



Digital Connections Partnership Schools Grant (DCPSG) Program Years 1-3 (Internal Infrastructure Projects Only)

	Districts (#)	Schools (#)	Students (#)	State Funds (\$)	Local Match (\$)	Total (\$)
FY2015	17	47	24,649	\$3,191,104	\$1,802,452	\$3,191,104
FY2016	12	27	13,567	\$818,418	\$538,882	\$1,357,300
FY2017	17	55	30,089	\$775,384	\$1,107,421	\$1,882,806
Total	46	82	68,305	\$4,784,906	\$3,448,755	\$6,431,210



Digital Connections Partnership Schools Grant (DCPSG) Program 5 Year Capital Plan

Internal Infrastructure

- **1,747** schools surveyed to determine category 2 need
 - **717** responses; **40%** response rate
 - **302** schools with estimated infrastructure need
 - **\$7.45m** TPC (total project cost) for the 302 schools

External Infrastructure

- **10% FCC match** for “special construction” may not be available past FY18
 - **\$6-9m** cost to build out fiber to schools in need, according to Education Superhighway
 - **\$600-\$900k** needed for state to leverage FCC match across projects

Outstanding Issues and Considerations

- 60% of districts were nonresponsive and not represented in the internal infrastructure estimate
- Charter schools are represented in our internal infrastructure estimate, which may not be eligible
- Some districts in need will likely take on infrastructure enhancements outside of this program



Methodology for Calculating the 10% State Match for External Infrastructure Costs

The State Match was calculated by identifying school campuses that would potentially need fiber construction, and then estimating the cost to build to each of these sites.

Step	Process	Result
1. Identify WAN and IA fiber builds	Determined fiber builds using: 1. 2016 E-rate data 2. Calls to individual districts (e.g. project and data clarification)	170 builds
2. Determine total mileage for fiber build	For each district, calculated the distance from the non-fiber school to a connection point using MA-specific information such as local provider maps	124 – 286 miles
3. Estimate total cost of build	Used average cost/mile for state* total miles to nearest fiber facility	\$6M - \$9.1M
4. Estimate State Match	For each campus, applied district level E-rate % to total build, and then extracted 5% or 10% for State Match	\$598k - \$897k