FINAL PROJECT PART I

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PROJECT IDEA

- Using NACCHO 2013 National Profile of Local Health Departments
  - Idea 1:
    - Problem: Determine the association between technology capacity and accreditation readiness among US local health departments. Using the cross-sectional secondary data from the NACCHO 2013 National profile of Local health departments and accreditation readiness criteria as specified by PHAB (Public Health Accreditation Board).
    - We will test if reported technology capacity such as IT area (EHR, HIE, eRegistry, Disease Reporting system, eLab Reporting systems), communication channels (social media, mobile, email marketing usage), and mobile technology tools (smartphones, tables, other) are associated with accreditation readiness.
  - Possible Idea 2:
    - Determine what other factors may be associated with accreditation readiness
  - Hypothesis
    - LHDs are less likely to meet PHAB accreditation readiness criteria when there is a lower level of technology capacity within a LHD.
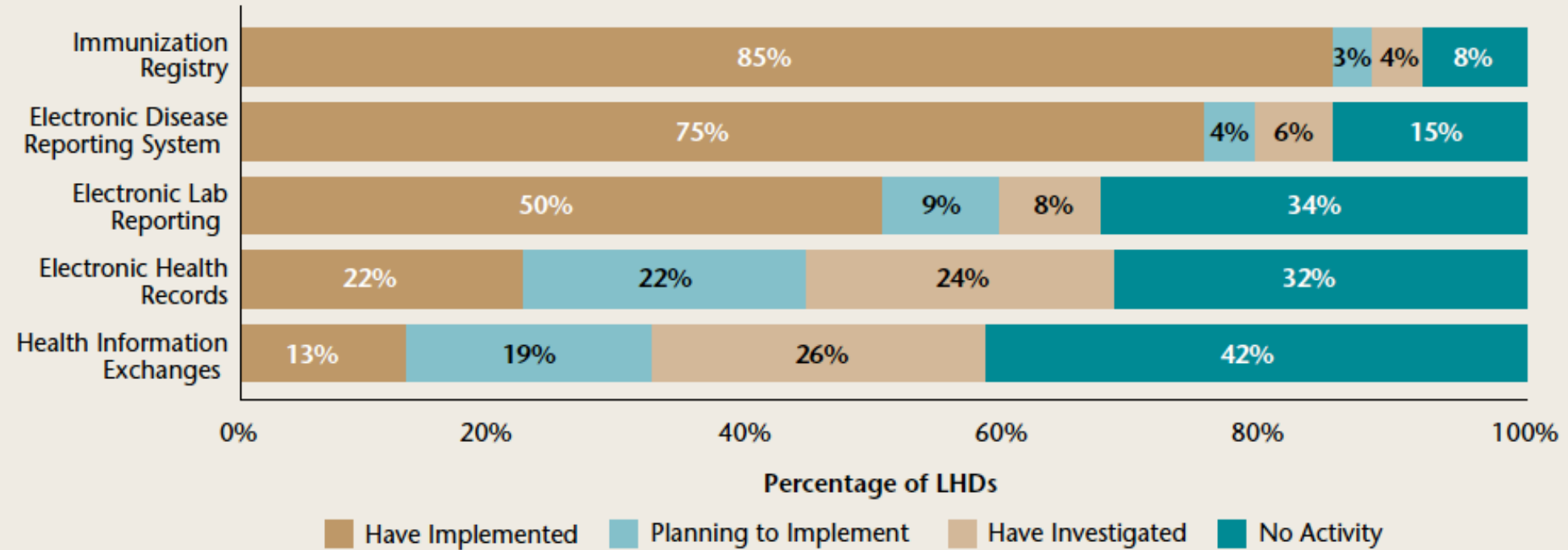
Questionnaire Design

FIGURE 1.1 Questionnaire Topics 2013 Profile Study

Core (Core Only Response Rate = 78%)	Module 1 (Core + Module 1 Response Rate = 79%)	Module 2 (Core + Module 2 Response Rate = 82%)
Jurisdiction & Governance	Quality Improvement	Emergency Preparedness
Funding	Accreditation	Public Health Informatics
LHD Top Executive	Cross-Jurisdictional Sharing of Services	Access to Healthcare Services
Workforce	Human Resources Issues	Health Disparities
Activities	Partnerships and Collaboration	
Community Health Assessment and Planning	Practice-Based Research	
Guide to Community Preventive Services	Health Impact Assessments	
Policy-Making and Advocacy	County Health Rankings Report	
	Public Health Institute	
	Evaluation of Profile	

Information Technology Systems

FIGURE 10.1 LHD Level of Activity in Information Technology Areas

Horizontal stacked bar chart. X-axis: Percentage of LHDs (0% to 100%).

Categories (top to bottom):
- **Immunization Registry:** Have Implemented 85%, Planning to Implement 3%, Have Investigated 4%, No Activity 8%
- **Electronic Disease Reporting System:** Have Implemented 75%, Planning to Implement 4%, Have Investigated 6%, No Activity 15%
- **Electronic Lab Reporting:** Have Implemented 50%, Planning to Implement 9%, Have Investigated 8%, No Activity 34%
- **Electronic Health Records:** Have Implemented 22%, Planning to Implement 22%, Have Investigated 24%, No Activity 32%
- **Health Information Exchanges:** Have Implemented 13%, Planning to Implement 19%, Have Investigated 26%, No Activity 42%

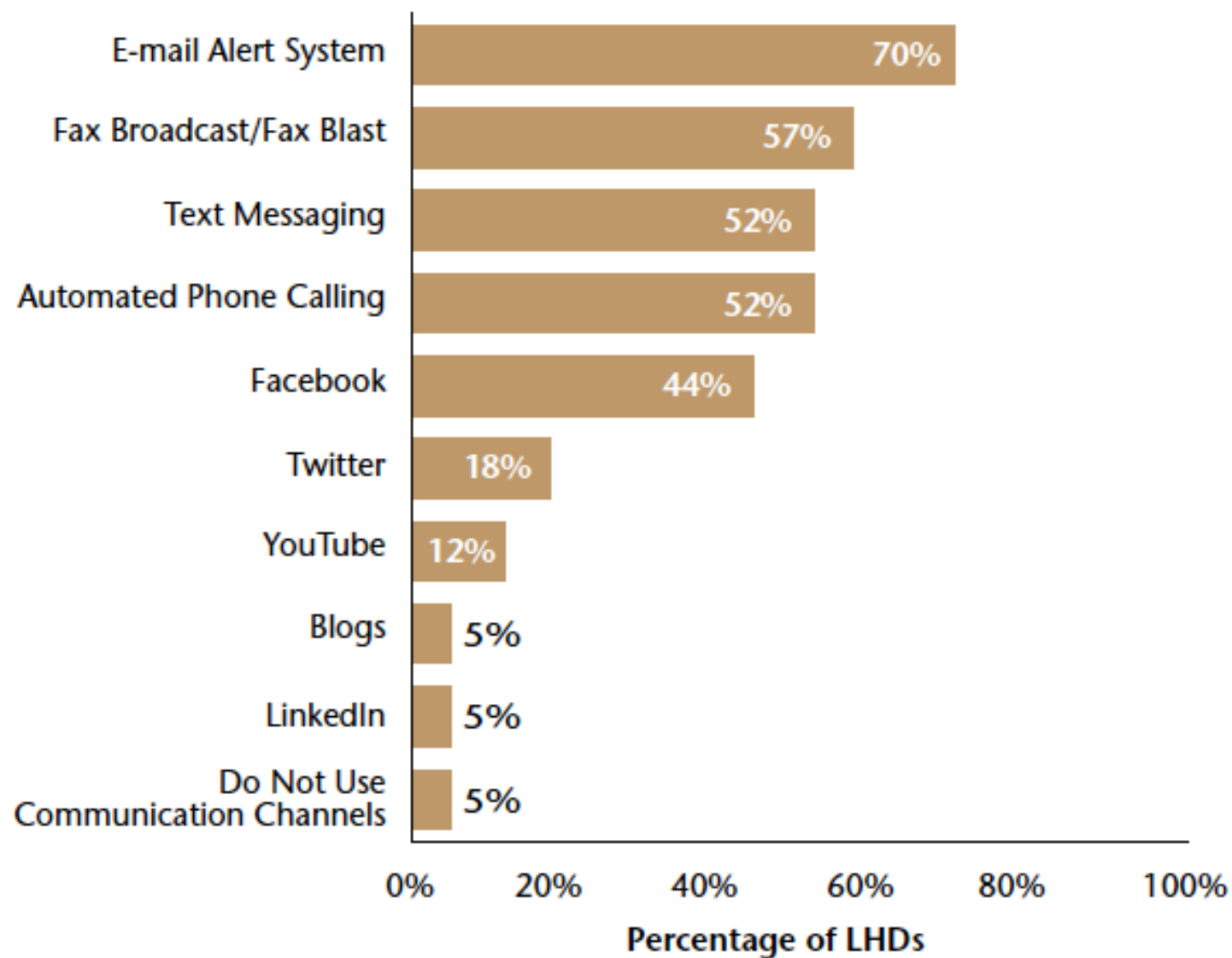Legend: Have Implemented | Planning to Implement | Have Investigated | No Activity

n=469
Note: Due to rounding, percentages do not add to 100 percent.

Communication Channels

FIGURE 10.4 LHD Use of Communication Channels

Percentage of LHDs

n=475

- The Data
  - National Survey data from 2013, self-reported by LHDs
- Analysis
  - Basic descriptive statistics on technology and accreditation related variables
  - Correlation matrix

- Challenges
  - Multiple variables to analyze
  - Missing data