MISSOURI STATE AUDITOR'S OFFICE FISCAL NOTE (12-09)

Subject

Initiative petition from Marc Ellinger regarding a proposed constitutional amendment to Article IX. (Received January 18, 2012)

Date

February 6, 2012

Description

This proposal would amend Article IX of the Missouri Constitution.

The amendment is to be voted on in November, 2012.

Public comments and other input

The State Auditor's office requested input from the Attorney General's office, the Department of Agriculture, the Department of Economic Development, the Department of Elementary and Secondary Education, the Department of Higher Education, the Department of Health and Senior Services, the Department of Insurance, Financial Institutions and Professional Registration, the Department of Mental Health, the Department of Natural Resources, the Department of Corrections, the Department of Labor and Industrial Relations, the Department of Revenue, the Department of Public Safety, the Department of Social Services, the Governor's office, the Missouri House of Representatives, the Department of Conservation, the Department of Transportation, the Office of Administration, the Office of State Courts Administrator, the Missouri Senate, the Secretary of State's office, the Office of the State Public Defender, the State Treasurer's office, Cass County, Jackson County Legislators, St. Louis County, the City of Cape Girardeau, the City of Kansas City, the City of Kirksville, the City of Springfield, Cape Girardeau 63 School District, Hannibal 60 School District, Rockwood R-VI School District, Linn State Technical College, Metropolitan Community College, University of Missouri, St. Louis Community College, University of Central Missouri, Harris-Stowe State University, Lincoln University, Missouri State University, Missouri Southern State University, Missouri Western State University, Northwest Missouri State University, Southeast Missouri State University, Truman State University, and University of Missouri.

The Missouri Association of School Administrators (submitted by Roger Kurtz, **Executive Director**) provided information as a opponent of the proposal to the State Auditor's office.

Assumptions

Officials from the **Department of Agriculture** indicated there will be no fiscal impact on their department.

Officials from the **Department of Economic Development** anticipate no fiscal impact as a result of the proposed legislation.

Officials from the **Department of Elementary and Secondary Education** indicated:

Sections 3(d) and (f)

These provisions carry eventual unknown costs that could be significant to the Department of Elementary and Secondary Education and to local county governments. While the language is declarative, no mention is made to enforcement of the provision. When the language indicates "No school district receiving any state funding or local tax revenue funding shall....," it implies enforcement of the provision. The department cannot withhold funding without substantiated cause. In order for the department to show substantiated cause, it must have a method to collect and review pertinent data that would support its actions. This would require additional staffing and/or data system development and maintenance (a number not yet determined) to collect and analyze contracts for each teacher in the state to verify duration of contracts on an annual basis.

Further, it would be necessary for the department to report districts determined to be in violation to one hundred-fourteen counties and one city in Missouri. Most counties have multiple school districts and many school districts are in multiple counties. It would be incumbent upon the counties then to put mechanisms into place to suspend payments to the respective violators of this provision. The cost to the counties and one city to put this system into place would be significant statewide. Additionally, counties would also face the possibility of a significant increase in litigation exposure relative to the withholding of funds.

While it is impossible to determine the exact amount of cost, the potential cost to the state, counties and one city driven by the need to assure that funds are not distributed in violation of this section would be in the millions of dollars.

Section 3(g)

If it is determined that the state shall develop and implement evaluation technical assistance, then costs could be similar to those incurred by the state of Florida's public school system model totaling \$4.5 million. If state assessments are required to provide student performance data for all teachers, additional state costs could be incurred.

The exact cost of this provision is also difficult to calculate. This provision calls for each district to develop its own local performance standards for teachers "to retain, remove, promote, demote and set compensation." In effect this would establish 520 accountability systems and thereby set aside the Missouri Accountability Standards established by the State Board of Education. Local districts would incur significant cost

in the aggregate for establishing customized accountability systems which counter the concept of statewide educational goals. Such systems would have difficulty meeting validity tests which could increase the likelihood of litigation cost.

For the department to establish assessments that could be used statewide, a significant increase in test development and ongoing administrative expenses would be required. Funds have not been available to allow for expanded assessment capabilities that would allow districts to move to a more thorough collection of student performance data. The requirement that all staff be assessed based upon student performance would demand that assessment instruments be in place to measure student success in all cases where "teachers" are employed. While the department has not done research to determine the cost and scope of assessments that would be required to address this provision, it can be documented that the annual cost of assessments for the limited testing now done is in excess of \$10 million. This number would grow exponentially if the department was to assure all content areas, grade levels, and instructional support areas were assured valid assessments of student performance.

Officials from the **Department of Higher Education** indicated the proposal contained in this initiative petition would have no direct, foreseeable fiscal impact on their department.

Officials from the **Department of Health and Senior Services** indicated this initiative petition is a no impact note for their department.

Officials from the **Department of Insurance, Financial Institutions and Professional Registration** indicated this petition, if passed, will have no cost or savings to their department.

Officials from the **Department of Mental Health** indicated this proposal places no direct requirements on their department that would result in a fiscal impact.

Officials from the **Department of Natural Resources** indicated they would not anticipate a direct fiscal impact from this initiative petition.

Officials from the **Department of Corrections** indicated there will be no impact for their department.

Officials from the **Department of Labor and Industrial Relations** indicated this initiative petition has no fiscal impact on their department.

Officials from the **Department of Revenue** indicated this initiative petition will have no fiscal impact on their department.

Officials from the **Department of Social Services (DSS)** indicated this initiative petition has some relevance to their department as the Division of Youth Services (DYS) employs teachers in schools operated in its facilities. Also, for at least some purposes, including the school foundation formula, DYS is considered a school district. Teachers employed

by DYS are merit system employees. Therefore, we are trying to work out any conflict that may exist between being an "at will" employee of a school district and a merit system employee.

Section 3(d) - Currently, teachers and other educational staff are employed by the Department of Social Services in the DYS as employees of the Missouri Merit System under Chapter 36 State Personnel Law (Merit System). To make these staff "at will" employees, the incumbents in these positions would be required to resign or be terminated from (if they did not voluntarily resign) their merit positions and be placed in unclassified positions not covered under the Merit System. This could affect as many as 150 DSS employees in our Academic Teacher, Special Education Teacher and Vocational Teacher job classifications.

A change in the law (Chapter 36) and state personnel regulations by the Office of Administration would have to be completed to allow DSS to change these merit positions to unclassified positions. Only 1% of a division's positions can be filled as unclassified appointments. Changing 150 employees from merit to unclassified would cause the division to exceed the maximum and they would be unable to fill all the necessary positions creating a negative impact upon the division, clients, and provision of critical services to the youth in DYS custody. To allow all impacted positions to be filled as unclassified, there would also have to be a change in the state personnel regulations 1CSR 20-1.040(2) to allow these DYS job titles to be established and filled without regard to provisions of the State Personnel Law. In other words, these positions would be exempt from the department's one percent restriction of unclassified job titles.

This legislation is unclear which job titles would be included in "certificated staff." Based on discussions with the Department of Elementary and Secondary Education (DESE) Certification Unit, the assumption is being made that "certificated staff" refers to teachers that hold tenure in the classroom per Department of Education definitions. However, other staff in the DYS program holds certifications (e.g., nurses, psychologists, counselors). The definition of "certificated staff" needs to be clearly defined and the fiscal impact could change depending on that.

Section 3(e) – This implies that these staff would be contracted; however, the agency believes it could meet the requirements of "at will" by using the unclassified service.

Section 3(f) - The job titles used in DYS are bargaining unit eligible classifications for the Department of Social Services under the Communication Workers of America (CWA) Local 6355, AFL-CIO. According to the CWA agreement, seniority, as defined in Article 17 of the Agreement, is used as the determining factor in all requests for promotions when all other work related factors are equal. There is a savings clause that states that if a federal or state law or regulation passes that invalidates a portion of the agreement, the remaining agreement would remain in place. However, the agency would also need to address whether the job classifications, if they would become unclassified, are still appropriate for the DSS/CWA bargaining unit. Section 3(g) – To set performance standards for teachers for promotions and pay raises based on quantifiable student performance data would put the DYS teachers at a disadvantage as their students stay in the facilities for a short time, not necessarily a normal school year. This could cause an unreasonable timeframe for the student's performance to be measured resulting in inaccurate performance data.

There is no known fiscal impact from a human resource perspective for this petition.

Officials from the **Governor's office** indicated there should be no added costs to the their office if this amendment is approved by the voters.

Officials from the **Missouri House of Representatives** indicated there will be no fiscal impact to their agency.

Officials from the **Department of Conservation** indicated no adverse fiscal impact to their department would be expected as a result of this proposal.

Officials from the **Office of Administration** indicated there should be no added costs or savings to their office if this petition is passed by the voters.

Officials from the **Office of State Courts Administrator** indicated there is no fiscal impact on the courts.

Officials from the **Secretary of State's office** indicated their office is required to pay for publishing in local newspapers the full text of each statewide ballot measure as directed by Article XII, Section 2(b) of the Missouri Constitution and Section 116.230-116.290, RSMo. Their office is provided with core funding to handle a certain amount of normal activity resulting from each year's legislative session. Funding for this item is adjusted each year depending upon the election cycle with \$1.3 million historically appropriated in odd numbered fiscal years and \$100,000 appropriated in even numbered fiscal years to meet these requirements. The appropriation has historically been an estimated appropriation because the final cost is dependent upon the number of ballot measures approved by the General Assembly and the initiative petitions certified for the ballot. In FY 2011, at the August and November elections, there were 6 statewide Constitutional Amendments or ballot propositions that cost \$1.02 million to publish (an average of \$170,000 per issue). Therefore, their office assumes, for the purposes of this fiscal note, that it should have the full appropriation authority it needs to meet the publishing requirements.

Officials from the **Office of the State Public Defender** indicated this initiative petition will not have any significant impact on their office.

Officials from the **State Treasurer's office** indicated there is no fiscal impact to their office.

Officials from the **City of Kansas City** indicated this proposal does not address the activities of the city and therefore, has no fiscal impact on the city.

Officials from the Cape Girardeau 63 School District indicated:

Overview:

This document describes the anticipated fiscal impact of the proposed amendment to Article IX of the Missouri Constitution to the Cape Giradeau School District. While our analysis focuses on the impacts to our district - we share the same <u>concerns voiced by Mr. Roger Kurtz</u> in his submission to your office regarding the impact of the proposed amendment.

We believe this Amendment has wide ranging financial impacts for Local Government entities who would be required constitutionally to develop expertise on school district evaluation policies before releasing local funds, our analysis will focus the specific costs of the impact of <u>developing student assessment tools for all grades across all</u> <u>subject areas, implementing a testing regime, and applying</u> <u>those tools to develop and execute an evaluation model as</u> <u>prescribed in sections 3(f) and 3(g)</u> of the amendment using data from Missouri and similar proposals from Colorado as a basis for analysis.

In general the proposed amendment's costs are driven by the need to create quantifiable and objective data on each Missouri student, in every subject, to be used as a basis for evaluation of educators.

To acquire the incredible amount of data necessary to fulfill this goal is a herculean task - <u>a proven and statistically</u> <u>reliable test for every subject must be created and</u> <u>administered for every grade level to every student</u>. Missouri has developed test for a handful of core subjects and administers them periodically in a student's progression from kindergarten to the 12th grade. This allows a real and accurate basis for the costing of testing for every child in every subject.

The Cape Girardeau School District:

The Cape Girardeau School District is an accredited district located in Cape Girardeau County, Missouri. The district serves a diverse population.

Our district contains six elementary schools, one junior high-school and one high-school, a total enrolment of 4,122 and 425 teachers.

Enrollment					Total
(Prior		Cert.			
Year)	Schools	Staff	Residents	Non-Res.	
Elementary	5	163	1,646	122	1,768
Schools					
Middle	1	55	583	0	583
Schools					
Jr. High	1	60	575	1	576
Schools					
High	1	147	1,153	42	1,195
Schools					
Total	8	425	3,957	165	4,122

Test Development and Implementation Costs and Considerations

Mr. Ellinger's submission requires that every school district develop a set of locally based performance standards a majority of which is based on "quantifiable data":

3(g) Notwithstanding any other section of this constitution, every school district shall develop and use local performance standards to retain, remove, promote, demote, and set compensation for teachers in such school district, the majority of such standards shall be based on quantifiable student performance data as measured by objective criteria.

Our assumption is the state would develop a series of "template" standards of evaluation and guide the development of testing tools that could be utilized by our district.

Development:

Test development is a prohibitively expensive undertaking for any school district we would be unable to fund the development of tests to meet the reliability, validity and scope required by this proposal.

<u>Any school district</u> will require defensible research-based measures provided by the state, given the results of these assessments would be the major factor in employment decisions and likely policy makers will later use the data to make funding or accreditation decisions.

Currently, the state of Missouri provides assessments in only two subjects, math and communication arts, for students in grades 3-8 and one year in high school. Science tests are available for one elementary, one middle school grade, and high school biology.

The state paid for the development of the tests, including item and task specification, item authoring, bias and sensitivity checks, psychometric work, piloting, lay out and printing for the paper based 3-8 tests, and computer adaptive work for the high school tests.

The state pays for the scoring of these tests, at .06 per test. Until the recent budget crisis, the cost to score was higher, as Missouri's assessments were not limited to multiple-choice questions as they are now. Previous assessments included constructed response questions where students wrote in short answers, as well as performance

events where students wrote an essay or did multi-step problem solving, such as figuring the cost of a installing a chain link fence for a yard of a given dimension.

In addition, tests need ongoing revisions through the use of parallel questions, so the questions are not the same from year to year, but the knowledge and skill tested remains the same.

In recent years, this annual revision has been limited due to budget restraints. Constructed response items and performance events have been removed from the assessments. In addition, budget cuts have forced DESE to pay the cost of current year assessments out of the next years' funding.

In order to evaluate teachers based on student assessments, you must first have baseline achievement data on each student for that subject. Current growth models can only provide data for $4^{th} - 8^{th}$ grade students in math and communication arts, because there is not baseline data for third graders. High school courses each consist of distinct content and scores on one course cannot be considered a starting point for another with the possible exception of Algebra I and II.

Massachusetts began to use student growth measured by state assessments in teacher evaluations, and found current assessments only produced data for 17% of teachers. The language in 3 (g) would require annual assessments of pre-K to 8th grade students in every subject. High school courses would require pre-tests at the beginning of the course as well as end of course tests to measure student achievement growth in each course offering.

The following list of courses was taken from the Missouri School Improvement Program 4 Resource Standards, found at www.dese.mo.gov.

Tabi		
	Elementary Courses	Middle School Courses
1	Math by grade	Math by grade
2	Reading by grade	Reading by grade
3	Language Arts by grade	Language Arts by grade
4	Social Studies/History by	Social Studies/History by grade
	grade	
5	Science by grade	Science by grade
6	Music by grade	Vocal Music
7	Art by grade	Instrumental Music
8	Physical Education by	Art
	grade	
9	Foreign Language by grade	Physical Education by grade
10	Health by grade	Health
11	Career Awareness by grade	Foreign Language
12	Instrumental Music I and	Speech
	II	
13	Library Skills by grade	Algebra 1
14		Agriculture
15		Family and Consumer Science
16		Industrial Technology
17		Computer Literacy
18		Career Education

Table 1 School Improvement Courses

Middle school students are required to take the four core subjects, physical education, health, art and music. Some students will also have a stand-alone reading course. This totals nine subjects for one year. Seventh and eighth graders must in addition have access to four exploratory classes, bringing the total courses for them to 13. Some of these courses would only last for 6 weeks, others may last a semester.

Development Costs:

Table 2 illustrates the costs associated with developing new testing regimes from previous RFPs on Smarter Balanced Assessment Consortium website. <u>We would expect the state to</u> <u>bear the cost of developing these testing mechanisms. Indeed</u> <u>no testing regime can be considered viable without</u> <u>significant state resources.</u>

Table	2:	RFP	for	Smarter	Balanced	Assessment
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PROJECT	DETAILS	BID COST Estimate
SBAC RFP No. 14	SBAC Pilot	\$19,000,000
DDAC KFF NO. 14	Item/Task/Stimulus	φτ 3, 000,000
	Research	
	Development and	
	Reviews	
SBAC RFP No. 07		¢1 000 000
SDAC REP NO. U/	Item Authoring and Item Pool	\$1,988,000
	Application	
SBAC RFP No. 09	Test Blueprint and	\$1,457,721
SBAC REF NO. 09	Computer Adaptive	γı,407,721
	Test Specifications	
SBAC RFP No. 08 1-	Participation and	\$739,392
2012 to 10-2013	Training Materials	~···/·/·/
SBAC RFP No. 05	Psychometric	\$3,500,000
	Services	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SBAC RFP No. 06	Development of	\$930,000
	Accessibility and	7
	Accommodations	
	Policies and	
	Materials	
SBAC RFP No. 04	SMARTER Balanced	\$1,500,000
	Assessment	
	Consortium Request	
	for Proposals to	
	Develop Item and	
	Task	
	Specifications,	
	Style Guide, Bias	
	and Sensitivity	
	Guidelines, and	
	Accessibility and	
	Accommodations	
	Guidelines	
SBAC RFP No. 03	SMARTER Balanced	\$2,000,000
	Assessment	
	Consortium II	
	Systems	
	Architecture (word)	
SBAC RFP No. 02	IT Readiness Tool	\$500,000 (2011-14)
	for SBAC and PARCC	
CDAC DED No. 01	(word)	c_{2} c_{2} c_{1}
SBAC RFP No. 01	Smarter Balanced	\$2.2 million (2011- 14
	Assessment Communications RFP	L + +
RFP 2010-07 (SBAC		Not included
RFP 2010-07 (SBAC RFP)	Comprehensive Assessment	NOC INCLUDED
	Systems Grant -	
	Project Management	
	Partner	
	1 01 CIICT	

Total for Math and CA	\$33,815,113 for 14 tests
<u>Cost per test to</u> develop	\$2,415,365
Total FY 2013 Cost for 481 new tests	\$1,161,790,565

Administration Costs:

Administering assessments for pre-K through 2nd grade students is significantly more costly for school districts, as much of this testing must be administered one-on-one. This means the district hires a substitute for the several days it takes the classroom teacher to complete individual student assessments.

On average, Missouri high school students take seven classes a day, one to three of which are semester courses. Older students take more semester courses.

Cost to districts: Cost estimates are based on current charge districts for MAP tests, and testing every student in every subject.

Grade	Total	Cost per test	Cost to	Number	Statewide
	students		test one	of	total
			subject	subjects	
K-6	2,351	\$1.80	\$4,231.80	9	\$38,086.20
7-8	576	\$1.80	\$1,036.80	7 x 2	\$14,515.20
				tests	
9-12	1,195	\$1.80	\$2,151.00	8 x 2	\$34,416.00
				tests	
	FY 2013 New costs and reoccurring FY2014				\$87,017.40

Table 3: Average cost of MAP testing to the Cape Girardeau School District from the State of Missouri

Teacher Evaluation Assumptions and Data:

In developing the cost estimates contained we relied on the experiences other states have had in creating a similar evaluation model prescribed in the proposed amendment. Specifically, the removal of teacher experience as part of compensation 3(f) and the development of new evaluation systems for educators on the district level (3g):

3(f) Notwithstanding any provisions of this constitution, no school district which uses seniority or duration of employment as a basis, in whole or in part, to retain, remove, promote or demote teachers shall receive any state funding or local tax revenue.

3(g) Notwithstanding any other section of this constitution, every school district shall develop and use local performance standards to retain, remove, promote, demote, and set compensation for teachers in such school district, the majority of such standards shall be based on quantifiable student performance data as measured by objective criteria.

While our analysis will cite information from multiple states - the recent experience of Colorado in developing a remarkably similar system of teacher evaluation and estimating the implementation costs serves as a good exemplar of what Missouri policy makers and budget analysts should expect as they are required to implement sweeping changes to teacher evaluation and compensation. Additionally CO and MO have similarly sized public education systems - and when

ranked nationally are very close in size and scope (See table 4 below).

	Missouri	National Rank (MO)	Colorado	National Rank (CO)
Average Daily Attendance (2010)	835,780	19	771,938	21
Number of Public High School Graduates '09- `10	62,342	20	46,811	22
Number of Public School Teachers K-12	67,882	14	48,960	23

Table 4: Similarities in the size of public education systems in MO and CO*

*NEA Research. (2010). <u>Rankings & Estimates Rankings of the States 2010 and</u> <u>Estimates of School Statistics 2011</u>.

http://www.nea.org/assets/docs/HE/NEA_Rankings_and_Estimates010711.pdf

Salary data used in this analysis will assume average pay for a Missouri teacher at \$45,317 or 48^{th} in the nation and 81.5% of the national average.

The Colorado Experience:

In May of 2010, Colorado passed Senate Bill 191 which completely changed how public-school educators were evaluated in Colorado. At the core of the proposal were two policy objectives similar to those in 3(f) and 3(g) of the current proposal: 1) the removal of duration of employment as a basis of evaluation in whole or in part and 2) replaced with a model where quantifiable student growth/achievement represents at least 50% of the total performance by quantifiable and objective standards. Table 7 below places the proposals for quantifiable measurement side-by-side for comparison:

<u>Proposal v. SB 191 Colorado</u>					
	<u>Ellinger Missouri Proposal</u>	<u>Senate Bill 191 Colorado</u>			
Side-by-side comparison of measurement standards from MO and CO	"3(g) Notwithstanding any other section of this constitution, every school district shall develop and use local performance standards to retain, remove, promote, demote, and set compensation for teachers in such school district, the majority of such standards shall be based on quantifiable student performance data as measured by objective criteria. "	"Procedures for prioritizing or weighting measures of performance that ensure that measures of student growth represent at least 50 percent of total performance and are prioritized by technical quality, and that measures of professional practice are prioritized by local objectives."			
Source	*Ellinger Submission. (January 17, 2012). Pg 3	<pre>* Colorado State Board of Education. Report & recommendations; submitted to the Colorado State Board of Education pursuant to SB 10-191. (April 13, 2011). Pg 18 Available online: http://www.cde.state.co.us/Educa torEffectiveness/downloads/Repor t%20&%20appendices/SCEE_Final_Re port.pdf</pre>			

Table 5: Comparison of Measurement Standard of Ellinger

We believe the process of estimating costs to local school districts used by the Colorado State Board of Education will shed light on the Ellinger proposal and permit an estimate of the fiscal impact to the Cape Girardeau School District.

Translating the Colorado Experience to Missouri:

For purpose of analysis we will assume the following role for the state:

1) Create an exemplar template and evaluation system with a resource bank of evaluation tools.

- 2) Provide student, teacher, and parent survey instruments and analysis of results to districts.
- 3) Provide a definition of what constitutes a qualified educator for every subject area and grade level.
- 4) Develop materials to support professional development.
- 5) Collect and report evaluation data for the state.

NOTE: None of this is guaranteed or funded under the Ellinger proposal - nor do we attempt in this analysis to associate costs - but it is worth noting that the state would likely need to develop a whole host of example evaluation tools that districts could adopt and such development is likely to be a costly process.

In addition to the items above the state will likely have to develop and provide:

- 1) Assessment tools from the state need to be available to districts in all subjects, at no cost, and resulting data must be reliable and valid. Districts will recognize that they are allowed to create their own unique assessments, but districts will likely want to use defensible research-based measures provided by the state given the implications the data can have on educators and students.
- 2) A valid individual teacher and student tracking system needs to be developed and in place provided by the state. Much of the ability for districts to evaluate teacher performance based on at least "50% quantifiable data" will rely on the ability to correctly identify the teacher of record for each student in each subject area and assign attributable changes in performance to the appropriate teacher.

The state-level responsibilities listed above are essential to any successful implementation of the Ellinger proposal.

Startup Costs:

Certain initial costs are likely to be required at the district level prior to the implementation of the new evaluation system. We assume the burden for implementing the state mandates would fall to the **individual school district**. For example we would have to spend time selecting evaluation tools and measurements from the state templates, set up first time data systems, develop an appeals process, and provide comprehensive training for evaluators and educators. Colorado estimate the effort needed to accomplish these tasks is as follows:

	Selecting Evaluation Tools and Measurements	One time Data Set Up	Developing Appeals Process	Professional Development for all Staff	Professional Development for Evaluators
District Personnel*					
Superintendent Assistant Superintendent				2 days	30 hours 30 hours
Assistant Superintendent Director		5 days			30 hours
Trainer		a unyo		3 days	60 hours
Clerical Staff	The second second second second second			o tongs	CATRINIS
IT Technician		5 days			
School Personnel*					
feachers	5% of all teachers, \$100 a day for 5 days			2 days for every teacher	
Committee Teacher Leader	1% of all teachers, \$200 a day for 5 days				
Instructional Goach				2 days for every coach	
Principal				2 days for every principal	30 hours for every principal
District/School Costs*					
Legal			\$10,000		

Table 6: One Time Costs for each district:

Augenblick, Paslaich, and Associates INC. Costing Out the Resources Implications of SB 10-191 in Coloraodo School Districts: Prepared for State Council for Educator

Effectiveness. March 2011. Pg 35

Augenblick, Paslaich, and Associates and the Colorado State Board of Education estimate that the initial one-time costs on average are \$53 per student. Given the comparability of Missouri and Colorado (see table 4) we believe that this estimate is applicable to our school system and may be conservative given our average teacher pay and experience level is higher than Colorado's by about 20%.

Ongoing Costs:

For ongoing costs the computation of new expenses that are above and beyond the current requirement set out by regulation or Missouri statute are considered in this section. As such what follows in this section are:

- 1) Likely tools and measures to be used;
- 2) The new effort and resources needed; and
- The ongoing cost for three categories of teachers, (novice, effective, and ineffective).

When considering such a broad and sweeping change of the Missouri education system the usual disclaimers apply - 1) we are anticipating standards based on our experience with DESE and local school boards - nothing in this document should be viewed as an endorsement of any system of evaluation, 2) additionally our estimations are based on our best understanding of the initiative and its implementation in our district, and 3) the cost estimate only the amount to evaluate teachers.

Evaluating Teachers:

To evaluate teachers numerous measurers and tools will need to be developed as well as the standards for apply those tools (including but not limited to):

Observation with pre/post interview

- Examination of lessons, unit plans, assignments and assessments
- Student and Parent feedback
- Peer observation and feedback.
- Teacher self review and interviews
- Analysis of student data and growth.

While these tools can be used with teachers at all levels of experience and ability - allotments must be made for more time and effort to be spent with teachers based on their experience (or lack thereof) and abilities.

The consulting firm of Augenblick, Paslaich, and Associates concluded that teachers are likely to fall into one of the three categories below and require a differing amount of ongoing supervision and evaluation costs. (SEE APPENDIX A - TABLES I-III for breakdown of evaluation and resources for each population of teachers).

Performance Standard	Per Teacher
Novice*	\$343 (increased training and data analysis)
Effective	\$531 (increased data analysis and frequency of evaluation)
Need Improvement	\$3,783 (increased number of teachers identified that require supervision and remediation)

*Boulder Valley School District. SB 191 and you. April 2011

The Cape Girardeau School Districts commitment to quality has allowed us to recruit a corps of 343 highly qualified.

As such we have adjusted our assumptions as follows:

97% (334 teachers) will fit into the "Effective" category.

2.75% (9 teachers) will qualify as "novice"
Only .25% (1 teachers) will fit into the "need improvement"
category.

Fiscal Impacts of 3(f) and 3(g) implementation of proposed evaluation model:

Fiscal Year 2013 – 1^{st} year of implementation: Assumes average costs of \$53 per student and an even population of 4,122 students. Also assumes 1^{st} year evaluation costs (see Table 9).*

Fiscal Year 2014 – 2^{nd} year of evaluation and increased MAP costs.*

*Assumes state development of template systems of evaluation and testing mechanisms.

Table 7: Estimated Cost to Cape Girardeau Public School

FY 2013		\$ Estimate
Startup Cost assume	One time Cost	4,122 x \$53 =
average of \$53 per	Student K-12	\$218,466.00
student	Population of	
	Missouri 22,201	
	(2012)	
FY 2013	Increased MAP Costs	\$87,017.40
	(Re-occurring)	
FY 2013	First Yearly	12 x \$343 =
	Evaluation: NOVICE	\$ 4,116.00
	evaluation costs	

<u>District for Evaluation</u>

	\$343 *	
	First Yearly	1 x \$3,783 =
	Evaluation: NEED	\$3,783.00
	IMPROVEMENT	
	evaluation costs	
	\$3,783	
	First Yearly	412 x \$531 =
	Evaluation:	\$218,772
	Effective \$531	· · · · · · · · · · · · · · · · · · ·
Total FY 2013		\$ 452,154.40
		+,
FY 2014	Yearly Reoccurring	12 x \$343 =
	Evaluation: NOVICE	\$ 4,116.00
	evaluation costs	
	\$343 *	
	Yearly Reoccurring	1 x \$3,783 =
	Evaluation: NEED	\$3,783.00
	IMPROVEMENT	
	evaluation costs	
	\$3,783	
	Yearly Reoccurring	412 x \$531 =
	Evaluation:	\$218,772
	Effective \$531	
FY 2014	Increased MAP Costs	\$ 87,017.40
	(Re-occurring)	
Total FY 2014		
		\$ 313,688.40
Total Costs of		
evaluation program		\$765,842.80
to School District		
FY 2013-2014		

*The National Commission on Teaching and America's Future (NCTAF). Report of Teacher Age and Experience by State (2007-2008). Available via: http://nctaf.org/wp-content/uploads/2012/01/WebAgeandExpbyState07-08.pdf

Officials from the Hannibal 60 School District indicated:

Overview:

This document describes the anticipated fiscal impact of the proposed amendment to Article IX of the Missouri Constitution to the Hannibal School District. While our analysis focuses on the impacts to our district – we share the same concerns voiced by Mr. Roger Kurtz in his submission to your office regarding the impact of the proposed amendment.

We believe this Amendment has wide ranging financial impacts for Local Government entities who would be required constitutionally to develop expertise on school district evaluation policies before releasing local funds, our analysis will focus the specific costs of the impact of <u>developing student assessment tools for all grades across all subject</u> <u>areas, implementing a testing regime, and applying those tools to develop and</u> <u>execute an evaluation model as prescribed in sections 3(f) and 3(g)</u> of the amendment using data from Missouri and similar proposals from Colorado as a basis for analysis.

In general the proposed amendment's costs are driven by the need to create quantifiable and objective data on each Missouri student, in every subject, to be used as a basis for evaluation of educators.

To acquire the incredible amount of data necessary to fulfill this goal is a herculean task – a proven and statistically reliable test for every subject must be created and administered for every grade level to every student. Missouri has developed test for a handful of core subjects and administers them periodically in a student's progression from kindergarten to the 12^{th} grade. This allows a real and accurate basis for the cost of testing for every child in every subject.

The Hannibal School District:

The Hannibal School District #60 is rated "accredited with distinction in performance" by the Missouri Department of Elementary and Secondary Education. Additional accreditation comes from the North Central Association of Colleges and Schools at the career center.

The district features a grade configuration of pre-kindergarten, kindergarten and grades one through five in its elementary schools, grades six through eight in its middle school, and grades nine through twelve in its high school. The area career and technical center is also located on school district property. The district is comprised of five elementary attendance centers including Eugene Field, Mark Twain, Oakwood, Stowell, and Veterans. All elementary schools are organized as pre-kindergarten through fifth grade.

Staff members in the district number 564 including 326 certificated and 238 noncertificated members. Of the 326 certificated staff members, 59.4 percent are at or

above the master's degree level. The average teaching experience level in the district is 12.7 years.

Special programs in early childhood education and parenting, guidance and counseling services, health programs, and special education programs are a vital part of the total program of the Hannibal School District. Also provided are remedial services, both during the school term and during a summer school program. A summer enrichment program is also offered to all students. In addition to these programs, a strong well-rounded, extracurricular program including athletics, performing and visual arts, and publications is offered by the district.

There is a strong relationship between the school and community as evidenced by strong parental involvement, support, and partnership with community organizations. Each elementary and the middle school have active parent-teacher organizations and strong booster organizations exist for band, chorus, and athletics. Success in the activity programs and competitions is a source of community pride.

ENROLLMENT TRENDS

The school district enrollment has been steady the past ten years. Enrollment projects indicate a slight but steady increase for the next ten years. There is a possibility of a greater increase in population of school age children if rapid economic growth in the Hannibal area occurs.

OTHER DISTRICT INFORMATION AND FACTS:

- budget for 2011-2012 school year is \$32,466,314
- sources of revenues are local and county (45.3%), state (34.9%), and federal (19.8%).
- assessed valuation for 2011 is \$283,310,605 and the current tax levy is \$3.4199
- enrollment is 3,621 for the 2011-2012 school year.
- teacher salary range for 2011-2012 is \$30,900 to \$55,130 and the average teacher salary is \$39,483

Test Development and Implementation Costs and Considerations

Mr. Ellinger's submission requires that every school district develop a set of locally based performance standards a majority of which is based on "quantifiable data":

3(g) Notwithstanding any other section of this constitution, <u>every school district</u> <u>shall develop and use local performance standards</u> to retain, remove, promote, demote, and set compensation for teachers in such school district, the majority of such <u>standards shall be based on quantifiable student performance data as measured by objective criteria</u>.

Our assumption is the state would develop a series of "template" standards of evaluation and guide the development of testing tools that could be utilized by our district.

Development:

Test development is a prohibitively expensive undertaking for any school district we would be unable to fund the development of tests to meet the reliability, validity and scope required by this proposal.

<u>Any school district</u> will require defensible research-based measures provided by the state, given the results of these assessments would be the major factor in employment decisions and likely policy makers will later use the data to make funding or accreditation decisions.

Currently, the state of Missouri provides assessments in only two subjects, math and communication arts, for students in grades 3-8 and one year in high school. Science tests are available for one elementary, one middle school grade, and high school biology.

The state paid for the development of the tests, including item and task specification, item authoring, bias and sensitivity checks, psychometric work, piloting, lay out and printing for the paper based 3-8 tests, and computer adaptive work for the high school tests.

The state pays for the scoring of these tests, at .06 per test. Until the recent budget crisis, the cost to score was higher, as Missouri's assessments were not limited to multiplechoice questions as they are now. Previous assessments included constructed response questions where students wrote in short answers, as well as performance events where students wrote an essay or did multi-step problem solving, such as figuring the cost of installing a chain link fence for a yard of a given dimension.

In addition, tests need ongoing revisions through the use of parallel questions, so the questions are not the same from year to year, but the knowledge and skill tested remains the same.

In recent years, this annual revision has been limited due to budget restraints. Constructed response items and performance events have been removed from the assessments. In addition, budget cuts have forced DESE to pay the cost of current year assessments out of the next years' funding.

In order to evaluate teachers based on student assessments, you must first have baseline achievement data on each student for that subject. Current growth models can only provide data for $4^{th} - 8^{th}$ grade students in math and communication arts, because there is not baseline data for third graders. High school courses each consist of distinct content and scores on one course cannot be considered a starting point for another with the possible exception of Algebra I and II.

Massachusetts began to use student growth measured by state assessments in teacher evaluations, and found current assessments only produced data for 17% of teachers. The language in 3 (g) would require annual assessments of pre-K to 8th grade students in every subject. High school courses would require pre-tests at the beginning of the course as well as end of course tests to measure student achievement growth in each course offering.

The following list of courses was taken from the Missouri School Improvement Program 4 Resource Standards, found at <u>www.dese.mo.gov</u>.

Tabi	ible i School improvement courses			
	Elementary Courses	Middle School Courses		
1	Math by grade	Math by grade		
2	Reading by grade	Reading by grade		
3	Language Arts by grade	Language Arts by grade		
4	Social Studies/History by	Social Studies/History by		
	grade	grade		
5	Science by grade	Science by grade		
6	Music by grade	Vocal Music		
7	Art by grade	Instrumental Music		
8	Physical Education by	Art		
	grade			
9	Foreign Language by grade	Physical Education by grade		
10	Health by grade	Health		
11	Career Awareness by grade	Foreign Language		
12	Instrumental Music I and	Speech		
	II			
13	Library Skills by grade	Algebra 1		
14		Agriculture		
15		Family and Consumer Science		
16		Industrial Technology		
17		Computer Literacy		
18		Career Education		
l				

Table 1 School Improvement Courses

Middle school students are required to take the four core subjects, physical education, health, art and music. Some students will also have a stand-alone reading course. This totals nine subjects for one year. Seventh and eighth graders must in addition have access to four exploratory classes, bringing the total courses for them to 13. Some of these courses would only last for 6 weeks, others may last a semester.

Development Costs:

Table 2 illustrates the costs associated with developing new testing regimes from previous RFPs on Smarter Balanced Assessment Consortium website. <u>We would expect</u>

the state to bear the cost of developing these testing mechanisms. Indeed no testing regime can be considered viable without significant state resources.

PROJECT	DETAILS	BID COST Estimate
SBAC RFP No. 14	SBAC Pilot	\$19,000,000
SBAC RFP NO. 14		\$19,000,000
	Item/Task/Stimulus	
	Research	
	Development and	
	Reviews	
SBAC RFP No. 07	Item Authoring and	\$1,988,000
	Item Pool	
	Application	
SBAC RFP No. 09	Test Blueprint and	\$1,457,721
	Computer Adaptive	
	Test	
	Specifications	
SBAC RFP No. 08 1-	Participation and	\$739,392
2012 to 10-2013	Training Materials	
SBAC RFP No. 05	Psychometric	\$3,500,000
	Services	
SBAC RFP No. 06	Development of	\$930,000
	Accessibility and	, ,
	Accommodations	
	Policies and	
	Materials	
SBAC RFP No. 04	SMARTER Balanced	\$1,500,000
	Assessment	Ş1,300,000
	Consortium Request	
	for Proposals to	
	Develop Item and	
	Task	
	Specifications,	
	Style Guide, Bias	
	and Sensitivity	
	-	
	Guidelines, and	
	Accessibility and	
	Accommodations	
	Guidelines	40.000.000
SBAC RFP No. 03	SMARTER Balanced	\$2,000,000
	Assessment	
	Consortium II	
	Systems	
	Architecture	
	(word)	
SBAC RFP No. 02	IT Readiness Tool	\$500,000 (2011-14)
	for SBAC and PARCC	

Table 2: RFP for Smarter Balanced Assessment

	(word)	
SBAC RFP No. 01	Smarter Balanced	\$2.2 million
	Assessment	(2011-14
	Communications RFP	
RFP 2010-07 (SBAC	Comprehensive	Not included
RFP)	Assessment	
	Systems Grant -	
	Project Management	
	Partner	
Total for Math and		\$33,815,113 for 14
CA		tests
Cost per test to		\$2,415,365
develop		_
Total FY 2013 Cost		\$1,161,790,565
for 481 new tests		

Administration Costs:

Administering assessments for pre-K through 2^{nd} grade students is significantly more costly for school districts, as much of this testing must be administered one-on-one. This means the district hires a substitute for the several days it takes the classroom teacher to complete individual student assessments.

On average, Missouri high school students take seven classes a day, one to three of which are semester courses. Older students take more semester courses.

Cost to districts: Cost estimates are based on current charge districts for MAP tests, and testing every student in every subject.

Grade	Total	Cost per test	Cost to	Number	Statewide
	students		test one	of	total
			subject	subjects	
K-8	2,616	\$.90 est.	\$2,354.40	9	\$21,189.60
9-12	1,005	\$.90	\$904.50	8 x 2	\$14,472.00
				tests	
	FY 2013 New costs and reoccurring FY2014				\$35,661.60

Table 3: Average cost of MAP testing to districts from state

Teacher Evaluation Assumptions and Data:

In developing the cost estimates contained we relied on the experiences other states have had in creating a similar evaluation model prescribed in the proposed amendment. Specifically, the removal of teacher experience as part of compensation 3(f) and the development of new evaluation systems for educators on the district level (3g):

3(f) Notwithstanding any provisions of this constitution, no school district which uses seniority or duration of employment as a basis, in whole or in part, to retain, remove, promote or demote teachers shall receive any state funding or local tax revenue.

3(g) Notwithstanding any other section of this constitution, every school district shall develop and use local performance standards to retain, remove, promote, demote, and set compensation for teachers in such school district, the majority of such standards shall be based on quantifiable student performance data as measured by objective criteria.

While our analysis will cite information from multiple states - the recent experience of Colorado in developing a remarkably similar system of teacher evaluation and estimating the implementation costs serves as a good exemplar of what Missouri policy makers and budget analysts should expect as they are required to implement sweeping changes to teacher evaluation and compensation. Additionally CO and MO have similarly sized public education systems – and when ranked nationally are very close in size and scope (See table 4 below).

	Missouri	National Rank (MO)	Colorado	National Rank (CO)
Average Daily Attendance (2010)	835,780	19	771,938	21
Number of Public High School Graduates '09- '10	62,342	20	46,811	22
Number of Public School Teachers K-12	67,882	14	48,960	23

Table 4: Similarities in the size of public education systems in MO and CO*

*NEA Research. (2010). <u>Rankings & Estimates Rankings of the States 2010 and</u> <u>Estimates of School Statistics 2011</u>.

http://www.nea.org/assets/docs/HE/NEA_Rankings_and_Estimates010711.pdf

Salary data used in this analysis will assume average pay for a Missouri teacher at \$45,317 or 48^{th} in the nation and 81.5% of the national average.

The Colorado Experience:

In May of 2010, Colorado passed Senate Bill 191 which completely changed how publicschool educators were evaluated in Colorado. <u>At the core of the proposal were two</u> <u>policy objectives similar to those in 3(f) and 3(g)</u> of the current proposal: 1) the removal of duration of employment as a basis of evaluation in whole or in part and 2) replaced with a model where quantifiable student growth/achievement represents at least 50% of the total performance by quantifiable and objective standards. Table 7 below places the proposals for quantifiable measurement side-by-side for comparison:

<u>v. SB 191 C</u>		
	Ellinger Missouri Proposal	Senate Bill 191 Colorado
Side-by-side comparison of measurement standards from MO and CO	"3(g) Notwithstanding any other section of this constitution, every school district shall develop and use local performance standards to retain, remove, promote, demote, and set compensation for teachers in such school district, the majority of such standards shall be based on quantifiable student performance data as measured by objective criteria. "	"Procedures for prioritizing or weighting measures of performance that ensure that measures of student growth represent at least 50 percent of total performance and are prioritized by technical quality, and that measures of professional practice are prioritized by local objectives."
Source	*Ellinger Submission. (January 17, 2012). Pg 3	<pre>* Colorado State Board of Education. Report & recommendations; submitted to the Colorado State Board of Education pursuant to SB 10-191. (April 13, 2011). Pg 18 Available online: http://www.cde.state.co.us/Educa torEffectiveness/downloads/Repor t%20&%20appendices/SCEE_Final_Re port.pdf</pre>

Table 5: Comparison of Measurement Standard of Ellinger Proposal v. SB 191 Colorado

We believe the process of estimating costs to local school districts used by the Colorado State Board of Education will shed light on the Ellinger proposal and permit an estimate of the fiscal impact to the Hannibal School District.

Translating the Colorado Experience to Missouri:

For purpose of analysis we will assume the following role for the state:

- 1) Create an exemplar template and evaluation system with a resource bank of evaluation tools.
- 2) Provide student, teacher, and parent survey instruments and analysis of results to districts.

- 3) Provide a definition of what constitutes a qualified educator for every subject area and grade level.
- 4) Develop materials to support professional development.
- 5) Collect and report evaluation data for the state.

NOTE: None of this is guaranteed or funded under the Ellinger proposal – nor do we attempt in this analysis to associate costs – but it is worth noting that the state would likely need to develop a whole host of example evaluation tools that districts could adopt and such development is likely to be a costly process.

In addition to the items above the state will likely have to develop and provide:

- 1) Assessment tools from the state need to be available to districts in all subjects, at no cost, and resulting data must be reliable and valid. Districts will recognize that they are allowed to create their own unique assessments, but districts will likely want to use defensible research-based measures provided by the state given the implications the data can have on educators and students.
- 2) A valid individual teacher and student tracking system needs to be developed and in place provided by the state. Much of the ability for districts to evaluate teacher performance based on at least "50% quantifiable data" will rely on the ability to correctly identify the teacher of record for each student in each subject area and assign attributable changes in performance to the appropriate teacher.

The state-level responsibilities listed above are essential to any successful implementation of the Ellinger proposal.

Startup Costs:

Certain initial costs are likely to be required at the district level prior to the implementation of the new evaluation system. We assume the burden for implementing the state mandates would fall to the **individual school district**. For example we would have to spend time selecting evaluation tools and measurements from the state templates, set up first time data systems, develop an appeals process, and provide comprehensive training for evaluators and educators. Colorado estimate the effort needed to accomplish these tasks is as follows:

	Selecting Evaluation Tools and Measurements	One time Data Set Up	Developing Appeals Process	Professional Development for all Staff	Professional Development for Evaluators
District Personnel*					
Superintendent Assistant Superintendent				2 days	30 hours 30 hours
Director		5 days			30 hours
Trainer		2 ang 5		3 days	60 hours
Clerical Staff					and thinks
IT Technician		5 days			
School Personnel*			· · · · · · · · · · · · · · · · · · ·		
feachers	5% of all teachers. \$100 a day for 5 days			2 days for every teacher	
Committee Teacher Leader	1% of all teachers, \$200 a day for 5 days				
Instructional Goach				2 days for every coach	
Principal				2 days for every principal	30 hours for every principal
District/School Costs*					
legal			\$10,000		

Table 6: One Time Costs for each district:

Augenblick, Paslaich, and Associates INC. Costing Out the Resources Implications of SB 10-191 in Coloraodo School Districts: Prepared for State Council for Educator Effectiveness. March 2011. Pg 35

Augenblick, Paslaich, and

Associates and the Colorado State Board of Education estimate that the initial one-time costs on average are \$53 per student. Given the comparability of Missouri and Colorado (see table 4) we believe that this estimate is applicable to our school system and may be conservative given our average teacher pay and experience level is higher than Colorado's by about 20%.

Ongoing Costs:

For ongoing costs the computation of new expenses that are above and beyond the current requirement set out by regulation or Missouri statute are considered in this section. As such what follows in this section are:

- 1) Likely tools and measures to be used;
- 2) The new effort and resources needed; and
- 3) The ongoing cost for three categories of teachers, (novice, effective, and ineffective).

When considering such a broad and sweeping change of the Missouri education system the usual disclaimers apply -1) we are anticipating standards based on our experience with DESE and local school boards – nothing in this document should be viewed as an endorsement of any system of evaluation, 2) additionally our estimations are based on our best understanding of the initiative and its implementation in our district, and 3) the cost estimate only the amount to evaluate teachers.

Evaluating Teachers:

To evaluate teachers numerous measurers and tools will need to be developed as well as the standards for apply those tools (including but not limited to):

- Observation with pre/post interview
- Examination of lessons, unit plans, assignments and assessments
- Student and Parent feedback
- Peer observation and feedback.
- Teacher self review and interviews
- Analysis of student data and growth.

While these tools can be used with teachers at all levels of experience and ability – allotments must be made for more time and effort to be spent with teachers based on their experience (or lack thereof) and abilities.

The consulting firm of Augenblick, Paslaich, and Associates concluded that teachers are likely to fall into one of the three categories below and require a differing amount of ongoing supervision and evaluation costs. (SEE APPENDIX A - TABLES I-III for breakdown of evaluation and resources for each population of teachers).

Performance Standard	Per Teacher	
Novice*	\$343 (increased training and data analysis)	
Effective	\$531 (increased data analysis and frequency of evaluation)	
Need Improvement	\$3,783 (increased number of teachers identified that require supervision and remediation)	

*Boulder Valley School District. SB 191 and you. April 2011

The Hannibal School Districts commitment to quality has allowed us to recruit a corps of 326 highly qualified teachers with an average of 12.7 years of experience.

As such we have adjusted our assumptions as follows:

97% (316 teachers) will fit into the "Effective" category.2.75% (9 teachers) will qualify as "novice"Only .25% (1 teachers) will fit into the "need improvement" category.

Fiscal Impacts of 3(f) and 3(g) implementation of proposed evaluation model:

Fiscal Year $2013 - 1^{st}$ year of implementation: Assumes average costs of \$53 per student and an even population of 3,585 students. Also assumes 1^{st} year evaluation costs (see Table 9).*

Fiscal Year $2014 - 2^{nd}$ year of evaluation and increased MAP costs.*

*Assumes state development of template systems of evaluation and testing mechanisms.

Table 7: Estimated Cost to District for Evaluation

	\$ Estimate
One time Cost	3,621 x \$53 =
Student K-12	\$191,913.00
Population of	
Missouri 22,201	
(2012)	
Increased MAP Costs	\$35,661.60
(Re-occurring)	
First Yearly	9 x \$343 =
Evaluation: NOVICE	\$ 3,087.00
evaluation costs	
\$343 *	
First Yearly	1 x \$3,783 =
Evaluation: NEED	\$3,783.00
IMPROVEMENT	
evaluation costs	
\$3,783	
First Yearly	316 x \$531 =
Evaluation:	\$167,796.00
Effective \$531	
	\$ 402,240.60
	Student K-12 Population of Missouri 22,201 (2012) Increased MAP Costs (Re-occurring) First Yearly Evaluation: NOVICE evaluation costs \$343 * First Yearly Evaluation: NEED IMPROVEMENT evaluation costs \$3,783 First Yearly Evaluation:

FY 2014	Yearly Reoccurring	9 x \$343 =
	Evaluation: NOVICE	\$ 3,087.00
	evaluation costs	
	\$343 *	
	Yearly Reoccurring	1 x \$3,783 =
	Evaluation: NEED	\$3,783.00
	IMPROVEMENT	
	evaluation costs	
	\$3,783	
	Yearly Reoccurring	316 x \$531 =
	Evaluation:	\$167,796.00
	Effective \$531	
FY 2014	Increased MAP Costs	\$ 35,661.60
	(Re-occurring)	
Total FY 2014		
		\$ 210,327.60
Total Costs of		
evaluation program		\$612,568.20
to School District		
FY 2013-2014		

*The National Commission on Teaching and America's Future (NCTAF). Report of Teacher Age and Experience by State (2007-2008). Available via: http://nctaf.org/wp-content/uploads/2012/01/WebAgeandExpbyState07-08.pdf

APPENDIX A NEW RESOURCES NEEDED BY TEACHER BASED ON DESIGNATION TABLES PREPARED BY: Augenblick, Paslaich, and Associates March 2011

			Evalu	ation [Forn	nal and Inf	ormal]			
			Sta	ridards I V			Standards VI		Reporting/
	Training on Evaluation System/Tools	Observations, Pre/Post Interviews	Examination of Artifacts	Student Surveys	Parent Surveys	Peer Observation/ Collaboration	Student Growth Assessments	Rating, Review of Results	Reviewing Evaluation Results
District Personnel									
Administrator									1 hr
Clerical Staff								0.5 hr	t hr
School Personnel									
Teachers									
nstructional Coach									
Principal				- State State	7.5 b.s				
Data Manager							3 hrs		
Substitute						1 day at \$100			
District/School Costs	-							annen best mensenen	
Supplies and Materials									
Other				Cost at St	ate Level				

			Evalu	ation (For	nal and Inf	ormal)			
			Sta	ridards I-V			Standards VI		Reporting/
	Training on Evaluation System/Tools	Observations, Pre/Post Interviews	Examination of Artifacts	Studient Surveys	Parent Surveys	Peer Observation/ Collaboration	Student Growth Assessments	Rating, Review of Results	Reviewing Evaluation Results
District Personnel									
Administrator									1.5 hr
Clarical Staff								0.5 hr	1 hr
School Personnel		-							
Teachers	.25 day								
Instructional Coach	.05 day*								
Principal	.05 day*								
Data Manager							3 hrs		
Substitute									
District/School Costs									
Supplies and Materials	\$5								
Other				Cost at 5	ate Level				

				TAR	SLE III					
		New Resources	Needed to Eval			ed inelfective Te	eacher Each Yea	r		
			Evalu	Evaluation (Formal and Informal)					l	
				ndards FV			Standards VI			Reporting/
	Training on Evaluation System/Tools	Observations, Pro/Post Interviews	Examination of Artifacts	Student Surveys	Parent Surveys	Peer Observationy Collaboration	Student Growth Assessments	Instructional Improvement	Review of Results/ Rating	Reviewing Evaluation Results
District Personnel	-									
Administrator	-									2
Clerical Staff									0.5 hr	1 hr
School Personnel										
Teachers										
Instructional Coach								40 hours		
Principal						30 hrs				
Data Manager							3 hrs			
Substitute						1 day at \$100				
District/School Costs					-					
Course/Workshop Fac								\$500		
Supplies and Materials										
Other				Cost at St	ate Level					

Officials from Rockwood R-VI School District indicated:

Overview:

This document describes the anticipated fiscal impact of the proposed amendment to Article IX of the Missouri Constitution to the Rockwood R-VI school district. While our analysis focuses on the impacts to our district - we share the same concerns voiced by Mr. Roger Kurtz in his submission to your office regarding the impact of the proposed amendment.

We believe this Amendment has wide ranging financial impacts for Local Government entities who would be required constitutionally to develop expertise on school district evaluation policies before releasing local funds. Our analysis will focus the specific costs of the impact of developing student assessment tools for all grades across all subject areas, implementing a testing regime, and applying those tools to develop and execute an evaluation model as prescribed in sections 3(f) and 3(g) of the amendment using data from Missouri and similar proposals from Colorado as a basis for analysis.

In general the proposed amendments costs are driven by the need to create quantifiable and objective data on each Missouri student, in every subject, to be used as a basis for evaluation of educators.

To acquire the incredible amount of data necessary to fulfill this goal is a herculean task - <u>a proven and statistically</u> <u>reliable test for every subject must be created and</u> <u>administered for every grade level to every student</u>. Missouri has developed tests for a handful of core subjects and administers them periodically in a students progression from kindergarten to the 12th grade. This allows a real and accurate basis for the costing of testing for every child in every subject.

3

The Rockwood School District:

There is an advantage to being a part of the Rockwood School District. This premier school district located in West St. Louis County has high student achievement, outstanding teachers and staff, and great community support.

Our mission of doing whatever it takes to ensure all students realize their potential is at the center of our work. In Rockwood, we want every child to succeed. The Rockwood R-VI school district is one of the top performing school districts in Missouri and the nation. With a graduation rate of 94.9% the Department of Elementary and Secondary Education notes our district as Distinction in Performance with High Achievement , additionally we are one of the best financially managed districts in the United States receiving a Moodys bond rating of AA2 and a Standard & Poors rating o f AAA.

We service a large and diverse population with:

- 19 Elementary Schools
- 6 Middle Schools
- 4 High Schools
- 10 National Blue Ribbon Schools

14 Missouri Gold Star Schools of Excellence

- 8 National Schools of Character
- 9 Missouri Schools of Character

With: Separate Campuses for Gifted, Early Childhood and Alternative High School Education

The district educates and serves over 22,500 students (Pre-k - 12).

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Mr. Ellingers submission requires that every school district develop a set of locally based performance standards a majority of which is based on quantifiable data :

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5

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The state paid for the development of the tests, including item and task specification, item authoring, bias and sensitivity checks, psychometric work, piloting, lay out and printing for the paper based 3-8 tests, and computer adaptive work for the high school tests.

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In addition, tests need ongoing revisions through the use of parallel questions, so the questions are not the same from year to year, but the knowledge and skill tested remains the same.

In recent years, this annual revision has been limited due to budget restraints. Constructed response items and performance events have been removed from the assessments. In addition, budget cuts have forced DESE to pay the cost of current year assessments out of the next years funding.

In order to evaluate teachers based on student assessments, you must first have baseline achievement data on each student for that subject. Current growth models can only provide data for 4th - 8th grade students in math and communication

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arts, because there is not baseline data for third graders. High school courses each consist of distinct content, therefore scores on one course cannot be considered a starting point for another with the possible exception of Algebra I and II.

Massachusetts began to use student growth measured by state assessments in teacher evaluations and found current assessments only produced data for 17% of teachers. The language in 3 (g) would require annual assessments of pre-K to 8th grade students in every subject. High school courses would require pre-tests at the beginning of the course as well as end of course tests to measure student achievement growth in each course offering.

The following list of courses was taken from the Missouri School Improvement Program 4 Resource Standards, found at www.dese.mo.gov.

	Elementary Courses	Middle School Courses
1	Math by grade	Math by grade
2	Reading by grade	Reading by grade
3	Language Arts by grade	Language Arts by grade
4	Social Studies/History by grade	Social Studies/History by grade
5	Science by grade	Science by grade
6	Music by grade	Vocal Music
7	Art by grade	Instrumental Music
8	Physical Education by grade	Art
9	Foreign Language by grade	Physical Education by grade
10	Health by grade	Health
11	Career Awareness by grade	Foreign Language
12	Instrumental Music I and II	Speech
13	Library Skills by grade	Algebra 1
14		Agriculture
15		Family and Consumer Science
16		Industrial Technology
17		Computer Literacy
18		Career Education

Table 1 School Improvement Courses

Middle school students are required to take the four core subjects, physical education, health, art and music. Some students will also have a stand-alone reading course. This totals nine subjects for one year. Seventh and eighth graders must, in addition, have access to four exploratory classes, bringing the total courses for them to 13. Some of these courses would only last for 6 weeks, others may last a semester.

Development Costs:

Table 2 illustrates the costs associated with developing new testing regimes from previous RFPs on Smarter Balanced Assessment Consortium website. <u>We would expect the state to</u> <u>bear the cost of developing these testing mechanisms. Indeed</u> <u>no testing regime can be considered viable without</u>

significant state resources.

PROJECT	DETAILS	BID COST Estimate
SBAC RFP No. 14	SBAC Pilot Item/Task/Stimulus Research Development and Reviews	\$19,000,000
SBAC RFP No. 07	Item Authoring and Item Pool Application	\$1,988,000
SBAC RFP No. 09	Test Blueprint and Computer Adaptive Test Specifications	\$1,457,721
SBAC RFP No. 08 1- 2012 to 10-2013	Participation and Training Materials	\$739,392
SBAC RFP No. 05	Psychometric Services	\$3,500,000
SBAC RFP No. 06	Development of Accessibility and Accommodations Policies and Materials	\$930,000

Table 2: RFP for Smarter Balanced Assessment

SBAC RFP No. 04	SMARTER Balanced Assessment Consortium Request for Proposals to Develop Item and Task Specifications, Style Guide, Bias and Sensitivity Guidelines, and Accessibility and Accommodations Guidelines	\$1,500,000
SBAC RFP No. 03	SMARTER Balanced Assessment Consortium II Systems Architecture (word)	\$2,000,000
SBAC RFP No. 02	IT Readiness Tool for SBAC and PARCC (word)	\$500,000 (2011-14)
SBAC RFP No. 01	Smarter Balanced Assessment Communications RFP	\$2.2 million (2011- 14
RFP 2010-07 (SBAC RFP)	Comprehensive Assessment Systems Grant - Project Management Partner	Not included
Total for Math and CA		\$33,815,113 for 14 tests
Cost per test to develop		\$2,415,365
Total FY 2013 Cost for 481 new tests		\$1,161,790,668

Administration Costs:

Administering assessments for pre-K through 2nd grade students is significantly more costly for school districts, as much of this testing must be administered one-on-one. This means the district hires a substitute for the several days it takes the classroom teacher to complete individual student assessments. On average, Missouri high school students take seven classes a day, one to three of which are semester courses. Older students take more semester courses.

Cost to districts: Cost estimates are based on current charges to districts for MAP tests, and testing every student in every subject.

Grade	Total	Cost per test	Cost to	Number	Total
	students*		test one	of	
			subject	subjects	
K-8	15,054	\$.90 est.	\$13,548.60	9	\$121,937.40
9-12	7,514	\$.90	\$6,762.60	8 x 2 tests	\$ 108,201.60
	FY 2013 New costs and reoccurring FY2014				\$230,139.00

Table 3: Average cost of MAP testing to Rockwood School District

*Source: DESE - District Report Card 2011, 096091 District Code

Teacher Evaluation Assumptions and Data:

In developing the cost estimates contained, we relied on the experiences other states have had in creating a similar evaluation model prescribed in the proposed amendment. Specifically, the removal of teacher experience as part of compensation 3(f) and the development of new evaluation systems for educators on the district level (3g):

3(f) Notwithstanding any provisions of this constitution, no school district which uses seniority or duration of employment as a basis, in whole or in part, to retain, remove, promote or demote teachers shall receive any state funding or local tax revenue.

3(g) Notwithstanding any other section of this constitution, every school district shall develop and use local performance standards to retain, remove, promote, demote, and set compensation for teachers in such school district, the majority of such standards shall be based on quantifiable student performance data as measured by objective criteria.

While our analysis will cite information from multiple states - the recent experience of Colorado (CO) in developing a remarkably similar system of teacher evaluation and estimating the implementation costs serves as a good exemplar of what Missouri (MO) policy makers and budget analysts should expect as they are required to implement sweeping changes to teacher evaluation and compensation. Additionally CO and MO have similarly sized public education systems - and when ranked nationally are very close in size and scope (See table 4 below).

	Missouri	National Rank (MO)	Colorado	National Rank (CO)
Average Daily Attendance (2010)	835,780	19	771,938	21
Number of Public High School Graduates '09- `10	62,342	20	46,811	22
Number of Public School Teachers K-12	67,882	14	48,960	23

Table 4: Similarities in the size of public education systems in MO and CO*

*NEA Research. (2010). <u>Rankings & Estimates Rankings of the States 2010 and</u> Estimates of School Statistics 2011.

http://www.nea.org/assets/docs/HE/NEA Rankings and Estimates010711.pdf

Salary data used in this analysis will assume average pay for a Rockwood R-VI teacher of \$55,965 plus 34% to included benefits and other employer obligations. The current average salary for a Missouri teacher is \$45,317 or 48th in the nation and 81.5% of the national average.

The Colorado Experience:

In May of 2010, Colorado passed Senate Bill 191, which completely changed how public-school educators were evaluated in Colorado. At the core of the proposal were two policy objectives similar to those in 3(f) and 3(g) of the current proposal: 1) the removal of duration of employment as a basis of evaluation in whole or in part and 2) replaced with a model where quantifiable student growth/achievement represents at least 50% of the total performance by quantifiable and objective standards. Table 7 below places the proposals for quantifiable measurement side-by-side for comparison:

Table 5:	Cor	npar	rison	l of	Measuremen	t Standard	of	Ellinger
Proposal								

	Ellinger Missouri Proposal	Senate Bill 191 Colorado
Side-by-side comparison of measurement standards from MO and CO	3 (g) Notwithstanding any other section of this constitution, every school district shall develop and use local performance standards to retain, remove, promote, demote, and set compensation for teachers in such school district, the majority of such standards shall be based on quantifiable student performance data as measured by objective criteria.	Procedures for prioritizing or weighting measures of performance that ensure that measures of student growth represent at least 50 percent of total performance and are prioritized by technical quality, and that measures of professional practice are prioritized by local objectives.

Source	*Ellinger Submission.	* Colorado State Board of
bource	(January 17, 2012). Pg 3	Education. Report & recommendations; submitted to the Colorado State Board of Education pursuant to SB 10-191. (April 13, 2011). Pg 18 Available online: http://www.cde.state.co.us/Educa torEffectiveness/downloads/Repor t%20&%20appendices/SCEE_Final_Re port.pdf
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We believe the process of estimating costs to local school districts used by the Colorado State Board of Education will shed light on the Ellinger proposal and permit an estimate of the fiscal impact to the Rockwood School District.

Translating the Colorado Experience to Missouri:

For purpose of analysis we will assume the following role for the state:

- 1) Create an exemplar template and evaluation system with a resource bank of evaluation tools.
- 2) Provide student, teacher, and parent survey instruments and analysis of results to districts.
- 3) Provide a definition of what constitutes a qualified educator for every subject area and grade level.
- 4) Develop materials to support professional development.
- 5) Collect and report evaluation data for the state.

NOTE: None of this is guaranteed or funded under the Ellinger proposal - nor do we attempt in this analysis to associate costs - but it is worth noting that the state would likely need to develop a whole host of example evaluation tools that districts could adopt and such development is likely to be a costly process. In addition to the items above the state will likely have to develop and provide:

- 1) Assessment tools from the state need to be available to districts in all subjects, at no cost, and resulting data must be reliable and valid. Districts will recognize that they are allowed to create their own unique assessments, but districts will likely want to use defensible research-based measures provided by the state given the implications the data can have on educators and students.
- 2) A valid individual teacher and student tracking system needs to be developed and in place provided by the state. Much of the ability for districts to evaluate teacher performance based on at least 50% quantifiable data will rely on the ability to correctly identify the teacher of record for each student in each subject area and assign attributable changes in performance to the appropriate teacher.

The state-level responsibilities listed above are essential to any successful implementation of the Ellinger proposal.

Startup Costs:

Certain initial costs are likely to be required at the district level prior to the implementation of the new evaluation system. We assume the burden for implementing the state mandates would fall to the **individual school district**. For example, we would have to spend time selecting evaluation tools and measurements from the state templates, set up first time data systems, develop an appeals process, and provide comprehensive training for evaluators and educators. Colorado estimate the effort needed to accomplish these tasks is as follows:

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Table 6: One Time Costs for each district:

Augenblick, Paslaich, and Associates INC. Costing Out the Resources Implications of SB 10-191 in Coloraodo School Districts: Prepared for State Council for Educator

Effectiveness. March 2011. Pg 35

Augenblick, Paslaich, and Associates and the Colorado State Board of Education estimate that the initial one-time costs on average are \$53 per student. Given the comparability of Missouri and Colorado (see table 4) we believe that this estimate is applicable to our school system and may be conservative given our average teacher pay and experience level is higher than Colorados by about 20%.

Ongoing Costs:

For ongoing costs the computation of new expenses that are above and beyond the current requirement set out by

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regulation or Missouri statute are considered in this section. As such what follows in this section are:

- 1) Likely tools and measures to be used;
- 2) The new effort and resources needed; and
- The ongoing cost for three categories of teachers, (novice, effective, and ineffective).

When considering such a broad and sweeping change of the Missouri education system the usual disclaimers apply - 1) we are anticipating standards based on our experience with DESE and local school boards - nothing in this document should be viewed as an endorsement of any system of evaluation, 2) additionally our estimations are based on our best understanding of the initiative and its implementation in our district, and 3) the cost estimate is only for the amount to evaluate teachers.

Evaluating Teachers:

To evaluate teachers numerous measures and tools will need to be developed as well as the standards for applying those tools (including but not limited to):

- Observation with pre/post interview
- Examination of lessons, unit plans, assignments and assessments
- Student and Parent feedback
- Peer observation and feedback
- Teacher self review and interviews
- Analysis of student data and growth

While these tools can be used with teachers at all levels of experience and ability - allotments must be made for more time and effort to be spent with teachers based on their experience (or lack thereof) and abilities.

The consulting firm of Augenblick, Paslaich, and Associates concluded that teachers are likely to fall into one of the three categories below and require a differing amount of ongoing supervision and evaluation costs. (SEE APPENDIX A - TABLES I-III for breakdown of evaluation and resources for each population of teachers).

Performance Standard	Per Teacher
Novice*	\$343 (increased training and data analysis)
Effective	\$531 (increased data analysis and frequency of evaluation)
Need Improvement	\$3,783 (increased number of teachers identified that require supervision and remediation)

*Boulder Valley School District. SB 191 and you. April 2011

Rockwood R-VIs exceptional commitment to quality has allowed us to recruit a corps of 1,480 highly qualified and experienced teachers. Teachers designated as Highly Qualified Teachers under the No Child Left Behind Act teach 100% of our classes. As such we have adjusted our assumptions as follows:

97% (1,435 teachers) will fit into the Effective category. 2.75% (41 teachers) will qualify as novice Only .25% (4 teachers) will fit into the need improvement category.

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Fiscal Impacts of 3(f) and 3(g) implementation of proposed evaluation model:

Fiscal Year 2013 - 1st year of implementation: Assumes average costs of \$53 per student and a population of 22,201 students. Also assumes 1st year evaluation costs (see Table 9).*

Fiscal Year 2014 - 2nd year of evaluation and increased MAP costs.*

*Assumes state development of template systems of evaluation and testing mechanisms.

	,	
FY 2013		\$ Estimate
Startup Costs	One time Cost for	22,201 x \$53 =
assume average of	Student K-12	\$1,176,653.00
\$53 per student	Population of	
	22,201	
FY 2013	Increased MAP Costs	\$222,667.00
	(Re-occurring)	
FY 2013	First Yearly	41 x \$343 =
	Evaluation: NOVICE	\$ 14,063.00
	evaluation costs	
	\$343 *	
	First Yearly	4 x \$3,783 =
	Evaluation: NEED	\$15,132.00
	IMPROVEMENT	
	evaluation costs	
	\$3,783	
	First Yearly	1,436 x \$531 =
	Evaluation:	\$762,516.00
	EFFECTIVE \$531	
Total FY 2013		\$ 2,191,031.00

Table 7: Estimated Cost to District for Evaluation

FY 2014	Reoccurring Yearly	41 x \$343 =
	Evaluation: NOVICE	\$ 14,063.00
	evaluation costs	
	\$343 *	
	Reoccurring Yearly	4 x \$3,783 =
	Evaluation: NEED	\$15,132.00
	IMPROVEMENT	
	evaluation costs	
	\$3,783	
	Reoccurring Yearly	1,436 x \$531 =
	Evaluation:	\$762,516.00
	EFFECTIVE \$531	
FY 2014	Increased MAP Costs	\$222,667.00
	(Re-occurring)	
Total FY 2014		<u>+</u>
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evaluation program		\$3,205,409.00
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*The National Commission on Teaching and America's Future (NCTAF). Report of Teacher Age and Experience by State (2007-2008). Available via: http://nctaf.org/wp-content/uploads/2012/01/WebAgeandExpbyState07-08.pdf

APPENDIX A NEW RESOURCES NEEDED BY TEACHER BASED ON DESIGNATION TABLES PREPARED BY:

Augenblick, Paslaich, and Associates March 2011

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Officials from **Linn State Technical College** indicated based on the information presented, there appears to be no fiscal impact to their college.

Officials from the **Harris-Stowe State University** indicated the language included in the petition has no fiscal impact on their university as it only makes reference to school districts not public higher education institutions.

Officials from the Missouri Western State University indicated there is no fiscal impact.

The Missouri Association of School Administrators (submitted by Roger Kurtz, Executive Director) provided information as an opponent of this initiative petition.

Overview:

This document describes the anticipated fiscal impact of the proposed amendment to Article IX of the Missouri Constitution. While we believe this Amendment has wide ranging financial impacts for Missouri State Government, a chronically underfunded Department of Elementary and Secondary Education (DESE), and local government entities who would be required constitutionally to develop expertise on school district evaluation policies before releasing funds, our analysis will focus the specific costs of <u>developing student assessment</u> <u>tools for all grades across all subject areas, implementing a testing regime, and applying</u> <u>those tools to develop and execute an evaluation model as prescribed in sections 3(f)</u> <u>and 3(g)</u> of the amendment using data from Missouri and similar proposals from Colorado as a basis for analysis.

In general, the proposed amendment's costs are driven by the need to create quantifiable and objective data on each Missouri student, in every subject, to be used as a basis for evaluation of educators. To acquire the incredible amount of data necessary to fulfill this goal is a herculean task – <u>a proven and scientifically reliable test for every subject must</u> <u>be created and administered for every grade level to every student</u>. Missouri has developed test for a handful of core subjects and administers them periodically in a student's progression from kindergarten to the 12th grade. This allows a real and accurate basis for the costing of testing for every child in every subject.

Test Development and Implementation Costs and Considerations

Mr. Ellinger's submission requires that every school district develop a set of locally based performance standards a majority of which is based on "quantifiable data":

3(g) Notwithstanding any other section of this constitution, <u>every school</u> <u>district shall develop and use local performance standards</u> to retain, remove, promote, demote, and set compensation for teachers in such school district, the majority of such <u>standards shall be based on</u> <u>quantifiable student performance data as measured by objective criteria</u>.

Our assumption is the state would develop a series of "template" standards of evaluation and guide the development of testing tools that could be utilized by individual districts.

Development:

Districts will recognize that the language allows them to create their own unique assessments, but no district would be able to fund the development of tests to meet the reliability, validity and scope required by this proposal. Districts will require defensible research-based measures provided by the state, given the results of these assessments would be the major factor in employment decisions. (Notably, the validity of state assessments for use in teacher evaluations has not been studied.)

Currently, the state of Missouri provides assessments in only two subjects, math and communication arts, for students in grades 3-8 and one year in high school. Science tests are available for one elementary, one middle school grade, and high school biology. The state paid for the development of the tests, including item and task specification, item authoring, bias and sensitivity checks, psychometric work, piloting, lay out and printing for the paper based 3-8 tests, and computer adaptive work for the high school tests. The state pays for the scoring of these tests, at .06 per test. Until the recent budget crisis, the

cost to score was higher, as Missouri's assessments were not limited to multiple-choice questions as they are now. Previous assessments included constructed response questions where students wrote in short answers, as well as performance events where students wrote an essay or did multi-step problem solving, such as figuring the cost of a installing a chain link fence for a yard of a given dimension.

In addition, tests need ongoing revisions through the use of parallel questions, so the questions are not the same from year to year, but the knowledge and skill tested remains the same.

In recent years, this annual revision has been limited due to budget restraints. Constructed response items and performance events have been removed from the assessments. In addition, budget cuts have forced DESE to pay the cost of current year assessments out of the next year's funding.

In order to evaluate teachers based on student assessments, you must first have baseline achievement data on each student for that subject. Current growth models can only provide data for $4^{th} - 8^{th}$ grade students in math and communication arts, because there is no baseline data for third graders. High school courses each consist of distinct content and scores on one course cannot be considered a starting point for another with the possible exception of Algebra I and II.

Massachusetts began to use student growth measured by state assessments in teacher evaluations, and found current assessments only produced data for 17% of teachers. The language in 3 (g) would require annual assessments of pre-K to 8th grade students in every subject. High school courses would require pre-tests at the beginning of the course as well as end of course tests to measure student achievement growth in each course offering.

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The following list of courses was taken from the Missouri School Improvement Program 4 Resource Standards, found at <u>www.dese.mo.gov</u>.

	Elementary Courses	Middle School Courses
1	Math by grade	Math by grade
2	Reading by grade	Reading by grade
3	Language Arts by grade	Language Arts by grade
4	Social Studies/History by grade	Social Studies/History by grade
5	Science by grade	Science by grade
6	Music by grade	Vocal Music
7	Art by grade	Instrumental Music
8	Physical Education by grade	Art
9	Foreign Language by grade	Physical Education by grade
10	Health by grade	Health
11	Career Awareness by grade	Foreign Language
12	Instrumental Music I and II	Speech
13	Library Skills by grade	Algebra 1
14		Agriculture
15		Family and Consumer Science
16		Industrial Technology
17		Computer Literacy
18		Career Education

Table 1 School Improvement Courses

Middle school students are required to take the four core subjects, physical education, health, art and music. Some students will also have a stand-alone reading course. This totals nine subjects for one year. Seventh and eighth graders must in addition have access to four exploratory classes, bringing the total courses for them to 13. Some of these courses would only last for 6 weeks, others may last a semester.

High school courses would require a pre-test and an end-of-course test for each subject offered. Jefferson City High School offers 236 unique courses. That would require the development and administration of 472 tests, only 8 of which are currently available.

Development Costs:

Table 2 illustrates the costs associated with developing new testing regimes from previous

RFPs on Smarter Balanced Assessment Consortium website.

Table 2: RFP for Smarter Bala PROJECT	DETAILS	BID COST Estimate
SBAC RFP No. 14	SBAC Pilot	\$19,000,000
	Item/Task/Stimulus	
	Research Development and	
	Reviews	
SBAC RFP No. 07	Item Authoring and Item	\$1,988,000
	Pool Application	
SBAC RFP No. 09	Test Blueprint and	\$1,457,721
	Computer Adaptive Test	
	Specifications	
SBAC RFP No. 08 1-2012 to	Participation and Training	\$739,392
10-2013	Materials	
SBAC RFP No. 05	Psychometric Services	\$3,500,000
SBAC RFP No. 06	Development of	\$930,000
	Accessibility and	
	Accommodations Policies	
	and Materials	
SBAC RFP No. 04	SMARTER Balanced	\$1,500,000
	Assessment Consortium	
	Request for Proposals to	
	Develop Item and Task	
	Specifications, Style Guide,	
	Bias and Sensitivity	
	Guidelines, and	
	Accessibility and	
	Accommodations	
	Guidelines	
SBAC RFP No. 03	SMARTER Balanced	\$2,000,000
	Assessment Consortium II	
	Systems Architecture	
	(word)	
SBAC RFP No. 02	IT Readiness Tool for SBAC	\$500,000 (2011-14)
	and PARCC (word)	
SBAC RFP No. 01	Smarter Balanced	\$2.2 million (2011-14
	Assessment	
	Communications RFP	

Table 2: RFP for Smarter Balanced Assessment

RFP 2010-07 (SBAC RFP)	Comprehensive Assessment Systems Grant – Project Management Partner	Not included
Total for Math and CA		\$33,815,113 for 14 tests
Cost per test to develop		<u>\$2,415,365</u>
Total FY 2013 Cost for 481 new tests		\$1,161,790,565

Administration Costs:

Administering assessments for pre-K through 2nd grade students is significantly more costly for school districts, as much of this testing must be administered one-on-one. This means the district hires a substitute for the several days it takes the classroom teacher to complete individual student assessments.

Cost to districts: Cost estimates are based on current charge districts for MAP tests, and testing every student in every subject.

Table 3: Average cost of MAP testing to districts from state

Grade	Total students	Cost per test	Statewide total one subject	Number of subjects	Statewide total
Pre-K	29,141 (2011)	\$.90 est.	\$26,227	6	\$157,362
К	66,000	\$.90 est.	\$59,400	9	\$534,600
1	66,000	\$.90 est.	\$59,400	9	\$534,600
2	66,000	\$.90 est.	\$59,400	9	\$534,600
3	66,000	\$0.90	\$59,400	9	\$534,600
4	66,000	\$0.90	\$59,400	9	\$534,600
5	66,000	\$0.90	\$59,400	9	\$534,600
6	66,000	Free for math and CA	\$59,400 for additional subjects	9	\$534,600
7	66,000	\$0.90	\$59,400	13	\$772,200

8	66,000	\$1.80	\$118,800	13	\$1,544,400
TOTAL # of su	bject tests that	95	\$6,216,162		
Current polici grade level.	es only require	tests in the K-8	12	\$712,800	
		dministrations for K-8 gr ts and reoccurring FY 20	83 new tests	\$5,503,362	

On average, Missouri high school students take seven classes a day, one to four of which

are semester courses. Older students take more semester courses.

Grade	Students	Cost per test	Statewide one test	Number of subjects	Statewide total
9	66,000	\$.90	\$59,400	8 x 2 tests	\$950,400
10	66,000	\$.90	\$59,400	8 x 2 tests	\$950,400
11	66,000	\$.90	\$59,400	9 x 2 tests	\$1,069,200
12	66,000	\$.90	\$59,400	9 x 2 tests	\$1,069,200
Total	aw.	\$4,039,200			
Current total: S		\$178,200			
test in current s					
Total new cost					<u>\$3,861,000</u>

Table 4: Average Cost per Test Applied to New Subject Areas (Statewide)

State expenditures on MAP and EOC tests in FY 2012 are 10.5 million, covering 22 tests: 3rd to 8th grade math, 3rd to 8th grade communication arts, 5th and 8th grade science, and eight high school end-of-course tests. This averages to \$477,273 per test.

Total new assessments 545	\$477,273	\$260,113,785		
school)				
236 x 2 (one large high	\$477,273	\$225,272,856		
95 (pre-K to 8 th grade)	\$477,273	\$45,340,935		
22 current	\$477,273 currently	\$10.5 million		
Number of assessments	Cost per assessment Total cost to state			
Table 5: Cost of Expanded State Expenditures of MAP and EOC tests doing 11 2012 costs				

Table 5: Cost of Expanded State Expenditures on MAP and EOC tests using FY 2012 costs

Teacher Evaluation Assumptions and Data:

In developing the cost estimates contained, we relied on the experiences other states have had in creating a similar evaluation model prescribed in the proposed amendment. Specifically, the removal of teacher experience as part of compensation 3(f) and the development of new evaluation systems for educators on the district level (3g):

3(f) Notwithstanding any provisions of this constitution, no school district which uses seniority or duration of employment as a basis, in whole or in part, to retain, remove, promote or demote teachers shall receive any state funding or local tax revenue.

3(g) Notwithstanding any other section of this constitution, every school district shall develop and use local performance standards to retain, remove, promote, demote, and set compensation for teachers in such school district, the majority of such standards shall be based on quantifiable student performance data as measured by objective criteria.

While our analysis will cite information from multiple states - the recent experience of Colorado in developing a remarkably similar system of teacher evaluation and estimating

the implementation costs serves as a good exemplar of what Missouri policy makers and budget analysts should expect as they are required to implement sweeping changes to teacher evaluation and compensation. Additionally CO and MO have similarly sized public education systems – and when ranked nationally are very close in size and scope (See table 6 below).

	Missouri	National Rank (MO)	Colorado	National Rank (CO)
Average Daily Attendance (2010)	835,780	19	771,938	21
Number of Public High School Graduates '09-'10	62,342	20	46,811	22
Number of Public School Teachers K-12	67,882	14	48,960	23

Table 6: Similarities in the size of public education systems in MO and CO*

*NEA Research. (2010). <u>Rankings & Estimates Rankings of the States 2010 and Estimates of School Statistics 2011</u>. <u>http://www.nea.org/assets/docs/HE/NEA_Rankings_and_Estimates010711.pdf</u>

Salary data used in this analysis will assume average pay for a Missouri teacher plus 34% to included benefits and other employer obligations. The current average salary for a Missouri teacher is \$45,317 or 48th in the nation and 81.5% of the national average.

The Colorado Experience:

In May of 2010, Colorado passed Senate Bill 191 which completely changed how publicschool educators were evaluated in Colorado. <u>At the core of the proposal were two policy</u> <u>objectives similar to those in 3(f) and 3(g)</u> of the current proposal: 1) the removal of duration of employment as a basis of evaluation in whole or in part and 2) replaced with a model where quantifiable student growth/achievement represents at least 50% of the total performance by quantifiable and objective standards. Table 7 places the proposals for quantifiable measurement side-by-side for comparison:

	Ellinger Missouri Proposal	Senate Bill 191 Colorado
Side-by-side comparison of measurement standards from MO and CO	"3(g) Notwithstanding any other section of this constitution, every school district shall develop and use local performance standards to retain, remove, promote, demote, and set compensation for teachers in such school district, the majority of such standards shall be based on quantifiable student performance data as measured by objective criteria. "	"Procedures for prioritizing or weighting measures of performance that ensure that measures of student growth represent at least 50 percent of total performance and are prioritized by technical quality, and that measures of professional practice are prioritized by local objectives."
Source	*Ellinger Submission. (January 17, 2012). Pg 3	* Colorado State Board of Education. Report & recommendations; submitted to the Colorado State Board of Education pursuant to SB 10- 191. (April 13, 2011). Pg 18 Available online: http://www.cde.state.co.us/EducatorEffectiven ess/downloads/Report%20&%20appendices/SC EE_Final_Report.pdf

Table 7: Comparison of Measurement Standard of Ellinger Proposal v. SB 191 Colorado

We believe the process of estimating costs to local school districts used by the Colorado State Board of Education will shed light on the Ellinger proposal and permit an estimate of the fiscal impact to school districts in Missouri.

Translating the Colorado Experience to Missouri:

In preparation for the transition to the proposed evaluation system for teachers, the Colorado State Board of Education spent over a year building consensus with education stakeholders about how the evaluation system would develop and preparing districts for its implementation – part of that process was a thorough analysis by the state to develop a teacher evaluation system school districts could use as a template and for preparing administrators for the transition. None of which is guaranteed by the Ellinger proposal to occur – however for purpose of analysis we will assume the following role for the state:

- Create an exemplar template and evaluation system with a resource bank of evaluation tools.
- 2) Provide student, teacher, and parent survey instruments and analysis of results to districts.
- Provide a definition of what constitutes a qualified educator for every subject area and grade level.
- 4) Develop materials to support professional development.
- 5) Collect and report evaluation data for the state.

NOTE: None of this is guaranteed or funded under the Ellinger proposal – nor do we attempt in this analysis to associate costs – but it is worth noting that the state would likely need to develop a whole host of example evaluation tools that districts could adopt and such development is likely to be a costly process.

In addition to the items above the state will likely have to develop and provide:

- Assessment tools from the state need to be available to districts in all subjects, at no cost, and resulting data must be reliable and valid. Districts will recognize that they are allowed to create their own unique assessments, but districts will likely want to use defensible research-based measures provided by the state given the implications the data can have on educators and students.
- 2) A valid individual teacher and student tracking system needs to be developed and in place provided by the state. Much of the ability for districts to evaluate teacher performance based on at least "50% quantifiable data" will rely on the ability to correctly identify the teacher of record for each student in each subject area and assign attributable changes in performance to the appropriate teacher.

Startup Costs:

Certain initial costs are likely to be required at the district level prior to the implementation of the new evaluation system. We assume the burden for implementing the state mandates would fall to **individual school districts**. For example, districts would have to spend time selecting evaluation tools and measurements from the state templates, set up first time data systems, develop an appeals process, and provide comprehensive training for evaluators and educators. Colorado estimates the effort needed to accomplish these tasks is as follows:

	Selecting Evaluation Tools and Measurements	One time Data Set Up	Developing Appeals Process	Professional Development for all Staff	Professional Development for Evaluators
District Personnel*					
Superintendent				2 days	30 hours
Assistant Superintendent					30 hours
Director		5 days			30 hours
Trainer				3 days	60 hours
Clerical Staff					
IT Technician		5 days			
School Personnel*					
feachers	5% of all teachers, \$100 a day for 5 days			2 days for every teacher	
Committee Teacher Leader	1% of all teachers, \$200 a day for 5 days				
Instructional Goach				2 days for every coach	
Principal				2 days for every principal	30 hours for every principal
District/School Costs*					
Legal			\$10,000		

Table 8: One Time Costs for each district:

Augenblick, Paslaich, and Associates INC. Costing Out the Resources Implications of SB 10-191 in Coloraodo School Districts: Prepared for State Council for Educator Effectiveness. March 2011. Pg 35

Augenblick, Paslaich, and Associates and the Colorado State Board of Education estimate that the initial one-time costs on average are \$53 per student. Given the comparability of Missouri and Colorado (see table 1) we believe that this estimate is applicable to our school system and may be conservative given Missouri has a full 350 more school districts then CO.

Ongoing Costs:

For ongoing costs the computation of new expenses that are above and beyond the current requirement set out by regulation or Missouri statute are considered in this section. As such what follows in this section are:

- 1) Likely tools and measures to be used;
- 2) The new effort and resources needed; and
- The ongoing cost for three categories of teachers, (novice, effective, and ineffective).

When considering such a broad and sweeping change of the Missouri education system the usual disclaimers apply – 1) we are anticipating standards based on our experience with DESE and local school boards – nothing in this document should be viewed as an endorsement of any system of evaluation, 2) additionally our estimations are based on an average school district in an average resource environment, and 3) the cost estimate only the amount to evaluate teachers (not administrators or any other group).

Evaluating Teachers:

To evaluate teachers numerous measurers and tools will need to be developed as well as the standards for apply those tools (including but not limited to):

- Observation with pre/post interview
- Examination of lessons, unit plans, assignments and assessments
- Student and Parent feedback

- Peer observation and feedback.
- Teacher self review and interviews
- Analysis of student data and growth.

While these tools can be used with teachers at all levels of experience and ability – allotments must be made for more time and effort to be spent with teachers based on their experience (or lack thereof) and abilities.

The consulting firm of Augenblick, Paslaich, and Associates concluded that teachers are likely to fall into one of the three categories below and require a differing amount of ongoing supervision and evaluation costs. (SEE APPENDIX A - TABLES I-III for breakdown of evaluation and resources for each population of teachers).

Performance Standard	Per Teacher
Novice*	\$343 (increased training and data analysis)
Effective	\$531 (increased data analysis and frequency of evaluation)
Need Improvement	\$3,783 (increased number of teachers identified that require supervision and remediation)

*Boulder Valley School District. SB 191 and you. April 2011

Fiscal Impacts of 3(f) and 3(g) implementation of proposed evaluation model:

Fiscal Year 2013 – 1st year of implementation: Assumes average costs of \$53 per student and an even Missouri Public School Population of 903,423 students.

Fiscal Year $2014 - 1^{st}$ year of evaluation. Assumes A novice teacher has less than 3 years experience (approximately 14.5% of 67,882) and assumes that only .5% of 62,342 need improvement (See Table 9 for overall costs).

FY 2013		\$ Estimate
Startup Cost assume	One time Cost Student K-12	903,423 x \$53 =
average of \$53 per student	Population of Missouri	\$47,881,419
(Pg 9)	903,423 (2010)	
FY 2014	First Round of Evaluation:	14.5% x 67,882 x \$343 =
	NOVICE evaluation costs	\$ 3,376,111
	\$343 *	
	First Round of Evaluation:	0.5% x 67,882 x \$3,783 =
	NEED IMPROVEMENT	\$12,839,880
	evaluation costs \$3,783	
	First Round of Evaluation:	80% x 67,882 x \$531 =
	Effective \$531	\$28,836,274
Total Costs of evaluation	One Time Expenses Plus +	\$ 92,933,684
program to School Districts	First time evaluation	

Table 9: Estimated Cost to District for Evaluation

*The National Commission on Teaching and America's Future (NCTAF). Report of Teacher Age and Experience by State (2007-2008). Available via: http://nctaf.org/wp-content/uploads/2012/01/WebAgeandExpbyState07-08.pdf

Cost Summary:

Mr. Ellinger's proposal is a blunt instrument wielded with broad and far-reaching language. The proposed amendment imposes a requirement to evaluate students and teachers based on quantifiable data creating a chain of unintended consequences. The state and districts will have to develop a series of new tests for every subject from math and reading to home economics and wood shop. Tests used to evaluate student progress are expensive and scientifically rigorous instruments that must bear heavy scrutiny from a number of stakeholders. Should the state and school districts be mandated, the costs quickly explode. Table 10 below summarizes our estimate of costs in the next two fiscal years.

Table 10 Costs FY2013-2014

FY2013 (First Year)

State:

FY 2013 (First Year Costs)		\$ Estimate
Test Development all subjects	Based on Previous RFP's	\$1,161,790,565
and all grades:	Smarter Balanced	
	Assessment (See Table 2)	
FY 2013		\$ Estimate
Startup Cost assume average of	One time Cost Student K-12	903,423 x \$53 =
\$53 per student (Pg 9)	Population of Missouri	\$47,881,419
	903,423 (2010)	
	(See Table 9)	
FY 2013		\$ Estimate
Cost to State for 545 new	See table 5 State Costs for	\$260,113,785
assessments. (Reoccurring)	MAP / EOC Admin	
<u>Total</u>		<u>\$1,469,785,769</u>

School Districts:

FY 2013		\$ Estimate
Additional MAP Testing	Based on previous costs to	\$5,503,362 + \$3,861,000 =
(reoccurring)	districts (Table 3 +4)	\$9,364,362
FY 2013		\$ Estimate
Startup Cost assume average of	One time Cost Student K-12	903,423 x \$53 =

\$53 per student	Population of Missouri	\$47,881,419
	903,423 (2010)	
FY 2013		\$ Estimate
Teacher Evaluations First Round	See Table 9 sum of all	\$45,052,265
(Re-occurring expense)	evaluations	
Total		\$102,298,046

FY 2014 (Second Year)

State:

FY 2014		\$ Estimate
Cost to State for 545 new assessments. (Reoccurring)	See table 5 State Costs for MAP / EOC Admin	\$260,113,785
Total		<u>\$260,113,785</u>

School Districts:

FY 2014		\$ Estimate
Additional MAP Testing (reoccurring)	Based on previous costs to districts (Table 3 +4)	\$5,503,362 + \$3,861,000 = \$9,364,362
FY 2014		\$ Estimate
Teacher Evaluations Re-occurring	See Table 9 sum of all	\$45,052,265
expense	evaluations	
<u>Total</u>		<u>\$54,416,627</u>

Total Costs State And Districts FY 2013 = \$ 1,572,083,815

Total Costs State And Districts FY 2014 = \$ 314,530,412

APPENDIX A

NEW RESOURCES NEEDED BY TEACHER BASED ON DESIGNATION

TABLES PREPARED BY:

Augenblick, Paslaich, and Associates March 2011

				TABLEI					
		New Resources	s Needed to Ev	aluate an Ef	fective Te	acher Each Year			
			Evalu	ation (Form	al and In	formal)			
			Sta	ridards I V			Standards VI		Reporting/
	Training on Evaluation System/Tools	Observations, Pre/Post Interviews	Examination of Artifacts	Student Surveys	Parent Surveys	Peer Observation/ Collaboration	Student Growth Assessments	Rating, Review of Results	Reviewing Evaluation Results
District Personnel									
Administrator									Lhr
Clerical Staff								0.5 hr	i hr
School Personnel									
Teachers									
instructional Goach									
Principal		and the second		and the state	7.5 h	5			
Data Manager							3 hrs		
Substitute						1 day at \$100			
District/School Costs								annan haft mereken	
Supplies and Materials									
Other			-1	Cost at Sta	ate Level				
Note: For resources highli	ghted in green on	l ly two thirds of t	he cost of that	resource is	new				

	Training on Evaluation System/Tools	Evaluation (Formal and Informal)							
			Sta	Standards VI		Reporting/			
		Observations, Pre/Post Interviews	Examination of Artifacts	Student Surveys	Parent Surveys	Peer Observation/ Collaboration	Student Growth Assessments	Rating, Review of Results	Reviewing Evaluation Results
District Personnel									
Administrator									1.5 hr
Clarical Staff								0.5 hr	1 hr
School Personnel		-							
Teachers	.25 day								
Instructional Coach	.05 day*								
Principal	.05 day*								
Data Manager							3 hrs		
Substitute									
District/School Costs									
Supplies and Materials	\$5								
Other				Cost at 5t	ate Level				

	Training on Evaluation System/Tools									
		Standards FV Standard					Standards VI	1		Reporting/
		Observations, Pre/Post Interviews	Damination of Artifacts	Student Surveys	Parent Surveys	Peer Observation/ Collaboration	Student Growth Assessments	Instructional Improvement	Review of Results/ Rating	Reviewing Evaluation Results
District Perspanel										
Administrator	-									2
Clerical Staff									0.5 hr	1 hr
School Personnel										
Teachers										
Instructional Coach								43 hours		
Principal						30 hrs				
Data Manager							3 hrs			
Substitute						1 day at \$100				
District/School Costs					-					
Course/Workshop Fac								\$500		
Supplies and Materials										
Other				Cost at Sta	ate Level			1		

The State Auditor's office did not receive a response from the Attorney General's office, the Department of Public Safety, the Department of Transportation, the Missouri Senate, Cass County, Jackson County Legislators, St. Louis County, the City of Cape Girardeau, the City of Kirksville, the City of Springfield, Metropolitan Community College, University of Missouri, St. Louis Community College, University of Missouri, St. Louis Community College, University, Missouri State University, Missouri State University, Southeast Missouri State University, and Truman State University.

Fiscal Note Summary

Estimated costs for state and local governmental entities are unknown, but the initial and annual costs could be significant (millions of dollars) depending on decisions made at the state and local level to comply with required provisions in this proposal.