

CMMS Selection

John Sorrell, PE 6/4/2024

Project Team/ Org Chart

Functional and Technical Requirements

Asset Management

Work Management

Inventory Management

Fleet Management

System Mechanics

Vendor Services

Interface

Implementation Cost and Licensing Fees

One Time Costs

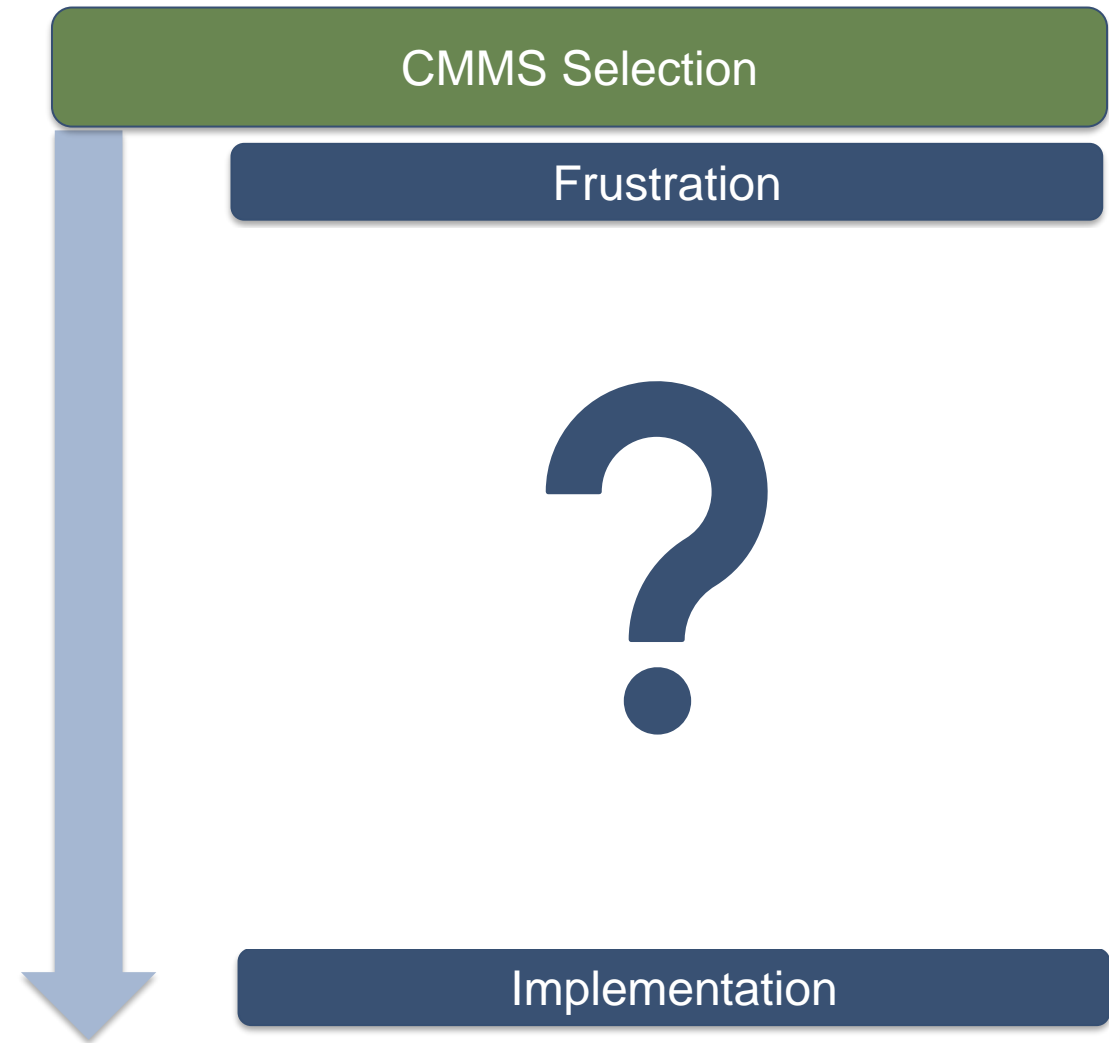
Recurring Costs

Optional Costs

Past Experience and References

CMMS Selection: OWASA case study

- Orange County, NC
- Water, Sewer, Reclaimed Water
- Previously implemented Cityworks for Horizontal assets
- Aging MP2 system for vertical assets



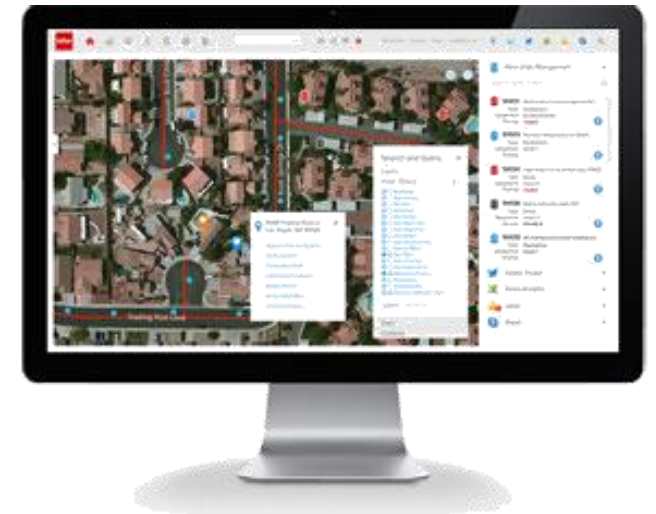
CMMS Selection

Frustration

Implementation

Frustration

- Lack of mobile capabilities
- MP2 no longer supported
- Questionable legacy data
- User interface
- Success of horizontal asset CMMS
- Support asset management initiatives



Challenge: Use pain points to help define a business case.

CMMS Selection

Frustration

Decision to Migrate

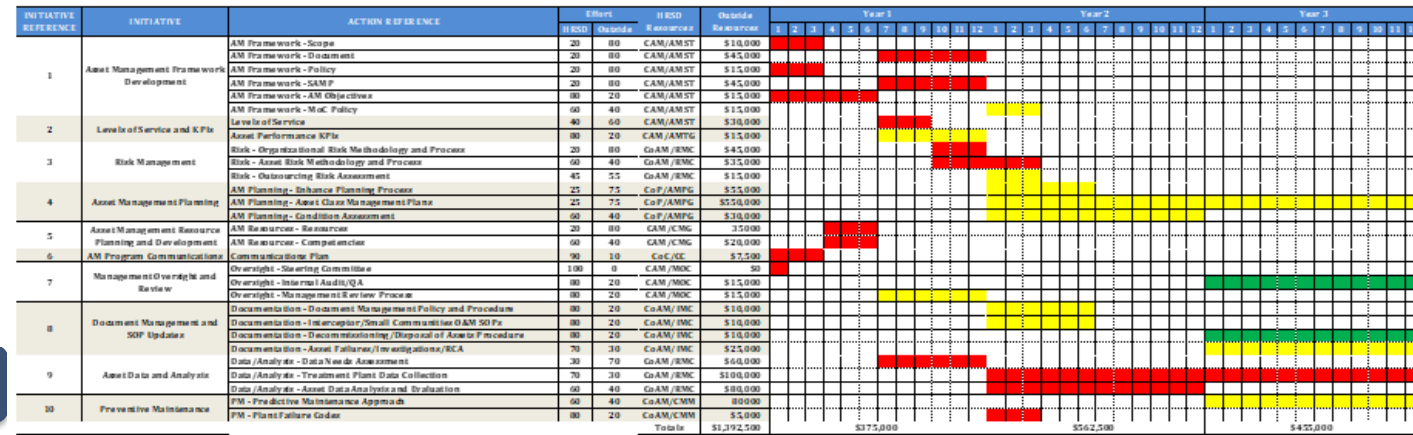
Decision to Migrate

- Communication
- Budgeting
- Strategic plan initiative
- Board Awareness
- Stakeholder Awareness



Implementation

Challenge: Top to bottom involvement begins early!



HRSD Leads	
CAM	Chief of Asset Mgt
CoAM	Condition Assessment Mgr
CoP	Chief of Planning
CoC	Chief of Communications

HRSD Support	
AMST	AM Steering Team
AMTG	AM Technical Group
EMC	Risk Management Committee
AMPG	AM Planning Group
CMG	Change Management Group
CC	Communications Committee
MOC	Night Oversight Committee
IMC	Information Mgt Committee
CMMS	CMMS Working Committee



CMMS Selection

Frustration

Decision to Migrate

Forming the Team

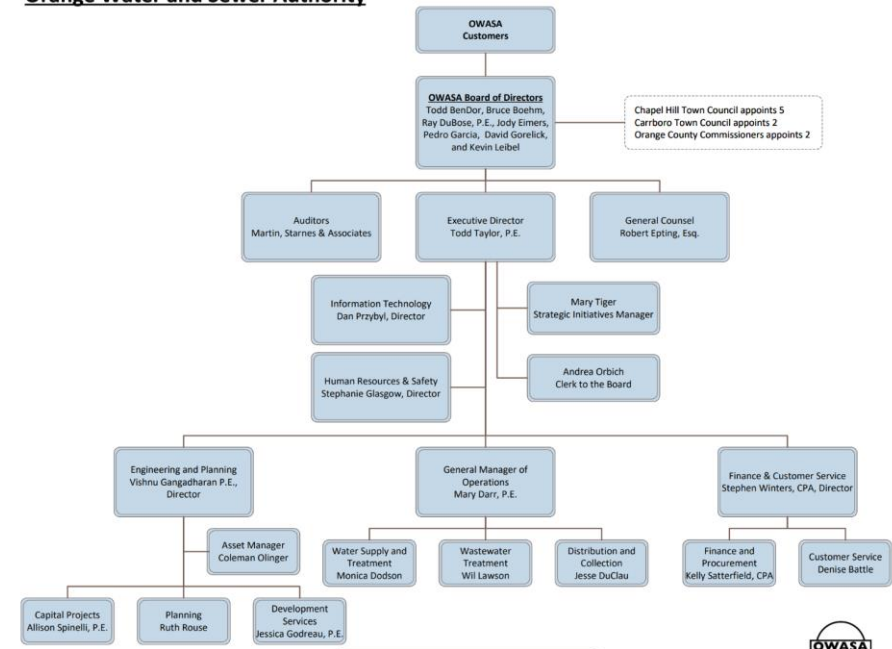
Implementation

Challenge: Balance between nimble and including everyone.

Forming the Team

- Project Champion / Project Manager
- Executive Support
- Operations Stakeholders
- IT Support
- Consultant Support

Orange Water and Sewer Authority



CMMS Selection

Frustration

Decision to Migrate

Forming the Team

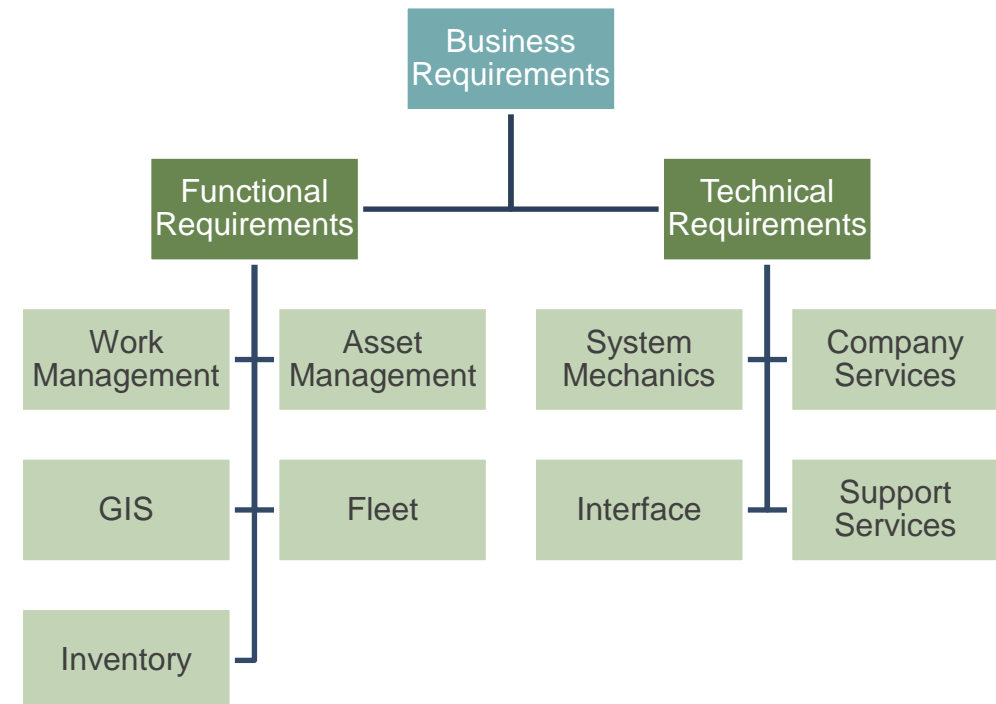
Identify Needs and Requirements

Implementation

Challenge: Focus on core functions first, make sure capabilities meet long term goals.

Identify Needs and Requirements

- Kickoff
- Needs, Wants, Nice to Have
- As-Is Business Process Mapping
- Software integrations
- IT requirements



CMMS Selection

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Forming the Team

Identify Needs and Requirements

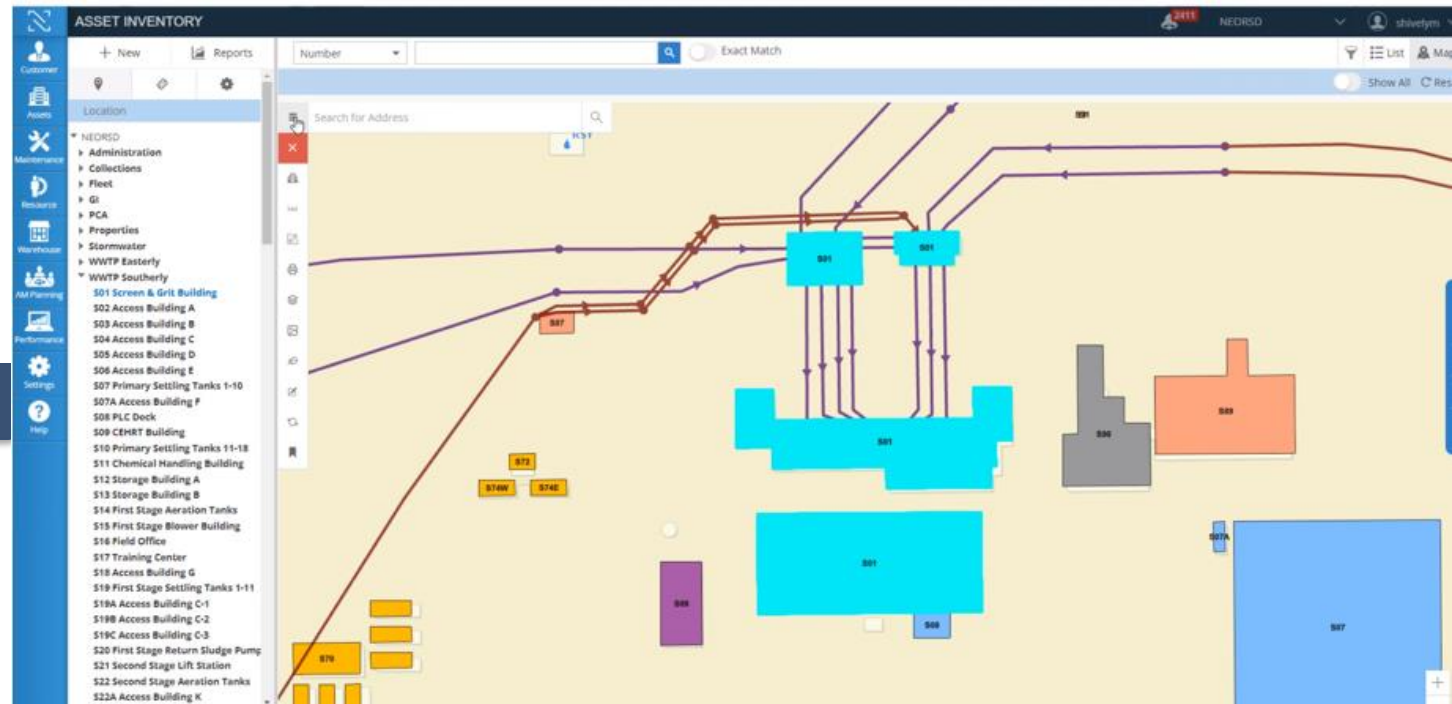
Vendor Research and Demos

Implementation

Opportunity: Involve O&M staff in demos

Vendor Research and Demos

- Understand the possibilities
- Scripted vs Unscripted
- Refine requirements



CMMS Selection

Frustration

Decision to Migrate

Forming the Team

Identify Needs and Requirements

Vendor Research and Demos

Developing the RFP

Implementation

Challenge: Balance detail & flexibility

Developing the RFP

- Finalize Requirements
- Draft RFP
- Set Evaluation Criteria
- Set Evaluation Timeline
- Purchasing & Legal Review

REQUEST FOR PROPOSAL

Orange Water and Sewer Authority
CMMS Software and Services
Issue Date: Thursday March 30, 2023

Submission Deadline: Friday, April 28th 2023 at 2PM

1. INTRODUCTION & OBJECTIVE

Orange Water and Sewer Authority (OWASA) is soliciting proposals from qualified software consultants (Vendors) to provide a Computerized Maintenance Management System (CMMS) for Asset and Work Order Management for their vertical asset facilities as well as fleet management purposes. OWASA will conduct a Proposal-Based Selection process to identify the best overall proposal and select a vendor with which to negotiate a contract. All vendors submitting Proposals shall have demonstrated experience and expertise in provision of CMMS software, CMMS integration, implementation, and support.

To be considered by OWASA, responses to this RFP must be received by 2:00 p.m. Eastern Time on Friday, April 28th 2023. Refer to Section 5 – Submittal Requirements for details.

2. BACKGROUND AND DESCRIPTION

Orange Water and Sewer Authority (OWASA) provides water, wastewater, and reclaimed water services to around 85,000 people within the 35 square mile Carrboro-Chapel Hill area. The water system is comprised of the three raw water pump stations, Jones Ferry Road Water Treatment Plant, 390 miles of distribution pipes, six drinking water storage tanks, and four drinking water booster pump stations. The wastewater system has 350 miles of wastewater pipes, 21 pump stations, two remote biosolids storage tanks and Mason Farm Wastewater Treatment Plant. The reclaimed water system is made up of a reclaimed water storage tank, a reclaimed water pump station and six miles of distribution pipes. OWASA's systems contain approximately 6,500 vertical assets, 1,800 for water supply and treatment facilities, 4,000 for wastewater treatment and reclaimed water facilities, and approximately 700 for support and operational facilities.

OWASA has been utilizing Infor's MP2 CMMS for facility and fleet maintenance functions at its water treatment plant, wastewater treatment plant, operations center and administration building for 20-years and has identified the need for assessing and implementing an updated modern CMMS solution for vertical facility management. OWASA's distribution and collection systems linear assets are currently managed with Cityworks as their CMMS solution, which does not currently require replacement.

This Request for Proposal's intent is to select an alternative CMMS System (System) for OWASA vertical facilities and fleet maintenance, with potential for an organization-wide CMMS solution for vertical facilities, distribution, and collection in the future.

CMMS Selection

Frustration

Decision to Migrate

Forming the Team

Identify Needs and Requirements

Vendor Research and Demos

Developing the RFP

Review

Implementation

Challenge: Set aside the time.

Review... Review... Review

- Adequate time
- Individual Evaluations
- Group Review
- Short List

F1: Management of Assets	23%	3.4	4.1	4.3	4.6	4.3	4.2
F2: Work Management	22%	3.2	4.4	4.2	4.6	4.2	4.0
F3: Manage Inventory/Registry	19%	3.3	4.0	4.0	4.2	4.0	4.0
F4: Procurement	13%	4.0	2.8	2.6	4.2	4.4	2.4
F5: Fleet	11%	3.8	3.9	4.0	4.3	4.4	3.9
F6: Accounting	13%	3.6	2.1	2.1	2.4	2.3	2.1
Functional Average Score		3.5	3.7	3.7	4.2	4.0	3.6
Functional Ranking		6	3	4	1	2	5
T1: System Mechanics	35%	3.9	4.3	4.0	4.3	4.1	3.5
T2: Company Services	23%	3.5	4.7	4.2	4.5	3.5	4.3
T3: Interface	23%	2.7	4.3	3.7	5.0	4.7	3.8
T4: Support Services	20%	4.0	4.4	4.2	4.0	4.0	4.0
Technical Average Score		3.6	4.4	4.0	4.5	4.1	3.9
Technical Ranking		6	2	4	1	3	5

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Review

Interviews & References

Implementation

Opportunity: Address the fears and validate the hopes.

Interviews and References

- Reference Scripts
- Interview Time Requirements
- Scripted vs Unscripted

	Met expectation	Did not meet expectation	Need additional clarification	Vendor did not demo
SCENARIO 1				
Item 1 - Service request creation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2 - Service request attachments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3 - Service request assignment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 4 - Asset assignment in service request	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 4 - Asset creation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 5 - Work order creation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 5 - Work order resource and cost tracking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 6 - Labor rate selection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 6 - Overtime tracking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 7 - Work order query	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 8 - Combine multiple service requests	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 9 - Geographical query and reporting roll up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 10 - Reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Implementation

Selection

- Contract Negotiation
- Project Timelines

Challenge: Balance rigid requirements with flexibility for unknowns

Takeaways and Questions

- Seek stakeholder engagement
- Demos are critical
- Document your requirements
- Don't shortchange the review process
- No one perfect solution.

