Monday, January 27, 2020, House Education Finance Subcommittee Hearing
Follow-Up on Committee Member Comments
Prepared by DEED staff
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- **What (if any) additional federal funding is being leveraged alongside State dollars in LAM's budget?**
  The State Library receives an annual grant from the Institute of Museum and Library Services for library development. In FY2019, we received $963,807 from IMLS. This grant includes a match of $1 in state funds for every $2 in federal funds. Our state match in FY2019 was $481,904.

  The State Library received two grants over four years to digitize Alaskan newspapers from the National Endowment for the Humanities for a total of $581,453. As part of these grant applications, the State Library pledged to provide $318,793 in non-required cost share.

  The State Library uses state School BAG funds and state OWL funds to pay internet subsidies to eligible schools and libraries, in combination with school and E-Rate funds, to pay their total internet costs. We estimate that for the eligible schools and libraries, E-Rate paid 86% of their internet bills, while BAG and OWL covered 8%, and the schools paid the remainder.

  In FY2019, all of the schools and libraries paid $97,527,801 to pay for their internet services. The schools and libraries paid 15.5% of this total and the state paid 1.2% of this total through OWL and BAG. E-Rate paid 83.3% of this total.

- **Provide HB75/SB74 fiscal notes and federal dollar increase as a result of 25 megabits per second (mbps)**
  In FY2019, $1.3M in School BAG funds leveraged $14.3M in E-Rate funds. School BAG paid 8% of total school district internet costs and E-Rate paid 86%. On the revised fiscal note for SB 74, the total cost for School BAG, if this bill passes, will be $7.8M. If this is 8% of the total cost of internet for schools, then the E-Rate at 86% will be $84.3M. See the spreadsheet on pages 6-8 for detailed information.

- **Does the Preservica contract include "back up" so the State does not have to do that?**
  Preservica uses cloud solutions on Amazon Web Services. LAM's contract with Preservica does provide for backup. The State does not have to back up anything we have stored with Preservica.

- **What are the financial savings as a result of going cloud-based for storage?**
  Preservica starts at $13,950 in the first year, with annual increases based on a growth rate of 5 TB each year. In the 10th year, Preservica would cost $36,980. Over ten years, Preservica would cost a total of $285,570. Preservica would save the Division $174,830 over ten years just for software and hardware.

- **Provide a statewide breakout of Live Homework Help users**
  See the *Live Homework Help by Zip Code* analysis spreadsheet on pages 9-10.

- **Do we know who is in the "other" user category for Live Homework Help? If not, can we request the vendor add a sentence so we can better capture this population?**
  It is currently unknown who populates the Other category. It could be adults using the resume review service or people who chose not to answer. We have asked the UAA/APU Consortium Library to ask Live Homework Help to redesign the Other category to gather more data on users. This may take a few months to insert and then compile data about who checked Other on the evaluation survey as they sign off from the service.

- **Verify the $861/per call calculation noted for OWL. Can we calculate the total cost per Alaskan?**
  The total cost to operate the videoconference network for one year is $232,900, which is the amount we have proposed removing from the budget. This number was divided by 271, the total number of videoconferences held during FY2019, which equals $859.41 and that was rounded to $860 per videoconference.

  We know libraries signed into these videoconferences 559 times, since each videoconference can host multiple libraries. If we divide $232,900 by 559, then the cost per library for the 271 events was $416.64.

  We do not have the actual number of participants at each of the videoconferences, but we estimate that 5 people attended each event at the library. With 559 libraries attending and 5 people at each library, then 2,795 people are estimated to have used the OWL videoconference network in FY2019. Again, dividing $232,900 by 2,795, the OWL videoconferences cost an estimated $83.33 per person.

- **Consult with Ilisagvik College on OWL usage. While OWL was not operating last fall, what was Ilisagvik using instead (if anything)?**
  Ilisagvik College uses the OWL network for a number of distance delivery classes for their students. Since the OWL network was not available from July through December 2019, the College purchased a subscription to Zoom in order to provide these distance classes.

  The OWL librarian reached out to Teressa Williams, Director of the Tuzzy Consortium Library, which owns the OWL videoconference endpoint used by Ilisagvik College. Staff at Tuzzy provide training and support to the staff at seven combined school/public libraries around the North Slope. Tuzzy staff did not hold staff development meetings with these seven branch libraries from July through December 2019. Nothing was put into place to replace OWL videoconferencing.

- **For users that are no longer using OWL, is there a way to find out what other videoconference product(s) they are using (Zoom, WebEx, etc.)?**
  The OWL librarian surveyed the 13 libraries that had used the videoconference network at least 10 times in FY2019. Eleven libraries have responded to date. Ilisagvik College went to Zoom for distance classes and Kenai used GoToMeeting. Here are their responses:
  - Six of these libraries are on the North Slope, including Tuzzy Library and the combined school/public libraries in Anaktuvak Pass, Atqasuk, Nuiqsut, Point Hope and Point Lay. These libraries used the OWL videoconference network a total of 231 times during FY2019. Please refer to the answer to the question directly above about the impact of

the videoconference network closure on Tuzzy's ability to train village library staff and on the College's use of Zoom to provide classes for distance students.

- o The libraries in Craig, Metlakatla, and Tenakee Springs did not do any videoconferences or come up with an alternative to OWL for July through December. Craig did 12, Metlakatla did 13, and Tenakee Springs did 10 videoconferences during FY2019.
- o The library in Glennallen, which used OWL 51 times in FY2019, dialed directly over the OWL videoconference bridge into the conversational French class held weekly in Juneau. This was a point-to-point connection, which allows just two sites to use the bridge for meetings, rather than the multiple sites that can use the bridge as it was in FY2019.
- o The library in Kenai, which used the network 10 times in FY2019, used GoToMeeting to attend an IRS Readiness Workshop. They used a laptop, speakers and the OWL screen for this event.

- **What are the alternatives to OWL for videoconferencing? What bandwidth requirements (if any) do they have? Pros/cons?**
  Alternatives to OWL include Zoom, GoToMeeting, Skype and other comparable meeting services. Zoom, for example, offers four different plans with costs ranging from no cost for a personal account to $20 a month for a large enterprise account with 500 or more participants. Each person would need a laptop, a web camera, speakers or a phone to use Zoom. There are also bandwidth requirements, reported as 3G or 4G/LTE. Zoom provides the best option for individuals to meet from their computers using a webcam and speakers. It does entail more individual needs in terms of equipment and includes a monthly licensing fee.

  In order to successfully run an OWL videoconference, each public library needs to have at least a 1.5 mbps down and a 1.5 mbps up speed. Most libraries at this point have a great deal more than that set of speeds. It appears that public libraries with OWL videoconference endpoints have the bandwidth in place to support these three types of convening software packages.

  WEBEX
  Data Usage/Bandwidth Requirements: For an hour videoconference, WebEx could be expected to use 0.68 GB at an average connection speed of 1.5 Mbps.
  Pros:
  Compatible with the State of Alaska WebEx system.
  Commonly used by content providers and vendors
  Cons:
  Would need to purchase license to originate video conferences.
  Reference: WebEx Network Bandwidth Requirements from Cisco.

  ZOOM
  Data Usage/Bandwidth Requirements: For an hour videoconference, Zoom could be expected to use 0.68 GB at an average connection speed of 1.5 Mbps.
  Pros:
  Widely used by content providers.
  Free version available for DESKTOP web video conferencing.
  Cons:
  Requires purchase of server license to use with video endpoint.
  Reference: Zoom System Requirements from Zoom Support.

SKYPE
Data Usage/Bandwidth Requirements: For an hour videoconference, Zoom could be expected to use 0.68 GB at an average connection speed of 1.5 Mbps.
Pros:
Widely used by content providers.
Free version available for DESKTOP web video conferencing.
Cons:
Would need to acquire a Cisco Meeting Server to use Skype through video endpoint. Possibly a subscription to Skype For Business as well.
References:
How much bandwidth does Skype need? (Skype Support)
Integrating SX20 with Skype for Business (Cisco Community forum post)

- **What are the outputs for the contents on slide 14 of the presentation?**
  These services are usually supported by grants from the State Library, so each service submits an annual report with statistics. Statistics are listed below:

Summer Reading Program	FY2014	FY2019
Participating public libraries	61	53
Children	9,217	11,924
Teens	1,401	1,772
Adults	306	3,643

Alaska Digital Library for e-books and audiobooks	FY2014	FY2019
Items checked out	277,318	548,583

Alaska Books by Mail	FY2014	FY2019
Items checked out	10,842	4,968
Families served	228	312
Individuals served	520	717

SLED Databases	FY2018	FY2019
Full-text articles downloaded	810,656	948,269
EBSCO number of sessions	1,619,003	2,757,701
BrainPop number of sessions	296,398	952,351
Small Engine Repair number of sessions	76,359	94,159

Talking Book Center	FY2014	FY2019
Number of patrons served	960	46,349
Items checked out	630	48,484

Ready to Read Resource Center	FY2017	FY2019
Number of early literacy trainings	11	40
Number of attendees at these events	367	1,422

Kits of board books checked out	947	862

Alaska's Digital Archives	FY2014	FY2018
Total visits	396,030	750,669
Pages viewed	18,514,869	22,038,280

- **Provide the numbers of patrons attending local libraries that receive State funds**
  The Alaska State Library collects an annual report from every public library in the state that receives an annual public library assistance grant. This data is posted as an Excel spreadsheet from 1987 to date at: https://library.alaska.gov/dev/plstats.html. Item 11-2 shows the library visits total for each library.

  During FY2018, Alaskans visited their local libraries in-person a total of 3,065,865 times. This does not include the number of times patrons visited library web pages to use the library catalog or databases.

FY2019 School BAG Awards by District and School

School Name	Annual Cost of Internet	E-Rate Portion	School Portion	School BAG Portion
Alaska Gateway				
Dot Lake School	$218,400	$196,560	$1,025	$20,815
Eagle Community School	$218,400	$196,560	$5,595	$16,245
Mentasa Lake Katie John School	$81,744	$73,570	$2,356	$5,819
Walter Northway School	$82,788	$74,509	$2,365	$5,914
Tanacross School	$51,132	$46,019	$1,341	$3,772
Tetlin School	$51,132	$46,019	$2,426	$2,687
Total	**$703,596**	**$633,236**	**$15,108**	**$55,251**
Aleutian Region				
Adak School	$192,120	$172,908	$5,488	$13,724
Atka School	$192,120	$172,908	$4,018	$15,194
Total	**$384,240**	**$345,816**	**$9,505**	**$28,919**
Bristol Bay				
Bristol Bay M/H	$51,591	$31,314	$1,952.00	$18,325
Naknek	$51,591	$31,314	$1,952.00	$18,325
Total	**$103,182**	**$62,628**	**$3,904**	**$36,650**
Chatham				
Gustavus	$152,388	$121,910	$5,791	$24,687
Klukwan	$74,316	$59,453	$2,824	$12,039
Angoon	$33,000	$26,400	$1,254	$5,346
Total	**$259,704**	**$207,763**	**$9,869**	**$42,072**
Chugach				
Chenega Bay	$234,000	$210,600	$6,099	$17,301
Tatitlek	$133,680	$120,312	$9,980	$3,388
Whittier	$127,500	$114,750	$3,136	$9,614
Total	**$495,180**	**$445,662**	**$19,215**	**$30,303**
Dillingham				
Dillingham Elementary	$73,264	$51,692	$1,659	$19,913
Total	**$73,264**	**$51,692**	**$1,659**	**$19,913**
Iditarod				
Blackwell	$206,820	$165,456	$17,052	$24,312
David Louis Memorial	$206,820	$165,456	$22,196	$19,168
Holly Cross	$206,820	$165,456	$29,340	$12,024
McGrath Elem. & HS	$206,820	$165,456	$17,054	$24,310
Innoko River	$206,820	$165,456	$29,460	$11,904
Top of the Kuskokwim	$206,820	$165,456	$17,052	$24,312
Takotna Community	$206,820	$165,456	$22,196	$19,168
Total	**$1,447,740**	**$1,158,192**	**$154,350**	**$135,198**
Kenai Peninsula				
Hope	$34,368	$24,058	$4,278	$6,033
Marathon	$3,300	$2,310	$907	$83

Total	**$37,668**	**$26,368**	**$5,185**	**$6,115**
Kodiak Island				
Chiniak	$202,416	$161,933	$14,537	$25,946
Total	**$202,416**	**$161,933**	**$14,537**	**$25,946**
Kuspuk				
Aniak Jr. Sr. High	$466,560	$419,904	$6,750	$39,906
Auntie Mary Nicoli	$466,560	$419,904	$4,500	$42,156
Crow Village Sam	$466,560	$419,904	$8,160	$38,496
George Morgan Sr. High	$480,756	$432,680	$7,149	$40,927
Gusty Michael	$466,560	$419,904	$6,420	$40,236
Jack Egnaty Sr.	$466,560	$419,904	$8,160	$38,496
Johnnie John Sr.	$466,560	$419,904	$8,160	$38,496
Joseph & Olinga Gregory	$480,756	$432,680	$4,766	$43,310
Zackar Levi	$480,756	$432,680	$4,766	$43,310
Total	**$4,241,628**	**$3,817,465**	**$58,830**	**$365,333**
Lake & Peninsula				
Chignik Bay	$87,366	$78,630	$8,316	$421
Chignik Lagoon	$87,366	$78,630	$8,316	$421
Chignik Lake	$87,366	$78,630	$8,316	$421
Iguigig	$87,366	$78,630	$8,316	$421
Kokhanok	$87,366	$78,630	$8,316	$421
Levelock	$87,366	$78,630	$8,316	$421
Newhalen	$87,366	$78,630	$8,316	$421
Nondalton	$87,366	$78,630	$8,316	$421
Perryville	$87,366	$78,630	$8,316	$421
Pilot Point	$87,366	$78,630	$8,316	$421
Port Alsworth	$87,366	$78,630	$8,316	$421
Port Heiden	$87,366	$78,630	$8,316	$421
Total	**$1,048,395**	**$943,555**	**$99,792**	**$5,047**
Pribilof				
St. Paul	$139,200	$111,360	$11,167	$16,673
Total	**$139,200**	**$111,360**	**$11,167**	**$16,673**
St. Mary's				
St. Mary's Schools	$428,232	$385,409	$29,540	$13,283
Total	**$428,232**	**$385,409**	**$29,540**	**$13,283**
Southeast Island				
Kasaan	$36,624	$29,299	$5,610	$1,715
Port Alexander	$84,132	$67,306	$15,552	$1,274
Howard Valentine	$52,332	$41,866	$8,420	$2,047
Whale Pass	$206,364	$165,091	$15,552	$25,721
Hollis	$37,716	$30,173	$5,994	$1,549
Hyder	$206,364	$165,091	$15,552	$25,721
Total	**$623,532**	**$498,826**	**$66,679**	**$58,027**
Southwest Region Schools				

William "Sonny" Nelson	$307,800	$277,020	$9,049	$21,731
Koliganek	$480,780	$432,702	$20,112	$27,966
"Chief" Ivan Blunka	$596,100	$536,490	$20,112	$39,498
Togiak	$596,100	$536,490	$20,112	$39,498
Twin Hills	$423,120	$380,808	$9,049	$33,263
Total	**$2,403,900**	**$2,163,510**	**$78,434**	**$161,956**
Tanana				
Maudrey J Sommer	$418,008	$334,406	$42,358	$41,244
Total	**$418,008**	**$334,406**	**$42,358**	**$41,244**
Unalaska				
Unalaska City	$244,496	$146,698	$46,968	$50,831
Total	**$244,496**	**$146,698**	**$46,968**	**$50,831**
Yukon Flats				
John Fredson	$159,840	$143,856	$14,880	$1,104
Circle	$159,840	$143,856	$14,880	$1,104
Cruikshank	$159,840	$143,856	$14,880	$1,104
Tsuk Taih	$159,840	$143,856	$14,880	$1,104
Arctic Village	$159,840	$143,856	$14,880	$1,104
Total	**$799,200**	**$719,280**	**$74,400**	**$5,520**
Yukon-Koyukuk				
Allakaket	$159,840	$127,872	$16,200	$15,768
Andrew K Demoski	$192,000	$153,600	$16,200	$22,200
Ella B Vernetti	$192,000	$153,600	$12,690	$25,710
Gladys Dart	$192,000	$153,600	$12,690	$25,710
Johnny Oldman	$192,000	$153,600	$12,690	$25,710
Kaltag	$192,000	$153,600	$15,012	$23,388
Merriline A Kangas	$192,000	$153,600	$15,012	$23,388
Minto	$192,000	$153,600	$16,200	$22,200
Rampart	$159,840	$127,872	$12,691	$19,277
Total	**$1,663,680**	**$1,330,944**	**$129,385**	**$203,351**
Yupiit				
Akiak School	$434,916	$391,424	$38,040	$5,452
Tuluksak School	$434,916	$391,424	$23,028	$20,464
Total	**$869,832**	**$782,849**	**$61,068**	**$25,915**
Grand Total	**$16,587,093**	**$14,327,592**	**$931,954**	**$1,327,548**

2019 Alaska Zip Code Usage of Live Homework Help by Town (Based on Users Who Recorded their ZIP Codes)		
Town	**Zip Codes**	**LHH Sessions**
Anchorage	99501 - 99538	4612
Aniak	99557	1
Atqasuk	99791	8
Barrow	99723	8
Bethel	99559	20
Brevig Mission	99785	12
Chalkyitsik	99788	1
Chitina	99566	1
Chugiak	99567	45
Clam Gulch	99568	1
Clear	99704	2
Cooper Landing	99572	2
Copper Center	99573, 99593	4
Cordova	99574	13
Craig	99921	1
Delta Junction	99737	2
Dillingham	99576	27
Douglas	99824	1
Eagle River	99577	156
Eielson AFB	99702	57
Emmonak	99581	2
Fairbanks	99701, 99708 - 99712, 99775	201
Fort Wainwright	99703	41
Glennallen	99588	36
Haines	99827	3
Healy	99743	38
Holy Cross	99602	49
Homer	99603	171
Hope	99605	2
Houston	99694	6
Juneau	99801 - 99803	425
Kake	99830	3
Kasilof	99610	40
Kenai	99611	230
Ketchikan	99901	17
King Salmon	99613	1

Kodiak	99615	264
Kotzebue	99752	1
Marshall	99585	1
Moose Pass	99631	23
Mountain Village	99632	1
Nikiski	99635	3
Ninilchik	99639	3
Nome	99762	75
North Pole	99705	40
Ouzinkie	99644	1
Palmer	99645	46
Petersburg	99833	1
Saint Marys	99658	1
Scammon Bay	99662	1
Seward	99664	21
Sitka	99835	423
Skagway	99840	10
Soldotna	99669	447
Sterling	99672	2
Sutton	99674	1
Takotna	99675	1
Talkeetna	99676	1
Thorne Bay	99919	1
Togiak	99678	2
Tuluksak	99679	8
Valdez	99686	1
Wasilla	99623, 99629, 99654, 99687	771
Wrangell	99929	15
TOTAL		**6,331**

FY2015 - FY2019 OWL Videoconferences (VCs) by Public Library						
	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Number of videoconferences (VC) hosted on OWL	460	365	481	393	271	1970
Number of libraries that dialed into these VCs	819	631	958	690	559	3657
Number of libraries joining at least one VC that year	56	55	51	44	42	248

Library	VCs attended	VCs attended	VCs attended	VCs attended	VCs attended	Total by Library
Anaktuvuk Pass	1	6	20	16	35	78
Anchor Point	0	0	0	1	0	1
Anchorage (5 libraries)	30	15	25	10	9	89
Aniak	2	0	0	39	33	74
Atqasuk	1	5	21	11	22	60
Bethel	8	2	9	4	0	23
Big Lake	3	7	9	0	1	20
Coffman Cove	2	14	4	0	0	20
Cooper Landing	0	1	0	0	0	1
Cordova	3	1	7	1	0	12
Craig	110	41	32	10	12	205
Delta Junction	2	1	4	1	0	8
Dillingham	1	3	8	2	0	14
Eagle	1	0	1	0	0	2
Fairbanks (2 libraries)	15	30	78	34	1	158
Glennallen	38	35	55	46	51	225
Gustavus	12	3	4	0	5	24
Haines	34	13	17	3	1	68
Healy	No endpoint	1	0	0	0	1
Hollis	11	4	0	1	0	16
Holy Cross	1	0	0	0	0	1
Homer	19	8	19	3	6	55
Hoonah	15	13	0	0	0	28
Hyder	1	0	0	3	1	5
Igiugig	0	0	0	0	1	1
Juneau (3 libraries)	27	14	14	4	4	63
Kaktovik	2	6	12	8	9	37
Kenai	37	8	17	4	10	76
Ketchikan	34	49	23	15	9	130
Klukwan	0	0	0	0	1	1
Kodiak	12	6	8	3	5	34
Kotzebue	9	1	29	1	0	40
McGrath	21	1	2	0	1	25
Metlakatla	0	7	4	4	13	28
Moose Pass	2	0	0	1	0	3
Naknek	0	5	8	4	3	20
Nenana	8	15	5	0	0	28
Ninilchik	0	0	0	2	0	2
Nome	14	7	2	1	0	24
Nuiqsut	2	4	12	18	10	46
Palmer	10	3	6	6	2	27
Petersburg	2	3	7	0	0	12
Point Hope	2	6	19	47	13	87
Point Lay	1	5	11	23	24	64

Library	VCs attended	VCs attended	VCs attended	VCs attended	VCs attended	Total by Library
Port Lions	1	0	3	0	0	4
Selawik	0	2	0	0	0	2
Seldovia	4	0	0	1	0	5
Seward	34	24	13	2	10	83
Shageluk	4	4	0	0	0	8
Sitka	11	3	3	0	1	18
Skagway	8	4	4	0	3	19
Soldotna	2	1	10	1	5	19
St. George	0	0	7	0	0	7
St. Paul	0	0	2	0	0	2
State Library - Anchorage Office	68	43	Closed	Closed	Closed	111
State Library - Juneau	112	61	150	83	80	486
Sutton	3	22	16	1	5	47
Talkeetna	5	8	5	3	5	26
Tenakee Springs	0	1	0	0	10	11
Thorne Bay	4	21	5	0	0	30
Togiak	1	1	0	0	0	2
Trapper Creek	2	2	2	1	2	9
Unalaska	23	13	4	1	2	43
Utqiagvik	21	57	201	217	127	623
Valdez	15	10	9	0	4	38
Wainwright	2	5	3	44	9	63
Wasilla	0	0	4	1	7	12
Willow	2	2	1	1	3	9
Wrangell	4	4	8	3	2	21
Total by Year	**819**	**631**	**942**	**685**	**557**	**3634**

These 21 libraries did not join any of the OWL videoconferences from FY2015 - FY2019		
Akiachak	Grayling	Pelican
Akiak	Kasilof	Sand Point
Anvik	Kenny Lake	Scammon Bay
Chiniak	Koyuk	Tanana
Cold Bay	Lake Minchumina	Tok
Egegik	Nikolai	Tuluksak
Galena	Ouzinkie	Whale Pass

OWL Videoconferences by Region FY2015 - FY2019	
Interior	456 (13%)
Northern	1,124 (31%)
Southcentral	683 (19%)
Southeast	1,185 (33%)
Southwest	186 (15%)