

CART Revised Technology Refresh Plan 2010-2015 – Executive Summary – May 11, 2010

Goal	To keep CART at the forefront of technology within a context of financial stewardship
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The CART JPA Board approved the original CART Technology Refresh Plan (TRP) in April 2006 to address CART's aging technology infrastructure. The original TRP included an augmented funding from the partner districts to cover costs above and beyond the general CART and ROP budgets. The original plan spanned the years of 2006-07 to 2010-11 (*see Table 2*).

Changing technology and economic conditions necessitate an update to the CART Technology Refresh Plan. This revised TRP spans the school years of 2010-11 to 2014-2015.

The Revised Technology Refresh Plan (2010-2015) includes:

- An increase of 126 student computers to accommodate an increase in student enrollment;
- A refresh plan for Networking and AV equipment not included in the original plan; and
- A strategy to smooth out the purchasing 'bubble' (*see Appendix A*).

Key Savings included in the Revised Technology Refresh Plan (2010-2015):

- Use of high-end mini-books (\$710) instead of mid-range laptop (\$1400) for labs not needing high-end video or large displays
- Leverage Microsoft agreements for MS Office (CUSD and FUSD). This saves about \$60 per machine.
- Leverage Adobe seat licensing (volume licensing through ROP). This saves about \$50 per machine.
- Leverage best pricing from partner districts for hardware (CUSD and FUSD)
- AV and Networking multi-year pricing – CART was able to save 45% off the last network upgrade because the equipment was purchased in volume.
- Server technology optimization – CART is considering using the Microsoft Live@EDU service instead of increasing our internal storage options
- Savings in annual Internet costs by using FUSD's fiber line to FCOE, as well as 10 times increase in Internet speed.

Proposed Feedback Loop and Monitoring:

- Revisit the Technology Refresh plan annually. At the end of every school year, CART staff will update the 5 year projection.
- Partner district technology departments will meet annually to review projections, brainstorm ideas and identify possible cost savings.
- CART Staff will report annually to the CART board regarding any revisions to the refresh plan.

Request of the CART JPA Board:

- Approval of the CART Technology Refresh Plan (2010-2015), including the flexibility to use the CART reserve accounts for technology needs, not to exceed the projected amounts (*see Table 1*). There would be no additional contribution from the partner districts through 2015.
- CART general reserve to not fall below 8%.
- Beginning with the 2015-2016, it is projected that both partner districts would need to fund approximately \$100,000 to continue the CART Technology Refresh Plan.

Table 1: Proposed Technology Refresh Plan (2010-2015)

Expense		2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	Total
	Student Computers		\$ 277,250	\$ 247,800	\$120,300	\$ 160,000	\$ 28,000
Fixed Costs		\$ 90,378	\$ 90,378	\$ 90,378	\$ 90,378	\$ 90,378	\$ 451,892
Network (5 year cycle) Next update in 2012-13		\$ 39,721	\$ 39,721	\$ 39,721	\$ 39,721	\$ 39,721	\$ 198,605
AV Refresh (7 yr cycle) Next update in 2015-16		\$ 19,429	\$ 19,429	\$ 19,429	\$ 19,429	\$ 19,429	\$ 97,143
Total		\$ 426,778	\$ 397,328	\$ 269,828	\$ 309,528	\$ 177,528	\$ 1,580,990
Funding Source	CART General Budget	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000
	CART ROP	\$ 160,100	\$ 120,000	\$ 56,400	\$ 160,000	\$ 28,000	\$ 524,500
	CART Foundation	\$ -	\$ -	\$ -	\$ -	\$ -	
	CART Reserve Account General Fund	\$ 236,678	\$ 247,328	\$ 183,428	\$ 55,566	\$ -	\$ 723,000
	CART Special Reserve Account	\$ -	\$ -	\$ -	\$ 63,962	\$ 119,528	\$ 183,490

Components of the CART Technology Refresh Plan:

- **Network Refresh** – The network was refreshed in 2006-2007 with a one-time purchase. This resulted in significant savings over purchasing the same equipment year over year (approximately 45% discount).
- **AV Refresh** – The AV system (theater and primary controllers) has a similar need to be refreshed, though on a longer timeframe.
- **Cost Savings** – As technology evolves, there is a need to look for opportunities to leverage new technology. For example, CART will not refresh the current analog AV distribution system as it currently exists, but look to distribute media over the IP (Internet Protocol) network.

Comparison to Previous Technology Plan:

Compared to the previous technology refresh plan, the current plan saves \$510,654 over 5 years, includes more student computers, includes a refresh plan for AV systems, and levels issues related to the 'bubble' (see Appendix A).

Table 2: CART's Original Technology Refresh Plan - Approved Spring 2006 (2006-2011)

	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	Total
Total	\$ 620,984	\$ 399,575	\$ 236,055	\$ 229,175	\$ 605,855	\$ 2,091,644
CART General Fund	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000
CART ROP	\$ 133,875	\$ 128,875	\$ 106,375	\$ 106,375	\$ 145,375	\$ 620,875
CART Foundation	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000
Districts	\$ 427,109	\$ 210,700	\$ 69,680	\$ 62,800	\$ 400,480	\$ 1,170,769

Appendix A - The Bubble

The original refresh plan (April, 2006) required the immediate purchase of a large number of student laptops. While this large purchase was necessary, when CART staff looked at extrapolating the Technology Refresh Plan into future years, it resulted in two years of significantly higher costs than the other 3 years of the plan (See Table 3, 2010-2011 and 2011-2012).

In addition to the large number of computers purchased in 06-07 and 07-08, CART has increased the number of students served in each lab. This magnified the effect of the Bubble.

CART increased the number of students in non-ROP labs, which also contributed to making the impact of the Bubble more severe to the general CART budget.

Table 3: Costs associated with projecting the original Technology Refresh Plan out through 2014.

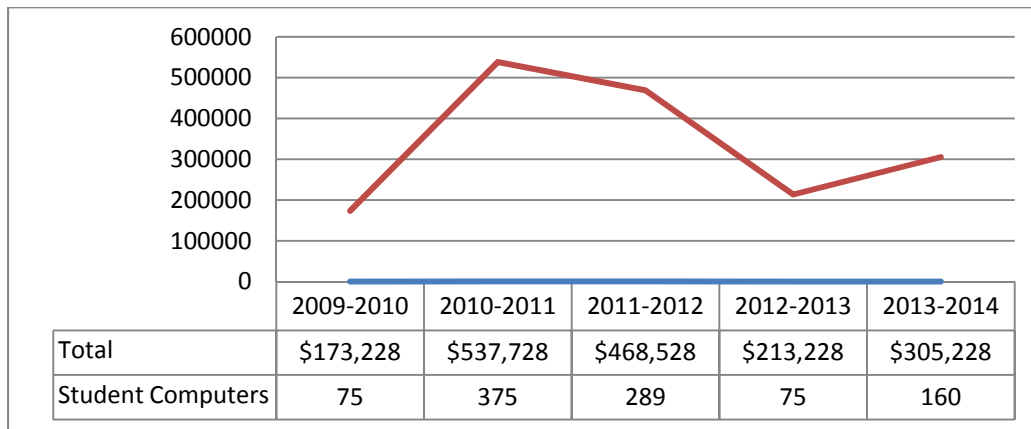


Table 4: Comparison of Original Technology Refresh Plan with Revised Technology Refresh Plan

