Maintenance Road Show

What does it take to maintain a campus?







What are the costs?





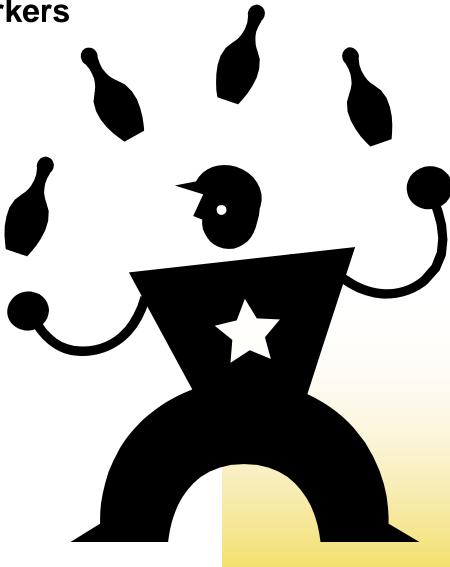
Buildings:	267	Campus Sq. Feet:	3,470,408 GSF	
Roads:	8.28 miles	Walkways:	8.81 miles	
Exterior lights:	1,000	Exterior stairways:	164	
Exterior steps:	UAF Facts	srand Numb	Plas res	
Parking spaces:	5,137	Parking lots:	24 acres	
Utilidor:	8 miles	Rooms: (assignable)	6500 approximate	
DDC System	16,000 Hard Building Points	66,000 Auxiliary points (Room thermostats, lighting control, etc.)		

Approximately 3 million square feet of campus is heated and powered by UAF's combined heat and power plant



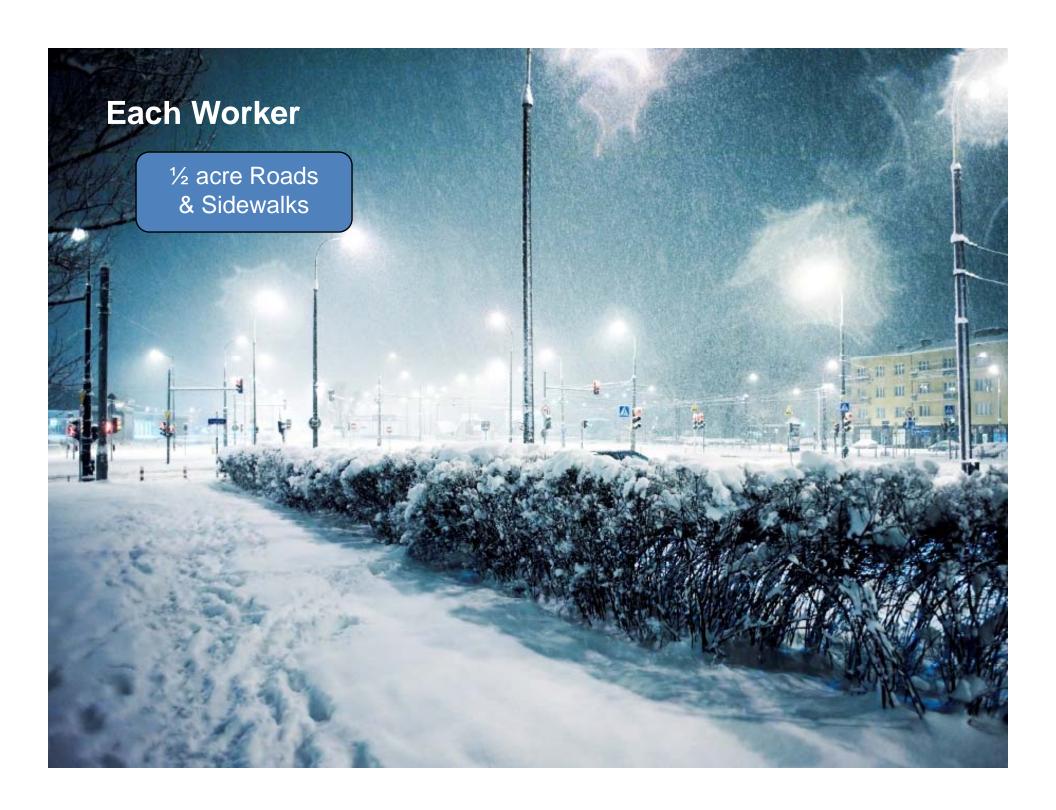


67 Maintenance Workers









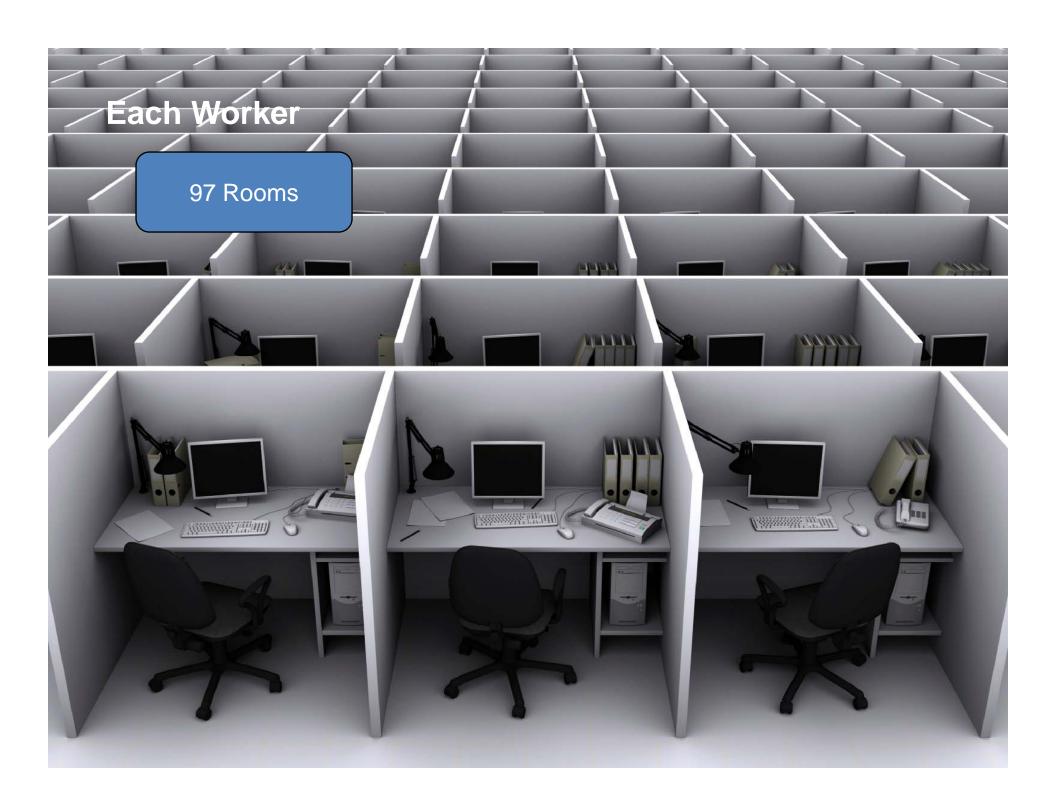


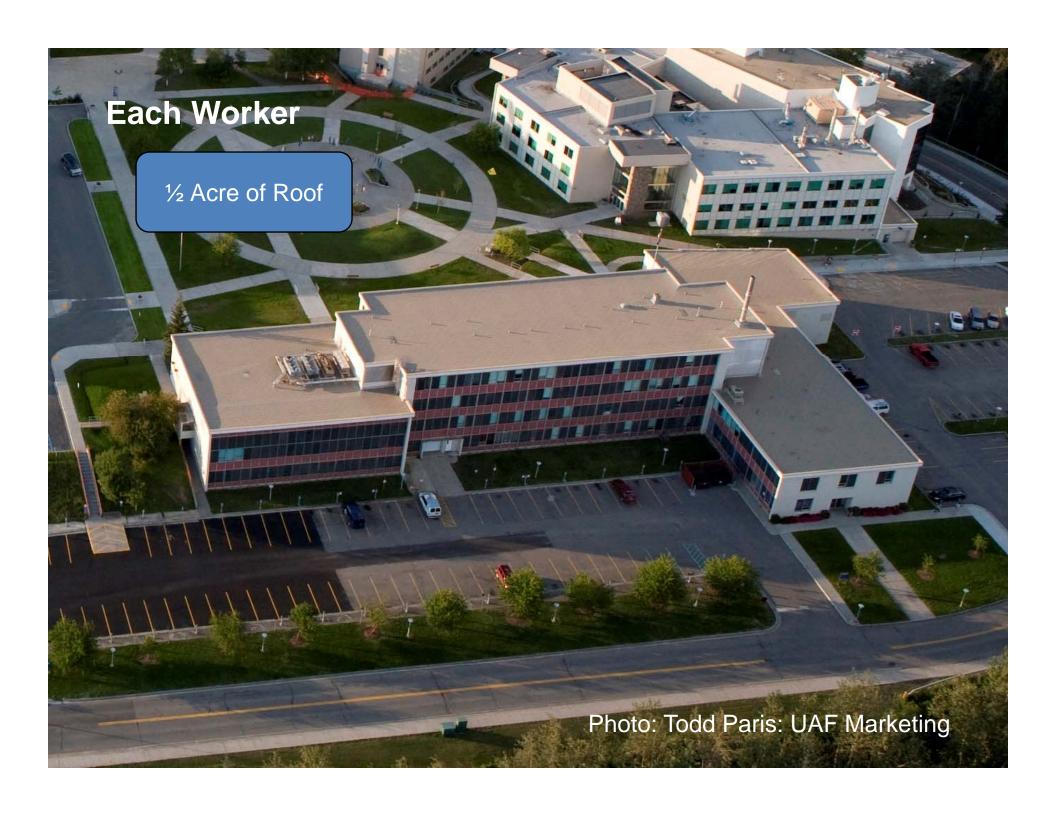












UAF Facilities Services

UAF Facilities Services is responsible for all Facilities at UAF. Maintenance funds provided to FS and other departments are used to maintain UAF Facilities.

FS Operations	Division of Auxiliary and Contract Services
Roads & Grounds	Vehicle Pool
Labor	Shuttle Bus
In House Custodial	Contracted Custodial
Warehouse	Post Office/Mail Services
Equipment & Vehicle Maintenance	Parking Services
Customer Service Center	Patty Ice Arena

FS Maintenance Shops

Carpentry

Painting

Sign Shop

Lock Shop/Key Issue

Plumbing

Asbestos

HVAC

Heating

Ventilation

Air Conditioning

Refrigeration

Sheet Metal

Electric

Housing







UAF Facilities Services

UAF Facilities Services is responsible for all Facilities at UAF. Maintenance funds provided to FS and other departments are used to maintain UAF Facilities.

FS FY10 Expenditures \$19.3 M

Maintenance Expenditures \$10 M Operations Expenditures \$9.3 M

Maintenance Expenditures by other UAF Departments
Approximately \$5 M

FS Maintenance Shops

Carpentry

Painting

Sign Shop

Lock Shop/Key Issue

Plumbing

Asbestos

HVAC

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Housing







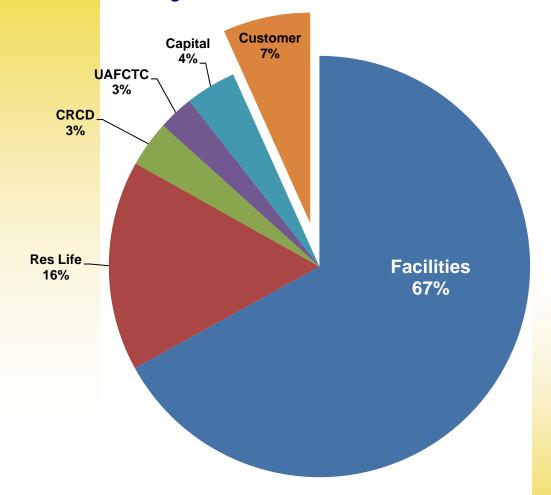
Total UAF M/R Expenditures

		UAF
FY08 Expenditures	Operating	\$14.9 million
FY09 Expenditures	Operating	\$17.0 million
FY10 Expenditures	Operating	\$15.4 million
FY11 Calculated	Operating	\$16.4 million

The UAF calculated need is based on the greater of 1.5% of adjusted building value or total state appropriations for M&R (base funding for M&R).



Who Pays for what?



Maintenance Work Orders by Funding Source





What is Maintenance?



Recurrent day-to-day work required to preserve or immediately restore a facility or fixed equipment to such a condition that it

can effectively be used for

its designated purpose.



(Regents' Policy 05.12.020.F)









Common Maintenance Items















What is Maintenance?





Repair Toilets	Leaking Faucets	Unclog Drains	RO Water System Service
Pumps	Sewer Lift Stations	Fire/Sprinkler System	Painting
Keys	Door Locks	Flooring Tile	Carpet Replacement
Restroom Partitions	Paper dispensers	Broken Windows	Damage to walls
Minor Concrete Repairs	Pool Maintenance	Emergency Showers Eye wash repairs	Re-lamping/ Lighting Repair















What is not Maintenance















Examples of non Maintenance Items

Furniture Repair	Hanging Pictures	Installing Shelves	Projector and screen installations
Mailboxes Door Slots	Repairs to Food Service Equipment	Repairs to department owned equipment	Relocating outlets
Plugged in equipment			

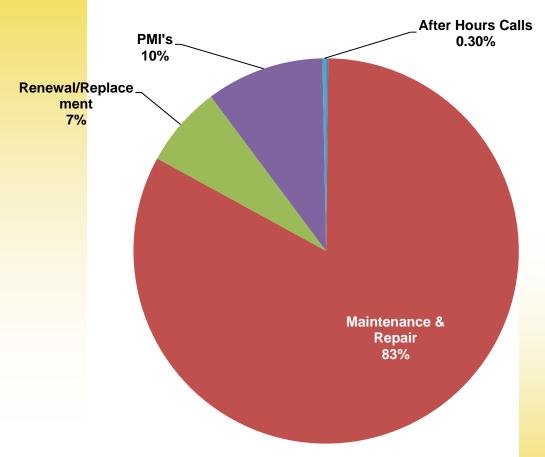








Where Maintenance \$ are Spent



Maintenance Work Orders by Class

PMI's are primarily things that "spin" and filters.

Renewal & Replacement – the replacement of worn-out parts to extend the life of a building.





Who decides what maintenance gets done?

Planned	Unplanned	
PMI	Emergency Calls	
Projects	Customer Requests	
Deferred Renewal	Work Order Priorities	







Shop Hourly Rates

Rates set annually - Available in April

Asbestos Shop	\$81.00
Carpentry Shop	\$81.00
Electrical Shop	\$81.00
Housing Shop	\$81.00
Plumbing Shop	\$81.00
HVAC Shop	\$81.00

FY11 Hourly Rates for all Maintenance Shops are \$81/hr





Shop Rates

How are they calculated? (How do you get to \$81?)

Average Hourly Rate of Pay for Shop Worker	rs	
--	----	--

\$25.11/hr

Add Benefit Rate - 70.9%

+ \$17.80

Yields cost per hour

\$42.91

Multiply by hours paid per year – 2080 gives annual cost.
(40 hrs x 52 weeks) = 2080

\$89,252.80





Shop Rates

How are they calculated? (How do you get to \$81?)

2080 hrs per year

But.... How many hours can they really work (bill)?

Annual Hours	2080
Less 12 Holidays per year (12 x 8)	-96
Less 120 hrs sick leave per year	-120
Less 168 hrs annual leave per year	-168
Less 2 – 15 min breaks per day (212 days x .5 hrs)	-106
Less 1 Safety meeting per month	-12
Less 78 hours of training & sanctioned events	-78

Available hours to bill 1500







Shop Rates

How are they calculated? (How do you get to \$81?)

1	Annual Cost	\$89,252.80
	Divided by Available hours to bill	1500

\$59.50/hr Add these costs to recover

Supervisor's Salary \$6.05/hr 11 person shop

Vehicle & Fuel \$6.58/hr

Shop Supplies, Uniforms, Phones, etc. \$5.42/hr

\$3.39/hr Customer Service charge \$80.94/hr

Shop Rate Rounded

\$81.00/HR







How does this rate compare?

UW - SEA		OSU - Corvallis	UM - Ann Arbor		
Carpenter \$ 70.43		\$56.00/84.00	\$	82.02	
Plumber	\$	84.11	\$58.00/87.00	\$	82.71
Electrician	\$	94.80	\$60.00/90.00	\$	81.50
	FY11 rates			FY10 rates	

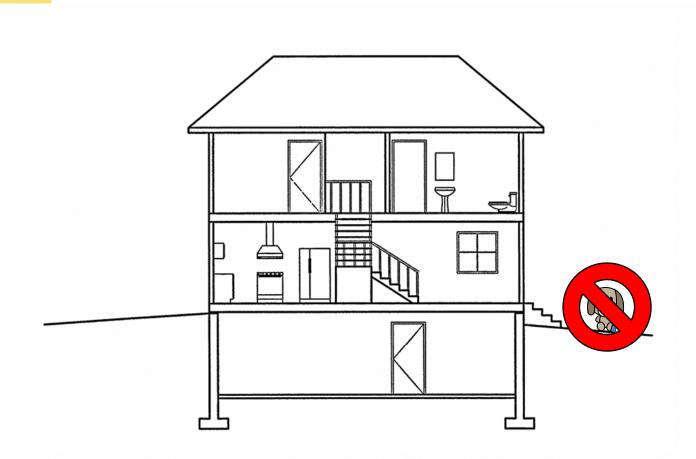
Variances:

Regular Time Rates, Overtime Rates, Alteration Rates vs. Maintenance Rates, Weekend Rates, Evening Rates, Consumable Charges, Project Manager Charges.



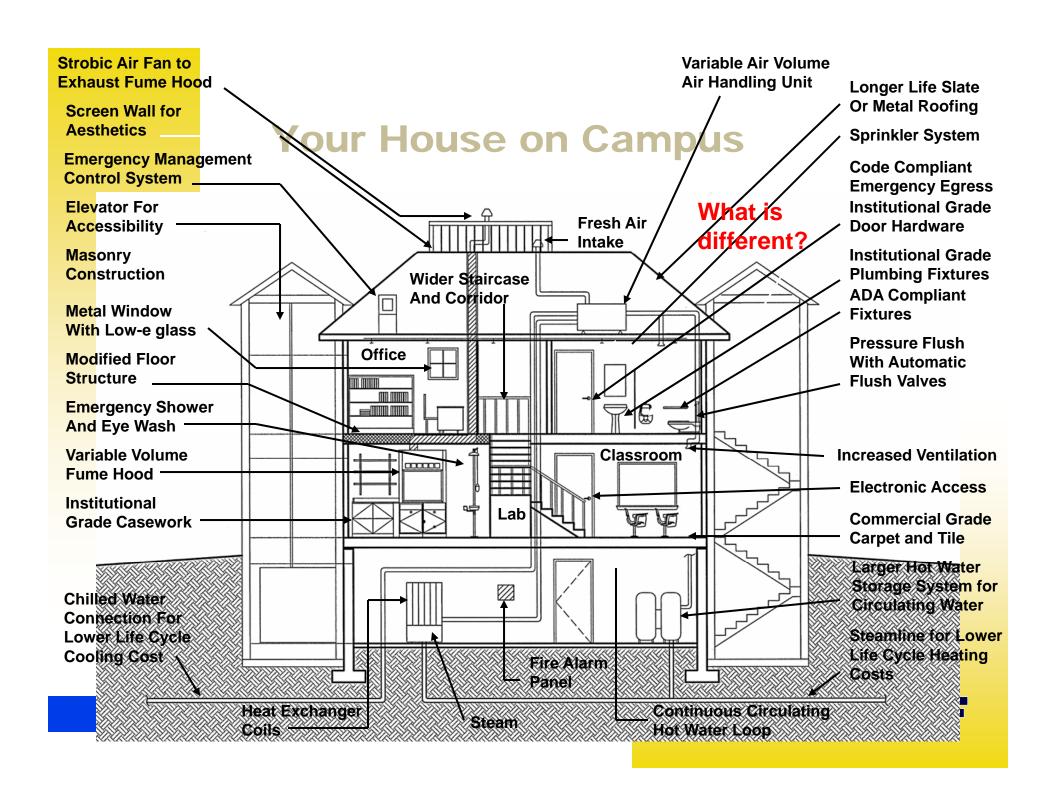


Your House

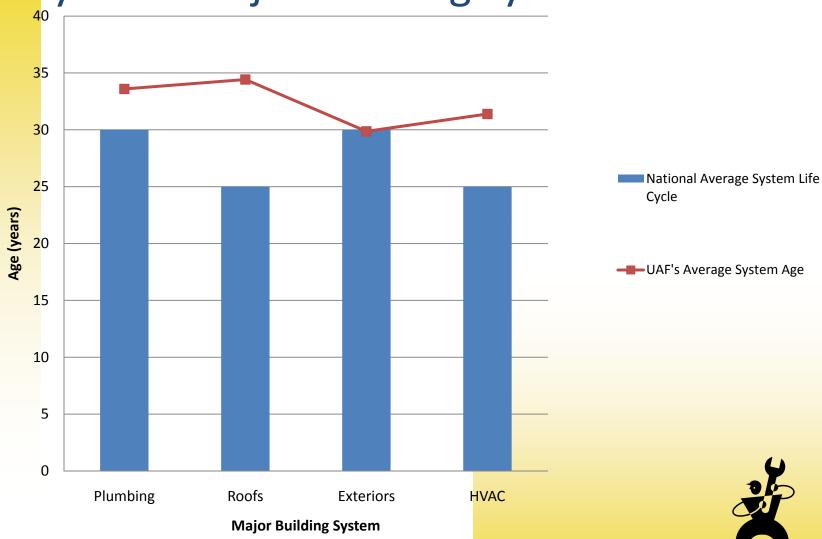








Life-cycle of major building systems







What are we doing?

- Building Coordinators Program
- Transparency
- Responsive
- ➤ Maintenance Road Show
- ➤One Number to Call 474-7000 (24 Hrs)
- Benchmarking to Other Universities

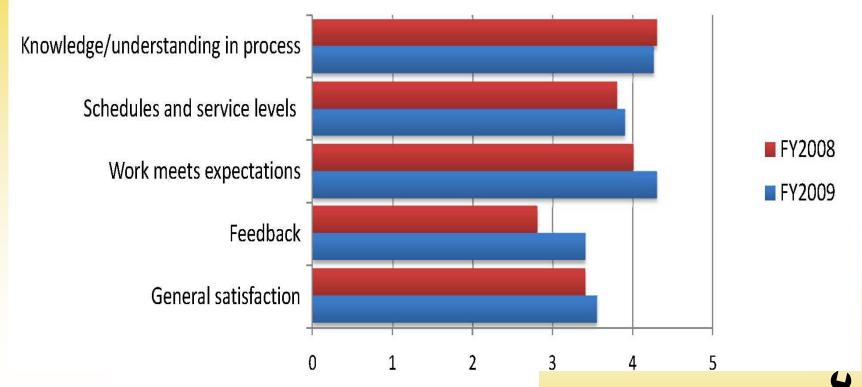




How are we doing?

Surveyed: Eworf users 811 email addresses











How are we doing?







Ideas for Improvements

What are we doing well? What can we do better?



