



Wireless Integrated Pest Management Software System

New York, NY

Client

New York City Department of Health and Mental Hygiene

Problem

As part of the agency's New York City Childhood Asthma Initiative, the New York City Department of Health and Mental Hygiene (DOHMH) launched an initiative in public housing to reduce pest infestations and significantly lower the use of, and exposure to, toxic pesticides.

DOHMH's integrated pest management approach involves making apartment repairs and tracking and evaluating the repairs to minimize pest populations. In addition, the NYC Housing Authority (NYCHA) also needs to track inspections and repairs.

Both organizations were seeking an approach that could quickly collect information that was readily accessible for analysis and decision-making.

Scope

Warshaw Group provided Mobile Validity® data collection software on mobile pen tablets that allows 23 inspectors to collect data at the point of their inspection work on computerized questionnaires.

The Mobile Validity software allows for the creation of questionnaires with built-in logic, multiple security features and audit trails to facilitate data collection, ensure data integrity, and allow for wireless extension of their existing systems.

Inspectors upload their completed inspections to the server using Verizon's wireless 1xRTT network, with a specialized data security component developed by Warshaw Group. Data can then be downloaded for statistical analysis and instant report generation. Mobile Validity quality assurance tools also provide the staff with management screens to track inspections and productivity.

Mobile Validity data collection software allows DOHMH to create and edit questionnaires for deployment to the field, while providing secure data transfer and reporting.

The scope of the work includes:

- Consulting on project scope and questionnaire content
- Initial system set up
- Deployment of Mobile Validity questionnaires on wireless pen tablets
- Configuration of wireless transmission management
- Configuration of secure encryption for wireless transmission
- Deployment of Mobile Validity quality assurance tools for project and staff management

- Configuration of data download to statistical programs
- Deployment support
- Training
- Technical support and maintenance

Solution/Benefits

DOHMH is able to collect data at the point of work, wirelessly transmit inspection data, and access inspection results immediately for project management and analysis.

Mobile Validity software is easily used to create and edit existing electronic questionnaires that are deployed via the Internet. This minimizes the need to retrieve tablet computers from the field and reduces downtime.

The inspection results are stored in databases that are configured for ready integration with industry standard statistical packages including SPSS (Statistical Package for Social Sciences) and Microsoft Access.