

# Multitenancy, Maximo, and Hosting - Cromwell Offers It All!

Session IMS-5339
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#### **Cromwell Introduction**

For over 130 years, Cromwell has been providing seamless integration and collaboration of building services disciplines, offering a unique set of skills that allow them to be your partner throughout the entire life cycle of your facility.



## Introducing Cromwell Facility Services

NEW FACILITY PROGRAM
DEVELOPMENT

FACILITY CONSULTING SERVICES

**FULL TURNKEY OPERATION** 

FACILITY CONDITION
ASSESSMENT





# Supporting Customers of all Types & Sizes













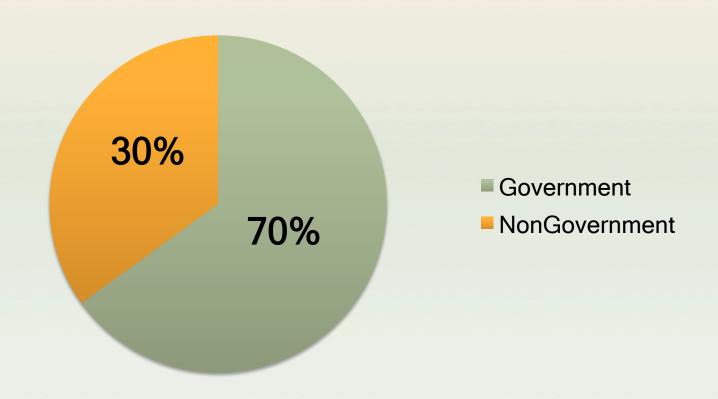




- High Tech Buildings
- Turf / Field
   Maintenance
- Large Facilities with Multiple Buildings
- Land Activity
- Manage Leases
- Work Orders, Events, Preventative
   Maintenance



#### **Customers**



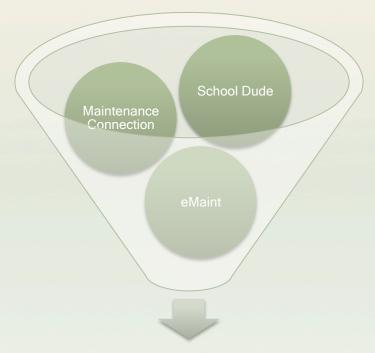


# Cromwell Facilities Services Division

The Facilities Services Division focuses on *proper* preventative maintenance and operational strategies that are critical for reliability and preservation of assets, as well as reduced operating costs.



## **But First a Step Back...**



**Haphazard Maintenance** 



# IBM Maximo Asset Management – 7.6 to the Rescue

#### Improve visibility, increase resource utilization and reduce costs



**Focus on User Experience** – new look and feel, improved navigation and data access

Analytical insights through Reporting, KPI's and Dashboards improved performance, increased user access and better tools to monitor the health of your business

Functional Enhancements improved crew management and service addresses to support maps

**Technology Improvements** – expanded install and platform support, Multitenant architecture, serviceability

Expanded capabilities to support business intelligence

Intuitive navigation for users

**Increased Serviceability** 



### Why IBM & Maximo?

- Cromwell was already an IBM customer
  - IBM Lotus Notes
  - IBM Server Platforms
- Demo provided by IBM & Interloc
- Interloc was driven to make project success
- IBM was driven to provide support



#### **Cromwell was Client #1**

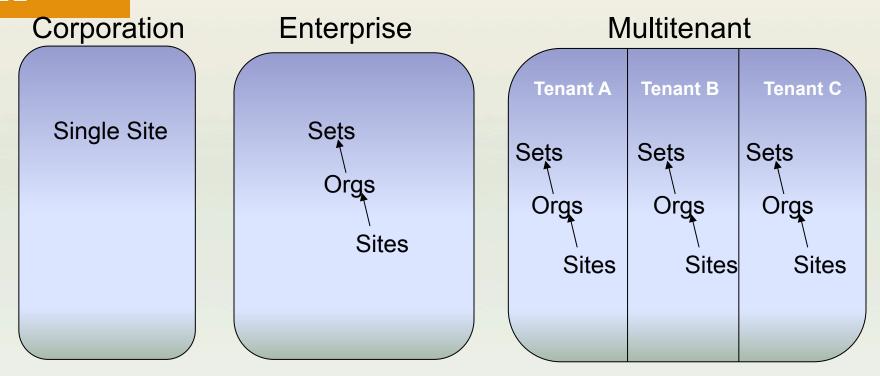


- Strong partnership with Interloc Solutions leading the effort
  - From education through implementation to go-live and support
  - Continued support for Cromwell and Cromwell customers
- Support provided by IBM
  - Ensured good experience

Implement Maximo 7.6 for Cromwell maintenance



#### **Evolution of Maximo from single CROMWELL** instance to multitenant...



... the opportunity to form a new business unit



# High Tech Buildings Have Common Needs

- Proactive facilities maintenance
- Business continuity assurance
- Maximize facility life expectancy
- Maintain energy-efficient aspects of building for

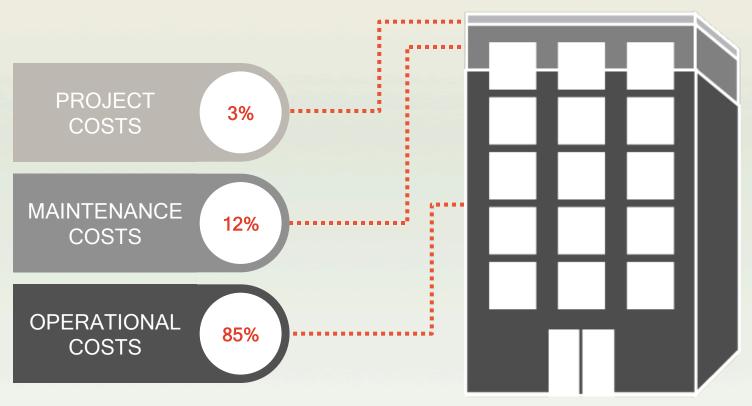
maximum ROI





#### **FACILITY COSTS**

20% of operating costs can be reduced by proper preventative management measures and proper long range planning.





## **Service Offerings**

- PM Programming
- Operational Budget Planning
- Contract Management & Negotiations
- Head-hunting
- Facilities Condition Assessments
- O & M Creations
- Systems Plan Development
- Owner's Rep
- Construction Management
- Roof Evaluations
- Forensic Investigation Leak Detection
- Thermal Imaging
- Turn-key Operation





Proper Preventative Maintenance will Predict the Life of Equipment

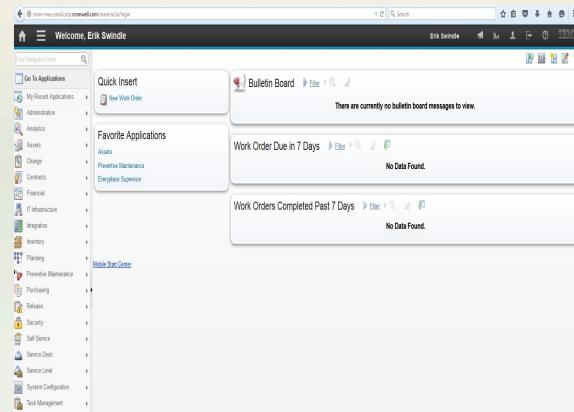
	CROMWELL
PM Tas	k List: Outdoor DX HVAC Units
Include	s Rooftop Packaged Units, Condensing
	nd Air Cooled Condensers. Tasks apply
	units that have the applicable components
Caution	: ONLY qualified personnel should
	n this work.
Daily (u	inits over 25 tons)
	Check general operating conditions, including:
	_Damper position
	_Vibration/noise level
	_Supply air temperature
	rly Inspections (recorded as OPM)
To be co	onducted on all units one ton and above
	Check and adjust the following, as necessary:
	Belt tension
	_Damper controls/linkages
	Bearings
	_Time clock
	Pulleys
	_Filter conditions
	_Vanes
	_Tighten bolts/nuts
	Check condensate drains
	Inspect evaporator and condenser coils
	Check refrigeration lines (insulation, oil leaks)
	nual Inspections (recorded as S/A PM)
	onducted on all units, subject to service conditions and
	cturer's recommendations.
	Lubrication of following items:
	_Blower bearings
	_Damper linkages (not sealed bearings)
	_Condenser fan
	Shaft
	_Blower motor
	Check fan blades (e.g. cracks, setscrews)

- Extensive PM Checklist
- Utilize Current Staff or allocate
- Proper allocation of staff time
- Associate with Maximo Work Order System



## Facility Management System

- Asset Management
- CAP EX Forecasting
- Work Order System
- Bar Coding
- Labor Audit
- Contract Management
- Cloud Data Management

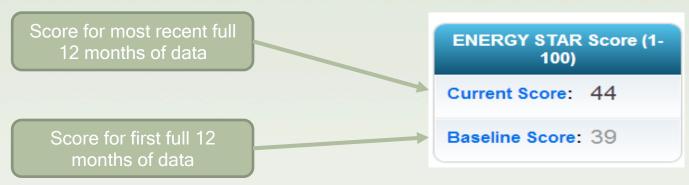




# Level 1 Audits Benchmarking

Energy Star uses data, collected every four years, from the Commercial Building Energy Consumption Survey (CBECS) for comparisons to your building.

Based on this comparison, your property will receive an Energy Star score from 1 - 100. A score of 50 represents median performance, while a score of 75 indicates a top performer.

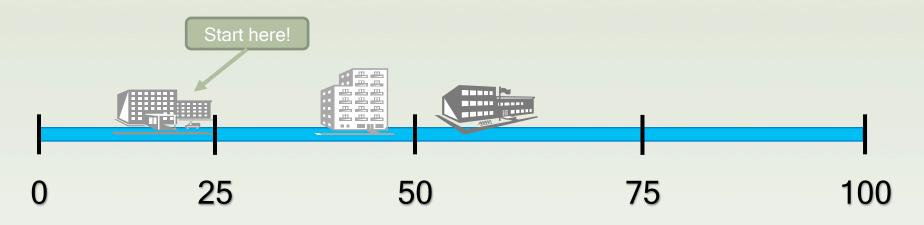




# Level 1 Audits Portfolio Analysis

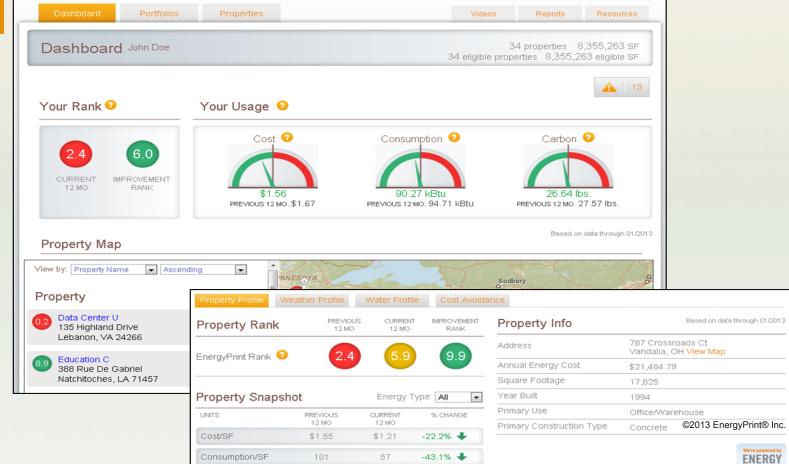
Comparing buildings within a portfolio becomes simple using the Energy Star score.

The lowest rated performer should be the first target for an energy audit.





### **How Are Your Buildings Doing?**



-20.1%

Carbon/SF



# What Is The Cromwell Energy Dashboard?

- A simple way to Find, Track & Validate energy savings
- Translates complex utility information into usable knowledge that compliments solutions
- Delivers insights that enable an energy services conversation and actionable plans
- Helps justify improvements and investments, and ultimately prove ROI





#### To Summarize?



Maximo 7.6 Helps Answer 4 Key Business Questions:for You



Continuous energy tracking & benchmarking



#### **Success Metrics**

Reduction of Operation Expenses

- •Reduction of Capital Spend with proper asset tracking
- Seeing a ROI of less than 2 years once investing



### **Next Steps**

Joining with other business partners to increase exposure

• Focus for 2016 - K-12 & Higher Education - Areas where budgets are the most constraint

 Focus for 2016 - Partner with Government Entities to provide Maximo to multi-site installments



## **Questions? Thanks!!**

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