

Custodial Services & Student Transportation Operations





An Overview & Discussion with the Privatization Advisory Committee



CMS Auxiliary Services & Privatization Advisory Committee Meeting **Executive Summary**

- CMS Auxiliary Services is the operational arm of CMS
 - ~4,000 employees serving 170 schools + 21 million sq ft of building space on 5,000+ acres
 - a Vision anchored in supporting academic achievement
- Our Business Model is the key to maintaining high levels of service quality
 - Over the past five years, it has enabled ~\$40 million reduction in our Operating Budget

Quality Strategy + Continuous Improvement = Operational Effectiveness & Efficiency

- Strategically pursuing outsourcing opportunities is also a part of our Business Model
 - Numerous external studies and staff expertise have informed our thinking to date
 - Currently, CMSAS spends \$18.5 million on outsourced services
- Today, we welcome the opportunity to begin an open and thoughtful dialogue about potential, additional outsourcing opportunities
- Agenda: CMSAS Overview + for Custodial & Student Transportation Operations
 - Operational Overview & Scope
 - Operational Performance
 - How We Define & Measure Quality in Support of Student Achievement the standard for all
 - Outsourcing where we've been + a preliminary assessment of some options





CMS Auxiliary Services: Overview & Scope



Guy Chamberlain

Associate Superintendent for Auxiliary Services



We Are The Operational Arm of CMS, with a Vision & Mission Anchored in Supporting Academic Achievement



Vision

CMS provides all students the best education available anywhere, preparing every child to lead a rich and productive life

Mission

To maximize academic achievement by every student in every school

CMS Auxiliary Services

Our Vision

To continuously enhance the CMS learning environment by providing leading edge services that support academic achievement

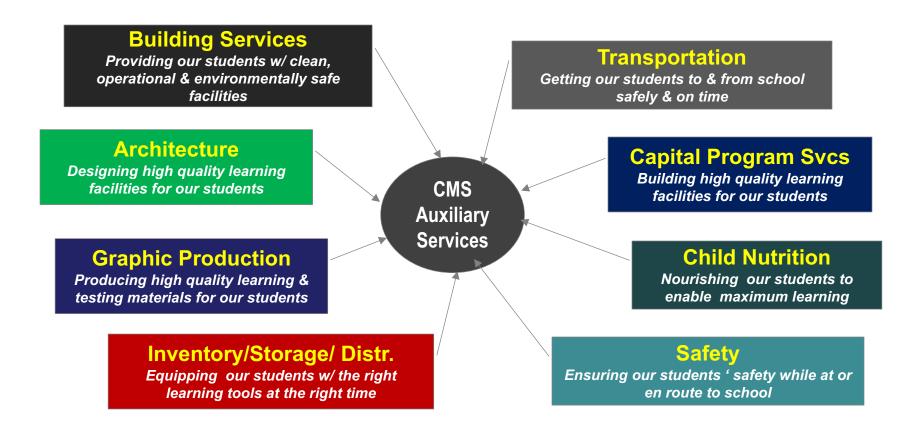
Our Mission

To relentlessly provide services and facilities where students and staff can be safe and successful



CMS Auxiliary Services: Who Are We?

CMS Auxiliary Services Consists of 8 Operating Areas, Each Uniquely Contributing to CMS Student Achievement





Our Business Model: A Strong Focus on Quality & Continuous Improvement

CMSAS Quality Strategy

How "Process" Systems Work



What: Consistent Operational Excellence

How: Sustainable, Transparent Mgmt By Fact

Continuous Improvement Plans

Identify strategic direction, key benchmarks &KPIs, and defines annual objectives

Quarterly Management Reviews

Track KPIs & progress against annual objectives + highlight areas for improvement for actionability

ISO 9001 Certified System

Ensures
consistent output
& continuous
process
improvement



That Focus Enables CMS Auxiliary Services to Effectively Support Academic Achievement



Transportation Operations —> 95% On-Time Arrivals



Custodial Services

90%+ Rating on Quality Audits



Child Nutrition Services

Exceed USDA Nutrition Standards

100% or Better Sanitation Scores



Maintenance Services

90% Work Order Completion Rate



Inventory & Distribution

97% Textbook Inventory Accuracy

Strategically Pursuing Outsourcing Opportunities Has Also Been A Part of Our Business Model

Studies Conducted:

- ✓ 2006 Management Partnership Services, Inc. (*Transportation Consultant Firm*)
- √ 2006 Trammell Crow
- ✓ 2006 & 2002 ServiceMaster
- √ 2004 CMS & Chamber of Commerce Efficiency Review
- ✓ 2004 Aramark
- ✓ 2002 McKinsey Report
- √ 1994 Modern Management

Key Learnings

- overall, all department studied were consistently assessed as very effective and efficient operations..but some improvement opportunities were identified
- All identified areas of opportunity have been addressed with one of two actions:
 - integrated improvements into internal operation OR
 - outsourced work



When Considering Outsourcing Any CMSAS Services, We've Applied Six Key Criteria

- 1. **Direct Student Contact** the safety of our children is paramount. Similar CMS standard of employee screening should be applied
- 2. Significant, Sustainable Cost Savings Delivery that largely outweighs any impact to the schools
- 3. Stand Alone Services which can be discreetly carved out w/ no residual, negative operational impact
- 4. Areas of CMS Marginal Expertise/Resourcing where an external vendor can do it better and cheaper with little to no risk
- 5. Low Risk relatively easy to ensure service quality & maintain service levels with minimal difficulty to return in-house
- 6. Minimal RIF Impact to CMS Employees



Currently, CMS Auxiliary Services spends \$18.5 million on Contracted Services

Some Examples:

- Lawn Maintenance
- Security Camera Repairs
- Fire Alarm & Safety Inspections
- Sprinkler and Elevator Inspections
 - Mechanical Designs
 - Roofing
 - Mobile Moving & Erection
- Custodial & Kitchen Equipment Repairs
- Contract Cleaning Administrative Sites
- Bus A/C Repair and Maintenance Service, Labor Only
 - Special Needs Transport of Pupils
 - Bus Interior/Exterior Maintenance
- Bus Surveillance Camera & Radio Repair and Maintenance



Understanding the Criteria for Consideration

To recommend to the BOE -- on Feb 14, 2012 – additional outsourcing opportunities within key areas of CMS that deliver on the following criteria:

- People <u>minimize</u> negative impact to CMS employees -- reduction in force/salary/benefits, shifting of work responsibilities
- Money <u>return</u> of substantial, ongoing net savings to the CMS Operating Budget when brought to scale
- Service <u>maintain or exceed</u> current service levels and service quality to key stakeholders in support of student achievement
- *Risk* <u>minimize</u> scope of risk to CMS ease of returning service in-house
- Measurement ability to <u>reliably</u> project and measure the most critical aspects of the outsourced effort – \$ savings, service quality, etc.

We Have Developed and Completed A *Preliminary* Outsourcing Assessment

Understanding the Assessment Tool

What This Is an informed *preliminary* assessment of the viability of some initial outsourcing options What This IS NOT a recommended list of areas to outsource **Color Index** likely will not satisfy criteria OR risk of failure to CMS is high could meet criteria but more information needed likely will satisfy criteria ? externally driven by bidding process **Example: Full Operational Outsourcing** Overall assessment for that option **Committee Defined Selection Criteria** Option 1: Option 2 Option 3 Option 4 Option 5 **PEOPLE** MONEY

Assessment of each

criteria by option



MEASUREMENT

SERVICE

RISK



Custodial Services Operation



Rusty Fuller
Director of Custodial Services



The CMS Custodial Services Mission Support Academic Achievement by Providing Leading Edge Cleaning Services *Daily* that Enable Clean & Safe Learning Environments for Children



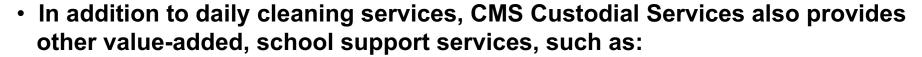


Overview & Scope

Second largest K-12 custodial operation in NC responsible for the second

largest K-12 campus footprint in NC

- 670 employees
- 21,000,000 square ft of buildings
- ~5,000 acres
- 650 buildings
- + 1,200 mobile classrooms



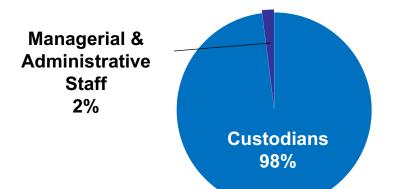
- Open and closing of schools daily
- Emergency Response
- Summer Cleaning
- Athletic Event Support
- Inclement Weather
- Shipping/Receiving Support

- Equipment Repairs
- Community Use Support
- Elections Maintenance Support
- Furniture Relocation Support
- Solid Waste/ Recycling

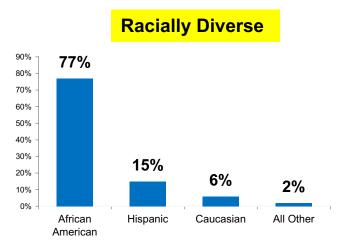


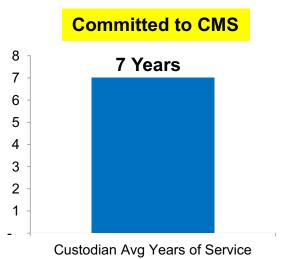
CMS Custodial Services Staffing Overview

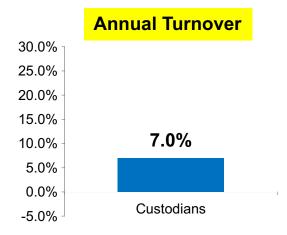
670 Dedicated Employees











Our Employees Enable Us to Do Significantly More with Significantly Less

Custodial staffing has not kept pace with facility square footage growth... so scope of responsibility per employee has exceeded industry standard

Year	Total Square Footage	# Custodians	Square Feet/ Employee
1985	8,400,000	391	21,479
1995	10,600,000	465	22,795
2005	17,100,000	732	23,360
2008	19,834,058	809	24,516
2009	20,555,363	748.5	27,462
2010	21,100,000	733.5	28,766
2011	20,418,272	669.5	30,497

CMS Custodial Services Comparative K-12 Data

Square Feet Cleaned Per Custodian





Custodial Services 2011-12 Budget Overview

90% of the Custodial Services Operating Budget is Staffing Related

Budget Category	<u>\$</u>	% of Total \$
Salaries	\$19,492,035	65%
Benefits	\$7,492,871	25%
Outsourced Services	\$1,670,000	6%
Other	\$1,422,092	<5%
Total	\$30,076,998	

How We Define and Measure *High Quality Custodial Services* That Support Academic Achievement

Safe & Reliable Staff

that best ensure the safety of our students & staff

Consistently Satisfies

the cleaning needs of our principals & students

Cost Efficient

Environmentally Friendly

Energy Efficient



How We Define and Measure *High Quality Custodial Services* That Support Academic Achievement

Safe & Reliable Staff

that best ensure the safety of our students & staff



- CMS' comprehensive & frequent employee criminal screening protocol
 - Absenteeism @ <10%
 - •Turnover @ <7%

Consistently Satisfies

the cleaning needs of our principals & students

Cost Efficient

Environmentally Friendly

Energy Efficient



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Consistently Satisfies

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- ISO 9001 Custodial Services Certification
 - Bi-Weekly & Quarterly Site Audits w/ 90%+ Target Audit Rating
- 3.4 (of 4) Service Rating on Principal Survey

Cost Efficient

Environmentally Friendly

Energy Efficient



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Cost Efficient



Max. \$1.44 per square foot -- all inclusive

Environmentally Friendly

Energy Efficient



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Cost Efficient

Environmentally Friendly



 green cleaning products/equipment & purchasing; solid waste/recycling

Energy Efficient



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• day cleaning, dispensing systems



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Environmentally Friendly

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Additional Value-Added School Support



 referenced earlier – from community use support to equipment repairs



Strategically Pursuing Outsourcing Opportunities Has Been A Part of Our Business Model

Studies and Research Conducted

- Trammell Crow, 2006
- ServiceMaster, 2006 & 2002
- Aramark, 2004
- Modern Management, 1994

Key Learnings

- Overall, all studies consistently assessed CMS Custodial Services as an effective and efficient operation, but some improvement opportunities were identified
- All identified areas of opportunity have been addressed by integrating those improvements into internal operation

We Are Currently Supporting Mecklenburg Area Businesses With Nearly \$2M in Outsourced Services Which Are Contributing to Operational Efficiency

SERVICE	AMOUNT
Solid Waste/Recycle	\$1,315,000
Equipment Repairs	\$125,000
Contract Cleaning- Administrative sites (PILOT)	\$80,000
Gym Floor Refinishing	\$75,000
Floor Care Equipment Service	\$75,000
TOTAL	\$1,670,000



School-Site Outsourced Cleaning: One Historical Pilot + One Pilot Underway

1995 Pilot Program

Scope: 10 CMS schools

Timeframe: one school year

• Learnings: Major Issues with service quality & overall contractor performance

Outcome: Service returned in-house, capital cost adjustment

2011 Pilot Program

- **Scope**: 4 administrative sites, 32 hours/day
- Timeframe: three year contract began Sept 1, 2011
- Potential Savings: \$110,000/yr
- Scalable: no (per vendor administrator)
- Measurement
 - Quarterly Quality Audits Will Be Conducted to Assess Service Quality

We Have Developed and Completed A <u>Preliminary</u> Outsourcing Assessment

Understanding the Assessment Tool

What This Is

an informed preliminary assessment of the viability of some initial outsourcing options

What This IS NOT

a recommended list of areas to outsource

Color Index

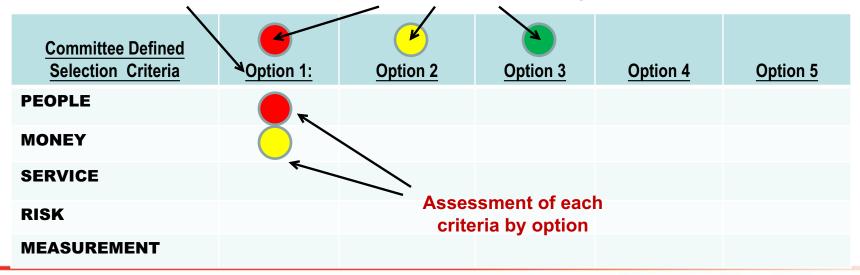
likely will not satisfy criteria OR risk of failure to CMS is high could meet criteria but more information needed likely will satisfy criteria

? externally driven by bidding process

Example: Full

Operational Outsourcing

Overall assessment for that option



CMS Custodial Services *Preliminary* Outsourcing Assessment

Committee Defined Selection Criteria	All Cleaning	Administrative sites	Carpet Cleaning	High Dusting
PEOPLE result in CMS employee RIF, salary, benefits; affect significant # employees at scale				
MONEY result in return of ongoing net savings to CMS Op. Budget	?	?	?	?
MONEY result in substantial savings at scale	?			
SERVICE negative impact on service levels				
SERVICE negative impact on service quality				
RISK result in significant risk to CMS				
RISK ability to return the service in-house				
MEASUREMENT can be measured/evaluated				





Student Transportation Operations



Carol Stamper
Executive Director of Transportation



CMS Student Transportation Operation

Our Core Purpose – Children A Core Service - Transportation

CMS Student Transportation is a core business which directly provides safe and reliable access to a child's positive and successful learning experience.

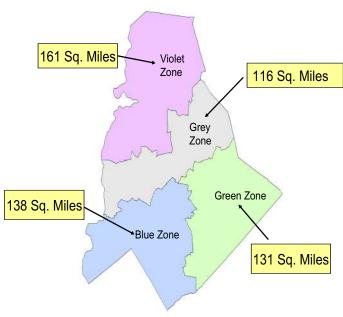


CMS Student Transportation Operation Overview & Scope

- Largest student transportation operation in NC
- 16th largest national school bus fleet
- 956 daily buses
- 120,384 assigned students
- 24,000 bus stops
- 19M annual miles
- 3M gallons diesel fuel
- Major Functions

Student Transportation, Fleet Maintenance, Routing and Scheduling, Safety and Training, Fiscal & Asset Management

CMS TRANSPORTATION ZONES



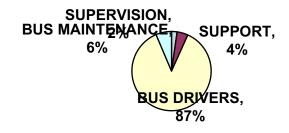
Mecklenburg County – 546 Total Square Miles

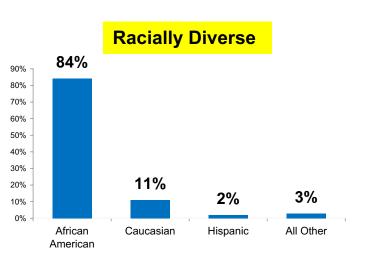
CMS Student Transportation Operation Student Transportation Services

- Primary service is to and from school transportation
- Other value-added trips and services include:
 - field trips
 - athletic events and competitions
 - community based training and instruction
 - career and technical education
 - extended day instructional programs
 - alternate bus stops at daycares
 - Special Olympics competitions
 - summer school
 - emergency evacuations
 - inclement weather early release
 - high school graduation rehearsals and events

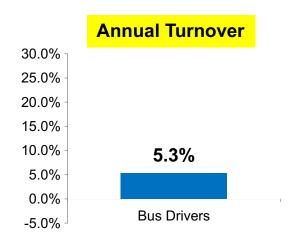
CMS Student Transportation Operation Staffing Overview

1,440 Dedicated Employees

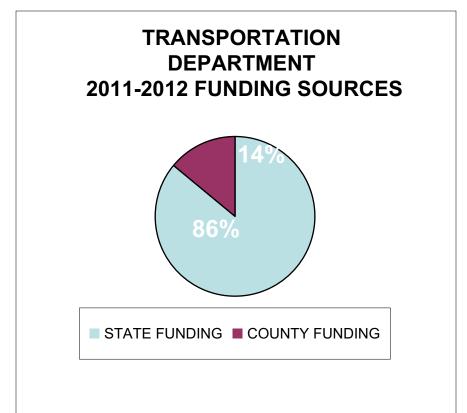


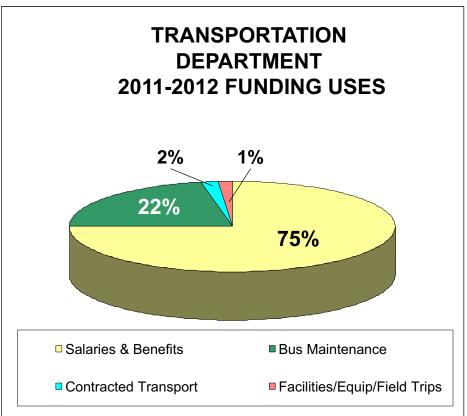






2011-12 Adopted Operating Budget \$54.5 Million





State transportation funding is allotted based on a complex funding formula based on key variables to include number of buses, students, eligible expenses and designated site characteristics.



CMS Student Transportation Operation Strategically Pursuing Outsourcing Opportunities Has Been A Part of Our Business Model

Previous Operational Efficiency & Effectiveness Reviews

- ✓ 2006 Management Partnership Services, Inc. (*Transportation Consultant Firm*)
- ✓ 2004 CMS & Chamber of Commerce Efficiency Review
- √ 2002 McKinsey Report
- √ 1994 Modern Management

Learnings & Outcomes

To date, all reviews and research reveals CMS Student Transportation Operations is operating quite efficiently and effectively given the complexity of the student assignment plan and service level requirements. Study recommendations for improvements and potential outsourcing opportunities have been accomplished.



CMS Student Transportation Operation \$3.2M in Outsourced Business Services

Outsourced services have historically contributed to continual improvement of operational effectiveness and supported Mecklenburg area businesses

Current Functions Outsourced - \$3.2M

Bus A/C Repair and Bus A/C Maintenance Service, Labor Only

Long Block Engine Remove & Replace, Labor Only

Remove & Replace Transmissions, Labor Only

Bus Engine (Mercedes Engines) Tune Up

Removal of Garage Hazardous Wastes

Special Needs Transport of Pupils

Bus Interior/Exterior Maintenance

Replace Bus Floors, Steps, and Bus Seat Repairs, Labor Only

Bus Surveillance Camera Repair and Maintenance

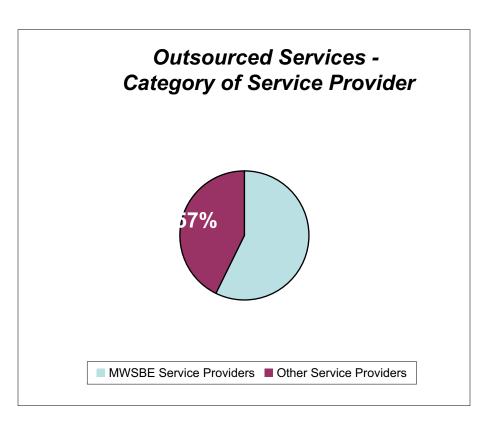
State Inspections of Admin Vehicles and Service Trucks

Safety Inspections of Motor Coach Carriers

Repairs to Bus Frames and related Bus Alignments

Bus Radio Repair and Maintenance

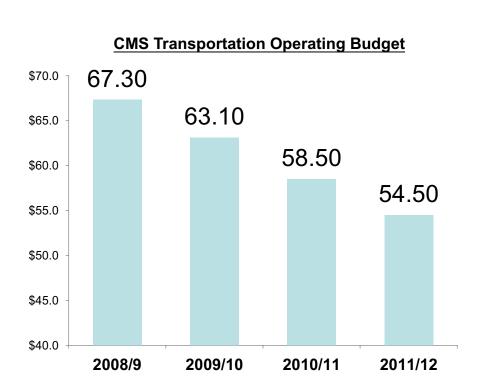
Bus Garage Uniform Services





Trendsetting Achievements: Three Consecutive Years of Serving More Children More Efficiently

\$13M In Operational Efficiencies Delivered



	2011/201 2	3-Year Change	
# of students assigned	120,384	8,384	
# of total bus stops	23,475	- 13,525	
# of total routes or buses	956	-299	
Avg annual miles	19,125,360	-6,074,640	

How We Define and Measure *Quality Transportation*Services That Support Academic Achievement

Timely & Reliable

Safe

Effective

Efficient



How We Define and Measure *Quality Transportation*Services That Support Academic Achievement

Timely & Reliable



• Bus Arrival Times: Benchmark = 95% CMS: 2011/12 Q1=95.4%

• Bus Driver Staffing Levels: Benchmark = 98-100% CMS: consistently 100%

Attendance Levels: avg 95%

Safe

Effective

Efficient

How We Define and Measure *Quality Transportation*Services That Support Academic Achievement

Timely & Reliable

Safe



Preventable Accident Rate/million miles:

Benchmark = 15-20 CMS: 2011/12 Q1=6.5

• Avg. Age of Fleet: Benchmark = 7.3 years

CMS: 2011/12 Q1=5.8

Effective

Efficient

How We Define and Measure *Quality Transportation*Services That Support Academic Achievement

Timely & Reliable

Safe

Effective



• % PreK-12 Students Transported: Benchmark = 49%

CMS: 2011/12 Q1=63%

• Avg. Ride Time: Benchmark = 47 minutes

CMS: 2011/12 Q1=13

Efficient



How We Define and Measure *Quality Transportation*Services That Support Academic Achievement

Timely & Reliable

Safe

Effective

Efficient

• Cost as % of District Budget: Benchmark = 4-7%

CMS: 2010/11=5.0%

• Cost/Student : Benchmark = \$1,055 CMS: 2010/11=\$683

• Daily Bus Runs/Route: Benchmark = 3.79

CMS: 2011/12 Q1=6 (higher is better)



How We Define and Measure *Quality Transportation*Services That Support Academic Achievement

Timely & Reliable

Safe

Effective

Efficient

Compliant



Fleet Audit: 2010/11 Benchmark = 35.35
 CMS: 2010/11= 25.72 (lower is better)

• Fleet In Service: Benchmark = 90-96%

CMS: 2011/12 Q1=92.3%



CMS Student Transportation Operation Transportation Operations Governance

Local level

board-approved student assignment policy determines transportation eligibility for original assignments, transfers & reassignments

State level – *primary governance*

transportation funding and proper use of dollars
bus specifications, bus capacities, and bus maintenance guidelines
scheduling and routing parameters
purchasing guidelines
capital replacement
tort insurance claims and settlements
commercial driver license requirements and driver training

Federal level

National Highway Traffic Safety Administration (NHTSA)
No Child Left Behind/McKinney Vento
Individuals with Disabilities Education Act



Governed Parameters Which May Pose Potential Challenges with Outsourcing Considerations

- State funding formula and the resulting amount of state funding the district receives
- State fleet specifications, utilization and proper use of funding
- Compliant and required reporting
- Contract purchases eg., fuel (excise tax), tires and specified parts
- State tort claim insurance coverage and funding
- Capital replacement of state fleet (buses and service fleet)
- Commercial Drivers License training and renewals
- Fleet maintenance compliance schedules and inspections
- State employee wages and benefits
- "Unchartered Territory" if change or adjustment to the local/state relationship

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Assessment of each

criteria by option



MEASUREMENT

SERVICE

RISK

Transportation Services <u>Preliminary</u> Outsourcing Assessment

Committee Defined Selection Criteria	Magnet Transportation	Special Needs Transportation	Fueling Buses	Bus Driver Labor Only	Full STO Outsourced
PEOPLE result in CMS employee RIF, salary, benefits; affect significant # employees at scale		Пинорогии			
MONEY result in return of ongoing net savings to CMS Op. Budget	?	?	?	?	?
MONEY result in substantial savings at scale			?	?	?
SERVICE negative impact on service levels and service quality					
RISK result in significant risk to CMS: student achievement					
RISK ability to return the service in-house					
MEASUREMENT can be measured/evaluated					



CMS Auxiliary Services & Privatization Advisory Committee Meeting

Summary Discussion & Next Steps

Guy Chamberlain
Associate Superintendent for Auxiliary Services



CMS Auxiliary Services

Some Things To Consider As We Move Forward Together

- Many of the less complex and less risky outsourcing opportunities have already been pursued
- Our <u>preliminary</u> assessment of additional, potential areas suggests that most represent a higher level of risk to CMS than current outsourcing efforts
 - a careful, thoughtful approach is warranted
- Some of these areas represent unchartered territory for CMS
 - complexities may require time-intensive collaborative work with governing bodies such as NCDPI and/or monetary investment in research or consultancy work to fully assess viability
- Alignment with this Committee is crucial given the potential scope and cost of additional assessment work



Understanding the Goal

To recommend to the BOE -- on Feb 14, 2012 – additional outsourcing opportunities within key areas of CMS that deliver on the following criteria:

- People <u>minimize</u> negative impact to CMS employees -- reduction in force/salary/benefits, shifting of work responsibilities
 - Privatization or managed competition?
- Money <u>return</u> of substantial, ongoing net savings to the CMS Operating Budget when brought to scale
 - how does the committee define substantial?
- Service <u>maintain or exceed</u> current service levels and service quality to key stakeholders in support of student achievement
 - any limitations on types of services to explore? Any considerations for services with direct access to CMS students?
- *Risk minimize* scope of risk to CMS ease of returning service in-house
- Measurement ability to <u>reliably</u> project and measure the most critical aspects of the outsourced effort – \$ savings, service quality, etc.

Other Questions

- Are the above considerations in priority order?
- How will the Committee determine the right opportunities to pursue for 2012-13?
- Will there be a community vetting process for Committee-recommended opportunities?