

Puerto Rico District-Wide Master Plan and Educational Specifications

As a result of devastation caused by Hurricanes Irma and Marie in 2017, the earthquake in 2020, and the pandemic, an unprecedented federal investment of \$2.3 billion was put forth for the territory to rebuild its school system. Funding comes under the Bipartisan Budget Act with additional funding in process based on the more recent earthquakes and pandemic. DLR Group is developing a facilities master plan, working alongside the Puerto Rico Department of Education (PRDE), to inform future decision making and allocation of funding related to capital projects.

Workshops with educators, administrators, and community leaders served as the starting point to confirm the vision for learning connections between pedagogy and place. Assessments of all 857 schools and sites then followed and encompassed evaluating the existing infrastructure for vital learning and community connections, as well as the potential for sites to accommodate enhanced programs that align with PRDE's pillars (Montessori, STEM, Bi-Lingual, Arts, Athletics, CTE, Special Ed, and Resiliency). This data was then synthesized and used to equitably rank capital projects. Facilities were categorized by funding level and based on need: low (interventions), medium (modernizations), high (transformations/new construction).

Combining architectural precedence from the existing schools with the programmatic elements from early visioning, DLR Group developed key themes to develop a "kit of parts" approach to rebuilding PRDE's facilities. This approach quantifies interventions, modernizations, transformation, and new construction elements and their respective funding levels by *Learning* Connections, Community Connections, Inquiry Based Learning, Health and Wellness, Resiliency, Safety and Security, and Flexibility. To ensure proper implementation of educational specifications and capital projects, DLR Group is also developing design guidelines integrated within the master plan.

San Juan, Puerto Rico Puerto Rico Department of Education

Key Project Components

- · Data Driven
- Context & Culture
- FEMA and Industry Standards

Project Duration: February 2022 -August 2022 Size: 857 facilities Enrollment: 200,000 students Project Value for Overall Master Plan: \$8 Billion

Process and Decision-making

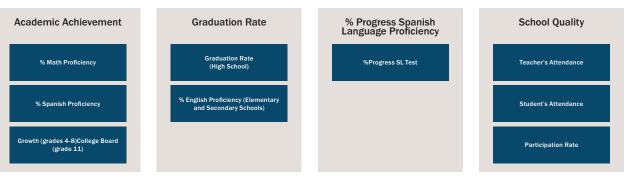


Key Components of the Master Planning Process

lectron 🔻	^r Municipality ^w	School Code	SchoolName	Year Buik	21st Century	Current Capacity from Template School Data"	2022-23 Projected Enrolment	Current Building Capacity divided by Projected Enrollment	Current Capacity from "Template School Data"	Assume 90% Utilization for Program Capacity	2022-23 Projected Enrolment	Current Program Capacity divided by Projected Enrollment	2022-23 Projected Enrolment	Projected School size	Projected Enrollment divided by Minimum enrollment for that school size.	×	Current Grade Level	Potential Grade Level - PK+5	Potential Grade Level - PK-6	Potential Grade Level - PK-8	Potential Grade Level - 6- 8	Potential Grade Level - PK-12	Grade Level - 6- 12	Potential Grade Level - 9- 12	COULD CURREN TLY ACCOMM ODATE	COULD ACCOMMODA TEINFUTURE	Future Grade Configurations divided by Current Grade Configurations	Current Enrolmen	
AECIBO	CAMUY	11023	ANTONIO REYES	1942	ND	558	292	191%	558	502	292	172%	292	595	49%		6-8	NO	NO	ND	ND	NO	ND	ND	1	0	0%	315	292
ONCE	VILLALBA	53256	FRANCISCO ZAYAS SANTANA	1974	YES	475	365	130%	475	428	365	117%	365	595	6t%		6-8	NO	NO	NO	ND	ND	NO	ND	1	0	0%	382	365
AECIBO	CAMUY	17327	SUPERIOR MIGUEL F SANTIAGO ECHEGARAY	1980	ND	340	247	138%	340	306	247	124%	247	595	41%		9-12	ND	ND	ND	ND	ND	NO	ND	1	0	0%	254	247
ONCE	VILLALBA	54862	ICROEV/ESPECIALIZADA EN CIENCIAS Y MATEMATICAS	1982	YES	310	219	142%	310	279	219	128%	219	595	37%		9-12	NO	NO	NO	ND	ND	ND	ND	1	0	0%	217	219
ONCE	GUANCA	57620	AUREA QUILES CLAUDIO	1992	ND	480	276	174%	480	432	276	156%	276	595	46%		9-12	ND	ND	NO	YES	YES	YES	YES	1	4	400%	277	276
ONCE	VILLALBA	58503	CRISTINA (AMADA) MARTINEZ MARTINEZ	1995	ND	520	410	127%	520	468	410	114%	410	595	69%		9-12	NO	NO	NO	YES	ND	YES	YES	1	3	300%	418	410
ONCE	VILLALBA	58180	LYSANDER BORRERD TERRY	2002	ND	1000	583	171%	1000	300	583	154%	583	595	36%		9-12	NO	ND	NO	YES	YES	YES	YES	1	4	400%	603	583
AECIBO	CAMUY	17384	LUISF CRESPO	1993	ND	1015	623	1637/	1015	914	623	147%	623	595	105%		9-12	NO	ND	ND	YES	ND	YES	YES	1	3	300%	650	623
AECIBO	CAMUY	11080	PEDRO AMADOR	1948	YES	236	143	164%	236	212	143	148%	143	520	28%		K-5	ND	ND	ND	ND	ND	ND	ND	1	0	0%	161	143
AECIBO	CANUY	10967	RALPH W EMERSON	1938	YES	444	357	124%	444	400	357	112%	357	520	63%		K-S	NO	NO	NO	NO	NO	NO	NO	1	0	0%	372	357
ONCE	GUANICA	50799	MARIA LIMC DOUGALL	1903	ND	367	115	319%	367	330	115	287%	115	520	22%		K-5	NO	NO	ND	ND	ND	ND	ND	1	0	0%	131	115
ONCE	VILLALBA		NORMA I TORRES COLON	1960	ND	350	167	210%	350	315	167	1897/.	167	520	32%		K-5	YES	YES	YES	YES	YES	YES	ND	1	5	500%	176	167
ONCE	GUANICA	50757	JOSE ROORIGUEZ SOTO	1903	YES	547	200	273%	547	492	200	246%	200	520	33%		K+8	ND	ND	ND	ND	ND	ND	ND	1	0	0%	211	200
RECIBO	CAMUY	10692	SU JOAQUIN VA2QUEZ CRUZ	1942	ND	537	262	205%	537	483	262	185%	262	520	50%		K-8	ND	ND	ND	ND	ND	ND	ND	1	0	0%	271	262
AECIBO	CANUY		SU SANTIAGO R PALMER	1910	NO	538	238	228%	538	484	238		238	520	46%		K-8	NO	NO	NO	ND	ND	NO	NO	1	0	0%	246	238
ONCE	VILLALBA	53140	SUHATILLO	1962	ND	580	369	157%	580	522	369	142%	369	520	71%		K-8	YES	YES	YES	YES	YES	NO	NO	1	5	500%	395	369
RECIBO	CAMUY	11756	LUIS FELIPE ROORIGUEZ GARCIA	2002	ND	775	482	161%	775	696	482	145%	482	520	93%		K-8	YES	YES	YES	YES	YES	NO	ND	1	5	500%	514	482
ONCE	GUANCA	50781	MAGUEYES I	1960	NO	192	84	223%	192	173	84	207%	84	520	16%		PK-5	NO	NO	NO	NO	NO	NO	NO	0	0	0%	88	84
ONCE	GUANCA	50690	ELSA E COUTO ANNON	1960	ND	176	105	167%	176	158	105	150%	105	520	20%		PK-5	NO	NO	NO	NO	ND	NO	ND	1	0	0%	105	105
ONCE	VILLALBA	58263	DANEL SERRAND RIVERA	2000	ND	433	339	128%	433	390	339	115%	339	520	65%		PK-5	NO	NO	NO	ND	ND	NO	ND	0	0	0%	351	339
ONCE	GUANICA	50773	LUISMUÑOZ RIVERA	1909	NO	176	64	274%	176	158	64	246%	64	520	12%		PK-5	NO	ND	NO	ND	ND	NO	ND	0	0	0%	63	64
AECIBO	CAMUY		AMALIA LOPEZ DE AVILA (NUEVA)	1998	NO	570	268	213%	570	513	268	191%	268	520	52%		PK-5	NO	NO	ND	ND	ND	ND	ND	1	0	0%	282	268
ONCE	VILLALBA	58495	RAMON LOPEZ BERRIOS	2005	ND	18S	93	200%	185	167	93	1907/.	93	520	18%		PK+5	YES	YES	YES	YES	YES	NO	ND	1	5	500%	92	93
ONCE	VILLALBA	54452	ISABEL ALVARADO ALVARADO	2015	NO	468	377	124%	468	421	377	112%	377	520	73%		PK-8	NO	ND	ND	ND	ND	ND	ND	1	0	0%	412	377

The framework for the Puerto Rico accountability system recognizes that school performance should be assessed within four overarching categories or indicators. Each indicator is described briefly below.

School Assessment Framework



Methodology for Recommendations (comprehensive collection of all input informing recommendations)



U.S. Virgin Islands Master Plan & Bridging Documents

St. Croix, USVI USVI Department of Education

The U.S. Virgin Islands (USVI) Department of Education selected DLR Group to conduct an educational facilities master plan that has set a new direction for education in the USVI. The master plan encompasses more than 2.7 million SF of educational space in 45 facilities, serving 10,700 students, across St. Croix, St. John, and St. Thomas. This portfolio of aging schools is rapidly deteriorating in the tropical environment and many buildings have been further damaged by the 2017 Category 5 hurricanes over the years. The four primary components of the master plan address spatial agility, school safety, sustainability, and community partnerships. These components are informed by a comprehensive set of guiding principles for learning environments in the USVI established by more than 45 stakeholders with multiple meetings over a 6-month duration. Participants included government officials, educational leaders, teachers, students, parents, community, and industry partners.

The scope involved the delivery of Master Plan Design Guidelines, building programs, sustainable and energy goals, and design concepts to create next generation learning environments on 18 consolidated campuses. Following a successful master planning effort, DLR Group was retained to complete design documents for the first five projects prioritized in the master plan. These bridging documents directly integrate ideas from the master plan and were issued as part of the request for proposals for design/build teams. Design and construction of new and modernized schools are phased with a target completion date of 2025.

View the completed master plan here. View a video about our process here.



Key Project Components

- Data Driven
- Context & Culture
- FEMA and Industry Standards

Project Duration: January 2020 June 2020 Size: 2.7 million SF, 45 facilities Enrollment: 10,700 students Project Value for Overall Master Plan: \$2 Billion

Space Curricula Alignment Scores

The total score is the product of assessments in six subcategories, tied to the space curricula alignment indicators outlined at right and displayed on each of the dashboards.

automatically received a score of 0%, as modulars do not provide future-facing solutions.

- Culture, Community Connections & Wayfinding

- 04. Learning Environments that Connect
- Flexible Space, Accommodations, Utilization & Adaptable Furniture for Day-to-Day Use and Over Time
- Natural Day-Lighting, Adjustable Lighting, Appropriate Acoustics, Thermal Comfort, Well Being & Engagement

approach to high performance design.

