We’re here for you.

Orange County Sanitation District
Slow and Steady Wins the Race

A

Local Government Information Model Implementation

Doug Rulison
Enterprise Information Management
Orange County Sanitation District
Agenda

1. What is the Local Government Information Model (LGIM)?
2. Why we did it?
3. How we did it?
4. What's next?
OCSD Service Area

- 471 square miles
- 207 million gallons per day
- 2.5 million population
- 21 cities, 3 special districts
- 15 pumping stations
- 2 treatment plants
Reclamation Plant No. 1
Fountain Valley

Treatment Plant No. 2
Huntington Beach
## Managed Features & Services

<table>
<thead>
<tr>
<th>Treatment Plant Data</th>
<th>Collection System Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Basemap</td>
<td>• Administrative (boundaries)</td>
</tr>
<tr>
<td>• Buildings</td>
<td>• Basemap/ Land base</td>
</tr>
<tr>
<td>• Topography</td>
<td>• Environmental</td>
</tr>
<tr>
<td>• Safety</td>
<td>• Collection System</td>
</tr>
<tr>
<td>• Utilities</td>
<td>• Other utilities (fiber, gas, power)</td>
</tr>
</tbody>
</table>

80+ features classes
12 map services

30+ features classes
12 map services
What is the LGIM?

Local Government Information Model
(Industry Standard Data Model)

- Web Services
- Maps
- Templates
- Datasets
Why we did it

• Support I.T.’s business objectives
• Rebuild & Standardize data model
• Opportunity for tighter system integration
Considerations

Resources:
- EEAP
- OCSD staff
- GIS community

Schedules:
- Maximo Implementation
- Data editing – long transactions

Dependencies:
- Users
- Applications
- Versions
- Software
Tools used

- Geodatabase modeling
- Extract
- Transform
- Load
- Quality Checks

Data Interop.

Data Reviewer
How we did it

1. Model Evaluation & Feature Identification
2. Feature/Data Mapping
3. Build Transformations
4. Data Loading
5. QA/QC
Model Evaluation

Local Gov’t Info Model
- Water
- Storm water
- Sewer
- BISM

Gas Distribution Model

Irrigation

Telecom Model

ArcMarine Model
- Electrical
- Chemical
- Solids

OCSD Model
Feature Mapping
(collection system – lines, polygons)

OCSD Data Model

Local Gov’t Info Model
Feature Mapping
(collection system – points)

OCSD Data Model
- ssManhole
- ssFMFittings
- ChemicalDosingSite
- ssFMValves
- ssBarrier
- ssPumpstation
- trtmtplnts
- ssLateral_pts

Local Gov’t Info Model
- ssManhole
- ssFitting
- ssFacilitySitePoint
- ssTap
- ssSystemValve
- ssMeter
- ssCleanout
- ssPump
- ChemicalDosingSite
- ssPermittedConnections
## Data Mapping

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<thead>
<tr>
<th>FeatureClass</th>
<th>FeatureName</th>
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<td>FACILITYD</td>
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<td>Integer</td>
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<td>String</td>
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<td>String</td>
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### Subtypes

<table>
<thead>
<tr>
<th>Subtype</th>
<th>SubtypeCode</th>
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<tbody>
<tr>
<td>DEF</td>
<td></td>
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<tr>
<td>CNT</td>
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</tbody>
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**Orange County Sanitation District**

*We’re here for you.*
ETL – Extract, Transform, Load
Quality Control

- Visual Inspection
- Data Cleanup
- Build Topology
- Data Reviewer
Benefits of Implementation

- Easier for staff to understand
- Better integration
- Improved data sharing
Tips

• Plan, plan, plan

• Be flexible & adaptable

• Coordinate & Communicate

• Seek advice and support
What’s next

• Data cleanup – on-going

• Migrate web applications - completed October, 2014

• Migrate desktop users - completed October, 2014

• Documentation & Training

• Begin Facility based migration – in progress
“slow and steady wins the race”
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For more information: