Synergizing Field Operations, GIS and Hansen: The Case Study of Fort Lauderdale
The City of Fort Lauderdale
Water System

- Over **16,000** valves
- About **5,300** hydrants
- About **780** miles of water mains
- **2** water treatment plants – together handling over **90 million** gallons of water per day!
The City of Fort Lauderdale Technology

- ESRI’s ArcGIS 9.2
- Infor’s Hansen 7.7
- GeoAdministrator Toolbar
- GeoAssistant
- .NET Framework 2.0 or higher
- Windows XP or higher
The City of Fort Lauderdale Daily Operations

- **Field Operations**
  - Condition assessments
  - Repair work / preventative maintenance
  - Emergency response (shutdowns, etc.)

- **GIS**
  - Spatial analysis
  - Geographic visualization
  - Connectivity models (hydraulic models, geometric networks, etc.)

- **CMMS**
  - History of activities
  - Work order production
  - Work order tracking
But how can they all work together???
"Asset intensive industries face the harsh realities of operating in highly competitive markets and dealing with high value facilities and equipment where each failure is disruptive and costly."

The City of Fort Lauderdale Enterprise Asset Management

Organizations are moving away from functioning in **REACTIVE** mode, and moving toward **PLANNING** mode.
The City of Fort Lauderdale
Enterprise Asset Management

Water Valve and Fire Hydrant Maintenance Program

- Preventative Maintenance
- Asset Management
- Inventory Control
- Work order creation

Wachs Water Services
distribution system solutions
The City of Fort Lauderdale
Enterprise Asset Management
The City of Fort Lauderdale Enterprise Applications / Benefits

- Information is compatible across departments!
- Information is compatible across software platforms!
- Information is compatible across organizations!
<table>
<thead>
<tr>
<th>FIELD NAME</th>
<th>FIELD VALUE</th>
<th>WORK ORDER TYPE</th>
<th>OPEN OR COMPLETED</th>
<th>WORK ORDER COMMENT</th>
<th>PROBLEM DESCRIPTION</th>
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<td>YES</td>
<td>V/M</td>
<td>OPEN</td>
<td>WHEN VALVE WAS EXERCISED OR ATTEMPT MADE, PROBLEM FOUND WAS VALVE WAS FROZEN. PLEASE CORRECT PROBLEM</td>
<td>VALVE PROJEN</td>
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<td>REPAIRED</td>
<td>V/M</td>
<td>COMPLETED</td>
<td>WHEN VALVE WAS EXERCISED OR ATTEMPT MADE, PROBLEM FOUND WAS VALVE WAS FROZEN, NOW INOPERABLE.</td>
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