Automating Public Health

Implementing GIS in Public Health Clinic Management

Steven Anschel, Ph.D.
Netsmart Public Health

ESRI Health GIS Conference 2007
Understanding the Power of Place
Business Partners Solutions

Netsmart Technologies

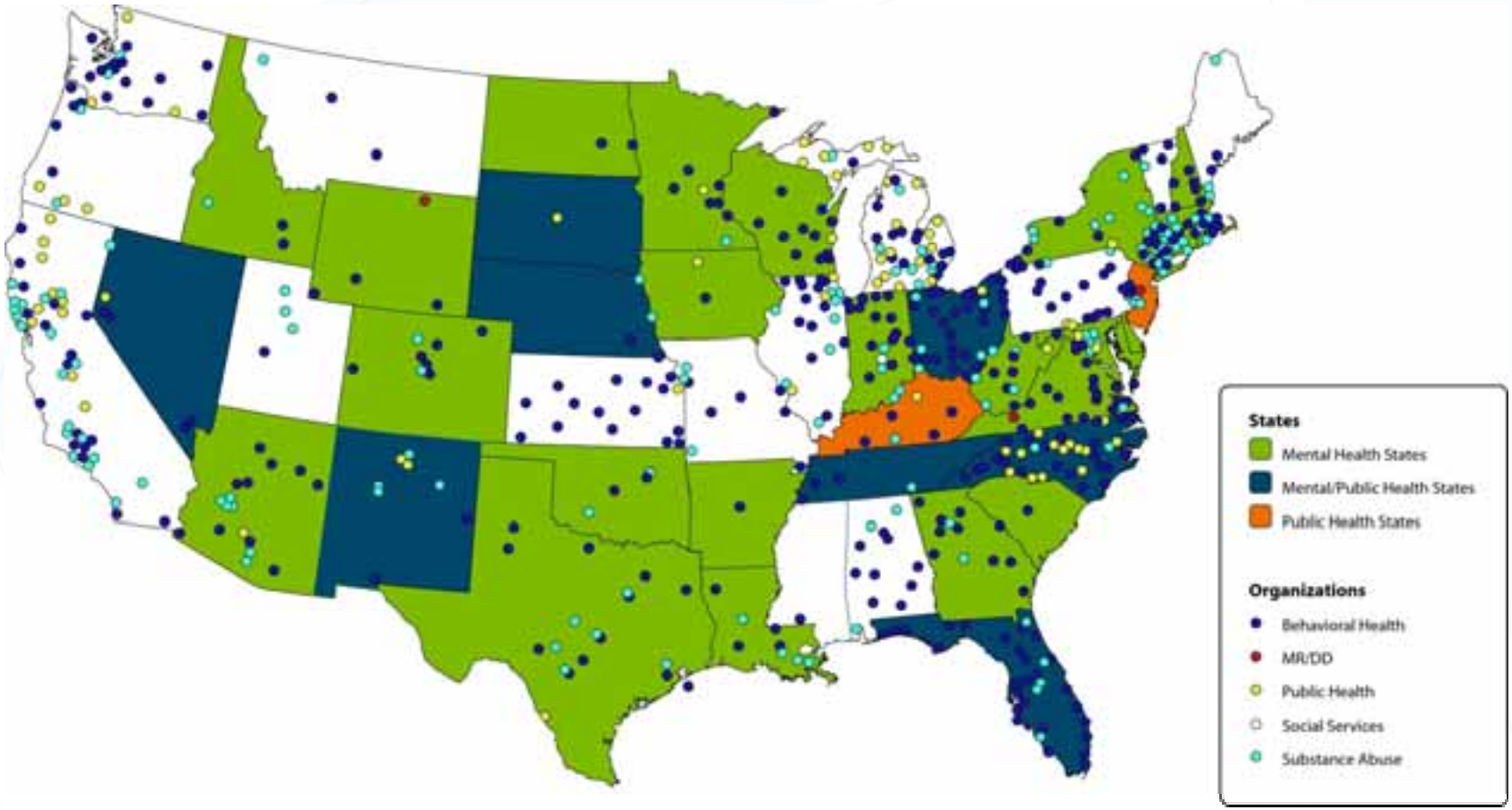
behavioral/mental health | public health | substance abuse | methadone | mr/dd | social services

Netsmart Public Health

The Netsmart Community

2007 ESRI Health GIS Conference

Public Sector Healthcare Client Base



2007 ESRI Health GIS Conference

Netsmart is the Industry's Leading Provider of Public Health Software

Netsmart Public Health

City of Berkeley
County of Lake Health Services Department
County of Sonoma Public Health
Fresno County Dept. of Community Health
Placer County Health & Human Services
San Diego County Public Health
Siskiyou County Public Health
Tehama County Health Services Agency
Tulare County Health & Human Svcs
DuPage County Health Department
Berrien County Health
Branch-Hillsdale/St Joseph CHA
Central MI District Health
Chippewa County Health
Delta Menominee District Health
Dickinson-Iron District Health
District Health Depart #4
District Health Dept #2
Huron County Health Dept.
Lapeer County Health Dept.
Livingston County Health Dept
LMAS District Health Dept
Marquette County Health
Monroe County Health Dept
Northwest MI Comm Health Agency
Tuscola County Health Dept.
Van Buren County Public Health
Wayne County Health Dept
Western U.P. District Health Dept
Anoka County Public Health
Hennepin County
Catawba Co. Public Health Agency
Halifax County Health Dept.
Douglas Co Health & Social Services
Jackson County Health & HS
Klamath County Mental Health
Lincoln County Health and Human Services
Warren County Human Services Department
Fairfax County Health Department
Sheboygan County Health and Human Services
Rockingham County Health Department
Surry County Health & Nutrition Center
Union County Health Department
Wake County Human Services
Wake County Human Services
Atlantic County Div of Public Health
Durham County Health Department

Anchorage Department of Health and Human
Alamance County Health Department
Beaufort County Health Dept.
Cabarrus Health Alliance
Caldwell County Health Department
Carolinas Healthcare System
Carolinas Healthcare System
Chatham County Health Dept.
NSB Dept of Health & Social Services
Pinal County Health & Human Services
Asian Health Services
County of Yuba Health Department
El Dorado County Public Health Dept.
Imperial County Health Department
Kern County Health Department
Logan Heights Family Health Center
Placer County Medical Clinic
San Bernardino County Health Department
San Francisco General Hospital
Shasta County Dept of Public Health

Presbyterian Medical Services, NM
Cleveland County Dept of Public Health
Cleveland County Dept of Public Health
Craven County Health Department
Cumberland County Health Department
Durham County Health Department
Durham County Health Department
Geary County Health Department
Harvey County Health Department
Jackson County Health Department
Jefferson County Health Department, KS
Johnson County Health Depart
Ottawa County Health Dept
Kansas City Missouri Health Department
St. Louis City Department of Health
Washoe District Health Department
Broome County Health Department
Dutchess County Health Department
Erie County Dept Health NY/Site Aor1/IM
Erie County Dept Health NY/Site Bor2/TB

Gaston County Information Technology
Iredell County Health Department
Johnston County Health Department
Johnston County Health Department
New Hanover County Health Department
Rockingham County Health Department
Kansas State Health Department
Labette County Health Department
Lawrence-Douglas Co Health Dept
Liberal Seward County Health Department
Logan County Health Department
Lyon County Health Department
Marion County Health Department
McPherson County Health Dept
Meade County Health Department
Montgomery County Health Dept (KS)
Nemaha County Health Department
Neosho County Health Department
Osage County Health Department
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[illegible] County Health Dept.
Wyandotte County Health Dept.
Baltimore City Health Department MCH
Baltimore City Health Department STD
Charles County Department of Health
Charles County Department of Health
Frederick County Health Department
Garrett County Health Department
Washington County Health Department
Washington County Health Department
Blue Care Network
Kalamazoo County Human Services
Ottawa County Community Mental Health
Ottawa County Health Dept

Over 130 Public Health Organizations: The Industry's Largest Community

Marion Co. Health & Hospital Corp.
Atchison County Health Department
Barton County Health Department
Brown County Health Department
Butler-Greenwood Bi-County Health Dept
Cherokee County Health Department
Coffey County Public Health Department
Crawford County Health Department
Dickinson County Health Department
Ellis County Health Department
Finney County Health Department
Ford County Health Department
Franklin County Health Department, KS
New Mexico State Health Department

Sullivan County Health Department
Tennessee Dept. Health & Environment
Tennessee Dept. Health & Environment
Harris County Public Health & Env Serv
Hendrick Medical Development Corporation
Laredo City Health Department
Laredo City Health Department
Laredo City Health Department
Mercy Regional Medical Center
Clark County Health Department
Snohomish Health District
Walla Walla County Health Department
Whatcom County Health Department
Centre for Addiction and Mental Health

Public Health Challenges

Core Business Issues

1. Billing
2. Data Quality
3. Electronic Health Record

Netsmart's *Insight* is a mature and proven field-tested Public Health application designed specifically for Public Health

Insight

- A rapidly deployable Commercial Off the Shelf (COTS) application offering complete, agency-wide data integration

- Utilized by State, County and City Public Health Departments and Community Health Centers with Public Health functionality – i.e. Federally Qualified Health Centers (FQHC)

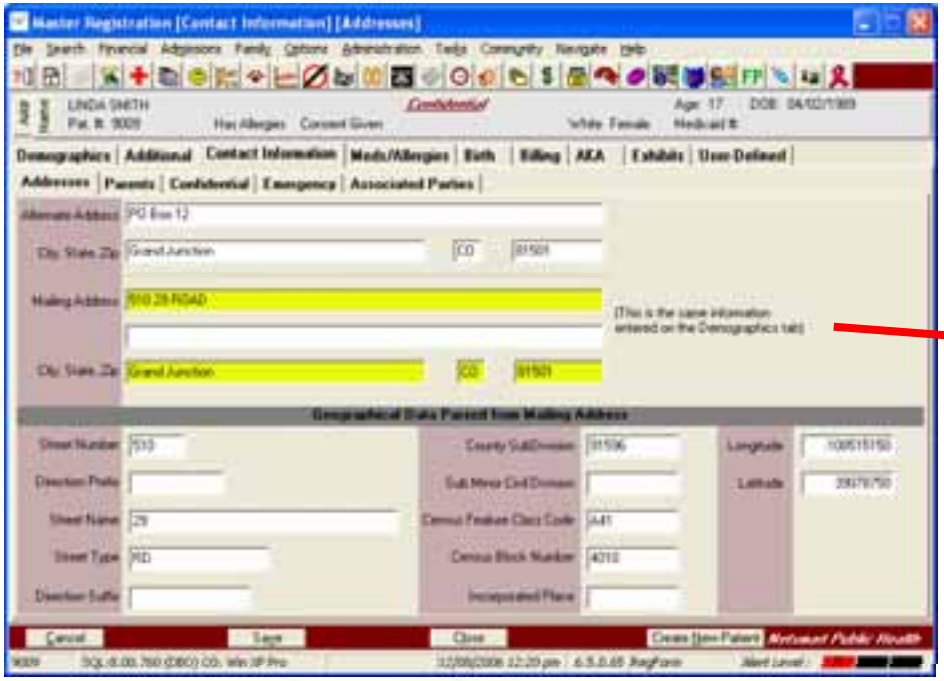
- For Clinical Data Collection, Program Support (Immunizations, STD, Family Planning, etc.), Scheduling and an Electronic Health Record

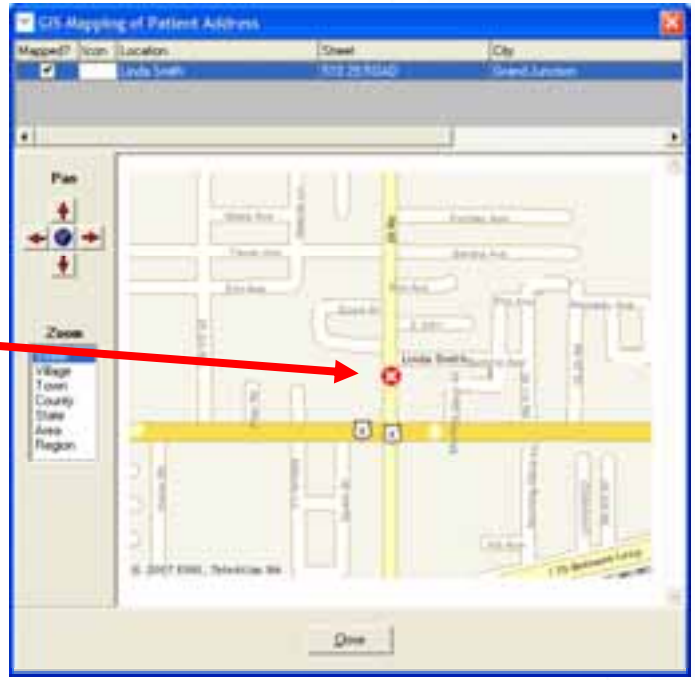
Insight - Core Functions

- Encounters/Billing - Map for accurate street address
- Clinics
  - Immunizations
  - Family Planning
  - STD/HIV – Map for contacts
  - Tuberculosis – Map for contacts
- Laboratory Tracking
- Patient Appointments
- Electronic Health Record
- Case Management – Map for case load by area
- Epidemiology – Map by event for cases and contacts

Red indicates mapping features implemented using ESRI ArcWeb Services

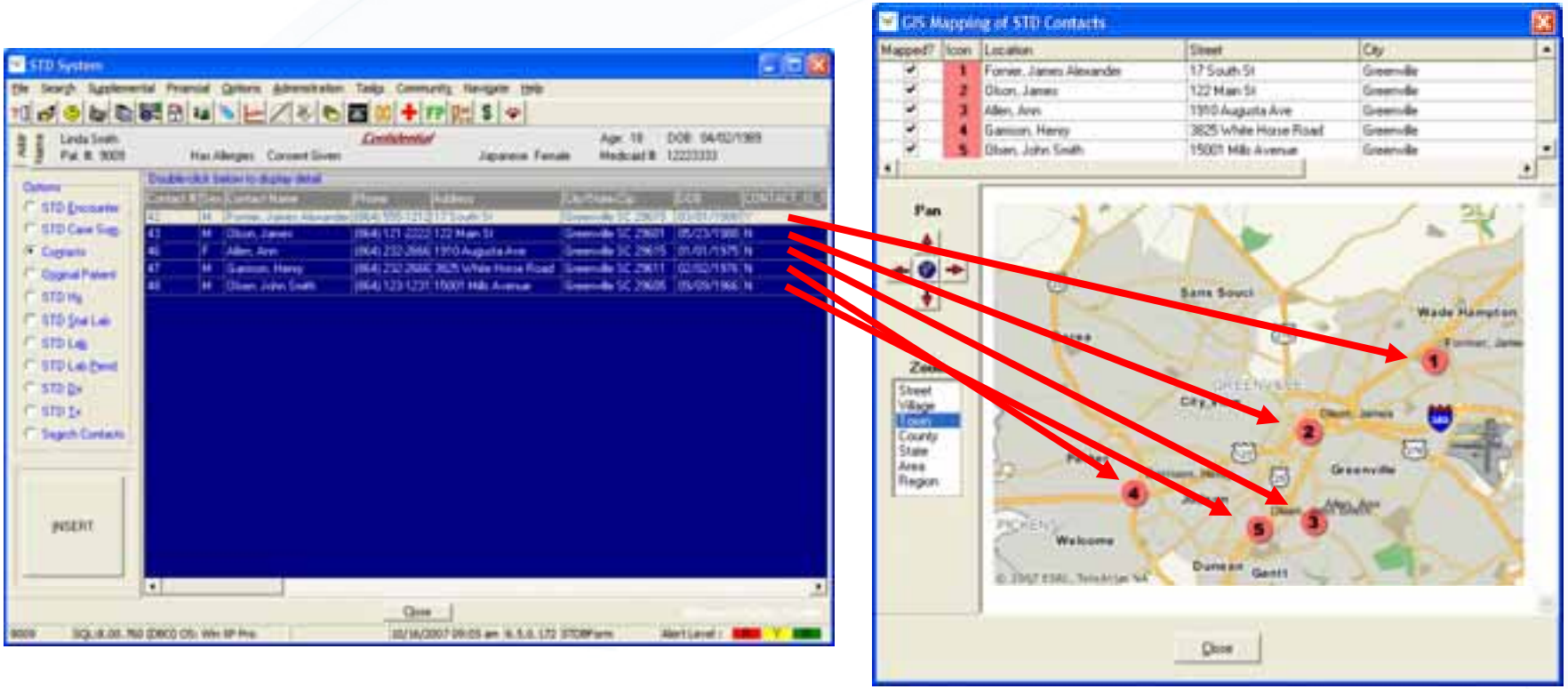
Live ESRI Mapping Interface





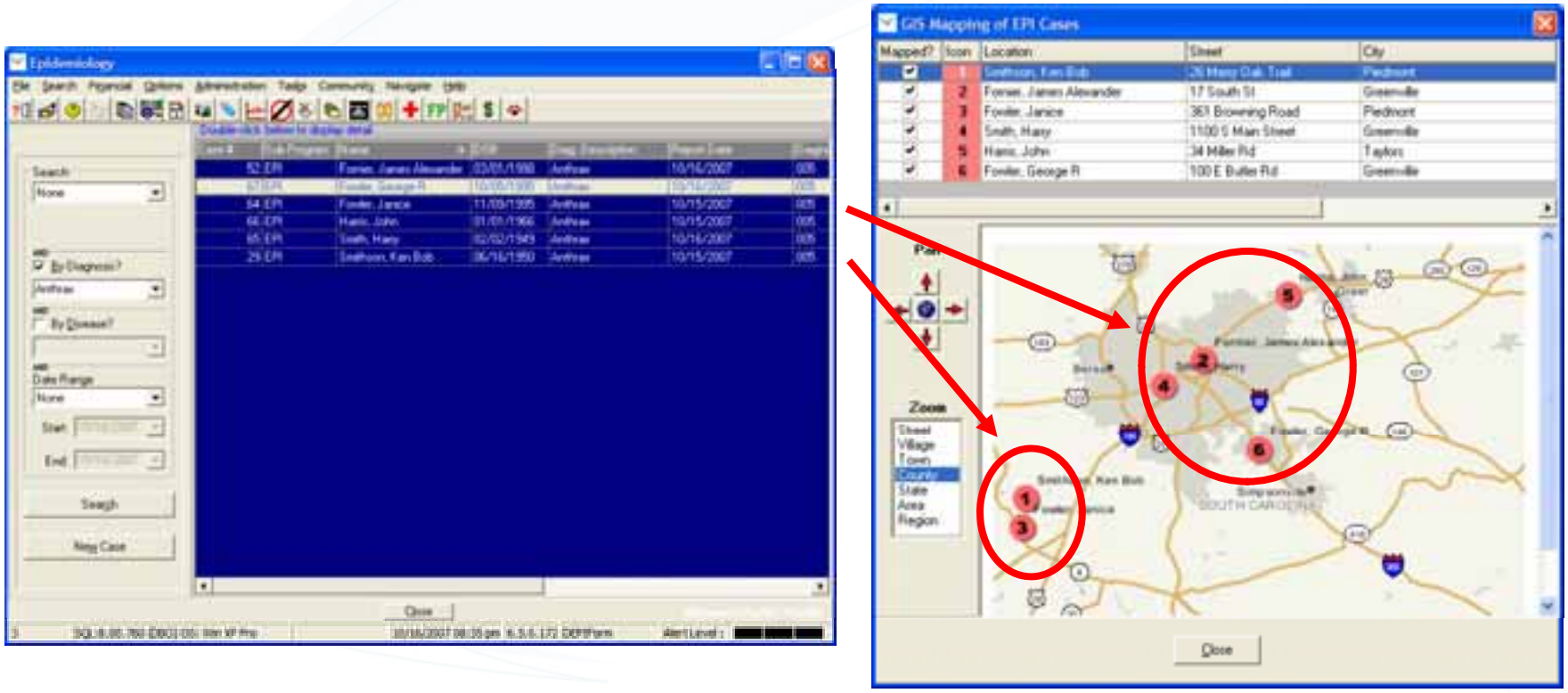
Registration – Street address can be verified and mapped using ESRI ArcWeb Services

Live ESRI Mapping Interface



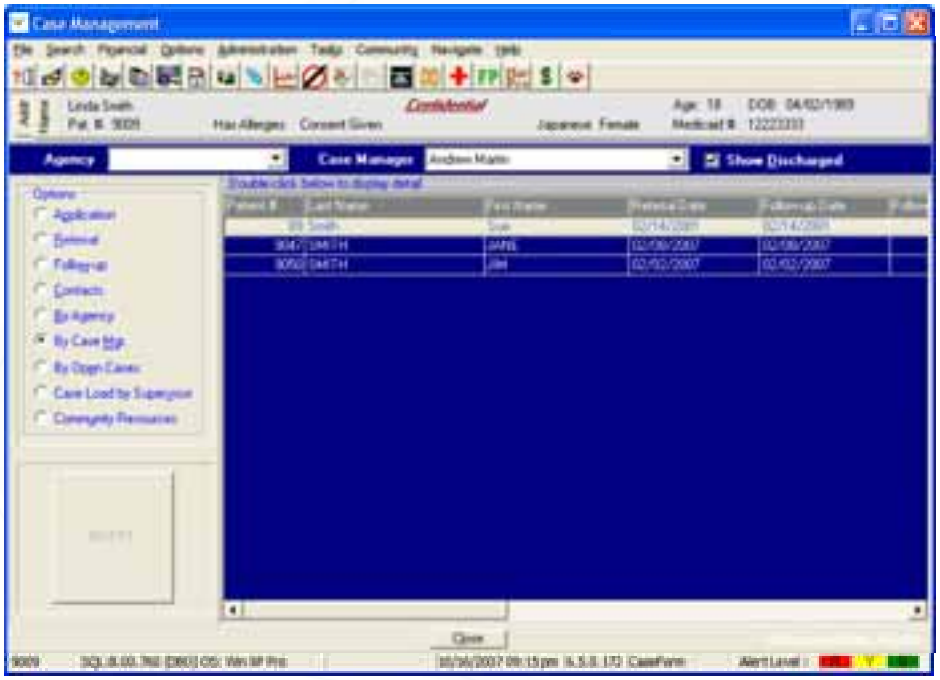
STD/HIV – Map street addresses for contacts using ESRI ArcWeb Services

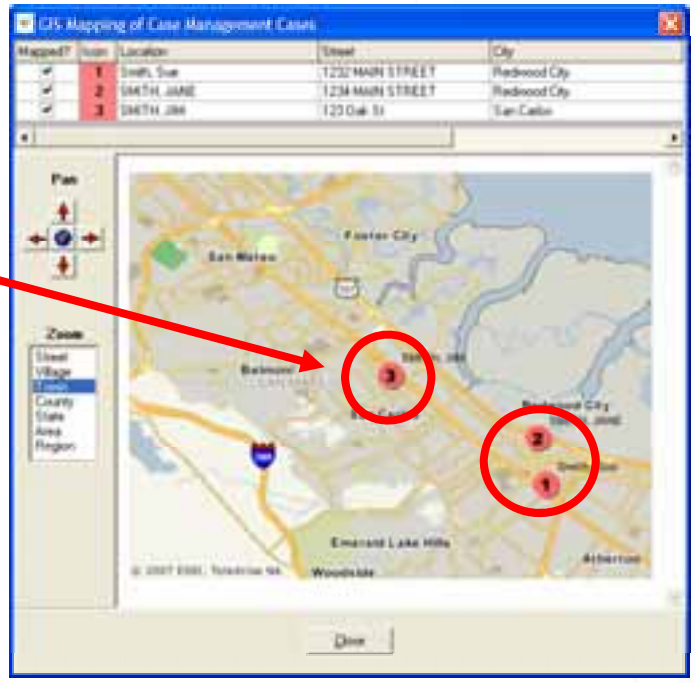
Live ESRI Mapping Interface



Epidemiology – Map street address by event for cases using ESRI ArcWeb Services

Live ESRI Mapping Interface





Case Management – Map street address by case manager for cases using ESRI ArcWeb Services

Future Plans

Implement GIS Mapping wherever addresses are available

For Additional Information

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