

Puerto Rico Math and Science Partnership (AIACIMa)

Presentation to the PRMSP National Advisory Board Overview of Year One

Josefina Arce - Principal Investigator August 20, 2004

Core Partners



- UPR-Río Piedras
- UPR-Mayagüez
- UPR-Cayey
- UPR Humacao
- PUERTO PUERTO EN CO



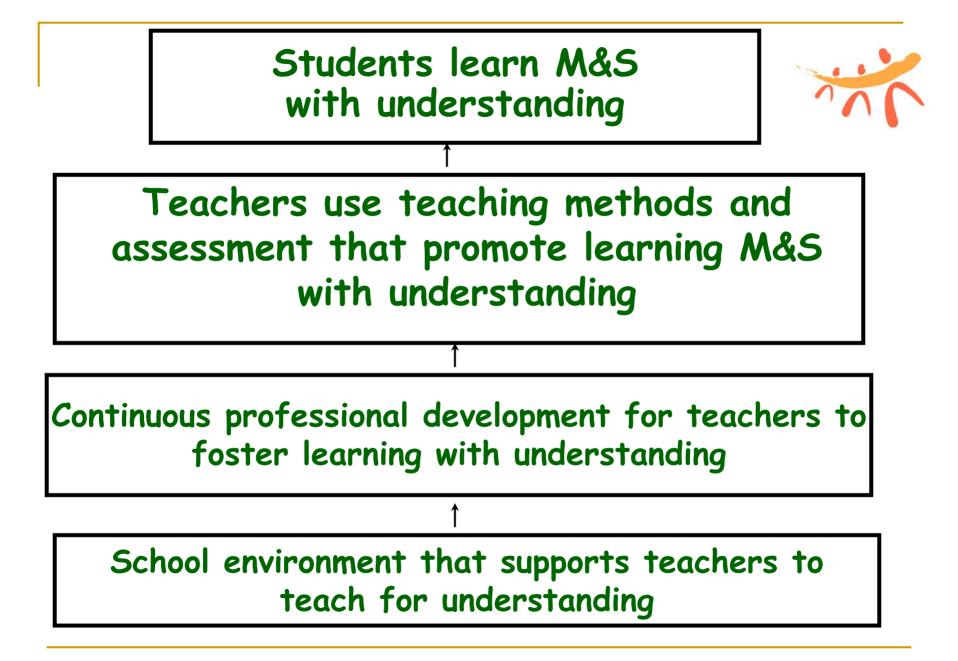


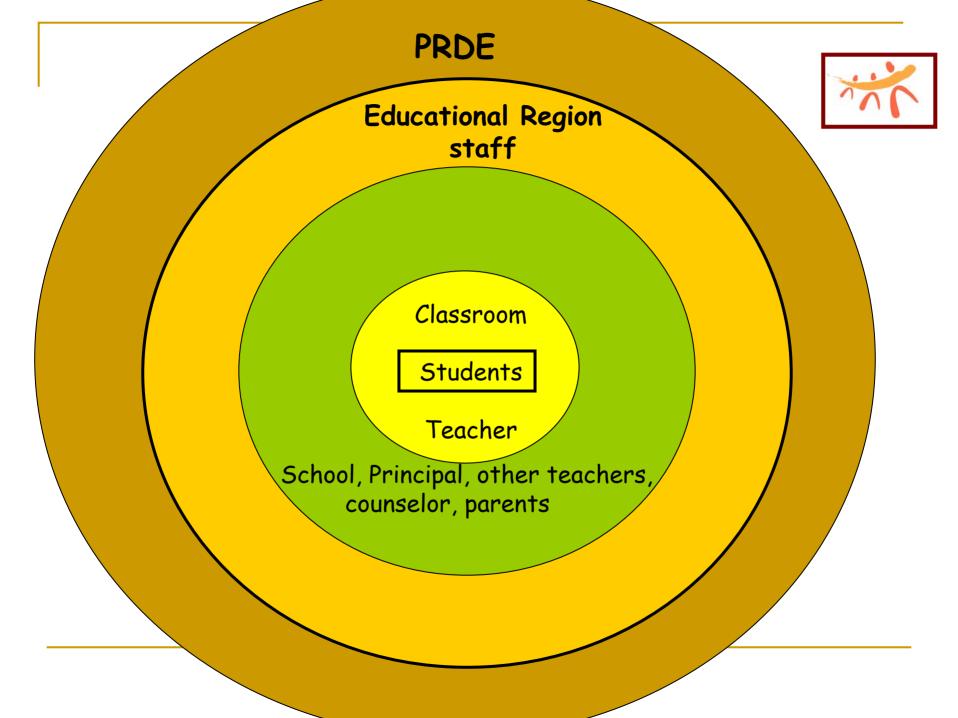
- PR Department of Education

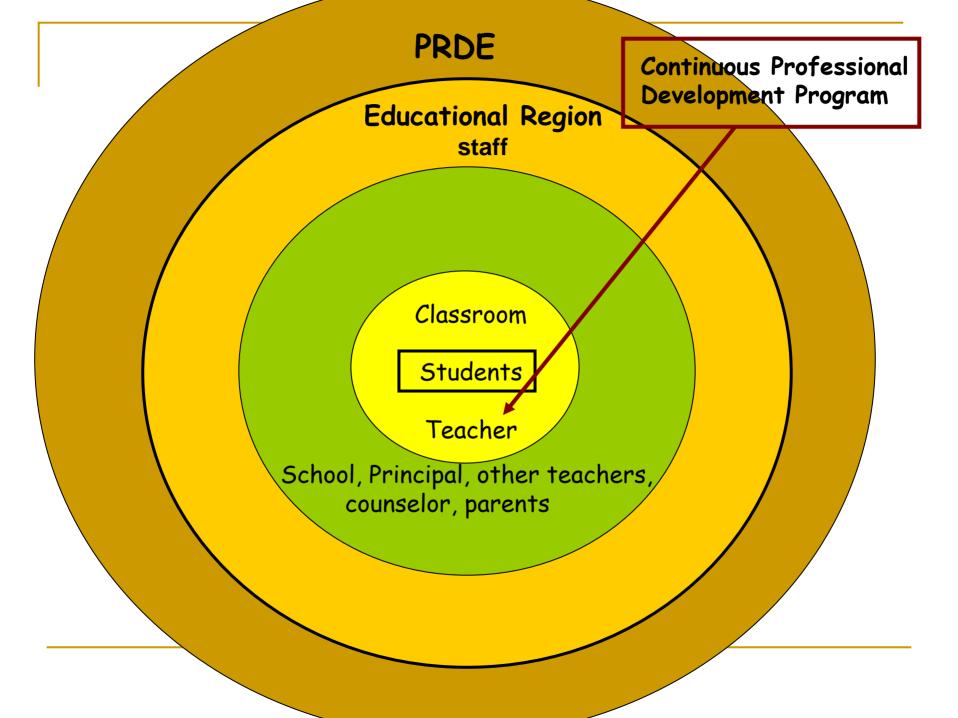


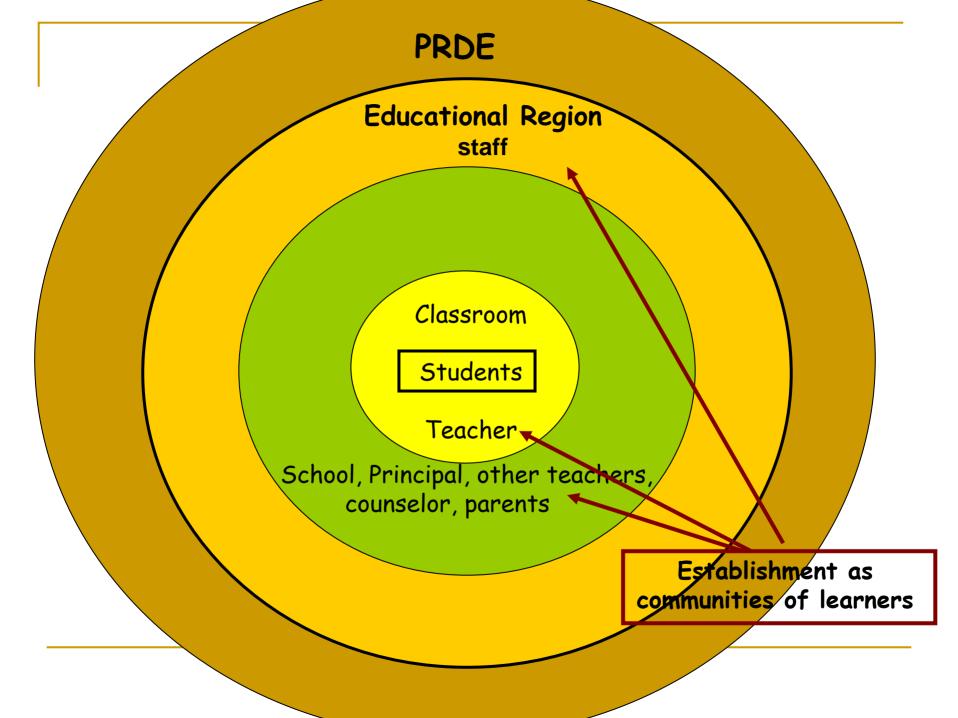


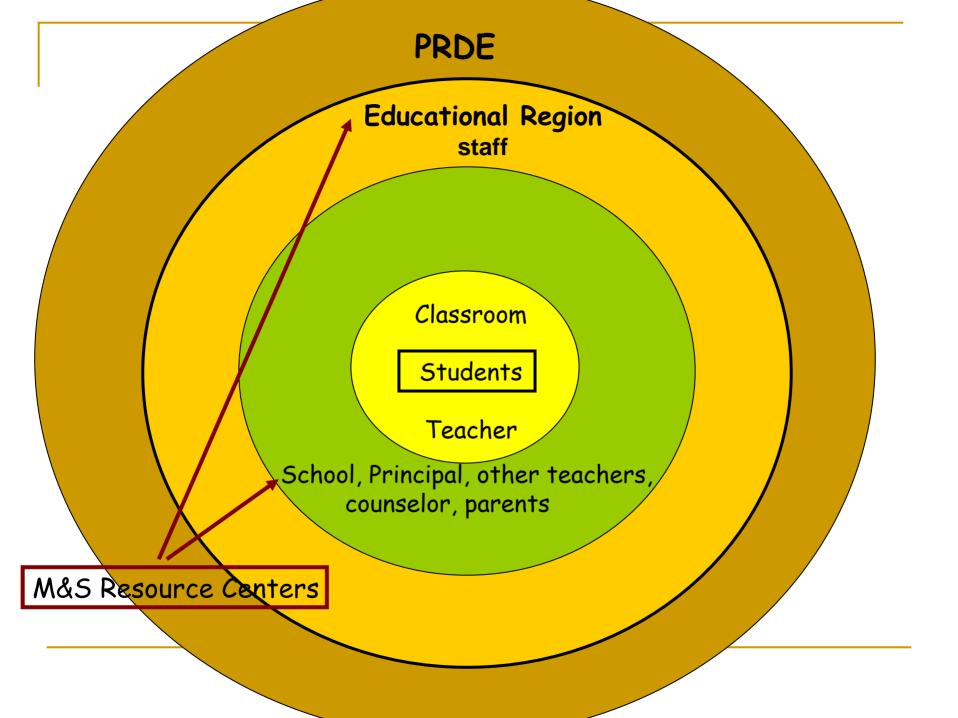
Learning Communities

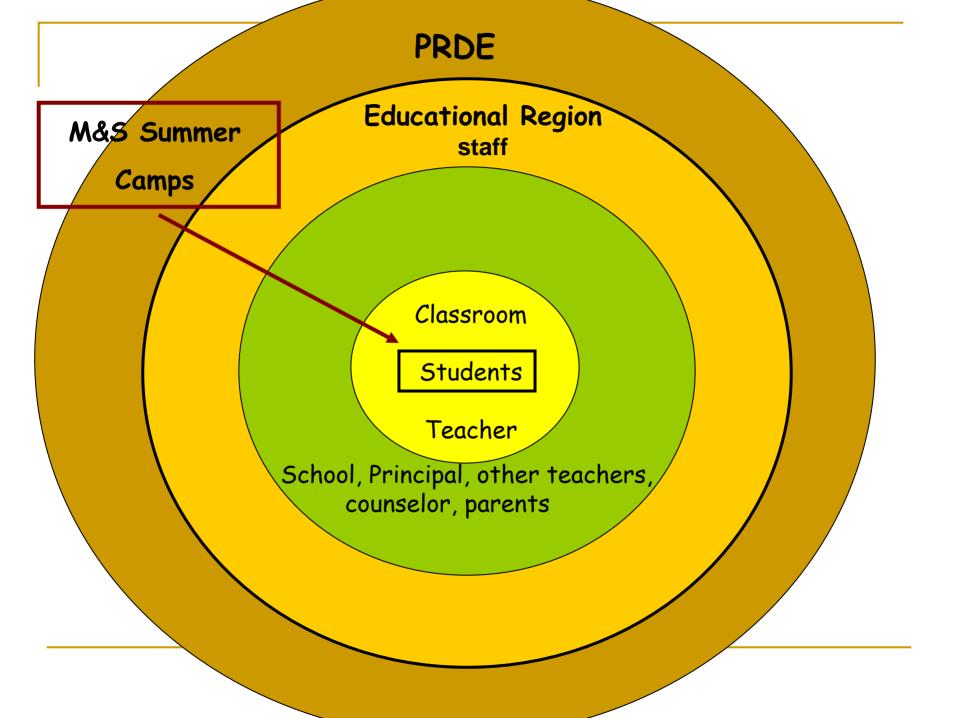


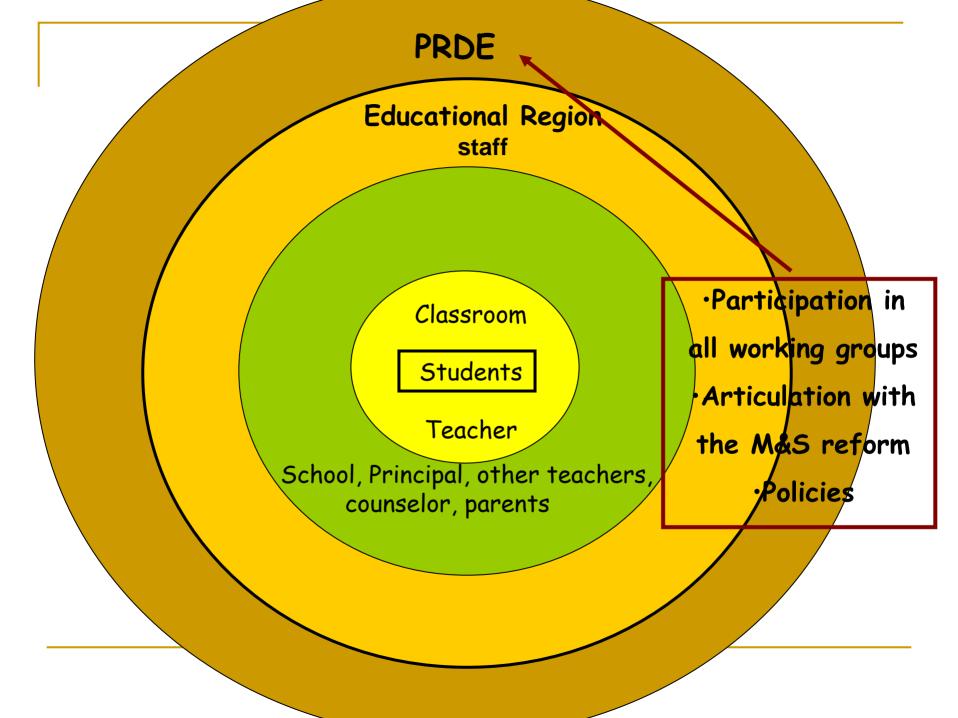


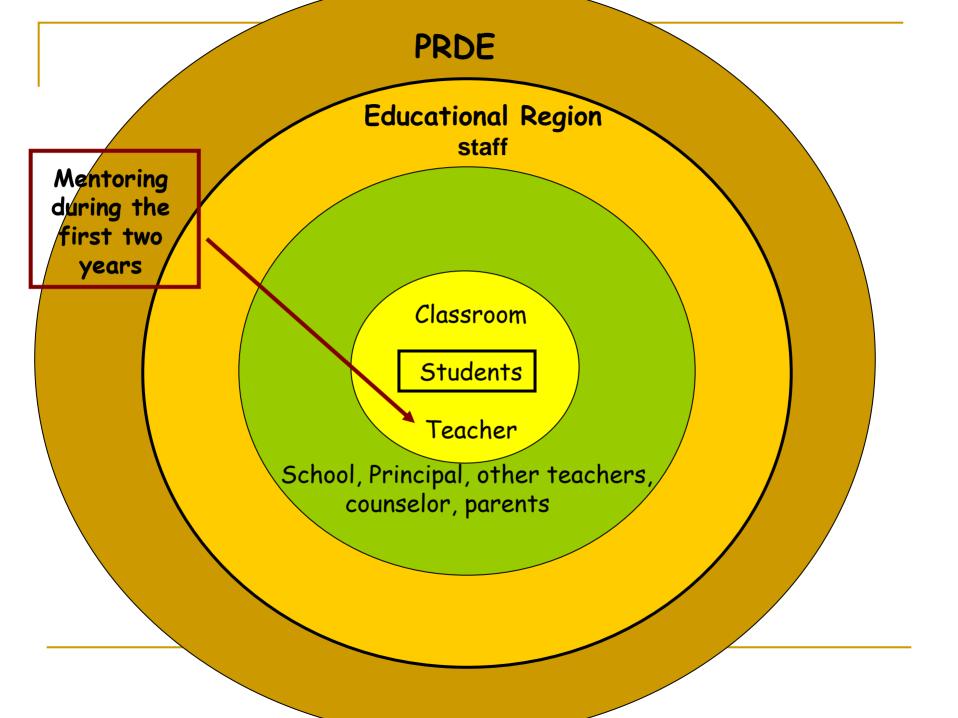


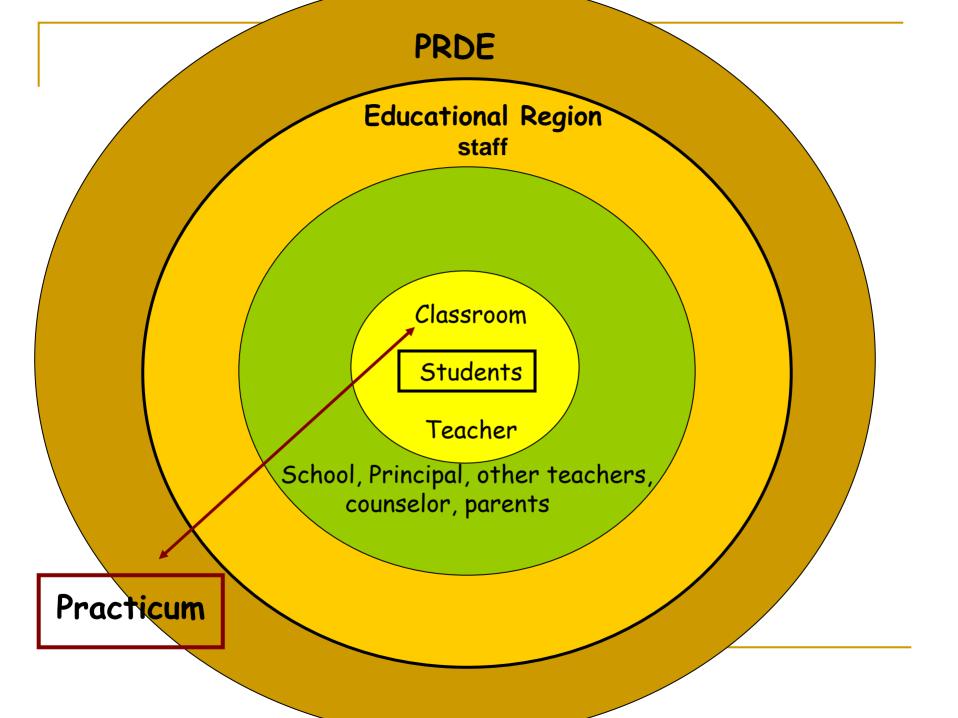


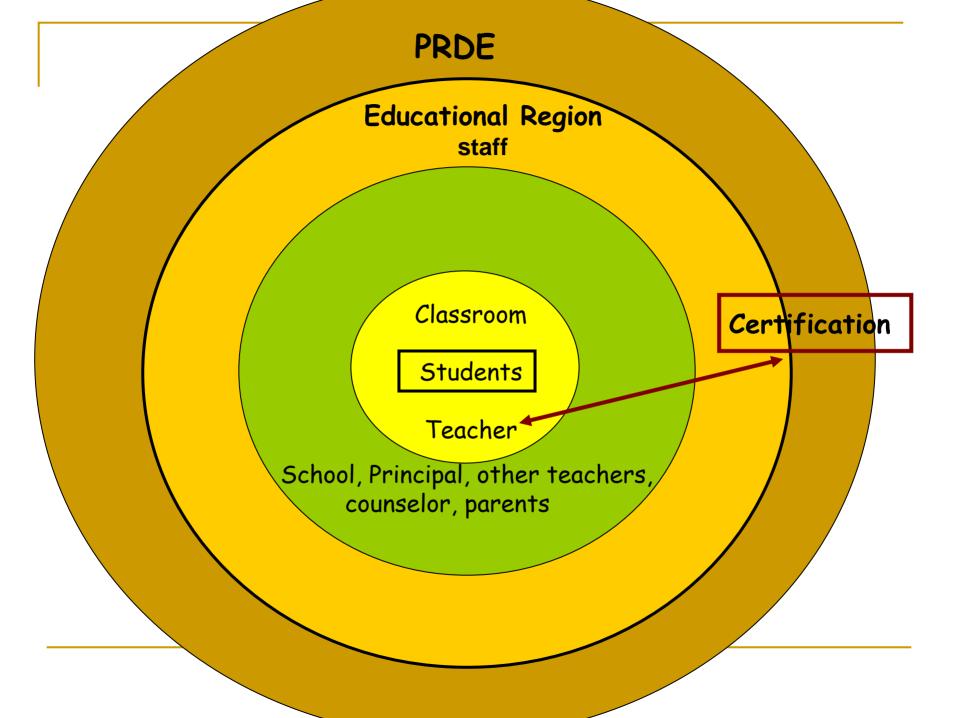


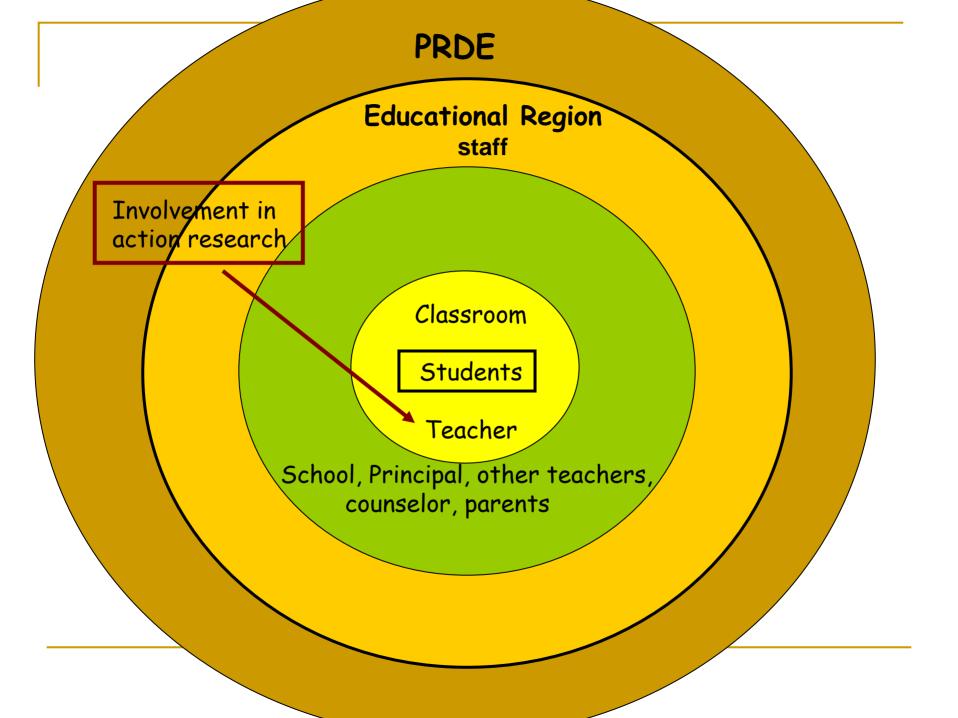
















Higher Student Achievement Through Challenging Curricula and Teacher Empowerment





Increase and Sustain K-12 Math and Science Teachers Through a Professional Education Continuum

PRMSP Goal #3



Improve Knowledge Base on M&S Teaching and Learning by Means of Assessment, Evaluation, and Research

PRMSP Goal #4



Create Sustainable K-20 Partnerships that Leverage Maximum Support for K-12 M&S Education

How are we achieving these goals?



- preparing the physical facilities that are housing the offices of PRMSP at each one of the five Core Institutions,
- identifying the specific human resources to carry out the proposed activities and hiring them,

creating all the working teams,
 establishing PRMSP as a learning organization,
 selecting the first cohort of schools,

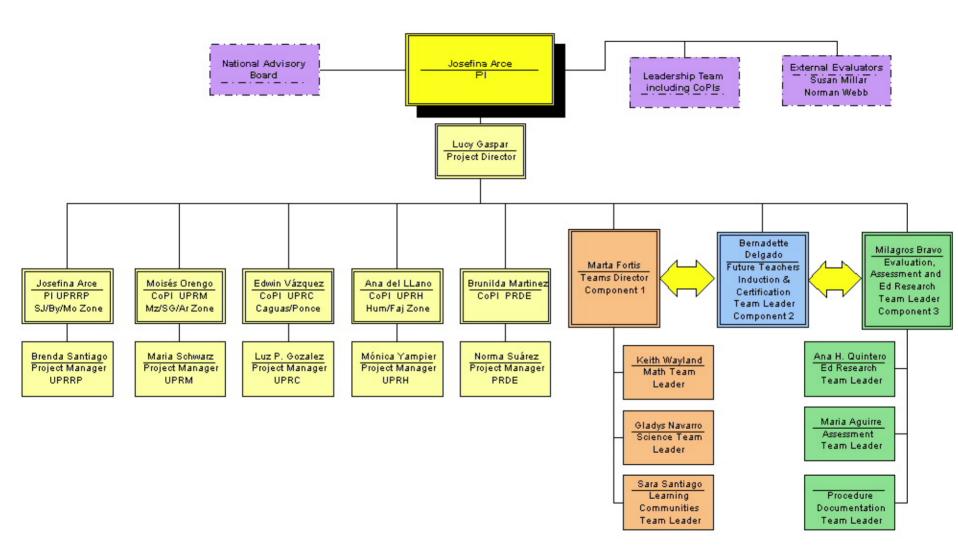
- starting the formation of the schools as communities of learners,
- selecting and training the trainers for the PRMSP teachers' Professional Development Program,



 implementing the Summer Professional Development program for the first cohort of PRMSP M&S teachers,

- Coordinate with supporting partners and offer the first Summer M&S Camps for 6-12 grade students
- Offer the first Summer Research Program for preservice teachers

Puerto Rico Math & Science Partnership Organization Chart



Leadership Team

- Josefina Arce, PI, Professor of Chemistry, UPR-Rio Piedras
- Brunilda Martinez, CoPI, Undersecretary of Education for Academic Affairs

Moisés Orengo, CoPI, Dean of Arts and Sciences at UPR-Mayagüez Edwin Vázquez, CoPI, Associate Professor of Biology, UPR-Cayey Ana M. del Llano, CoPI, Professor of Biology, UPR-Humacao, Keith Wayland, CoPI, Professor of Mathematics, UPR-Mayagüez Lucy Gaspar, PD, former science teacher and Principal

Marta Fortis, Teams Director, Professor of Education, UPR-RP

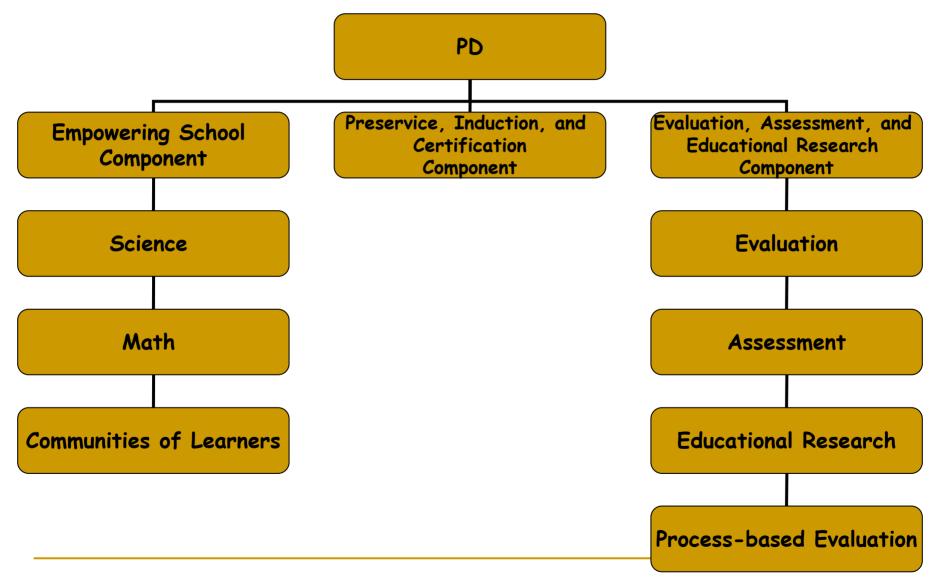
- **Milagros Bravo**, Coordinator of Evaluation, Professor of the Graduate School of Education, UPR-RP
- José Altieri, former PRDE Assistant Secretary for Academic Affairs, now Superintendent

Teresa Vega, Assistant Secretary for Academic Affairs

Myrna Fúster, PRDE Director of the Institute of Professional Development for Teachers

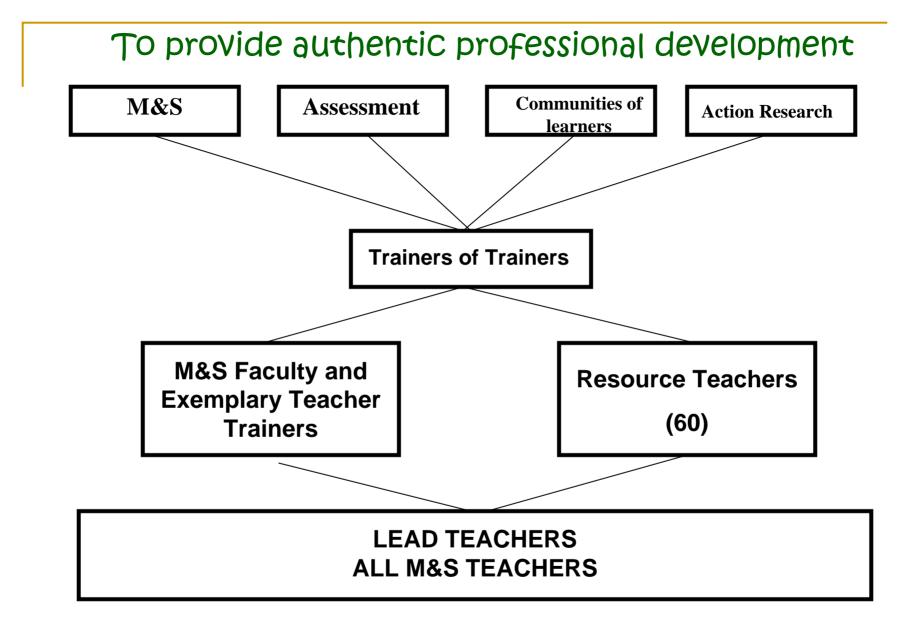
Raúl Marrero, Math Teacher, Pablo Colón Berdecia School

Organizational structure

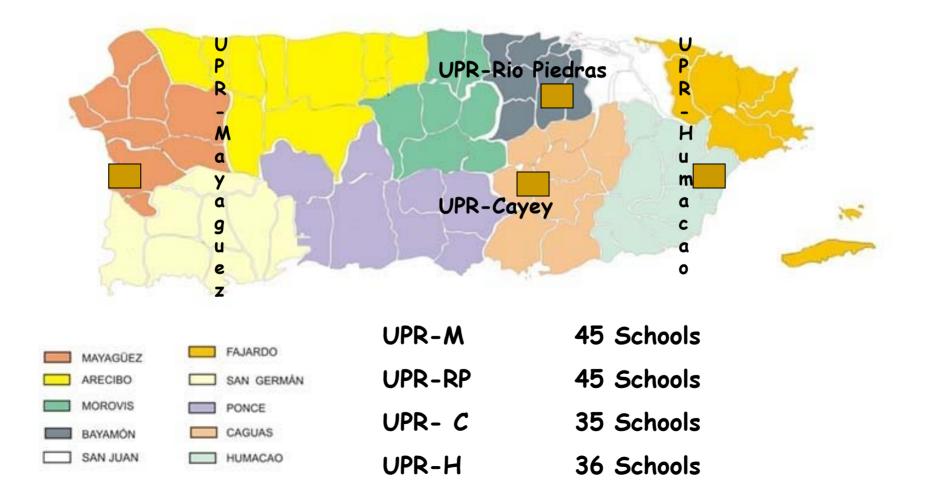


Empowering Schools

Evaluation, Assessment, and Educational Research Preservice, Induction, certification



Educational Regions and Core Higher Education Institutions



To improve communication and for follow up of Professional Development Program

All PRMSP Schools will receive:

- Desktop Computer with webconference software
- Printer/fax/photocopier/scanner
- Web camera

PRMSP activities impact students directly and indirectly

- Improving the M&S content they receive in their schools in a learningcentered environment
- Participating in M&S summer camps giving context to what they are learning in their classes

Summer Camps for 6-12 students

- Inter American University-Bayamón
 Water Quality Assessment and Ecosystem Health for junior and senior students.
- UPR- Río Piedras

Nanotechnology Research Camp for junior and senior students

 Hacienda Buena Vista in Ponce- the Conservation Trust of Puerto Rico

Science and Natural History at Hacienda Buena Vista for six grade students

Pontifical Catholic University :

Strengthening Knowledge and Skills in Science, Mathematics and oral communication through Environmental Science Experiences for junior students.

La Cabezas de San Juan Natural Reserve- the Conservation Trust

Math and Sciences in Ecology for six graders.













