

#### DAVID REYNOLDS. P.E., F. SAME

Associate Vice President, Facilities University of North Texas

- Joined UNT in 2013
- 35 Years of Installation / Campus Operational Management



- 30-year career as a Colonel in the US Air Force including Installation (Campus), Major Command (System), Pentagon and combat assignments
- Vice President, Texas Association of Physical Plant Administrators

Bachelor of Science, Civil Engineering Master of Political Science Master of Civil Engineering Master of National Security & Strategic Studies Georgia Institute of Technology Midwestern State University Clemson University US Naval War College



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Carnegie Tier One Research

38,000 Student headcount

7 Million Building GSF System

176 Buildings

900 Acres

Housing for 6,800 students

Established in 1890

336 Facilities Employees/inc Housing

High user density/older facilities

#### Glen Haubold Associate Vice President, Facilities and Services New Mexico State University



- NMSU in 2008
- University of North Texas
- Texas Christian University, Texas Woman's University
- ARCO Oil and Gas, Rockwell International
- Supervisor's Toolkit Trainer
- Board of Directors in RMA, CAPPA, and APPA
- President's Award
- Pacesetter Award
- Meritorious Service Award
- Principal at GHaubold Consulting

Bachelor of Business Administration Texas Christian University



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## New Mexico State University



Doctoral High Research

14,000 headcount

Established in 1888

Housing for 3,200 students

1,200 acres

383 Educational Buildings

7 Million Building GSF in System

FM – 325 employees

Cogeneration and thermal storage



All About Discovery! ™ New Mexico State Univers Facilities and Services

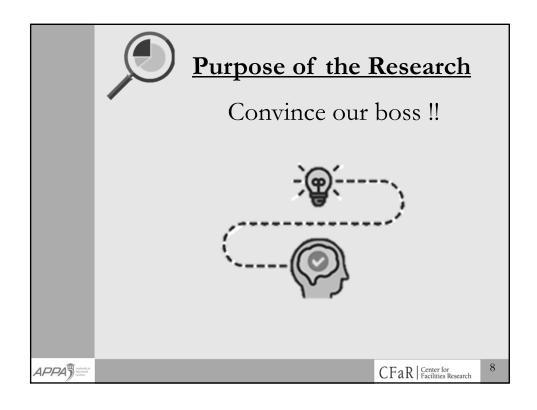


## Purpose of the Research

- Broaden knowledge base of "chargebacks"
- Generate discussion regarding advantages and disadvantages
- Are there issues?
- Identify Recommendations

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#### What is Recovery and Recharge?

- Widely used funding mechanism in university facilities management
- Recapture costs in the facilities unit
  - Non-maintenance actions
  - Shops or Planning, Design, Construction?
- Little standardization

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#### **Perceptions**

- Necessity to offset budget shortfalls in shops
- Uncertain histories
- Ambiguity in definition & application

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### Why Study This?

- Lightning rod with academic units
- Facilities staff accounting challenges
- "Tax burden" generally not understood by leadership

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#### **Target Audience**

- Chief Financial Officers
- Budget Officers
- Facilities Team



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### The Research Process

- "The Charge of the Rate Brigade"
  - Don Guckert, Jeri Ripley King, 2004
- Small group interviews
- Eighty-six survey responses
- Seven interviews
- Final interview

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#### The Research

Small Group Email

- Little Historical Record
- Customer Gripes
- Multiple Charges
- Financial Goals / No goals
- Positive / Negative Reactions

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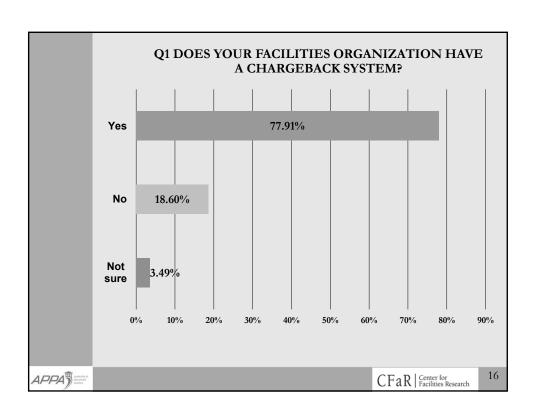
### The Research

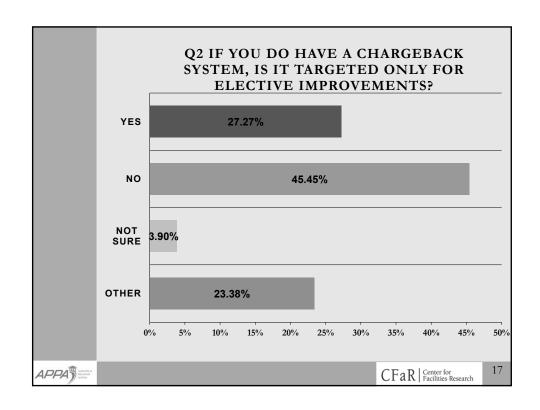
#### The Survey

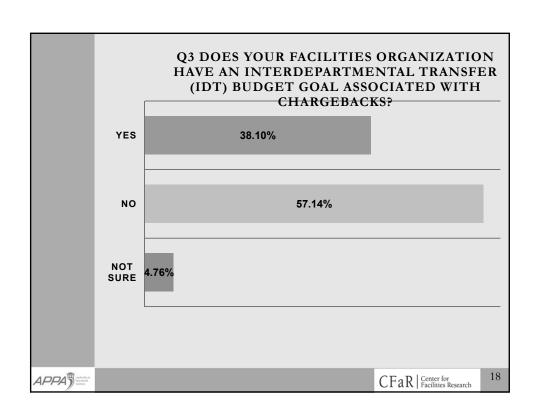
- 78% of respondents had some variety of "chargeback"
- Enhancements
- FPDC fees
- Auxiliary / Athletics
- Parking / Transportation

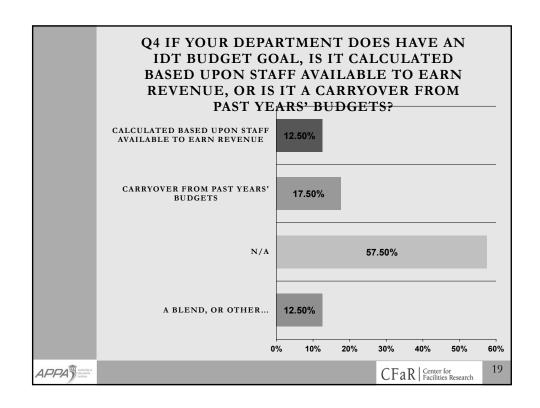
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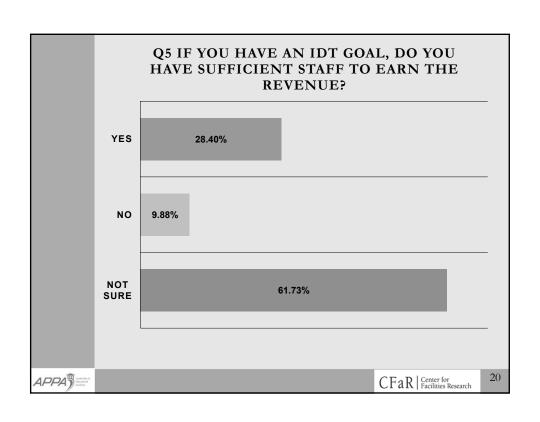
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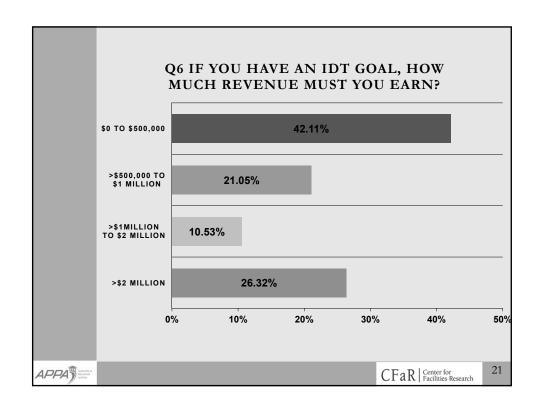


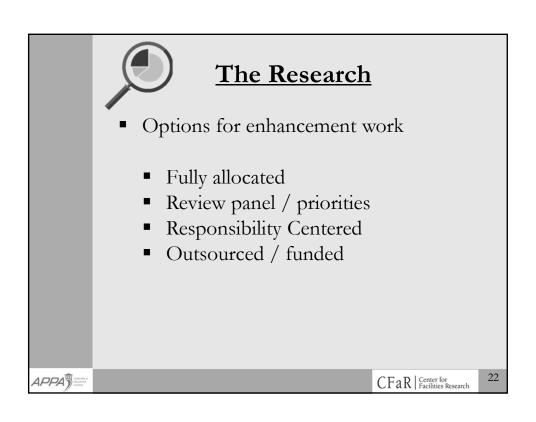














#### The Research

- Options for enhancement work
  - Materials only
  - Incremental
  - "Icing on the cake"

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## New Mexico State University

- Fully allocated hourly rates for nonmaintenance
- Fee based for Project Development and Engineering (or FPDC)
- Gross square foot rate for Research Park, Housing, and Athletics

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# New Mexico State University

 Recovery
 \$ 2,696,877

 Agreements
 \$ 1,997,848

 Operating Expense
 \$ 2,984,687

 Fringe
 \$ 2,877,711

 Salary
 \$ 8,246,340

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### **NM State Hourly Rates**

FY19 Rate FY19 OT Rate FS Vehicle Maintenance 37.48 47.61 FS Structural Maintenance 36.23 46.01 FS Facilities Maintenance 50.61 64.28 FS Custodial 38.05 29.96 **FS Electricians** 47.95 60.9 FS Grounds 26.03 33.05 FS Mechanical/HVAC 46.64 59.23 FS Access (Locksmith) 43.93 55.8 FS Paint 27.12 34.44 FS Sign Shop 30.96 39.32 FS Solid Waste & Recycling 55.34 70.29

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## NM State Project Development and Engineering Rates

- 11 % to \$500,000
- 4.25% above
- Everything is permitted
- A/E nearly always hired

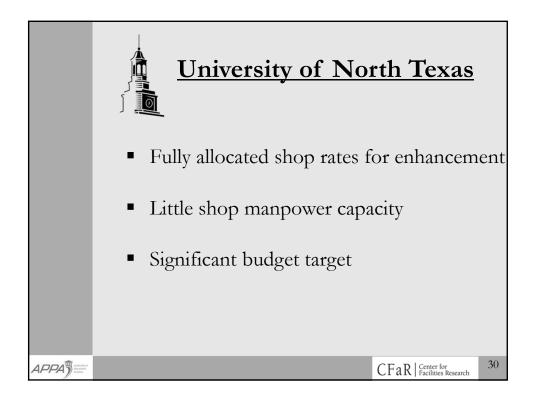
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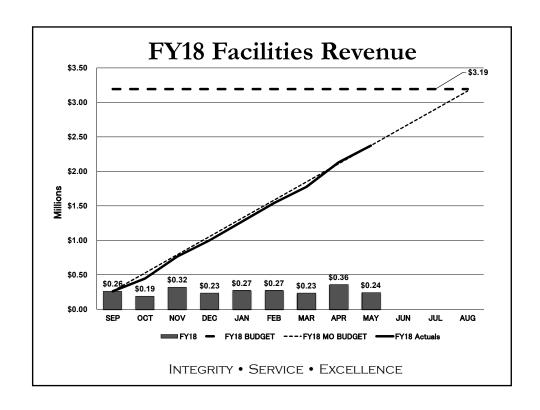
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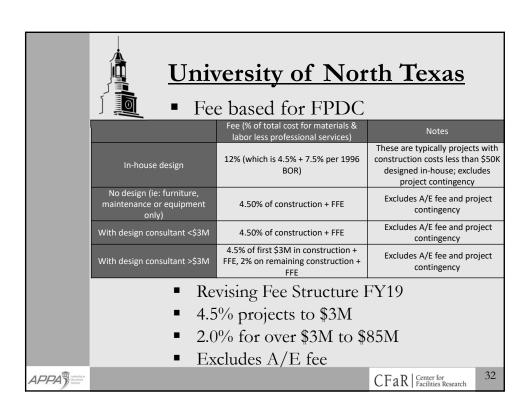
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#### **NM State GSF Rates** Arrowhead Cost Per Sq. Foot Model Research Applicable Sq. 10,291 < 1 Research Park GSF Ft. 2 Total Facilities Shop Expenses Total Shop Exp 5,902,460 Total Admin 1,379,920 3 Total Facilities Administrative Expenses Exp Total Exp 7,282,380 4 Total Facilities Expenses FY15 Inst 5 Less Institutional Support Support (NMSU has an institutional support charge and subtracts costs already recovered to avoid "double recovery") **Total Costs** 6,524,447 < 6 Total Facilities Costs to be recovered 28 APPA CFaR | Center for Facilities Research

	NM	State GSF Rates
	Total NMSU Sq. Ft	5,656,126
	Total Non-E&G Sq. Ft.	2,199,650
	Total E&G Sq. Ft.	3,456,476 < 7 Total Educational and General GSF
	Total E&G Cost/Sq. Foot	1.8876 < 8 Dollar Rate per GSF
		Divide total (#6) by GSF
	Total Applicable Sq. Ft	10,291 < 9 Square footage of this unit (Research Park)
	Total	19,425.30 < 10 Total charge
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#### The Research

- Final Interview
- Mike Johnson
  - -- AVC Facilities, University of Arkansas
- Matt Adams
  - -- President FM2

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#### **Conclusions**

- No standard approaches
- Cost model must be conscious / informed decision by university leadership
- APPA would benefit from definition and additional research

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