OSHPD Enterprise GIS
Mapping Healthcare Facilities and Communities

Scott Christman, GIS Coordinator
Office of Statewide Health Planning and Development

Health Data Model Workshop
April 7, 2003
Topics

- California Office of Statewide Health Planning and Development (OSHPD)
- OSHPD Enterprise GIS Initiative
- Example Applications of GIS
- Licensed Healthcare Facilities Data Model (VESTRA Resources)
OSHPD Background

- An Office within the California Health and Human Services Agency
- Approximately 450 Employees
- Annual Budget of $52 million
- Offices in Sacramento and Los Angeles
- Six Divisions and Five Boards/Commissions
OSHPD Background

OSHPD Services
- Building department for hospitals and nursing homes
- Provides loan insurance to non-profit health facilities
- Collects, analyzes and disseminates data from licensed hospitals, nursing homes, clinics, home health agencies
- Performs various healthcare services research and development activities
- Administers healthcare workforce and community development programs for California
OSHPD Enterprise GIS Initiative

OSHPD Vision:
“Equitable Healthcare Accessibility for California”

OSHPD Enterprise GIS Objective:

- Use GIS to add value and enhance OSHPD’s capabilities for providing consistent, timely, accurate information to support the common decision-making activities of the Office as it strives to fulfill its vision of equitable healthcare accessibility for all Californian’s.
OSHPD Enterprise GIS Initiative

Categories of Common Activities:

- Assessment of Conditions
- Allocation of Resources
- Measurement of Outcomes
- Communication of Results
OSHPD Enterprise GIS Initiative

- GIS Business Opportunities
  - Healthcare Facilities Locations
  - Medical Service Study Area (MSSA) automation
  - Emergency services / response planning
  - Quick data query / browse
  - Data sharing
OSHPD Enterprise GIS Initiative

Hospitals/Health Care Facilities

OSHPD Programs

External Data Providers (Census, Streets/Addresses, Physician)

Mapping and Demographics

Required Reporting

Voluntary Reporting

OSHPD Databases

Annual Financial

Quarterly Financial

Patient Discharge

Log Book

Patient Outcomes

Utilization

MSSA/HPSA

Special Summaries and Studies

Tracker II

Community Benefits

Information Requests

Program Information Needs

Other Facility, Staffing and Outcomes Info

Other HHS Departments (DHS, EDD, DSS)

Directors Office

Legislature

Federal Government

Other State Agencies

Local Government

Health Care Providers

Health Care Industry

Researchers

Marketing Firms

Health Insurance Purchasers

Philanthropic Organizations

Community Based Organizations

The Public
OSHPD Enterprise GIS Initiative

**GIS Implementation Strategy**

<table>
<thead>
<tr>
<th>Pilot</th>
<th>FY 01/02</th>
<th>FY 02/03</th>
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</thead>
<tbody>
<tr>
<td><strong>Desktop Analysis</strong></td>
<td>MSSA maintenance</td>
<td>Desktop Analysis</td>
</tr>
<tr>
<td><strong>Enterprise</strong></td>
<td>Data Management</td>
<td>Enterprise</td>
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<tr>
<td></td>
<td>Staff training</td>
<td>Capture and share</td>
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<tr>
<td></td>
<td>Tech Support</td>
<td>Enterprise</td>
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<tr>
<td></td>
<td>Data Sharing</td>
<td>Query/Browse</td>
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<td></td>
<td>Query/Browse Apps</td>
<td>Data Model</td>
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<td>• Dovetail with other systems</td>
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<thead>
<tr>
<th>Basic Infrastructure</th>
<th>FY 02/03</th>
<th>FY 03/04</th>
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<tr>
<td><strong>Desktop Analysis</strong></td>
<td>Desktop Analysis</td>
<td>Enterprise</td>
</tr>
<tr>
<td></td>
<td>Capture and share</td>
<td>Query/Browse with dynamic content</td>
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<tr>
<td></td>
<td>Enterprise</td>
<td>Live link to production data</td>
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<tr>
<th>Application Integration</th>
<th>FY 03/04</th>
<th>FY 04/05</th>
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<tbody>
<tr>
<td><strong>Enterprise</strong></td>
<td>MSSA Automation</td>
<td>MSSA Maps &amp; Reports</td>
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<tr>
<th>Decision Support</th>
<th>FY 04/05</th>
<th>FY 04/05</th>
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<tr>
<td><strong>Public Access</strong></td>
<td>MSSA Maps &amp; Reports</td>
<td>Community Health Query</td>
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<tr>
<td></td>
<td>Outcome Analysis tools</td>
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<thead>
<tr>
<th>HWCDD</th>
<th>FY 03/04</th>
<th>FY 04/05</th>
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<tbody>
<tr>
<td><strong>Needs Assessment and Planning</strong></td>
<td>Data Inventory</td>
<td>MSSA Maps &amp; Reports</td>
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<th>HWCDD</th>
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<tr>
<td><strong>GIS Database Development</strong></td>
<td>MSSA Automation</td>
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OSHPD Enterprise GIS Initiative

Three General Application Groups

- Healthcare Facilities-related
- Healthcare Communities-related
- Healthcare Outcomes-related

Examples…
Example Applications of GIS
Example Applications of GIS
Select an Area of Interest:

Select an area of interest using the menus below
OR click a county on the map.

- County: San Francisco
- State Senate:
- State Assembly:
- Congressional Dist.: 

Or Enter a Zip Code: Find Zip

* This website is best viewed with your screen area set to 1024 x 768 px. Viewing the site with a smaller screen area will not affect how the site functions, but may result in increased use of the browser's scroll bars.
12 facilities found in San Francisco County (see table below)

<table>
<thead>
<tr>
<th>Hospital ID</th>
<th>Name</th>
<th>Type</th>
<th>Control</th>
<th>Special Use</th>
<th>Address</th>
<th>City</th>
<th>Zip</th>
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<tbody>
<tr>
<td>106380769</td>
<td>PACIFIC COAST HOSPITAL</td>
<td>Comparable</td>
<td>Non Profit</td>
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<td>1210 SCOTT ST</td>
<td>SAN FRANCISCO</td>
<td>94115</td>
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</table>
## Individual Four Quarter Hospital Profile Characteristics

### Hospital Information

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<thead>
<tr>
<th>Year/Quarter</th>
<th>Report Period Begin Date</th>
<th>Report Period End Date</th>
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<tbody>
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<td>2001/Q3</td>
<td>10/01/00</td>
<td>09/30/01</td>
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</table>

#### OSHPD Facility Number

**106380857**

#### Facility Name

**KAISER FND HOSPITAL - GEARY (S F)**

#### Address

**2425 GEARY BOULEVARD**

#### City

**SAN FRANCISCO**

#### State

**CA**  **Zip Code** **94115**

#### Phone Number

**(415) 202-2000**

#### Chief Exec Officer

**ELAINE SCHWEITZER**

#### Operating Status

**OPEN**

#### County

**SAN FRANCISCO**

#### Type of Hospital

**KAISER**

#### Teaching or Small/Rural

- **N/A**

#### Type of Control

**NON-PROFIT**

### Financial Data

<table>
<thead>
<tr>
<th>Income Statement ($)</th>
<th>Per Adjusted Patient Day ($)</th>
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</thead>
<tbody>
<tr>
<td>Gross Patient Revenue</td>
<td>0</td>
</tr>
<tr>
<td>- Deductions from Revenue</td>
<td>0</td>
</tr>
<tr>
<td>+ Capitation Premium Revenue</td>
<td>0</td>
</tr>
<tr>
<td>Net Patient Revenue</td>
<td>0</td>
</tr>
<tr>
<td>+ Other Operating Revenue</td>
<td>0</td>
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</tbody>
</table>
Example Applications of GIS
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Example Applications of GIS
Licensed Healthcare Facilities
Data Model and Geodatabase
Contact Information:

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916.323.1414