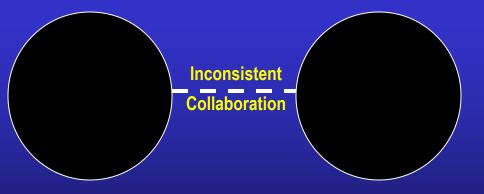


# **Current Paradigm**

 The current network of laboratories that perform tests of public health significance is a loose association of public health (state, county and city), hospital, and independent laboratories throughout the country.



- Funding
- Consensus Standards
- Technology Transfer
- Training





# **Program Support**

#### **Technical Capacity**

· LRN / BT

**System Capacity** 

Pulsenet

•ELC / EIP

•LIP

• TB - HIV - STD

•NEDSS

Blood lead

•HAN

Biomonitoring







## **Role of Laboratories**

#### "Provide information for decision making"

#### **Private Labs**

- Diagnostic testing
- Medical management
- Mission = <u>Individual health</u>

#### **Public Labs**

- Some diagnostic testing
- Reference testing
- Surveillance and monitoring
- Mission = Public health

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**Interdependent Network** 

**Identify Public Health Threats** 

## **Statement of Problem**

- GAO Report (February '99)
   "Emerging Infectious Diseases"
  - The nation's public health surveillance of infectious diseases critically needs improvement with Federal leadership
- GWU Report (January, 1999)
  "Reporting by Out-of-State Laboratories"
  - Under-reporting is due to: out-of-state testing, lack of experienced personnel, and cost-shifting under capitation
- Lewin Group Report (October 1997)
  "Public Health Laboratories & Health System Change"
  - There has been a lack of proactive leadership from the public sector. The entire system should be carefully reviewed.

#### **Barriers To Overcome**

**Geographic separation** 

**Resource limitations** 

**Mission differences** 

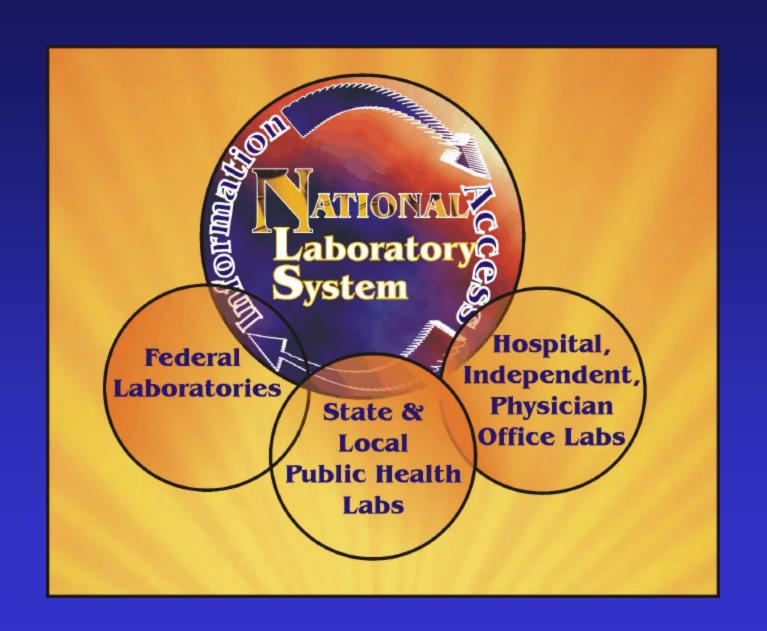
**Transport difficulties** 

**Non-culture methods** 

**Out-of-state laboratories** 

**Communication disparities** 

Sustainability



# **NLS Consultants Group**

- ASM
- ACLA
- ASCP
- APHL
- AAB

- CDC- NCID
- CDC- BPRP
- CSTE
- ASTHO
- CAP

The Consultants Group has met several times and will be expanded to include additional interests

# NLS demonstration projects

#### Michigan Bureau of Laboratories

Frances Pouch Downes, DrPH John Dyke, PhD

#### Minnesota Public Health Laboratory

Norman Crouch, Ph.D. Paula Snippes

#### Nebraska Public Health Laboratory

Stephen Hinrichs, M.D. Tony Sambol

# University of Washington Jon Counts, DrPH

# Demonstration Project Focal Areas









# **Assessment of AST Laboratory Practice**

- Majority of labs do not have current NCCLS tables
- Poor understanding of tables
- Inconsistent testing for drug resistance in Streptococcus pneumoniae
- Priority training needs were identified
- Interventions
  - CDC staff involvement
  - Teleconference
  - Train-the-Trainer

## Minnesota



Norman Crouch, Ph.D. Laboratory Director

Paula Snippes, MT (ASCP)
Laboratory Program Advisor

# Minnesota Communications

**MLS Laboratory Alerts** 

First Alert!

**September 11, 2001** 

- Encouraged heightened suspicion
- Listed 4 "priority threat agents"
- Provided agent characteristics
- Listed phone number to call



# Minnesota Promotional Poster

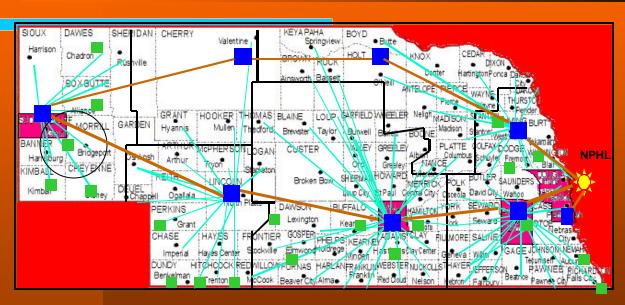


# Minnesota Challenge Set

- 1. Bacillus megaterium
- 2. Streptococcus pneumoniae
- 3. E. coli 0157:H7

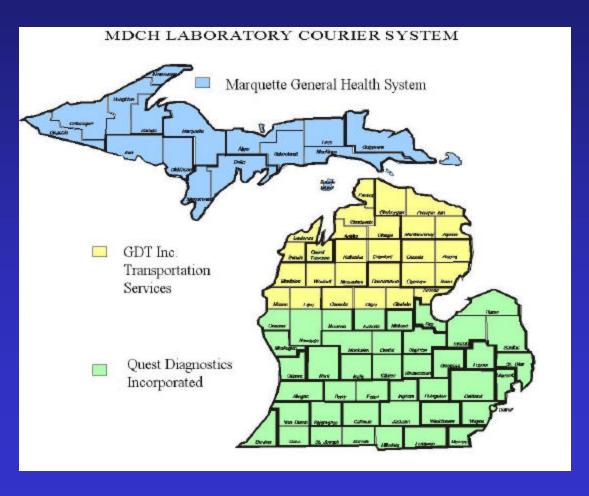
## **NEBRASKA**

# Networking of the N-LRS Hub Labs to Regional "Spoke" Labs



Blue: N-LRS Hub Labs Green: N-LRS "Spoke" Labs

# MICHIGAN Courier System



# Public Health Preparedness

Cooperative Agreement Award Guidance for FY 2002 Supplemental Funds for Public Health Preparedness and Response for Bioterrorism

**Ensure Nation is Prepared for** 

**Bioterrorism** 

Other Infectious Disease Outbreaks

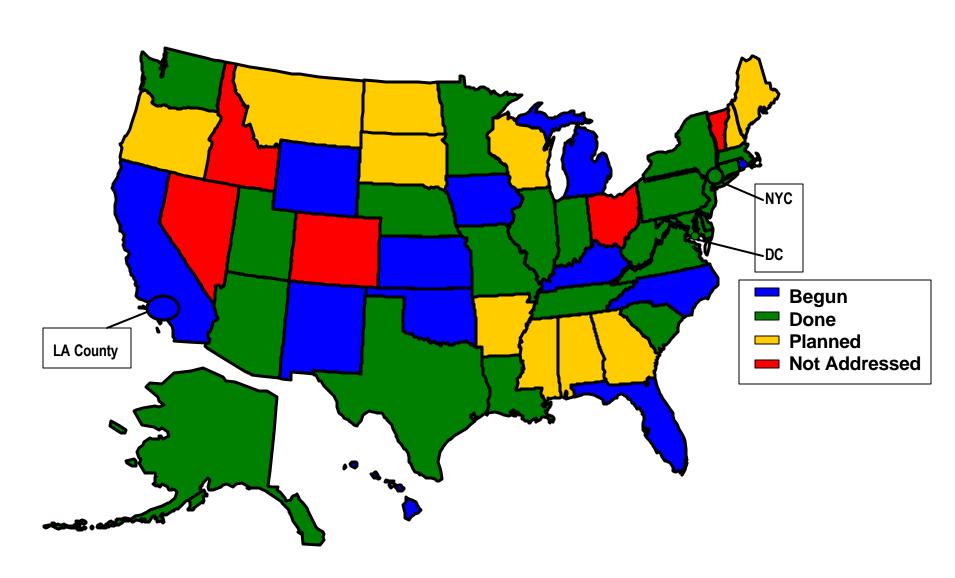
Other Public Health Threats and Emergencies

# Focus Area C: Laboratory Capacity Biologic Agents

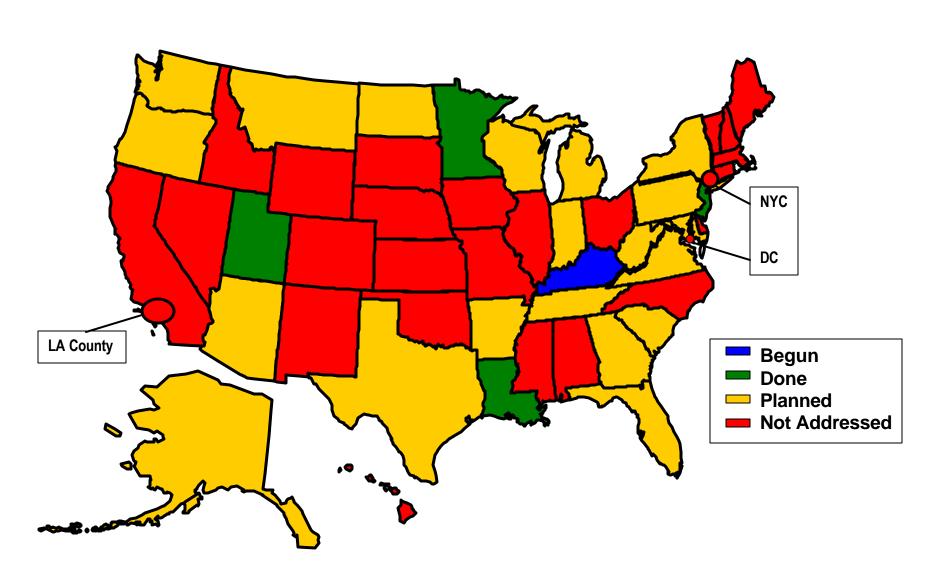
# Critical Benchmark Laboratory Capacity Biologic Agents

 #10: Develop a plan to improve working relationships and communication between Level A (clinical) laboratories and Level B/C laboratories, (i.e. Laboratory Response Network laboratories) as well as other public health officials.

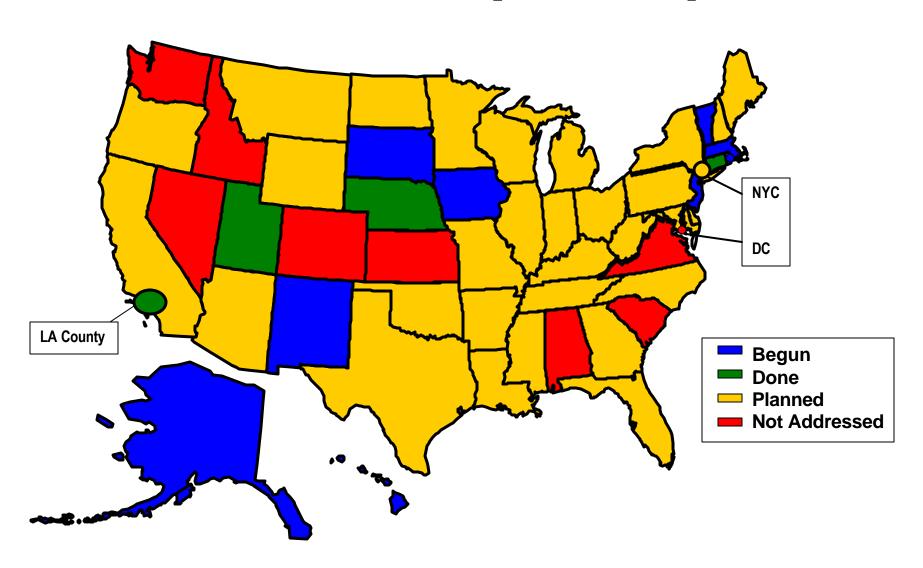
# **Identify All Clinical Labs**



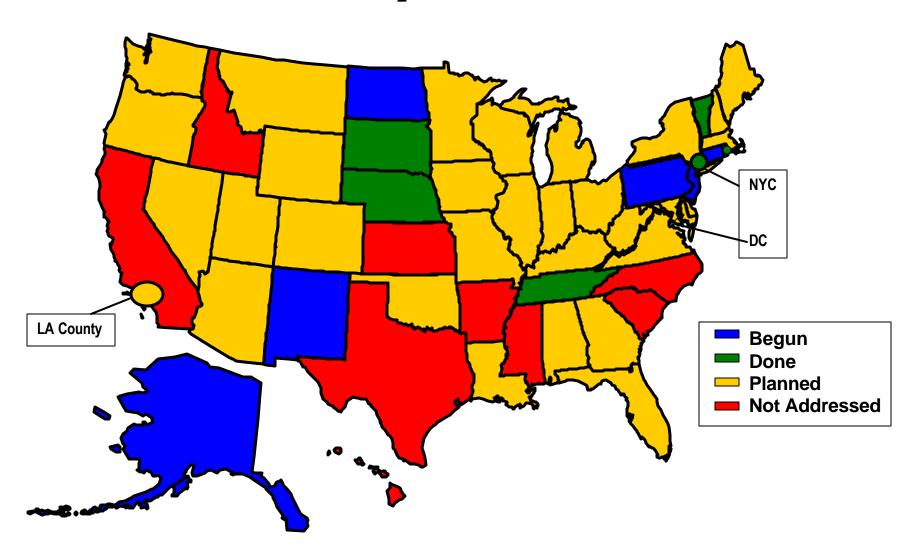
## **Searchable Laboratory Database**



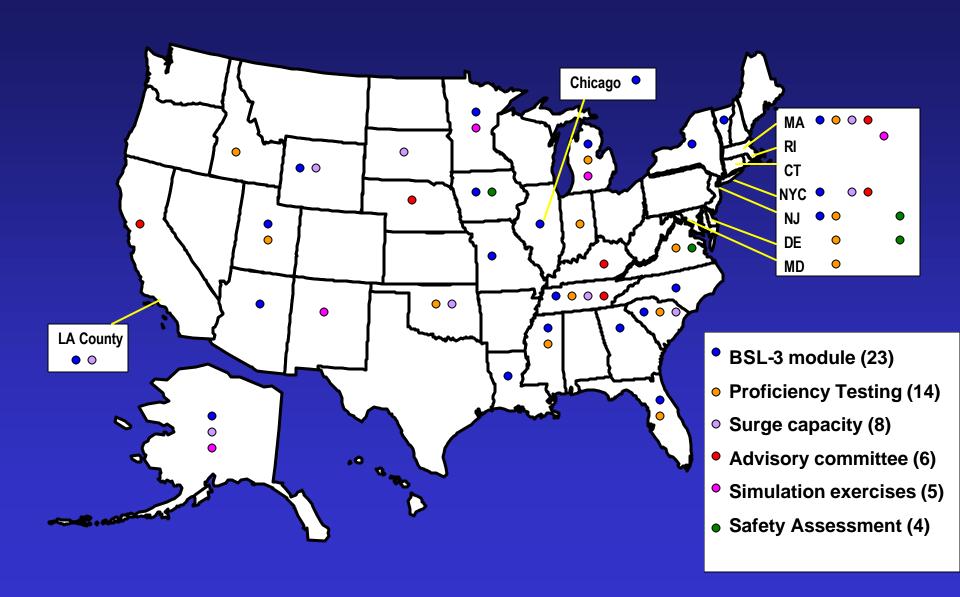
# **Enlist Clinical Laboratory Participation**



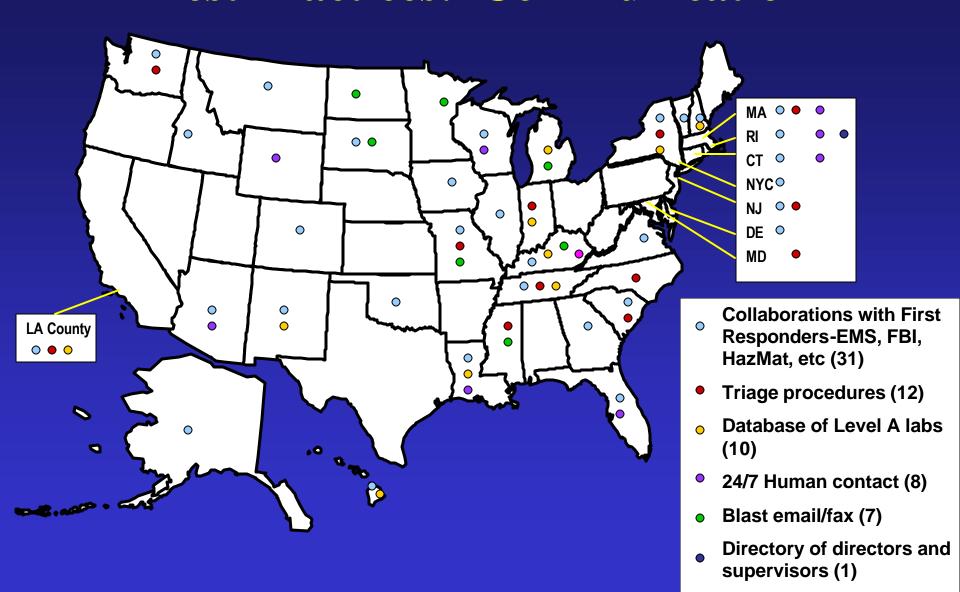
## Convene Laboratory Forum or "Advisory" Committees



#### **Best Practices: Assessment**



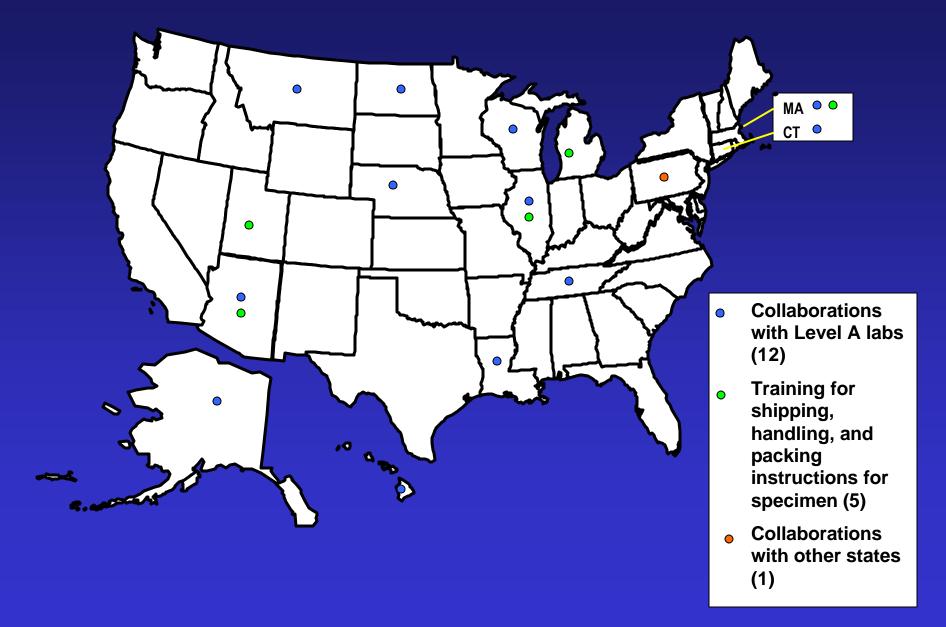
#### **Best Practices: Communication**



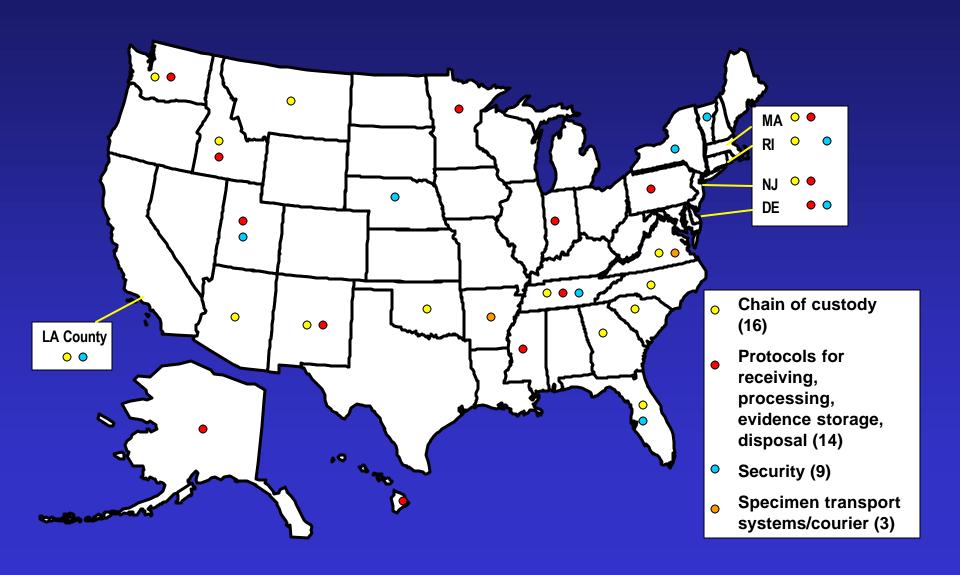
**Emergency plan for** 

government (1)

## **Best Practices: Training**



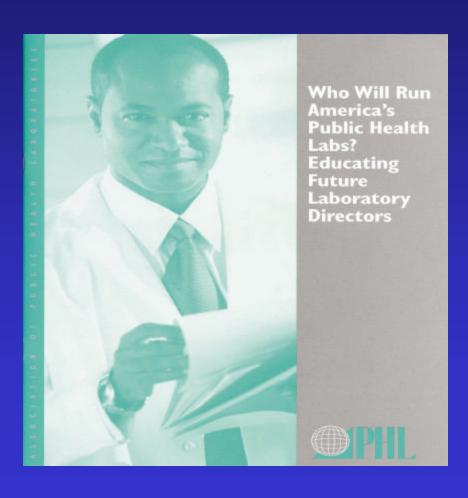
#### **Best Practices: Specimen Transportation**



# Laboratory Integration Program Activities

- Convene the NLS Consultants Group
- Maintain the National Laboratory Database of laboratories and their testing services and assist with development of state databases
- Convene regular national conference calls between CDC, the LPC's & SLTC's
- With APHL, through the Leadership Institute, provide leadership training

# Leadership for Public Health Laboratories



# Laboratory Integration Program Activities

- Support dissemination of state's model activities
- Provide advice on the creation and maintenance of PT programs
- Provide consultation on laboratory management and administration
- With APHL and other stakeholders, create performance standards for PH laboratories

# **Expected Outcomes**

- Formalized relationships between clinical and public health laboratories
- Coordination of activities
- Development of Intra- and Inter-state
   Collaborations
- Improved PH surveillance and response

## What are the next steps?

- Promote successful state models
- Develop connectivity and standardization for state-based assessments
- Foster the support of national organizations for state systems
- Support a leadership role for state public health laboratories