Project #	Agency	Project Title
13-01	Department of Education	Nebraska eLearning Project

SUMMARY OF REQUEST (Executive Summary from the Proposal)

[Full text of all proposals are posted at: http://nitc.nebraska.gov/commission/project_proposals/2015-2017.html]

The Nebraska eLearning Project would center on the creation and procurement of high quality electronic learning objects for distribution to PreK-12 public schools at no cost to schools, in support of the statewide BlendEd Initiative, the NITC committee's digital education goals and as an enhancement to the Data Dashboard currently being developed by NDE, while providing an indepth, hands-on professional development process for Nebraska teachers, pre-service teachers and content specific undergraduate students.

FUNDING SUMMARY

	E-FII B-i		D	D	, D		
	Estimated Prior	Request for	Request for	Request for	Request for	Future	Total
	Expended	FY2016 (Year 1)	FY2017 (Year 2)	FY2018 (Year 3)	FY2019 (Year 4)	rataro	
Personnel Costs		\$ 88,000.00	\$ 90,000.00	\$ 92,000.00	\$ 94,000.00		\$ 364,000.00
2. Contractual Services							
2.1 Design							\$ -
2.2 Programming							\$ -
2.3 Project Management							\$ -
2.4 Other							\$ -
Supplies and Materials							\$ -
4. Telecommunications							\$ -
5. Training							\$ -
6. Travel							\$ -
7. Other Operating Costs		\$ 2,500,000.00	\$ 2,500,000.00	\$ 2,500,000.00	\$ 2,500,000.00		\$ 10,000,000.00
Capital Expenditures							
8.1 Hardware							\$ -
8.2 Software							\$ -
8.3 Network							\$ -
8.4 Other							\$ -
TOTAL COSTS	\$ -	\$ 2,588,000.00	\$ 2,590,000.00	\$ 2,592,000.00	\$ 2,594,000.00	\$ -	\$ 10,364,000.00
General Funds		\$ 2,607,000.00	\$ 2,607,000.00	\$ 2,607,000.00	\$ 2,607,000.00		\$ 10,428,000.00
Cash Funds							\$ -
Federal Funds							\$ -
Revolving Funds							\$ -
Other Funds							\$ -
TOTAL FUNDS	\$ -	\$ 2,607,000.00	\$ 2,607,000.00	\$ 2,607,000.00	\$ 2,607,000.00	\$ -	\$ 10,428,000.00

PROJECT SCORE

Section	Reviewer 1	Reviewer 2	Reviewer 3	Mean	Maximum Possible
Goals, Objectives, and Projected Outcomes	9	12	7	9	15
Project Justification / Business Case	15	17	18	17	25
Technical Impact	5	14	2	7	20
Preliminary Plan for Implementation	5	7	6	6	10
Risk Assessment	5	7	6	6	10
Financial Analysis and Budget	10	14	13	12	20
	-		TOTAL	57	100

REVIEWER COMMENTS

Section	Strengths	Weaknesses
Goals, Objectives,	- The project overview provides some specific	- The evaluation plan is sketchy beyond the
and Projected	and, ultimately, measurable goals in the form of	specific deliverables and some mention of working
Outcomes	project deliverables. The project outcomes are	with Brightbytes. Goals, partners and measures of
	desirable within the larger context of what is	success are loosely correlated without necessary
	needed to assist K12 schools moving forward with	specifics to tie them together.
	a digital conversion.	 Cost Savings not specified. Can IRR/ROI be
	- Vision: State-wide LOR System with Open	determined?
	Content with content that supports NE Ed needs.	- Metrics are provided, but vague. What does
	- Goals are laudable, but I question the need for	successful mean? Better metrics might be LOR

Section	Strengths	Weaknesses
	yet another LOR just to have one special for Nebraska. Many LORs are already started, could we not work with someone who has begun this work already?	has X number of learning objects available for faculty use in year 1, Y number in year 2, etc.
Project Justification / Business Case	- Components of the project are consistent with desired outcomes and stated project goals. Components of the project do provide an indication of the process for development, implementation/adoption, and technical integration. - Content creation teams config for K-6 projects and Fellowship program - Adoption of OER, training for faculty in OER acquisition and development and contributing back to the OER community is a wonderful set of goals.	The specifics associated with each component do not provide insight into the scalability, feasibility or sustainability of the project. There are clearly tangible benefits, however, there is much less clarity as to whether those benefits can be achieved. Plan is lacking sufficient detail. Administrative and LOR system support? Size and configuration of physical space multi-media production and editing resources (equipment and support) for content teams? Development of Fellows? Consider a competitive pool for advanced content creation to address K7-12 needs. No evidence was provided that existing LOR efforts in other states (or for that matter, in higher ed) could be partnered with to facilitate a broader content pool and lower cost. Why must we build our own?
Technical Impact	- High quality digital learning content that is highly accessible, standardized and packaged in a modular format conducive to inclusion and presentation via learning management platforms is desirable Vision of centralized LOR.	- Beyond mention of the support for a number of current projects, the balance of this section was cast in the context of cost savings/cost avoidance. The assertion that a LOR with high quality content will reduce the need for districts to purchase student devices is utterly groundless and nearly senseless. It will, in all likelihood, have just the opposite effect. As a device becomes a necessary condition for the delivery of instructional content the assertion that a device is to digital content what a backpack is to books, demonstrates reckless disregard for the technical realities of delivering digital content to 100s of thousands of learners across the state. - BYOD has its own set of challenges and cost implications that need to be addressed. Age and quality of devices and components. Technical support (operating systems, drivers, software versions) compliance, security implications. Is the infrastructure ready for additional devices? Content standards and tools should be included to ensure a uniform experience for users. - No technical implementation details were provided. While claims are made that this will reduce costs, no data is provided to indicate what current costs are.
Preliminary Plan for Implementation	A timeline is provided with some indication of scope and sequence. While the details of the implementation plan are weak, the overall timeline appears to be reasonable.	There is very little in the way of specific outcomes and the impact they might have on student achievement and teacher effectiveness. There is a ton of work being done in this area already nationally, but little evidence in implementation of a market survey or other means of determining best practice/potential partnerships, other than a tacit mention of "establishing needed partnerships". Demarcation of roles is not clearly spelled out.
Risk Assessment	- The author outlines the foreseeable risks including solution fragmentation resulting from an inability to achieve stakeholder consensus, and the potential of budget overrun based on improperly scoping the project or having to over promise in an attempt to achieve sufficient adoption velocity to keep the project moving forward.	No specific mitigation strategy beyond the hope that a dedicated eLearning Project director can sprinkle sufficient magic dust to build and maintain a partnership coalition. What happens to project funding if State-wide LOR cannot be agreed upon? Can LOR selection and agreement be contingent upon and completed prior to project start? What is the risk

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Section	Strengths	Weaknesses
		for low quantity, low quality or relevant content? How will this be mitigated? - One significant risk not identified is reluctance of faculty to move to OER from commercial sources.
Financial Analysis and Budget	- Project proposal, in total, does provide a breakdown of anticipated costs.	- The costs, as indicated in the attached summary document, show that less than 7% will be spent on content, whereas, nearly 20% will be spent on creation/curation. Moreover, the single largest expenditure constituting nearly 35% of the total is for data dashboard integration leading the reviewer to conclude this is miscast as a content/LOR project when, in actuality, it is much more about the data dashboard. - Can cost savings projections for state-wide LOR be provided? Can an IRR/ROI be established for the project?

TECHNICAL PANEL COMMENTS

Technical Panel Checklist				Comments
recillical Fallet Checklist	Yes	No Unknown		Comments
1. Is the project technically feasible?	✓			
2. Is the proposed technology appropriate for the project?			✓	- The specific, agreed upon, technology to be utilized for this project is unknown at this time.
Can the technical elements be accomplished within the proposed timeframe and budget?			✓	

Project Proposal - Summary Sheet 2015-2017 Biennial Budget

Project #13-01 Page 4 of 4

APPENDIX: AGENCY RESPONSE TO REVIEWER COMMENTS

The following clarifications are being submitted in response to the comments generated during the NITC review process for the Nebraska eLeaning project.

- 1. Project status: Based on several of the comments concerning budget provided and detail it is important to note that what was presented to the NITC committee is a concept with three clear project tiers or goals only at this point. The remaining details are simply the best guess of the departments, if this project were to be funded, the department would work very closely with partners from ESU's, K-12, Higher Ed and State Agencies to fully develop and implement that project. At that time clearer and more detailed budgets and risk assessments can be developed and provided to the NITC committee.
- 2. **Learning Object Repository:** For the success of this project NDE feels that it is imperative that Nebraska have a true state wide LOR instance which allows all students and staff to access the very same content. Currently the ESU's have worked diligently to implement a LOR system across the state but it is currently limited based on storage size, state level content would have to be approved by regional administrators which would not guarantee all students and staff access to all content. It is the goal of this project to provide funding for the expansion, or adoption of a single state LOR system that is supported by k-12, and ESU's. NDE feels that the decision for the correct LOR adoption is best left to a committee of stakeholders made up of K-12, ESU, NDE, and Higher Ed representatives. This may be an expansion of current LOR systems, an adoption of a National LOR system or a highbred of the two. NDE also feels that it is important that this money be used to help establish the LOR chosen by the committee as a service on Network Nebraska that can then become sustainable by participants fees versus continued state funding.
- 3. **Content creation:** It is the intention of this project that content would be created for all levels of education from prek to 20 representing all subject areas. The funding for the content creation or procurement would, as currently envisioned, increase as other project goals were successfully implemented.
- 4. **Dashboard integration:** This project is about a complete content system for schools from the creation of the content, the storage of the content and finally the access of the content. The dashboard component is an essential piece of the over all success of this project and for value to Nebraska schools. As currently envisioned this portion of the project will take substantial funding for the second, third and possibly fourth year, this money will help establish any support systems and programming required to connect the ed-fi based dashboard currently being developed for student achievement monitoring to the state LOR and school LMS. If developed correctly this would let teachers see where their students are struggling with learning based on Nebraska Standards and from the Dashboard they would find learning objects or content that addresses the students needs and assign the content to the student for relearning. While this is the over riding goal it will take a committee to clearly define the details and to clarify budget and timeline for the dashboard integration. Once this goal has been achieved the money would be reassigned for additional content creation of procurement. The dashboard would again be something we envision as possibly being a service of Network Nebraska.

Project Proposal - Summary Sheet 2015-2017 Biennial Budget

Project #13-02 Page 1 of 11

Project #	Agency	Project Title
13-02	Department of Education	Education Data Systems Capacity Building

SUMMARY OF REQUEST (Executive Summary from the Proposal)

[Full text of all proposals are posted at: http://nitc.nebraska.gov/commission/project_proposals/2015-2017.html]

The recent Nebraska Education Data Systems study, in response to Legislative Resolution 264, found that Nebraska spends an estimated \$100 million annually for technology systems, software systems, and accountability data submissions by the public school districts and the Nebraska Department of Education (NDE). The systems and applications are largely focused on satisfying Federal and State accountability reporting requirements and do not directly contribute to supporting teaching and learning. The districts submit annual collections of data to support accountability to the state using a combination of automated and manual methods. An estimated 655,200 hours are spent by districts preparing the required collections for each year's accountability data submission.

Each district has selected its own set of administrative, teaching and learning, and back office applications and there is a large disparity in the number of applications available in small districts versus larger districts due to budget, staff, and capacity. Outside of Nebraska's largest districts, the digital tools are poorly integrated, there is little support for data-driven decision-making, and modern tools are not available to support instructional improvement necessary for the state's education initiatives of blended learning, teacher and principal evaluation, career readiness, and continuous school improvement.

Nebraska's network of Educational Service Units (ESUs), the ESU Coordinating Council (ESUCC), and Network Nebraska are all contributing to improving the capabilities and the efficiencies of the data systems for the districts. However, the coordination, support, and access for systems can be dramatically improved and serves as the basis for this multi-faceted approach to develop a statewide data system that builds long-term capacity, efficacy, and efficiency for the system of education. The study established 10 recommendations that included five work streams; leverage work conducted using the federal \$4.3 million SLDS grant scheduled to end June 2015.

The proposed implementation roadmap for the Nebraska Education Data System estimates a three-year investment of \$41,960,110, roughly evenly split across the three years. The rollout plan targets a phase in process over three years that could include 50 districts the first year, 150 the second year, and 245 during the third year resulting in cost savings and efficiencies that will also provide a financial return from substantially-reduced accountability costs and from reduced technology costs to districts. The projected cumulative net return for the investment over five years is \$44.8 million. However, the primary benefits from the recommended investments will come from a greatly improved instructional system that improves student performance leading to greater student success.

FUNDING SUMMARY

[Next page]

			nent of Education Infrastructure Activities			
		Year 0 FY 2015	Blennium Budget Request	Year 1 FY 2016	Year 2 PY 2017 SY 2016-2017	Year 3 FY 2018
		SY 2014-2015 9 Districts		57 2015-2016 50 Districts	5Y 2016-2017 150 Districts	
1	Nebraska Education Infrastructure		Activities and Objectives			
		Pilot initial SIS vendor Ed-Fi interfaces Pilot assessment vendor interfaces	Identify and collectively procure state-sponsored SIS(s) Support SIS Vendor Ed-Fi Interfaces	\$ 166,667	\$ 166,667	\$ 166,60
	NDE will leverage the Ed-FI	Prior assessment version interfaces	Support assessment vendor Ed-FI Interfaces	166,667		166,60
	infrastructure to connect source		Other source system interfaces to Ed-FI (HR, SRS, applications)	250,000		250,00
	systems and drive down costs.		Support transfer to state supported systems in years 2 and 3 Develop identity management solution for statewide single sign-on	166,667		166,66
			ESUCC Infrastructure	500,000		500,00
			Infrastructure scaling and security audit activities	250,000	250,000	250,00
			Total Contractual Expenditures New Positions	1,600,000	1,600,000	1,600,00
			Chief of Staff	60,523	60,523	60,5
			Chief Technology Officer	68,502		68,50
			Lead Senior	60,523 55,047		60,5 55,0
			Analyst	50,099		50,0
			Analyst	50,099	50,099	50,0
			Total Salary Expenditures Benefits Expenditures	344,793 165,264		344,7 165,2
			Operating Expenditures	23,805		23,0
			Travel Expenditures	10,395		10,3
			Equipment Expenditures	60,360		
			Nebraska Education Infrastructure Total	\$ 2,204,617	\$ 2,144,257	\$ 2,144,2
2	NDE Data Collection System	Assessmentallity Dilate Interests CDC Dalli MEETE	Objectives	£ 500.000	t 500 000	£ 500.0
	NDE will reduce the burden of	reaction attention of more integrate CDC, scarr, NSSRS (Statewide rollout with dual submissions (rollout plan based on SIS vendor) Develop and validate state accountability reports	\$ 500,000 500,000	\$ 500,000	\$ 500,0
	accountability data submissions on		Develop business rules and validation for automatic accountability submissions	250,000	250,000	250,0
	districts through automated process		Develop and validate federal accountability report submissions	500,000		500,0
	leveraging the Ed-Fi infrastructure.		Develop district review and approval infrastructure Total Contractual Expenditures	250,000		250,0
			New Positions	2,000,000	2,000,000	- ALEXAND
			Director, Accountability Data Systems	68,502		68,5
			Program Specialist III	55,047	55,047	55,0
			Database Analyst Lead Database Analyst Senior	60,523 55,047		55,0
			Database Analyst Senior Database Analyst	50,099		50,0
			Database Analyst	50,099	50,099	50,0
			Total Salary Expenditures	339,317		339,3
			Benefits Expenditures Operating Expenditures	164,380 23,805		164,1
			Travel Expenditures	14,070		14,0
			Equipment Expenditures	37,680		
			NDE Accountability Data System Total	\$ 2,579,252	\$ 2,541,572	\$ 2,541,5
1	NDE Education Intelligence System		Objectives			
		Pillot SLDS Student-Level Dashboard	Dashboard statewide rollout	\$ 200,000		\$ 200,0
	1		Dashboard updates and extensions District data warehouses and reporting layer	333,333		333,2
			District data warehouse security layer (with and without de-identification)	250,000	250,000	250,0
			NDE data warehouse cubes and Bi layer	166,667	166,667	166,0
			Total Contractual Expenditures New Positions	1,450,000	1,450,000	1,450,0
	NDE will create education intelligence -		Chief Privacy Officer	79,873	79,873	79,0
	access to actionable insight - through a		Director, Data Research and Evaluation	68,502		68,5
	worehouse, business intelligence tools,		Database Analyst Lead	60,523		60,5
	and increased internal capacity.		Database Analyst Senior	55,047 50,099		55,0 50,0
			Database Analyst Database Analyst	50,099		50,0
	1		Total Salary Expenditures	364,143		
			Benefits Expenditures	168,387		168,3
-			Operating Expenditures Travel Expenditures	24,510 17,680		35,5
	1		Equipment Expenditures	60,360	-	
			NDE Education Intelligence System Total	\$ 2,085,080	\$ 2,015,720	\$ 2,035,
	Help Desk & Support					
٠	NDE, along with the ESUCC and ESU's,	Virtual Help Desk Pliot - Dashboards PD Curriculum	Expand help-desk support to include Year 1,2 & 3 systems Develop professional development curriculum on Year 1,2 & 3 systems	\$ 50,000 50,000	\$ 50,000	\$ 50,
	will provide technical support for	r b cumcuran	Integrate statewide ticketing system for "virtual help desk"			
	Nebraska education data systems			166,667	50,000	
			Level 4 Support and Contracts	166,667 500,000	50,000 166,667 500,000	166,0 500,0
	through a virtual help desk and		Total Contractual Expenditures	166,667	50,000 166,667 500,000	166,0 500,0
			Total Contractual Expenditures New Positions	166,667 500,000 766,667	50,000 166,667 500,000 766,667	166,6 500,6 766,6
	through a virtual help desk and		Total Contractual Expenditures New Positions Director, Project Management Office If Help Desk Specialist Senior	166,667 500,000	50,000 166,667 500,000 766,667	166,6 500,6 766,6
	through a virtual help desk and		Total Contractual Oppenditures New Positions Director, Project Management Office If Help Desk Specialist Senior If Help Desk Specialist If Help Desk Specialist	166, 667 500, 000 766, 667 68, 502 50, 099 41, 706	50,000 166,667 500,000 766,667 68,502 50,099 41,706	166,6 500,6 766,6 60,3 50,6 41,7
	through a virtual help desk and		Total Contractual Open olitures New Position Director, Project Management Office IT Helip Desk Specialist Senior IT Helip Desk Specialist IT Helip Desk Specialist IT Helip Desk Specialist	166,667 500,000 766,667 68,502 50,099 41,706 41,706	50,000 166,667 500,000 766,667 68,502 50,099 41,706 41,706	166,6 500,6 766,6 60,3 50,6 41,7 41,7
	through a virtual help desk and		Total Contractual Oppenditures New Position Director, Project Management Office IT Help Deak Specialist Senior IT Help Deak Specialist IT Help Deak Specialist IT Help Deak Specialist Project Manager	166,667 500,000 766,667 68,502 50,099 41,706 41,706 50,099	50,000 166,667 500,000 766,667 68,502 50,099 41,706 41,706 50,099	166, 500, 766, 68, 50, 41, 41,
	through a virtual help desk and		Total Contractual Open disures New Position Director, Project Management Office IT Help Desk Specialist Senior IT Help Desk Specialist IT Help Desk Specialist IT Help Desk Specialist Project Manager Project Manager Project Manager Project Manager	166,667 500,000 766,667 68,502 50,099 41,706 50,099 50,099	50,000 166,667 500,000 766,667 68,502 50,099 41,706 41,706 50,099 50,099	166,4 500,6 766,4 60,1 50,6 41,1 50,6 50,0 302,1
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	through a virtual help desk and		Total Contractual Open ditures New Position Director, Project Management Office IT Helip Dark Specialist Senior IT Helip Dark Specialist IT Helip Dark Specialist IT Helip Dark Specialist Project Manager Project Manager Project Manager Total Salary Open ditures Generits Dependitures Generits Dependitures Operating Dependitures	166,667 500,000 766,667 68,502 50,099 41,706 50,099 50,099 50,099 202,211 158,393 23,805	50,000 166,667 156,667 766,667 168,502 168,502 168,502 168,502 178,508 178,089 178,089 178,089 178,089 178,089 178,089 178,089 178,089 178,089 178,089 178,089 178,089 178,089 178,089 178,089	166, 500, 766, 68, 50, 41, 41, 50, 50, 302, 156, 26,
	through a virtual help desk and		Total Contractual Open ditures New Position Director, Project Management Office IT Help Desk Specialist Senior IT Help Desk Specialist IT Help Desk Specialist Project Manager Project Manager Project Manager Total Salary Expenditures Benefits Expenditures Operating Expenditures Operating Expenditures Operating Expenditures	166,667 500,000 766,667 68,502 50,099 41,706 41,706 50,099 50,099 302,211 158,393	50,000 166,667 500,000 766,667 60,502 60,502 61,706 61,706 61,706 61,706 60,009 50,009 50,009 50,009 50,009 50,009 50,009 50,009 50,009	166,4 500,6 766,4 68,5 50,6 41,7 50,6 50,6 302,7 156,7
	through a virtual help desk and		Total Contractual Open ditures New Position Director, Project Management Office IT Helip Dark Specialist Senior IT Helip Dark Specialist IT Helip Dark Specialist IT Helip Dark Specialist Project Manager Project Manager Project Manager Total Salary Open ditures Generits Dependitures Generits Dependitures Operating Dependitures	166,667 500,000 766,667 68,502 50,099 41,706 41,706 50,099 50,099 302,211 154,305 10,385 41,350	50,000 166,667 500,000 766,667 60,502 60,502 61,706 61,706 61,706 61,706 60,009 50,009 50,009 50,009 50,009 50,009 50,009 50,009 50,009	166,4 500,6 766,4 50,6 41,7 50,6 50,6 50,1 150,7 10,1
	through a virtual help desk and		Total Contractual Open disures New Position Director, Project Management Office IT Help Desk Specialist Senior IT Help Desk Specialist Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Total Salary Open disures Benefits Open disures Operating Open disures Towel Operating Open disures Equipment Open disures Equipment Open disures Help Desk & Support Total	166,667 500,000 766,667 66,502 66,502 64,706 41,706 50,099 50,099 302,211 150,399 10,385 43,350 5,3904,821	50,000 166,667 500,000 766,667 60,502 50,099 41,706 50,099 50,099 302,211 150,394 26,555 10,396	166,4 500,6 766,6 50,6 50,6 41,1 50,6 50,2 126,1 126,1 5 1,264,1
	through a virtual help desk and		Total Contractual Open disures New Position Director, Project Management Office IT Helip Dark Specialist Senior IT Helip Dark Specialist IT Helip Dark Specialist IT Helip Dark Specialist Project Manager Project Manager Project Manager Total Salary Open disures Generits Dependitures Operating Dependitures Travel Openditures Copyretting Dependitures Copyretting Dependitures Copyretting Dependitures Equipment Dependitures Equipment Dependitures	166,667 500,000 766,667 66,502 66,502 64,706 41,706 50,099 50,099 302,211 150,399 10,385 43,350 5,3904,821	50,000 166,667 500,000 766,667 60,502 50,099 41,706 41,706 50,099 50,099 150,394 150,394 10,255 10,396	166,4 500,6 766,6 50,6 50,6 41,1 50,6 50,2 126,1 126,1 5 1,264,1
	through a virtual help desk and		Total Contractual Open disures New Position Director, Project Management Office IT Help Desk Specialist IT Help Desk Specialist IT Help Desk Specialist IT Help Desk Specialist Project Manager Project Manager Project Manager Total Salary Expenditures Benefits Expenditures Operating Expenditures Coperating Expenditures Equipment Expenditures Equipment Expenditures Total Not CRE Capacity Building Objectives	166,667 500,000 766,667 66,502 66,502 64,706 41,706 50,099 50,099 302,211 150,399 10,385 43,350 5,3904,821	50,000 166,667 500,000 766,667 60,502 50,099 41,706 50,099 50,099 302,211 150,394 26,555 10,396	166,4 500,6 766,6 50,6 50,6 41,1 50,6 50,2 126,1 126,1 5 1,264,1
	through a virtual help desk and coordinated knowledge transfer. NE instructional improvement System	Identify key systems:	Total Contractual Open climars New Fostions Director, Project Management Office IT Help Desk Specialist Senior IT Help Desk Specialist IT Help Desk Specialist Project Manager Project Manager Project Manager Total Salery Expenditures Desertin Open Citures Operating Dependitures Coulement Expenditures Travel Spenditures Equipment Openditures Travel Spenditures Total Noti Desk & Support Total Total Noti DRE Capacity Building Objectives Identify And collectively procure state-sponsored systems	166,667 500,000 766,667 60,500 50,000 41,706 41,706 50,000 50,000 302,211 163,300 21,805 10,385 43,350 5 1,304,821 5 8,173,770	50,000 166,667 500,000 766,667 50,000 41,706 50,009 302,211 150,305 10,205 51,264,223 5 7,965,772	166, 166, 166, 166, 166, 166, 166, 166,
	through a virtual help desk and approximated knowledge transfer.	- learning management	Total Contractual Open disures New Position Director, Project Management Office IT Help Desk Specialist IT Help Desk Specialist IT Help Desk Specialist IT Help Desk Specialist Project Manager Project Manager Project Manager Total Salary Expenditures Benefits Expenditures Operating Expenditures Coperating Expenditures Equipment Expenditures Total Note Office Services Total Note Office Services Identify and collectively procure state-sponsored systems Lidentify and collectively procure state-sponsored systems Support vendors in Integrating with 550 and state data systems	166,667 500,000 766,667 66,502 66,502 61,502 61,706 41,706 50,000	50,000 50,000 76,667 50,000 60,507 50,000 41,706 50,000	166,1 500,1 766,6 68,1 50,1 41,1 50,1 50,1 158,1 26,1 110,1 5 1,264,1 5 7,985,1
	through a virtual help desk and coordinated knowledge transfer. NE instructional improvement System NDC will build the capacity of Nebraska educators to continuously improve the quality of instruction for students.	- learning management - blended learning - teacher/principal evaluation	Total Contractual Open disures New Position Director, Project Management Office IT Help Desk Specialist IT Help Desk Specialist IT Help Desk Specialist IT Help Desk Specialist Project Manager Project Manager Project Manager Total Salary Expenditures Benefits Expenditures Operating Expenditures Coperating Expenditures Total Value of Coperating Dependitures Coperating Expenditures Total NDE ORE Capacity Building Objectives Lidentify and collectively procure state-sponsored systems Support vendors in Integrating with SSO and state data system Provides Pot or districts	166,667 500,000 766,667 60,500 50,000 41,706 41,706 50,000 50,000 302,211 163,300 21,805 10,385 43,350 5 1,304,821 5 8,173,770	50,000 166,667 500,000 766,6502 50,000 41,706 50,000 300,211 153,384 5,786,223 5,786,772 5,186,667 5,186,667	166,4 500,0 766,0 50,0 41,1 41,50,0 50,0 150,1 26,5 150,1 5 1,264,5 5 7,985,1
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PROJECT SCORE

					Maximum
Section	Reviewer 1	Reviewer 2	Reviewer 3	Mean	Possible
Goals, Objectives, and Projected Outcomes	15	12	11	13	15
Project Justification / Business Case	20	18	24	21	25
Technical Impact	18	15	18	17	20
Preliminary Plan for Implementation	8	7	6	7	10
Risk Assessment	8	6	6	7	10
Financial Analysis and Budget	18	14	15	16	20
			TOTAL	80	100

REVIEWER COMMENTS

Section	Strengths	Weaknesses
Goals, Objectives, and Projected Outcomes	- Detailed plan that accounts for systemic change by increasing human, technical and fiscal resources. The proposal has clear goals, technically feasible deliverables and a rich set of milestones to gauge project progress. - Vision: State-wide access to timely, consistent and actionable business intelligence. Improved economies of scale by centralizing resources and standardizing systems and processes. - Goals are well defined	- The scope of the project is considerable requiring a great deal of communication and stakeholder involvement Did we consider vendor SAAS particularly as it relates to state sponsored SIS? Did we consider outsourcing Helpdesk Services to take advantage of the economies of scale? - Metrics for several of the goals (cost savings for example) are missing or poorly defined.
Project Justification / Business Case	- The proposal delineates three credible benefits including reduced accountability costs through standardization of data exchange, reduced technology costs through an enterprise approach to data warehousing/business intelligence and improved decision support through the equitable provision of data analytics to all school districts A grand idea with good architectural decisions. Open data standards to allow multiple vendors to play in the space, giving flexibility for schools to select solutions based on software scope or value add. Using collaborative purchase power to drive down costs.	The project deliverables are highly dependent upon a level of data standardization never achieved across the 100s of K12 school districts in Nebraska. It would be helpful to have more insight into how the investment return is calculated and where these funds are redirected too. If the resources remain in the districts working on other initiatives it should not be reported as a savings.
Technical Impact	The proposal constitutes a systemic consideration of data gathering, warehousing, analysis and reporting. Other states have implemented a similar model. Strong use of open data standards and the resulting implementation flexibility are major strengths of this project.	The greatest concern of the reviewer is achieving the operational success necessary to a leverage the functional capacity. Availability of experienced and quality staff to perform the key functions.
Preliminary Plan for Implementation	- The author provides a clear operational/functional roadmap while identifying key stakeholder partners.	The specific roles of stakeholder partners is vague and does not, in all cases, match their current capacities. Recruiting, developing and retaining key talent at established salary levels. There are a significant number of moving parts in this project and many of the critical milestones have external dependencies beyond the control of the project team. The project plan as proposed does make nominal attempts to plan around these risks, but the critical date issues could easily compound and place the project budget at significant risk by extending the implementation by a significant margin.
Risk Assessment	- Risks have been identified and key dependencies recognized.	- Dependencies associated with the work of stakeholder agencies cannot be fully mitigated

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Section	Strengths	Weaknesses
	- Risks are well identified.	within the context of the proposed project. This is less a failing of the proposed and more a recognition of the difficulties associated with interagency projects. - Hiring and Retaining Key talent. - The mitigation strategies for external risks (vendor responsiveness to implementation timelines) seem to be optimistic enough to put the project at significant risk.
Financial Analysis and Budget	Costs and overall budget is clearly defined. If all goes well, the budget seems very reasonable.	Proposed salaries for key personnel look very low and will make attracting qualified applicants difficult. Detailed Justification of Staffing levels and source for Compensation benchmarks. If the project is significantly delayed by external risks, additional funding could be required to extend the project timeline.

TECHNICAL PANEL COMMENTS

Technical Panel Checklist				Comments
Technical Panel Checklist	Yes	No	Unknown	Comments
1. Is the project technically feasible?	✓			
Is the proposed technology appropriate for the project?			✓	- The specific, agreed upon, technology to be utilized for this project is unknown at this time.
Can the technical elements be accomplished within the proposed timeframe and budget?			√	

APPENDIX: AGENCY RESPONSE TO REVIEWER COMMENTS

The following are responses provided by the Nebraska Department of Education to NITC Proposal 13-02.

The Nebraska Department of Education offers the following comments in response to NITC reviewer remarks for Proposal 13-02. As some of concerns raised by reviewers appear to be similar despite raised in different categories, we grouped those remarks in order to best respond in full. The thematically similar concerns we identified are:

- 1) NDE's ability to attract talent and build capacity for staff to meet project requirements
- 2) Need to clarify the return on investment calculation
- 3) NDE's and partners' ability to manage the project scope and deliverables

Where concerns appear to "stand-alone," we addressed them individually. It is our hope that the Agency response prepared here will unite the NITC reviewers in their assessment of the project as ambitious but appropriate. NDE is confident in its ability to execute on this plan through effective staff development and detailed project management. NDE will succeed and Nebraska students and education organizations will realize instructional, financial, and professional benefit.

Staffing/Personnel referenced in multiple sections

Weaknesses

- Proposed salaries for key personnel look very low and will make attracting qualified applicants difficult.
- Detailed Justification of Staffing levels and source for Compensation benchmarks.
- Availability of experienced and quality staff to perform the key functions.
- The greatest concern of the reviewer is achieving the operational success necessary to a leverage the functional capacity.
- Hiring and Retaining Key talent.
- Recruiting, developing and retaining key talent at established salary levels.

Agency Response:

The budgeting requirements establish the use of 33.3% of the pay grade range and reflect the current negotiated salaries for these positions. While it is true the competitive nature of the salaries is low, they are reality for state government at this time. There are still highly skilled staff available to fill the positions that are interested in supporting Nebraska Education in ways that systemically can make a difference.

The proposed implementation plan balances contractor time with NDE staff. To achieve the highest level of sustainability, contractors are fully engaged in building the initial infrastructure and on-going knowledge transfer with existing NDE staff. These staff have the benefit of institutional knowledge of the department and Nebraska education context, and are rapidly developing the skills needed to sustain a system of this scale.

Preliminary Plan for Implementation/ Risk Assessment

Weakness:

- There are a significant number of moving parts in this project and many of the critical milestones have external dependencies beyond the control of the project team. The project plan as proposed does make nominal attempts to plan around these risks, but the critical date issues could easily compound and place the project budget at significant risk by extending the implementation by a significant margin.
- Dependencies associated with the work of stakeholder agencies cannot be fully mitigated within the context of the proposed project. This is less a failing of the proposed and more a recognition of the difficulties associated with interagency projects.
- The mitigation strategies for external risks (vendor responsiveness to implementation timelines) seem to be optimistic enough to put the project at significant risk.
- If the project is significantly delayed by external risks, additional funding could be required to extend

Agency Response:

The nature of supporting a systemic change is unprecedented in Nebraska. The risks will naturally be present with a project that has a large scope. The project map and number of critical milestones are interdependent and identified in a manner that ensures coordinated teams approach the work streams with strategy and integrated well defined goals. The importance of a strong team, clear expectations and goals and building from the momentum of existing leverages projects through the use of federal resources all provide a unique opportunity to provide leadership for K12 education and the systems of support for the future. Data use and technology will not diminish in coming years and the time is right to a systemic and strategic approach moving forward.

The prototype of part of the system supporting through nine districts has been further catalyzed by another 37 districts interested in the Early Adopter Program (EAP). These districts will serve as partners in establishing the foundation, tools, resources, and experiences that will support the broader statewide rollout and implementation.

Finally, Nebraska is uniquely positioned to leverage the support and work of other states that have in place or are simultaneously leveraging development work together. The number of states involved in the Ed Fi Alliance has expanded to 24. This alliance of states working collaborative to share development strategies, code, and insights also is supported through a new Education CIO Network sponsored by the Council of Chief State Schools Officers. The Network was developed primarily because states are all facing similar issues with data standards, leveraging costs, reducing burdens on school districts, and ensuring privacy and security is addressed to the highest standards with student based data.

Goals, Objectives, and Projected Outcomes

Weakness:

- The scope of the project is considerable requiring a great deal of communication and stakeholder involvement.

Agency Response:

As concerns about the scope of the project were addressed in the group above, the following discusses the Agency's confidence in the active engagement of many enthusiastic and capable stakeholders

Communication and collaboration with stakeholders are critical aspects of any systemic initiative. The need for critical communication among stakeholders was one of the core reasons the entire Education Data Systems study was a collaborative effort. The study engaged the membership of the Nebraska Council of School Administrators (NCSA), Nebraska State Education Association (NSEA), Educational Service Unit Coordinating Council (ESUCC), Educational Service Unit staff, engagement of the Nebraska Educational Technology Association members (NETA), the Nebraska School Boards Association, staff of University of Nebraska, insight from Network Nebraska, as well as the support of the State Board of Education.

Ongoing communication with stakeholders and future engagement of school districts continues as elements of the implementation of prototypes systems, piloting of concepts, and planning for scaling efforts continue as well. Currently nine districts are involved with prototyping elements of the process and 39 districts have signed up for consideration of an Early Adopter Program for Limited Production Releases of pieces of the system.

The Education Data Systems Legislative Study demonstrated that while ambitious, coordination of this type and caliber is possible. Functionally, response rates and participation in the study efforts were very high. Over 200 educators participated in the study through a survey of leaders' needs and preferences, focus groups, financial interviews, and direct outreach to teachers. Their input represents over 80% of the students in Nebraska.

The study also revealed overwhelming support for the vision offered by NDE: districts view data use as critical to upcoming initiatives in their districts. In addition to the enthusiasm for building local capacity for data-driven instruction and planning documented in the Legislative Study, see the table below for district superintendent responses to the question, "How important is data use for the following strategic initiatives in your district?":

How Important is Data Use for the Following Strategic Initiatives in Your District?								
Initiative	Not Important at All	Not Too Important	Somewhat Important	Very Important	Extremely Important			
Measuring Success of Early Childhood Providers	2%	9%	27%	41%	22%			
Implementing a Teacher Effectiveness Framework	1%	3%	16%	56%	24%			
Measuring Student Perceptual Information	0%	3%	29%	50%	18%			
Improving Special Education Services	0%	1%	20%	54%	25%			
Offering Credential-based Career Education	0%	5%	37%	47%	11%			

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Measuring the college-going and	0%	4%	33%	47%	16%
college-success rates of district					
graduates					

NDE believes that the demonstrated need for an improved system and a sense of efficacy in the process will drive stakeholders to participate. If stakeholders are as responsive to the implementation of a system as they were in the process that designed it (or perhaps, *because* they were active in designing it) then the project will succeed. This is a new and unique opportunity for the state of Nebraska.

Weakness:

- Did we consider vendor SAAS particularly as it relates to state sponsored SIS? Did we consider outsourcing Helpdesk Services to take advantage of the economies of scale?

Agency Response:

This comment is addressed in parts below:

Did we consider vendor SaaS as it relates to state-sponsored SIS?

Yes, Software as a Service (SaaS) offerings were considered as it relates to a state-sponsored Student Information System. However, vendor hosting of student data will come with additional selection criteria and scrutiny to ensure that security, privacy and state/district control of sensitive data is maintained. The coordination, creation, and leveraging of the SaaS options all provide an opportunity to support student privacy and security, ensure integration of services, and create a unique an opportunity to allow the market forces to provide value to school districts in Nebraska.

Did we consider outsourcing help desk?

Yes, however outsourced help desk comes with special issues relating to the privacy of student data. Many of the daily help desk questions are about the quality and accuracy of student data. Many of these questions must be answered with deep knowledge of Nebraska education practice and policies and clear understanding of the laws supporting privacy and security of student data. Many of these questions require access to student records and personally identifiable information (PII). For this reason, keeping the help desk function as part of the NDE-ESU collaborative is recommended.

Project Justification / Business Case

Weakness:

The project deliverables are highly dependent upon a level of data standardization never achieved across the 100s of K12 school districts in Nebraska.

Agency Response:

Absolutely correct, but rather than a weakness, this further echoes the K-12 school districts in Nebraska.

- "Please help us reduce the burden of reporting and provide tools to more effectively use the data."
- "Please provide leadership on all of these different systems,"

- "Please help us provide access to the tools and resources that are safe, secure, and aligned to the standards"
- "Please give us a choice and reduce the burdens of selecting tools, contracting, and then it not meeting the state needs"
- "We are in the education business, not in technology business, please help provide access and tools for us so we can make a difference with students."
- "Can we get more timely assistance from the help desk?"

These represent just a few of the consensus comments from over 200 school district administrators, teachers and others that participated in the development of strategy and continue to be echoed by school personnel as communication and outreach efforts about the concept expand across the state of Nebraska.

In addition, as the reviewers pointed out the proposal delineates three credible benefits including reduced accountability costs through standardization of data exchange, reduced technology costs through an enterprise approach to data warehousing/business intelligence and improved decision support through the equitable provision of data analytics to all school districts.

Further, they identified this as a grand idea with good architectural decisions. Open data standards to allow multiple vendors to play in the space, giving flexibility for schools to select solutions based on software scope or value add. The districts can leverage collaborative purchasing power to drive down costs.

Technical Impact

Weakness:

The specific roles of stakeholder partners is vague and does not, in all cases, match their current capacities.

Agency Response:

The vagueness of the stakeholder can be cleared up by the following:

School District: Choose from a series of preapproved applications that are cheaper and more effectively integrated than anything they could do in isolation.

ESUCC: Continue to manifest the statutory responsibility of ensuring quality and efficient engagement of resources for the districts they serve. Provide leadership and implementation of the identity management solution through the single sign on initiative.

ESU: Collaborate and support a coordinated effort across the state to support districts and students realizing that all Nebraska students are our responsibility. Students move from district to district and providing quality experiences for requires a focus to coordinate and support all.

NDE: While historically focused on compliance the broader objective of the NDE is to ensure the support systems for all schools to succeed is job one.

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Education Partners: Communicate efforts and progress around the well-defined goals, including the features, benefits, timing, and opportunities gained through the efforts.

The purpose of this proposal is to create capacity, coordinate the efforts, and provide effective coordinated professional development through the highly effective network of ESU staff developer and School district personnel.

Financial Analysis and Budget

Weakness:

- It would be helpful to have more insight into how the investment return is calculated and where these funds are redirected too. If the resources remain in the districts working on other initiatives it should not be reported as a savings.
- Metrics for several of the goals (cost savings for example) are missing or poorly defined.

Agency Response:

The proposed investment is intended to limit the funds and time districts spend on compliance-driven activities, and return those resources to districts. In the case of FTE time (655,200 hours per year, valued at \$25M/year), this time could be better spent in local research and evaluation, longitudinal analysis, school improvement planning, and innovating for better data-driven instruction.

In the case of data systems (\$246/student/year at \$75M), districts will leverage the Ed-Fi infrastructure for more favorable relationships with vendors, to spend less on administrative and back office systems, and to purchase data applications more relevant to Teaching and Learning.

Accountability costs will be reduced by unifying and moving accountability computations to state from a single fine-grained data collection. The estimated 455 FTEs are involved in the current data collection process at districts, representing an annual cost of \$22.75 million. NDE spends an additional \$2.5M per year on licensing, IT personnel and help desk supporting the accountability submissions.

The recommended NEDS, when fully implemented, can re-direct at an estimated 50% of the district FTE time related to accountability submissions to focus on other initiatives that impact can more directly improve student performance and success. This value is estimated at \$12.6 million annually once fully implemented.

It should be noted that the remaining 50% will be involved in a larger mission of improving data quality across the all types of data (not just accountability) that are more directly contributing to the mission of continuous education improvement.

Technology costs will be reduced for districts as a result of several factors, including:

- Reduced investment in data system costs by having a centralized capability that uses valuable
- Ed-Fi components obtained without license costs
- Negotiated statewide costs for licensing to allow pricing as with largest districts "cooperative purchasing"
- Reduced integration costs because vendors are supporting native Ed-Fi interfaces to the statewide system
- Reduced number of different systems reduces integration and maintenance costs

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- Increased stability of systems over time, reducing transition costs
- Reduced costs to increased competitiveness because of reduced vendor lock-in
- Reduced district costs maintaining their own data warehouse
- Savings on procurement costs
- Savings on contracting and legal fees

Based upon the district surveys, Nebraska districts spend roughly \$74.7 million per year on IT and systems.

The project, when fully implemented, will save an estimated 25% on the districts' systems cost a year or \$18.7 million. The 25% was determined as a factor based upon comparing license costs associated with different sized districts and anticipating a broader statewide leveraging of the purchasing options and market forces to reduce district costs.

If redirecting resources from administrative activities to activities more focused on teaching and learning cannot be categorized as "savings" then perhaps we should be using words such as "improving the efficiency and effectiveness of education system to achieve improved student success."

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Project #	Agency	Project Title
13-03	Department of Education	Instructional Improvement Systems

SUMMARY OF REQUEST (Executive Summary from the Proposal)

[Full text of all proposals are posted at: http://nitc.nebraska.gov/commission/project_proposals/2015-2017.html]

The recent Nebraska Education Data Systems study, in response to Legislative Resolution 264, found that Nebraska spends an estimated \$100 million annually for technology systems, software systems, and accountability data submissions by the public school districts and the Nebraska Department of Education (NDE). The systems and applications are largely focused on satisfying Federal and State accountability reporting requirements and do not directly contribute to supporting teaching and learning. The districts submit annual collections of data to support accountability to the state using a combination of automated and manual methods. An estimated 655,200 hours are spent by districts preparing the required collections for each year's accountability data submission.

Each district has selected its own set of administrative, teaching and learning, and back office applications and there is a large disparity in the number of applications available in small districts versus larger districts due to budget, staff, and capacity. Outside of Nebraska's largest districts, the digital tools are poorly integrated, there is little support for data-driven decision-making, and modern tools are not available to support instructional improvement necessary for the state's education initiatives of blended learning, teacher and principal evaluation, career readiness, and continuous school improvement.

Nebraska's network of Educational Service Units (ESUs), the ESU Coordinating Council (ESUCC), and Network Nebraska are all contributing to improving the capabilities and the efficiencies of the data systems for the districts. However, the coordination, support, and access for systems can be dramatically improved and serves as the basis for this multi-faceted approach to develop a statewide data system that builds long-term capacity, efficacy, and efficiency for the system of education. The study established 10 recommendations that included five work streams; leverage work conducted using the federal \$4.3 million SLDS grant scheduled to end June 2015.

The proposed implementation roadmap for the Nebraska Education Data System estimates a three-year investment of \$41,960,110, roughly evenly split across the three years. The rollout plan targets a phase in process over three years that could include 50 districts the first year, 150 the second year, and 245 during the third year resulting in cost savings and efficiencies that will also provide a financial return from substantially-reduced accountability costs and from reduced technology costs to districts. The projected cumulative net return for the investment over five years is \$44.8 million. However, the primary benefits from the recommended investments will come from a greatly improved instructional system that improves student performance leading to greater student success.

FUNDING SUMMARY

[Next page]

-							
			Year 0 FY 2015 SY 2014-2015	Diennium Budget Request	Year 1 FY 2016 SY 2015-2016	Year 2 FY 2017 SY 2016-2017	Year 3 FY 2018 SY 2017-20
			9 Districts		50 Districts	150 Districts	245 District
١,	Nebraska Education Infrastructure		Pilot initial SIS vendor Ed-Fi Interfaces	Activities and Objectives identify and collectively procure state-sponsored SIS(s)			
_				Support SIS Vendor Ed-FI Interfaces	\$ 166,667	\$ 166,667	\$ 166,66
_	NDE will leverage the Ed-FI			Support assessment vendor Ed-FI Interfaces	166,667	166,667	166,66
-	infrastructure to connect source			Other source system interfaces to Ed-FI (HR,SRS, applications)	250,000	250,000	250,0
-	systems and drive down costs.			Support transfer to state supported systems in years 2 and 3 Develop identity management solution for statewide single sign-on	166,667	166,667 100,000	166,6
┪				ESUCC Infrastructure	500,000	500,000	500,0
				Infrastructure scaling and security audit activities	250,000		250,0
4				Total Contractual Expenditures	1,600,000	1,600,000	1,600,0
+				New Positions Chief of Staff	60,523	60.523	60.5
+				Chief Technology Officer	68,502	68,502	68.5
				Lead	60,523	60,523	60,5
4				Senior	55,047	55,047	55,0
-				Analyst	50,099	50,099 50,099	50,0
+				Analyst Total Salary Expenditures	50,099 344,793		344,
+				Benefits Expenditures	165,264	165,264	165,
				Operating Expenditures	23,805	23,805	23,1
I				Travel Expenditures	10,395		10,3
4				Equipment Expenditures	60,360		
+				Nebraska Education Infrastructure Total	\$ 2,204,617	\$ 2,144,257	5 2,144,2
ı	NDE Data Collection System			Objectives			
J				State wide rollout with dual submissions (rollout plan based on SIS vendor)	\$ 500,000		
	NDE will reduce the burden of			Develop and validate state accountability reports	500,000	500,000	500,0
	accountability data submissions on districts through automated process			Develop business rules and validation for automatic accountability submissions Develop and validate federal accountability report submissions	250,000 500,000	250,000 500,000	250,0
	everaging the Ed-Fi infrastructure.			Develop and validate federal accountability report submissions Develop district review and approval infrastructure	250,000	250,000	250,0
ď				Total Contractual Expenditures	2,000,000		2,000,
				New Positions			
4				Director, Accountability Data Systems	68,502	68,502	68,
+				Program Specialist III	55,047 60,523	55,047 60,523	55,0 60,0
+				Database Analyst Lead Database Analyst Senior	60,523 55,047	60,523 55,047	55,0
I				Database Analyst	50,099	50,099	50,0
				Database Analyst	50,099		50,0
4				Total Salary Expenditures	339,317 164,380	339,317 164,380	339,3 164,3
+				Benefits Expenditures Operating Expenditures	164,380 23,805	23,805	23.1
+				Travel Expenditures	14,070		14,0
				Equipment Expenditures	37,680	-	
4				NDE Accountability Data System Total	\$ 2,579,252	\$ 2,541,572	\$ 2,541,5
٠.	NDE Education Intelligence System			2 klastica			
١,	NDE Education Intelligence System		Pilot SLDS Student-Level Dashboard	Objectives Dashboard statewide rollout	\$ 200,000	\$ 200,000	\$ 200,0
7			Print start student devel pasitional a	Dashboard updates and extensions	500,000	500,000	500,0
_				District data warehouses and reporting layer	333,333	333,333	333,2
4				District data warehouse security layer (with and without de-identification)	250,000	250,000	250,0
-				NDE data warehouse cubes and Bi layer	1,450,000	1,450,000	1,450,0
-				Total Contractual Expenditures New Positions	1,450,000	1,450,000	1,450,1
٠,	VDE will create education intelligence -			Chief Privacy Officer	79,873	79,873	79,1
	access to actionable insight - through a			Director, Data Research and Evaluation	68,502		68,5
	varehouse, business intelligence tools,			Database Analyst Lead	60,523	60,523	60,5
I*	and increased internal capacity.			Database Analyst Senior Database Analyst	55,047 50,099	55,047 50,099	55,0 50,0
-				Database Analyst	50,099		50,0
_				Total Salary Expenditures	364,143		364,3
				Benefits Expenditures	168,387	168,387	168,1
4				Operating Expenditures	24,510		35,
-				Travel Expenditures Equipment Expenditures	17,680 60,360	17,680	17,0
+				NDE Education Intelligence System Total		\$ 2,015,720	\$ 2,015,7
†				Had bear about intelligence options form	y zonacono	9 2,000,720	9 2,000,
ı	telp Desk & Support						
4				Expand help-desk support to include Year 1,2 & 3 systems	\$ 50,000		
	NDE, along with the ESUCC and ESU's, will provide technical support for		PD Curriculum	Develop professional development curriculum on Year 1,2 & 3 systems integrate statewide ticketing system for "virtual help desk"	50,000 166,667	50,000 166,667	50,0 166,0
	Webraska education data systems			Integrate statewide ticketing system for "virtual help desk" Level 4 Support and Contracts	166,667 500,000		500,0
	through a virtual help desk and			Total Contractual Expenditures	766,667	766,667	766,6
	coordinated knowledge transfer.			New Positions			
				Director, Project Management Office	68,502	68,502	68,5
1				IT Help Desk Specialist Senior IT Help Desk Specialist	50,099 41,706	50,099 41,706	50,0
1				IT Help Desk Specialist IT Help Desk Specialist	41,706 41,706	41,706 41,706	41,
				Project Manager	50,099	50,099	50,0
				Project Manager	50,099	50,099	50,0
						302,211 158,394	302,3
				Total Salary Expenditures	302,211		150,2
				Benefits Expenditures	158,393		
				Benefits Expenditures Operating Expenditures	158,393 23,805	26,555	
				Benefits Expenditures Operating Expenditures Travel Expenditures Equipment Expenditures	158,393 23,805 10,395 43,350	26,555 10,396	10,2
				Benefits Expenditures Operating Expenditures Travel Expenditures	158,393 23,805 10,395 43,350	26,555 10,396	
				Benefits Expenditures Operating Expenditures Travel Expenditures Equipment Expenditures Help Desk & Support Total	158,393 23,805 10,395 43,350 \$ 1,304,821	26,555 10,396 \$ 1,264,223	\$ 1,264,3
				Benefits Expenditures Operating Expenditures Travel Expenditures Equipment Expenditures	158,393 23,805 10,395 43,350 \$ 1,304,821	26,555 10,396	\$ 1,264,3
	NE Instructional Improvement System			Benefits Expenditures Operating Expenditures Travel Expenditures Equipment Expenditures Help Desk & Support Total Total NDE DRE Capacity Building	158,393 23,805 10,395 43,350 \$ 1,304,821	26,555 10,396 \$ 1,264,223	\$ 1,264,3
5 9				Benefits Expenditures Opperating Expenditures Travel Copenditures Equipment Expenditures Help Desk & Support Total Total NDE DRE Capacity Building Objectives	158,393 23,805 10,395 43,350 \$ 1,304,821	26,555 10,396 \$ 1,264,223	\$ 1,264,3
5 9	NDE will build the capacity of Nebraska		Identify key systems: - learning management	Benefits Expenditures Opporating Expenditures Travel Expenditures Equipment Expenditures Help Desk & Support Total Total NOT DRE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendors in integrating with 550 and state data system	154,393 23,806 10,395 43,350 5 1,304,821 5 8,173,770 5 166,667	26,555 10,396 \$ 1,264,223 \$ 7,965,772 \$ 166,667	\$ 1,264,3 \$ 7,985,3 \$ 166,0
5 9	NDE will build the capacity of Nebraska iducators to continuously improve the		Identify key systems: - learning management - blended learning	Benefits Expenditures Opporating Expenditures Travel Expenditures Equipment Expenditures Total NDE ORE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendors in integrating with \$50 and state data system Provide PD for districts	150,390 23,805 10,395 43,350 \$ 1,304,821 \$ 8,173,770 \$ 166,667 83,333	26,555 10,396 \$ 1,264,223 \$ 7,965,772 \$ 166,667 83,333	\$ 1,264,3 \$ 7,985,3 \$ 166,0 83,3
5 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students		Identify key systems: - learning management - blended learning - backer/pringle evaluation	Benefits Expenditures Opporating Expenditures Travel Expenditures Equipment Expenditures Help Desk & Support Total Total NOT DRE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendor in integrating with 350 and state data system Provide P0 for districts System licenses paid by state	154,393 23,806 10,395 43,350 5 1,304,821 5 8,173,770 5 166,667	26,555 10,396 \$ 1,264,223 \$ 7,985,772 \$ 166,667 83,333	\$ 1,264,3 \$ 7,985,3 \$ 166,0 83,3
5 9	NDE will build the capacity of Nebraska iducators to continuously improve the		Identify key systems: - learning management - blended learning - teacher/principal evaluation - school climate	Benefits Expenditures Opporating Expenditures Travel Expenditures Equipment Expenditures Total NDE ORE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendors in integrating with \$50 and state data system Provide PD for districts	150,390 23,805 10,395 43,350 \$ 1,304,821 \$ 8,173,770 \$ 166,667 83,333	26,555 10,396 \$ 1,264,223 \$ 7,965,772 \$ 166,667 83,333	\$ 1,264,3 \$ 7,985,3 \$ 166,0 83,3
5 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		Identify key systems: - learning management - blended learning - basched/printipal evaluation - school climate - career readiness	Benefits Expenditures Opporating Expenditures Travel Expenditures Equipment Expenditures Travel Expenditures Help Desk & Support Total Total NDE CRE Capacity Building Objectives Identify and collectively procure state-appraised systems Support vendors in Integrating with 550 and state data system Provide P To for districts System Illeanus paid by state App Store	150,390 23,805 10,395 43,350 \$ 1,304,821 \$ 8,173,770 \$ 166,667 83,333	26,555 10,396 \$ 1,264,223 \$ 7,965,772 \$ 166,667 83,333 5,000,000	5 1,264,3 \$ 7,985,3 \$ 7,985,3 \$ 166,1 \$ 3,000,0
5 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		Identify key systems: - learning management - blendes learning - basched principal evaluation - school climate - career neadiness	Benefits Expenditures Opporating Dependitures Travel Expenditures Equipment Expenditures Help Desk & Support Total Total NDE DRE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendors in integrating with 350 and state data system Provide P0 for districts System licensure paid by state App Stone Survey Resources and Tools Total Contractual Expenditures New Positions	150,393 23,805 10,385 43,350 5 1,304,821 5 8,173,770 5 166,667 83,333 5,000,000	26,555 10,396 5 1,364,223 \$ 7,965,772 \$ 166,667 83,333 5,000,000	\$ 1,264,3 \$ 7,985,3 \$ 7,985,3 \$ 166,4 \$3,5,000,4
5 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		identify key systems: - learning management - blended learning - tracker fylindripal evaluation - school dilmate - career readiness	Benefits Expenditures Operating Expenditures Travel Expenditures Equipment Expenditures Help Desk & Support Total Total NDE DRE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendors in integrating with SSO and state data system Provide PD for districts System Illeaness paid by state App Store Survey Resources and Tools Total Contractual Expenditures New Positions Director, Instructional Improvement System	150,393 23,805 10,395 43,350 5 1,304,821 5 6,173,770 5 166,667 83,333 5,000,000 5,250,000	26,555 10,396 5 1,264,223 \$ 7,965,772 \$ 166,667 83,333 5,000,000 5,250,000	10,7 \$ 1,264,7 \$ 7,985,7 \$ 166,1 \$,000,0 \$ 5,250,0 66,1
5 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		Identify key systems: - learning management - blendes learning - seached/printpal evaluation - school dimate - career readiness	Benefits Expenditures Operating Expenditures Equipment Expenditures Equipment Expenditures Help Desk & Support Total Total NDE ORE Capacity Building Objectives Lidentify and collectively procure state-sponsored systems Support vendon in integrating with 550 and state data system Provide P0 for districts System licenses paid by state App Store Survey Resources and Tools Total Contractual Expenditures New Position Director, instructional Improvement System Education Specialist IV	156,300 21,805 10,305 5 1304,821 5 8,173,770 5 166,667 81,333 5,000,000 5,250,000	26,555 10,396 \$ 1,264,223 \$ 7,985,772 \$ 166,667 83,333 5,000,000 5,250,000	10, 5 1,264, 5 7,965, 5 7,965, 63, 5,250, 66, 66, 66, 66, 66, 66, 66, 66, 66, 6
5 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		Identify key systems: - learning management - blended learning - teacher fyrindripal evaluation - school climate - career readiness	Benefits Expenditures Operating Expenditures Travel Expenditures Equipment Expenditures Help Desk & Support Total Total NDE DRE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendors in integrating with 550 and state data system Provide PD for districts System licensers paid by state App Stores Survey Resources and Tools Total Contractual Expenditures New Positions Orrector, Instructional Improvement System Education Specialist II	154,300 24,805 10,305 5 1,004,821 5 6,173,770 5 6,173,770 5 166,667 81,333 5,000,000 60,502 64,502 66,502	26,555 10,396 5 1,264,223 \$ 7,965,772 \$ 166,667 83,333 5,000,000 5,250,000 68,502 68,502 60,503	\$ 1,264, \$ 7,985, \$ 7,985, \$ 166, 83, 5,000, \$ 5,250, 60, 60,
5 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		Identify key systems: - learning management - blended learning - teacher fyrindripal evaluation - school climate - career readiness	Benefits Expenditures Operating Expenditures Equipment Expenditures Equipment Expenditures Help Desk & Support Total Total NDE ORE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendors in integrating with 550 and state data system Provide 70 for districts System licenses paid by state App Store Survey Resources and Tools Total Contractual Dependitures New Positions Director, Instructional Improvement System Education Specialist II Program Specialist III	156,300 21,805 10,305 5 1304,821 5 8,173,770 5 166,667 81,333 5,000,000 5,250,000	26,555 10,396 \$ 1,364,223 \$ 7,985,772 \$ 166,667 83,333 5,000,000 5,250,000 68,502 60,502 60,502 60,523	\$ 1,254, \$ 7,985, \$ 7,985, \$ 166, 83, 5,000, \$ 5,250, 60, 60, 60,
5 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		Identify key systems: - learning management - blended learning - teacher fyrindripal evaluation - school climate - career readiness	Benefits Expenditures Operating Expenditures Travel Expenditures Equipment Expenditures Help Desk & Support Total Total NDE DRE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendors in integrating with 550 and state data system Provide PD for districts System licensers paid by state App Stores Survey Resources and Tools Total Contractual Expenditures New Positions Orrector, Instructional Improvement System Education Specialist II	156,300 21,805 10,305 43,350 5 1304,831 5 8,173,770 \$ 166,667 81,333 5,000,000 5,250,000 60,502 60,502 60,503 60,503	26,555 10,396 5 1,264,223 \$ 7,965,772 \$ 166,667 83,333 5,000,000 5,250,000 68,502 68,502 60,503	5 1,264; 5 1,264; 5 7,985; 5 166; 83; 5,000; 63; 60; 60; 60;
5 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		Identify key systems: - learning management - blended learning - teacher fyrindripal evaluation - school climate - career readiness	Benefits Expenditures Operating Expenditures Travel Expenditures Equipment Expenditures Help Desk & Support Total Total NOT DRE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendors in integrating with 550 and state data system Provide P0 for districts System licenses paid by state App Store Survey Resources and Tools Total Contractual Expenditures New Positions Director, instructional Improvement System Cifucation Specialist II Applications Developer	154,330 2,865 10,365 10,365 43,350 5 1,304,821 5 4,173,770 5 166,667 83,333 5,000,000 66,502 66,502 66,503 66,503 55,001 50,009 50,009 50,009 50,009	\$ 1,565,572 \$ 1,364,223 \$ 7,985,772 \$ 166,667 \$ 3,333 \$ 5,000,000 \$ 6,502 \$ 6,502 \$ 6,503 \$ 5,000,000 \$ 6,502 \$ 6,503 \$ 5,000,000 \$ 6,503 \$ 5,000,000 \$ 5,000 \$ 5,000,000 \$ 5,000,000 \$ 5,000,000 \$ 5,000 \$ 5,	10, 5 1,264, 5 7,985, 5 166, 83, 5,000, 68, 60, 60, 55,000, 50, 50, 50, 50, 50, 50, 50, 5
5 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		Identify key systems: - learning management - blended learning - teacher fyrindripal evaluation - school climate - career readiness	Benefits Expenditures Operating Expenditures Equipment Expenditures Equipment Expenditures Help Desk & Support Total Total NDE ORE Capacity Building Objectives Identity and collectively procure state-sponsored systems Support vendors in integrating with 500 and state data system Provide 70 for districts System licenses paid by state App Stores Survey Resources and Tools Total Contractual Expenditures New Positions Director, Instructional Improvement System Education Specialist II Program Specialist III Applications Developer Lead Applications Developer Eneror Applications Developer Applications Developer Applications Developer Applications Developer Applications Developer Total Salany Expenditures	\$ 156,300 2,805 10,305 5 1,304,821 5 1,170,770 \$ 166,667 81,313 5,000,000 6,502 66,502	5 1,364,223 \$ 7,965,772 \$ 1,864,627 \$ 1,8	5 1,254, 5 1,254, 5 7,965, 5 166, 83, 5,000, 63, 60, 60, 50, 50, 50, 50, 50, 50, 50, 5
15 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		Identify key systems: - learning management - biended learning - bracker j/priorpal e valuation - school climate - career readiness	Benefits Expenditures Operating Expenditures Cquipment Expenditures Equipment Expenditures Help Desk & Support Total Total NOE DRE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendors in integrating with 550 and state data system Provide P0 for districts System licenses paid by state App Store Survey Resources and Tools Total Contractual Expenditures New Positions Director, instructional Improvement System Cducation Specialist II Applications Developer Lead Applications Developer Lead Applications Developer Applications Developer Applications Developer Total Salary Expenditures Repetitives Repositions Total Contractual Expenditures Replacations Developer Total Salary Expenditures Repetits Expenditures Repetits Expenditures	154,330 2,865 10,385 43,350 5 1,304,821 5 1,473,770 5 166,667 83,333 5,000,000 66,502 66,502 66,503 55,047 50,099 413,285	5,555. 10,364,223 5 1,364,223 5 7,965,772 5 166,667 83,313 5,000,000 66,502 66,502 66,503 60,	10,3 \$ 1,264,3 \$ 7,985,3 \$ 166,6 83,3 5,000,0 \$,250,0 60,5 60,5 60,5 50,0 413,3 194,5
15 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		Identify key systems: - learning management - blended learning - stander/principal evaluation - school dimate - career readiness	Benefits Expenditures Coperating Expenditures Equipment Expenditures Equipment Expenditures Equipment Expenditures Total NDE ORE Capacity Building Objectives identify and collectively procure state-sponsored systems Support vendors in integrating with 550 and state data system Provide 70 for districts System licenses paid by state App Stores Survey Resources and Tools Total Contractual Expenditures New Positions Director, Instructional Improvement System Columbin Specialist II Program Specialist III Applications Developer Lead Applications Developer Eneror Applications Developer Tender Applications Developer Total Salary Expenditures Benefits Expenditures Coperating Expenditures Coperating Expenditures Coperating Expenditures Coperating Expenditures Coperating Expenditures Coperating Expenditures	\$ 156,300 2,805 43,505 \$ 1,304,821 \$ 1,104,821 \$ 1,104,821 \$ 1,004,821 \$ 1,004	5 1,564,523 \$ 7,965,772 \$ 1,66,627 \$ 3,66,627 \$ 3,66,627 \$ 3,66,627 \$ 3,60,000 \$ 5,250,000 \$ 60,503 \$ 60,503 \$ 50,000 \$ 50,000 \$ 10,000 \$ 10,00	\$ 1,264,3 \$ 7,965,1 \$ 1,66,6 \$ 3,3 \$,000,6 \$ 2,50,6 \$ 60,5 \$ 60,5
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5 9	NDE will build the capacity of Nebraska educators to continuously improve the quality of instruction for students through integrated, efficient systems.		Identify key systems: - learning management - blended learning - stander/principal evaluation - school dimate - career readiness	Benefits Expenditures Operating Expenditures Cquipment Expenditures Equipment Expenditures Total NOE DRE Capacity Building Objectives Identify and collectively procure state-sponsored systems Support vendors in integrating with 550 and state data system Provide P0 for districts System licenses paid by state App Store Sourcey Resources and Tools Total Contractual Expenditures New Positions Director, instructional improvement System Cducation Specialist II Applications Developer Lead Applications Developer Lead Applications Developer Lead Applications Developer Applications Developer Total Salary Expenditures Replications Developer Total Salary Expenditures Replications Developer Total Salary Expenditures Generits Expenditures Generits Expenditures Operating Expenditures Operating Expenditures	154,330 2,805 10,385 43,350 5 1,304,821 5 1,473,770 5 166,667 83,333 5,000,000 66,502 66,502 60,513 60,513 50,000 411,258 23,000 411,258 23,300 22,475	5,555,500,000 \$ 1,364,223 \$ 7,865,772 \$ 166,607 \$ 3,333 \$ 5,000,000 \$ 65,500,000 \$ 65,500,000 \$ 65,500 \$ 65,500 \$ 65,500 \$ 65,500 \$ 75,007 \$ 10,000 \$ 10	10,3 \$ 1,364,3 \$ 7,985,3 \$ 166,6 \$3,3 \$,000,6 \$2,50,6 \$61,5 \$60,5

PROJECT SCORE

Section	Reviewer 1	Reviewer 2	Reviewer 3	Mean	Maximum Possible
Goals, Objectives, and Projected Outcomes	15	7	11	11	15
Project Justification / Business Case	20	15	24	20	25
Technical Impact	18	10	18	15	20
Preliminary Plan for Implementation	8	6	6	7	10
Risk Assessment	8	6	6	7	10
Financial Analysis and Budget	18	0	15	11	20
	_		TOTAL	70	100

REVIEWER COMMENTS

Section	Strengths	Weaknesses
Goals, Objectives, and Projected Outcomes	- Detailed plan that accounts for systemic change by increasing human, technical and fiscal resources. The proposal has clear goals, technically feasible deliverables and a rich set of milestones to gauge project progress.	The scope of the project is considerable requiring a great deal of communication and stakeholder involvement that has not been historically in evidence. Essentially a replica of Educational Capacity proposal
Project Justification / Business Case	- The proposal delineates three credible benefits including reduced accountability costs through standardization of data exchange, reduced technology costs through an enterprise approach to data warehousing/business intelligence and improved decision support through the equitable provision of data analytics to all school districts.	The project deliverables are highly dependent upon a level of cooperation and agreement upon instructional methods not previously in evidence across the 100s of K12 school districts in Nebraska. Same justification as Educational Capacity proposal
Technical Impact	- The proposal constitutes a systemic approach to engaging learners and instructors in a digital environment that honors teacher effectiveness as the key to gains in student achievement. The model calls for the foundation of guaranteed and viable curriculum supported by solid instructional design and evaluated through assessment for learning and of growth.	- The greatest concern of the reviewer is achieving the operational success necessary to a leverage the functional capacity. Moreover, this constitutes a fundamental shift in instructional delivery that represents 2nd order change for nearly all K12 teachers. It won't come easily, it won't come quickly, it won't come without leadership and it won't come without professional casualties Essentially a replica of Educational Capacity proposal
Preliminary Plan for Implementation	- The author provides a clear operational/functional roadmap while identifying key stakeholder partners.	The specific roles of stakeholder partners is vague and does not, in all cases, match their current capacities. This is especially true in the area of professional development. Essentially the same as Educational capacity proposal
Risk Assessment	- Risks have been identified and key dependencies recognized.	Dependencies associated with the work of stakeholder agencies cannot be fully mitigated within the context of the proposed project. This is less a failing of the proposed and more a recognition of the difficulties associated with interagency projects Essentially the same as Educational capacity proposal
Financial Analysis and Budget	- Costs and overall budget is clearly defined.	Proposed salaries for key personnel look very low and will make attracting qualified applicants difficult. Essentially the same as Educational capacity proposal

[Note: Reviewer 3 gave the same scores for both projects 13-02 and 13-03, with no comments on 13-03. The reviewer noted the similarities between the proposals and commented that they appear to be two facets of the same proposal.]

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TECHNICAL PANEL COMMENTS

Technical Panel Checklist				Comments
recillical Patier Checklist	Yes	No	Unknown	Comments
1. Is the project technically feasible?	✓			
2. Is the proposed technology appropriate for the project?			✓	- The specific, agreed upon, technology to be utilized for this project is unknown at this time.
Can the technical elements be accomplished within the proposed timeframe and budget?			√	

APPENDIX: AGENCY RESPONSE TO REVIEWER COMMENTS

NDE offers the following response to NITC reviewer comments regarding Project #13-03. One concern referenced in multiple sections – that this proposal contains redundancies with its companion proposal, 13-02, is addressed once at the beginning. NDE has a clear vision for the role of data and technology in helping to reach every student, every day. It is our belief that this Instructional Improvement System will return enormous benefit on the learning outcomes of Nebraska students.

Referenced in all Sections:

Weakness:

- Essentially a replica of Educational Capacity proposal

Agency Response:

As described in the proposal the two projects (Educational Data Capacity and Instructional Improvement) are interlinked. These projects will naturally overlap because the plan for the agency is a cohesive. As indicated in the proposal, the inclusion of the Educational Data Capacity information in the proposal was primarily to ensure appropriate context that the Application Store and supporting systems approach were dependent upon the successful implementation of the infrastructure, supports, and integration work.

Providing two projects was initially recommended by budget officials to separate the pieces to assist with budget considerations and provide legislative options to consider.

Goals, Objectives, and Projected Outcomes

Weakness:

- The scope of the project is considerable requiring a great deal of communication and stakeholder involvement that has not been historically in evidence.

Agency Response:

Communication and collaboration with stakeholders are critical aspects of any systemic initiative. The need for critical communication among stakeholders was one of the core reasons the entire Education Data Systems study was a collaborative effort. The study engaged the membership of the Nebraska Council of School Administrators (NCSA), Nebraska State Education Association (NSEA), Educational Service Unit Coordinating Council (ESUCC), Educational Service Unit staff, engagement of the Nebraska Educational Technology Association members (NETA), the Nebraska School Boards Association, staff of University of Nebraska, insight from Network Nebraska, as well as the support of the State Board of Education.

Ongoing communication with stakeholders and future engagement of school districts continues as elements of the implementation of prototypes systems, piloting of concepts, and planning for scaling efforts continue as well. Currently nine districts are involved with prototyping elements of the process and 39 districts have signed up for consideration of an Early Adopter Program for Limited Production Releases of pieces of the system.

The Legislative Study demonstrated that while ambitious, coordination of this type and caliber is possible. Functionally, response rates and participation in the study efforts were very high. Over 200 educators participated in the study through a survey of leaders' needs and preferences, focus groups, financial interviews, and direct outreach to teachers. Their input represents over 80% of the students in Nebraska.

NDE believes that the demonstrated need for an improved system and a sense of efficacy in the process will drive stakeholders to participate. If stakeholders are as responsive to the implementation of a system as they were in the process that designed it (or perhaps, *because* they were active in designing it) then the project will succeed. This is a new and unique opportunity for the state of Nebraska and requires leadership and vision to achieve.

Project Justification / Business Case

Weakness

- The project deliverables are highly dependent upon a level of cooperation and agreement upon instructional methods not previously in evidence across the 100s of K12 school districts in Nebraska.

Agency Response

The Legislative Study surfaced districts' need for cooperation and collaboration on instructional methods and operational standards. Over 200 school district administrators, teachers and others participated in the development of the strategy proposed. The comments below represent their consensus, and continue to be echoed school personnel as communication and outreach efforts about the concept expand across the state of Nebraska.

- "Please provide leadership on all of these different systems,"
- "Please help us provide access to the tools and resources that are safe, secure, and aligned to the standards"
- "Please help us reduce the burden of reporting and provide tools to more effectively use the data." "Please give us a choice and reduce the burdens of selecting tools, contracting, and then it not meeting the state needs"
- "We are in the education business, not in technology business, please help provide access and tools for us so we can make a difference."
- "Can we get more timely assistance from the help desk?"

In addition, precisely because of the point raised by the reviewer, study researchers used the survey to ask districts about their likelihood of participating in systems that would leverage cooperative agreements, purchasing, or negotiation. Their response was overwhelmingly in favor of collaboration, thoroughly debunking the historical perception that Nebraska districts did not want to cooperate. The table below shows district responses when asked how likely they would be to participate in a cooperative option for systems related to administrative, back office, or instructional purposes:

How Likely Are You to Participate in a (Cooperative Option) of the Following Systems?									
System	Extremely	Very	Somewh	Somewh	Very	Extremely			
	Unlikely	Unlikely	at	at Likely	Likely	Likely			
			Unlikely						
Assessment System	3%	3%	5%	24%	39%	26%			
Learning Management System	3%	4%	9%	49%	47%	32%			
Professional Development System	2%	4%	11%	40%	26%	17%			
Content Management System	3%	5%	11%	36%	29%	15%			
Progress Monitoring/RTI System	3%	3%	13%	30%	36%	16%			
Credit Recovery System	3%	4%	14%	36%	29%	14%			
Collaboration/Communication System	2%	5%	11%	40%	28%	14%			
Career & Technical Education System	1%	3%	11%	34%	36%	15%			
Nutrition & Food Mgmt. System	4%	3%	11%	35%	30%	17%			
Transportation System	8%	12%	22%	24%	20%	14%			
Guidance/Counseling System	2%	5%	14%	32%	32%	15%			
IEP Management System	2%	2%	7%	24%	34%	30%			
Library Management System	4%	9%	14%	31%	28%	14%			
Student Information System	6%	5%	9%	16%	36%	29%			
Test Analysis System	3%	2%	11%	21%	39%	23%			
Finance System	5%	6%	17%	28%	24%	19%			
Human Resource System	7%	13%	17%	30%	22%	12%			
Procurement System	7%	14%	21%	31%	17%	10%			

In focus groups, educators shared that a hesitation to participate was more related to a lack of need for the system entirely than a reluctance to cooperate. This data is also notable merely because of its existence. NDE will be able to use data to focus on strategic priorities, rather than assumption or historical perception.

Figure 12 in the Education Data Systems Legislative Study further elaborates on districts' priorities for the development of cooperative options for applications. This compares the presence of systems in districts to their perceived importance. The study revealed that Teaching and Learning systems are generally the most important and the least ubiquitous. It is precisely those systems dealing with instructional methods that districts need most.

Finally, a quote from a district leader during the Teaching and Learning Focus Group sums up a key driver to the project, they leader indicated, "I think school districts are excited about the prospect of working together to strengthen the stat40e as a whole."

Technical Impact

Weakness:

- The greatest concern of the reviewer is achieving the operational success necessary to a leverage the functional capacity. Moreover, this constitutes a fundamental shift in instructional delivery that represents 2nd order change for nearly all K12 teachers. It won't come easily, it won't come quickly, it won't come without leadership and it won't come without professional casualties.

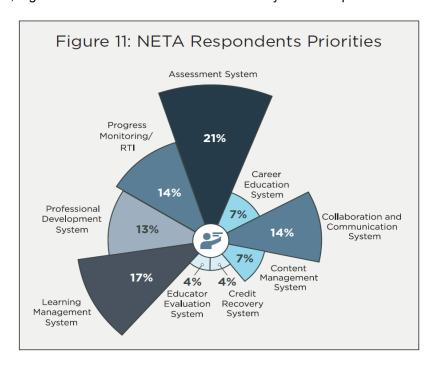
Agency Response:

While not completely clear about this concern, the focus of the application store is essentially to provide an opportunity to leverage the 300,000+ students, 245 school districts, and a set of education data standards for Nebraska to create services and vendor options for districts to choose. The model of *Network Nebraska* is an excellent example of districts working together to identify the lowest cost broadband service and the supporting the ongoing procurement, service, and support through fees. Essentially, the application store is intended to provide the same type of service and support for school districts. The ultimate goal is to reduce costs, ensure connectivity, and provide access to all districts the types of services they either are currently using or cannot access because of costs or capacity.

Figure 12 in the Nebraska Education Data Systems Study is also relevant to this comment. The graphic further elaborates on districts' priorities for the development of cooperative options for applications. Figure 12 compares the presence of systems in districts to their perceived importance, revealing that Teaching and Learning systems are generally the most important and the least ubiquitous. It is specifically those systems dealing with instructional methods that districts need most.

Figure 11 in the Education Data Systems Study also shows the priorities of 244 members of the Nebraska Education Technology Association. Members of that group, as instructors, are acutely aware of the demands of high-quality teaching and in focus groups expressed that high-quality systems would be extremely helpful.

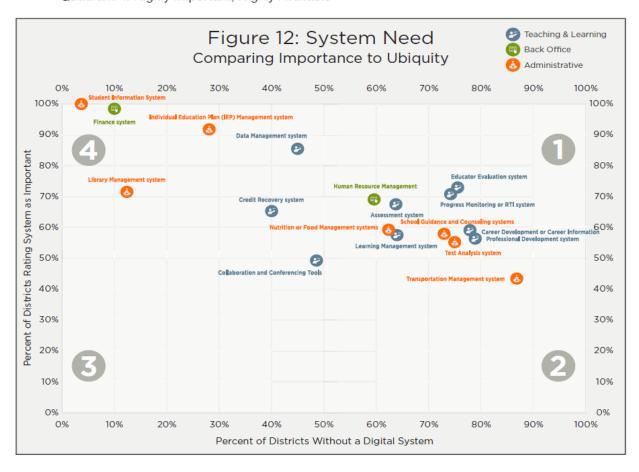
For convenience, Figure 11 and 12 from the education data systems are provided in this response.



The quadrant in Figure 12 illustrates the concept of system need. The vertical axis shows the percent of districts rating the system as highly important (the top two ratings for importance combined). The horizontal axis shows the percent of districts that do not currently have a digital system available.

Therefore, the quadrants represent the following:

- Quadrant 1: Highly Important, Not Readily Available (Most Need)
- Quadrant 2: Less Important, Not Readily Available
- Quadrant 3: Less Important, Less Available
- Quadrant 4: Highly Important, Highly Available



The education data systems identified in quadrant 1 provide a significant opportunity to ensure equity of access to school districts in Nebraska and at the same time support a significantly identified need addresses through the goals of this project.

Preliminary Plan for Implementation

Weakness:

- The specific roles of stakeholder partners is vague and does not, in all cases, match their current capacities. This is especially true in the area of professional development.

Agency Response:

The vagueness of the stakeholder can be cleared up by the following:

School District: Choose from a series of preapproved applications that are cheaper and more effectively integrated than anything they could do in isolation.

ESUCC: Continue to manifest the statutory responsibility of ensuring quality and efficient engagement of resources for the districts they serve.

ESU: Collaborate and support a coordinated effort across the state to support districts and students realizing that all Nebraska students are our responsibility. Students move from district to district and providing quality experiences for requires a focus to coordinate and support all.

NDE: While historically focused on compliance the broader objective of the NDE is to ensure the support systems for all schools to succeed is job one.

The purpose of this proposal is to create capacity, coordinate the efforts and provide effective coordinated professional development through the highly effective network of ESU staff developer and School district personnel.

Risk Assessment

Weakness

- Dependencies associated with the work of stakeholder agencies cannot be fully mitigated within the context of the proposed project. This is less a failing of the proposed and more a recognition of the difficulties associated with interagency projects

Agency Response

The interagency projects of the past may not have engaged the critical leadership from the beginning. The role of the Educational Service Unit Coordinating Council (ESUCC) and the board along with the Nebraska Department of Education are crucial to the success. To ensure continuity and clarity of the expectations efforts to develop a Memorandum of Understanding along with the critical elements of governance continue to be a critical focus during the prototype engagement. The difference that exists today, versus the cynical nature and experiences of this reviewer, are the personnel and broader vision toward the future for the student of Nebraska.

Financial Analysis and Budget

Weakness:

- Proposed salaries for key personnel look very low and will make attracting qualified applicants difficult.

Agency Response:

The budgeting requirements establish the use of 33.3% of the pay grade range and reflect the current negotiated salaries for these positions. While it is true the competitive nature of the salaries is low, they

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are reality for state government at this time. There are still highly skilled staff available to fill the positions that are interested in supporting Nebraska Education in ways that systemically can make a difference.

The proposed implementation plan balances contractor time with NDE staff. To achieve the highest level of sustainability, contractors are fully engaged in building the initial infrastructure and on-going knowledge transfer with existing NDE staff. These staff have the benefit of institutional knowledge of the department and Nebraska education context, and are rapidly developing the skills needed to sustain a system of this scale.