

March 2009 Rhode Island Technology Capacity Survey - DETAILED REPORT

QUESTION		Statewide (Percent: of 298 schools or 38 districts)	Districts (Total: 38)	School levels						
				Elementary (K-5)		Middle (6-8)		High (9-12)		
Category	Data point			Schools (total: 191)	Percent	Schools (total: 52)	Percent	Schools (total: 55)	Percent	
Technology Access and Systems to Support Integration	Number of students	141,138 (total)		64,572		29,485		44,987		
	Student to computer ratio	4.6 : 1		6.5 : 1		4.4 : 1		3.4 : 1		
	Student network storage space	0-99MB	49%		112	59%	15	29%	16	29%
		100MB -1GB+	48%		75	39%	27	52%	37	67%
	Acceptable Use Policy in place	92%	35							
	Percentage of teachers with dedicated computer	60% (of all teachers)	7290 (teachers total)	2559	50%	1843	65%	2815	69%	
	Policy in place for teachers to use school/district email address as main school communication	34%	13							
	Expectation that teachers use school/ district email address as primary school communication	50%	19							
	Teachers are expected to use an electronic gradebook	15% (schools) 29% (districts)	11	20	10%	11	21%	13	24%	
	Teachers have the option to use an electronic gradebook	31% (schools) 45% (districts)	17	47	25%	23	44%	22	40%	

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Category	Data point			Schools (total: 191)	Percent	Schools (total: 52)	Percent	Schools (total: 55)	Percent	
Computer Access	Computers per Classroom	Less than 1 computer	20%		38	20%	13	25%	9	16%
		1 computer	2%		5	3%	1	2%	1	2%
		Average of 2 computers	26%		50	26%	15	29%	13	24%
		Average of 3+ computers	14%		29	15%	4	8%	8	15%
		Average of 4+ computers	12%		21	11%	4	8%	11	20%
	In the Library	No Access	14%		30	16%	9	17%	4	7%
		Minimal Access	29%		77	40%	8	15%	1	2%
		Some Access	23%		51	27%	11	21%	6	11%
		Extensive Access	28%		27	14%	20	38%	37	67%
	Computer Labs	No computer labs	49%		135	71%	6	12%	5	9%
		1 computer lab	19%		37	19%	14	27%	6	11%
		2 computer labs	8%		0	0	17	33%	6	11%
		3 computer labs	4%		0	0	9	17%	4	7%
		4 or more computer labs	10%		0	0	2	4%	27	49%
	Mobile Classroom (15 laptops)	No mobile classrooms	47%		108	57%	20	38%	12	22%
		1 mobile classroom	18%		38	20%	11	21%	6	11%
		2 mobile classrooms	16%		29	15%	10	19%	10	18%
		3+ mobile classrooms	4%		3	2%	2	4%	8	15%
		4+ mobile classrooms	4%		2	1%	1	2%	9	16%

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Category	Data point			Schools (total: 191)	Percent	Schools (total: 52)	Percent	Schools (total: 55)	Percent	
Hardware/ Equipment	District replaces computers ONLY as part of a replacement cycle (with or without grants/donations)	24%	9							
	District replaces computers ONLY when they are broken (with or without grants/donations)	21%	8							
	District replaces computers in a cycle AND when broken (with or without grants/donations)	47%	18							
	Schools using at least one 4+ year old switch per school	66% (schools) 84% (districts)	32	129	68%	31	60%	38	69%	
	Number of computers (under 5 years old) available for student use	30493 (total)		9906 (computers)	32%	6647 (computers)	22%	13657 (computers)	45%	
	Number of computers with Internet access	30243 (total)		10421 (computers)	34%	6583 (computers)	22%	12956 (computers)	43%	
	Number of schools with at least one mobile computer lab	44% (schools) 79% (districts)	30	71	37%	25	48%	34	62%	
	Number of servers (2 yrs – 5 yrs old)* *(data taken from District Question 4)	83%* of all servers	618 servers* (total)							
	Physical servers available per location** **(data taken from District Question 6)	783 servers** (statewide)	22 servers** (per district)	207** (servers)	26% of total servers	128** (servers)	16% of total servers	194** (servers)	25% of total servers	
	Classrooms (per building) with wireless internet coverage	0-25%	52%	154 (schools total)	109	57%	21	40%	24	44%
		26-50%	7%	21 (schools total)	13	7%	3	13%	5	9%
		51-75%	5%	16 (schools total)	9	5%	4	8%	3	5%
76-100%		25%	75 (schools total)	41	21%	18	35%	16	29%	
Mobile Computer Lab only		8%	25 (schools total)	16	8%	3	6%	6	11%	

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Circuit (line) Speed Provided by RIDE through ERATE/ RITEAF	2008-2009	1.5 MB	13%		36	19%	3	6%		
		2 MB	10%		31	16%				
		3 MB	16%		39	20%	9	17%	1	2%
		4.5 MB	6%		7	4%	7	13%	5	9%
		5 MB	15%		38	20%	4	8%	4	7%
		10 MB	58%		33	17%	14	27%	11	20%
		20 MB	1%				1	2%	3	5%
		25 MB	2%				1	2%	6	11%
		30 MB	2%				1	2%	4	7%
		45 MB	2%				2	4%	4	7%
		50 MB	7%		14	7%	4	8%	2	4%
		60 MB	3%						8	15%
	Local fiber	2%				4	8%	1	2%	
	2009-2010	3 MB	26%		78	41%				
		5 MB	4%		11	6%				
		10 MB	28%		50	26%	22	42%	10	18%
		20 MB	14%		17	9%	6	12%	20	36%
		30 MB	2%		2	1%	1	2%	2	4%
		40 MB	1%				2	4%		
50 MB		19%		31	16%	11	21%	16	29%	
100 MB	1%						2	4%		
Local fiber	3%		2	1%	5	10%	1	2%		

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Amount of District Purchased Internet Access	2008-2009	1.5 MB	1%		2	1%				
		4 MB	4%		6	3%	2	4%	3	
		5 MB	3%		5	3%	2	4%	2	4%
		6 MB	16%		33	17%	9	17%	7	13%
		7 MB	3%		5	3%	2	4%	2	4%
		9 MB	6%		12	6%	3	6%	2	4%
		10 MB	10%		19	10%	5	10%	5	9%
		12 MB	7%		13	7%	4	8%	3	5%
		15 MB	4%		8	4%	2	4%	2	4%
		16 MB	7%		15	8%	3	6%	2	4%
		24 MB	13%		27	14%	6	12%	6	11%
		25 MB	8%		18	9%	3	6%	3	5%
		80 MB	15%		27	14%	7	13%	11	20%
	2009-2010	1.5-3 MB	1%		2	10%				
		2.5-5 MB	<1%		1	1%				
		4-8 MB	3%		5	3%	2	4%	2	4%
		5-10 MB	2%		4	2%	1	2%	1	2%
		6-12 MB	51%		33	17%	10	19%	8	15%
		7-14 MB	3%		7	4%	2	4%	2	4%
		9-18 MB	3%		6	3%	1	2%	1	2%
		10-20 MB	8%		16	8%	4	8%	5	9%
		12-24 MB	9%		18	9%	4	8%	4	7%
		14-28 MB	3%		4	2%	4	8%	1	2%
		15 MB	4%		8	4%	2	4%	2	4%
		18 MB	4%		9	5%	1	2%	1	2%
		21-42 MB	3%		6	3%	2	4%	1	2%
		24-48 MB	8%		17	9%	3	6%	3	5%
		25-50 MB	8%		18	9%	3	6%	3	5%
30 MB	5%		10	5%	3	6%	2	4%		
85-170 MB	15%		27	14%	7	13%	11	20%		

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Category	Data point			Schools (total: 191)	Percent	Schools (total: 52)	Percent	Schools (total: 55)	Percent
In-school Support System	Hardware maintenance	Part-time/full-time dedicated support staff	58%						
		Stipends to non-dedicated staff	9%						
		Student program	1%						
		Support staff receive no compensation	12%						
		None of the above	19%						
		TOTAL Support:	98%						
	Software support	Part-time/full-time dedicated support staff	54%						
		Stipends to non-dedicated staff	13%						
		Student program	1%						
		Support staff receive no compensation	11%						
		None of the above	18%						
		TOTAL Support:	98%						
	Curriculum integration	Part-time/full-time dedicated support staff	14%						
		Stipends to non-dedicated staff	7%						
		Student program	0						
		Support staff receive no compensation	8%						
		None of the above	11%						
		TOTAL Support:	40%						

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Category	Data point					Schools (total: 191)	Percent	Schools (total: 52)	Percent	Schools (total: 55)	Percent
Equipment and FTEs	Number of FTEs per district	Small district	Average	2							
			Range	2 - 7							
		Medium district	Average	3							
			Range	0.5 - 6							
		Large district	Average	8							
			Range	4 - 11							
	Statewide	Median	3								
		Range	.5 - 11								
	Number of computers per FTE	Small district	Average	119							
			Range	36 - 273							
		Medium district	Average	263							
			Range	67 - 713							
		Large district	Average	318							
			Range	156 - 552							
	Statewide	Median	171								
		Range	36 - 552								
	Number of computers per district	Small district	Average	355							
			Range	36 - 700							
		Medium district	Average	906							
			Range	268 - 1590							
		Large district	Average	2212							
			Range	1215 - 4421							
	Statewide	Median	588								
		Range	36 - 4421								

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			Schools (total: 191)	Percent	Schools (total: 52)	Percent	Schools (total: 55)	Percent		
Equipment and FTEs (cont.) <i>-Small district: below 3000 students</i> <i>-Medium district: 3000-5999 students</i> <i>-Large district: over 6000 students</i>	Number of FTEs per district	Small district	Average	2						
			Range	2 - 7						
		Medium district	Average	3						
			Range	0.5 - 6						
		Large district	Average	8						
			Range	4 - 11						
	Statewide	Median	3							
		Range	.5 - 11							
	Number of servers per district	Small district	Average	12						
			Range	2 - 27						
		Medium district	Average	24						
			Range	13 - 52						
		Large district	Average	64						
			Range	30 - 105						
	Statewide	Median	19							
		Range	2 - 105							
	Number of servers per FTE	Small district	Average	6						
			Range	2 - 14						
		Medium district	Average	9						
			Range	2 - 25						
		Large district	Average	9						
			Range	5 - 13						
	Statewide	Average	7							
		Range	2 - 25							

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Percent of FTE time spent on:	Student Information Systems	Mode	10%						
		Median	13%						
		Range	5% - 30%						
	Network administration	Mode	20%						
		Median	18%						
		Range	5% - 60%						
	Hardware maintenance	Mode	20%						
		Median	20%						
		Range	5% - 50%						
	Software maintenance	Mode	5%						
		Median	10%						
		Range	5% - 40%						
	Helping teachers integrate technology into classroom	Mode	5%						
		Median	5%						
		Range (large – small district)	0 – 80%						

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Data	Districts with written disaster recovery or business continuity plan in place	15%	6						
	Important data is backed up in a central district location	45%	17						
	Internet filtering through RINET/8e6 (Centralized)	76%	29						
	Number of schools using a course management system	31%		54	28%	16	31%	23	42%
	Participate in the consolidated library automation system (RILINK – Follet Destiny)	61%	23						
	Special education case management system	82%	31						
	Special education document management/preparation system	63%	24						
	Student information system (SchoolMax)	42%	16						
	Student information system (any)	100%	38						

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Professional Development Priorities	Assessing student competencies	Priority 1	36%		66	35%	21	40%	21	38%
		Priority 2	43%		81	42%	22	42%	26	47%
		Priority 3	13%		28	14%	4	8%	6	11%
	Assessment rubrics for technology literacy	Priority 1	11%		18	9%	11	21%	4	7%
		Priority 2	53%		93	49%	25	48%	41	75%
		Priority 3	28%		65	34%	12	23%	7	13%
	Understanding formative and summative assessment practices	Priority 1	43%		73	38%	26	50%	28	51%
		Priority 2	42%		84	44%	20	38%	20	36%
		Priority 3	10%		22	12%	2	4%	5	9%
	Using data analysis to inform instruction	Priority 1	57%		108	57%	29	15%	32	58%
		Priority 2	26%		52	27%	11	21%	13	24%
		Priority 3	12%		20	10%	7	13%	8	15%
	Basic technology skills for teachers	Priority 1	33%		61	32%	17	33%	19	35%
		Priority 2	45%		84	44%	23	44%	27	49%
		Priority 3	17%		35	18%	8	15%	7	13%
	Performance based assessment	Priority 1	44%		74	39%	24	46%	33	60%
		Priority 2	41%		82	43%	22	42%	18	33%
		Priority 3	8%		21	11%	2	4%	2	4%
	Task development	Priority 1	29%		43	23%	16	31%	27	49%
		Priority 2	46%		95	50%	23	44%	20	36%
		Priority 3	19%		41	21%	9	17%	6	11%
	Evaluating web sites and using online resources	Priority 1	13%		25	13%	6	12%	7	13%
		Priority 2	50%		90	47%	29	56%	29	53%
		Priority 3	32%		65	34%	13	25%	16	29%
	Technology literacy and technology integration into curriculum	Priority 1	33%		59	31%	19	37%	20	36%
		Priority 2	49%		91	48%	25	48%	30	55%
		Priority 3	13%		33	17%	4	8%	3	5%
Internet safety	Priority 1	21%		37	19%	17	33%	8	15%	
	Priority 2	57%		110	58%	23	44%	36	65%	
	Priority 3	17%		33	17%	8	15%	9	16%	

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Professional Development Priorities (continued)	Working with digital portfolios	Priority 1	21%		25	13%	9	17%	28	51%
		Priority 2	36%		72	38%	20	38%	16	29%
		Priority 3	36%		81	42%	19	37%	7	13%
	Communication (including home-school communication)	Priority 1	34%		60	32%	17	33%	25	45%
		Priority 2	49%		99	52%	27	52%	20	36%
		Priority 3	10%		20	10%	4	8%	7	13%
	Curriculum mapping / integration	Priority 1	36%		60	31%	19	37%	29	53%
		Priority 2	43%		87	46%	23	44%	19	35%
		Priority 3	12%		29	15%	4	8%	4	7%
	Differentiating instruction and multiple intelligences	Priority 1	49%		92	48%	24	46%	30	55%
		Priority 2	38%		72	38%	21	40%	20	36%
		Priority 3	6%		14	7%	2	4%	3	5%
	Improving instruction	Priority 1	68%		131	69%	35	67%	38	69%
		Priority 2	22%		43	23%	10	19%	13	24%
		Priority 3	3%		6	3%	1	2%	2	4%
	Improving writing	Priority 1	70%		132	69%	37	71%	39	71%
		Priority 2	20%		39	20%	9	17%	13	24%
		Priority 3	3%		8	4%	1	2%	1	2%
	Improving reading and literacy skills	Priority 1	72%		135	71%	37	71%	43	78%
		Priority 2	18%		38	20%	9	17%	7	13%
		Priority 3	4%		7	4%	1	2%	3	5%
	Instruction based on GLEs/GSEs	Priority 1	66%		122	64%	32	62%	44	80%
		Priority 2	21%		46	24%	11	21%	6	11%
		Priority 3	4%		8	4%	3	6%	2	4%
	Universal Design	Priority 1	22%		29	15%	16	31%	20	36%
		Priority 2	40%		79	41%	20	38%	20	36%
		Priority 3	28%		62	32%	10	19%	10	18%
Understanding by Design	Priority 1	22%		31	16%	17	33%	18	33%	
	Priority 2	37%		68	36%	22	42%	20	36%	
	Priority 3	28%		66	35%	7	13%	11	20%	

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Embed Technology Literacy	Our students take a separate technology literacy class, computer literacy class, or something similar.	Grades K-2	9%		18	9%				
		Grades 3-4	10%		19	10%				
		Grade 5	7%		13	7%				
		Grade 6	44%				23	44%		
		Grade 7	56%				29	56%		
		Grade 8	58%				30	58%		
		Grades 9-12	62%						34	62%
	We embed technology literacy instruction into our curriculum in various content areas.	Grades K-2	58%		111	58%				
		Grades 3-4	64%		122	64%				
		Grade 5	54%		104	54%				
		Grade 6	48%				25	48%		
		Grade 7	65%				34	65%		
		Grade 8	63%				33	63%		
		Grades 9-12	78%						43	78%
	We engage students in project based learning using digital technology tools.	Grades K-2	28%		53	28%				
		Grades 3-4	43%		83	43%				
		Grade 5	38%		72	38%				
		Grade 6	44%				23	44%		
		Grade 7	62%				32	62%		
		Grade 8	60%				31	60%		
		Grades 9-12	75%						41	75%
Technology literacy instruction is part of our media literacy program.	Grades K-2	29%		55	29%					
	Grades 3-4	36%		69	36%					
	Grade 5	31%		59	31%					
	Grade 6	37%				19	37%			
	Grade 7	42%				22	42%			
	Grade 8	42%				22	42%			
	Grades 9-12	45%						25	45%	

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Systems and Supports for Technology Literacy	Schools assisting students to create digital portfolios of their work	20% (schools) 74% (districts)	28	21	11%	6	12%	33	60%
	Schools using a test to assess students' technology literacy skills	22% (schools) 76% (districts)	29	13	7%	33	63%	19	35%
	Schools using rubrics to assess students' digital portfolio work	21% (schools) 63% (districts)	24	18	9%	11	21%	35	64%
	Technology instruction is embedded into the curriculum	74% (schools) 95% (districts)	36	139	73%	37	71%	46	84%
	Technology instruction is part of the media literacy program	44% (schools) 76% (districts)	29	77	40%	26	50%	27	49%
	Technology implementation occurs within project based learning	54% (schools) 89% (districts)	34	85	45%	34	65%	43	80%
	Technology instruction takes place in a specific class or course	29% (schools) 89% (districts)	34	14	7%	36	69%	35	64%

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Effect of district technology at home	Parents have access to student grades through district technology	53%	20						
	Parents have access to student homework through district technology	50%	19						
	Districts contact parents using auto-dial to homes	79%	30						
	Districts contact parents using email announcements	79%	30						
	Districts contact parents using text messages	53%	20						
	District conducted survey of students with home internet access	10% (schools) 18% (districts)	5 – partial 2 – full	22	12%	5	10%	3	5%