



Dynamics and Results of Rio de Janeiro's Education Reforms

2009-2014

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Context in 2009

- 1,063 schools, of which 250 creches (now 1,075 and 384 creches)
- Students: 705.659 in March 2009 (now 668.919)
- Teachers: 36.060 in January 2009 (now 42.184)
- Teachers Union very radical, but not representative neither strong. Oposed to the reform since the beginning
- Good results in the national Educational index in comparison to Brazil's average
- But declining performance: 5th grade students with adequate language skills on national test fell from **33.05%** in **2005** to **29.07%** in **2007**
- Social promotion created a paternalistic culture: no tests, no homework, no assignments = drop in student learning

Context in 2009

- 28,000 students in 4th, 5th, and 6th grades (14%) were illiterate or functionally illiterate
- 40% performing below grade level in Math
- Lack of clear policies (curriculum, teacher training, assessment, learning reinforcement)
- Demotivation among teachers

Context in 2009

- Teacher shortages in elementary and middle schools and shortage of caregivers for early childhood education
- Low involvement of parents in their kids' education
- Areas controlled by drug dealers or militias had double the average dropout rate and much lower test scores



How to Increase Quality Fast

Our strategy, our implementation
and the results

First Actions

- Design of an integrated intervention program to ensure learning and equity, centered on cognitive and non-cognitive skills
- Big effort to promote civil society participation and social control:
 - Monthly meetings with Parents' Councils
 - "Parceiros da Educação Carioca"
- Major initiative for schools situated in violent areas – *Schools of Tomorrow*
- Change teachers selection, including a practical test and a course on classroom management .

First Actions

- Created a demanding and clear set of curriculum guidelines;
- Invested in Professional Development for Teachers including classroom management and support materials (textbooks and digital classes)
- Established Portuguese, Math, Science and Composition assessment every 2 months;
- Got teachers' involvement in decision-making including support materials preparation;
- Established a strong remedial Education program including different tracks for illiterate and/or older students;
- Increased the number of school (learning) hours;
- Constant monitoring of school results – especially academic achievement and dropout rates
- Quarterly meetings with district supervisors and school directors to review progress, school by school

First Actions

- Focused on 4 areas: early literacy(1st and 2nd grades), remedial education, innovative middle schools, and early childhood education;
- Signed annual performance contracts with schools establishing goals for learning improvement and dropout rates;
- Rewarded school teams that reached the goals

Some Results

- 90% of 1st year students adequately reading and writing
- 38,000 illiterate students re-alphabetized (from 2009 to 2013);
- 49.200 students with discrepancies age/grade accelerated;
- 43% of the schools reached their goals and got rewarded—many were Schools of Tomorrow
- In Schools of Tomorrow, evasion rate dropped from 5,1% to 3.18% in 2012 and to 2.3% in 2013.

IDEB – Results 2009 - 2011

IDEB (Standardized grade X flow indicator EARLY YEARS (1st to 5th GRADE))

2005	2007	2009	2011	Goal 2011	% 2009-2011
4.2	4.5	5.1	5.4	5.1*	+6%

IDEB (Standardized grade X flow indicator FINAL YEARS (6th to 9th GRADE))

2005	2007	2009	2011	Goal 2011	% 2009-2011
3.7	4.3	3.6	4.4	4.3*	+22%

Biggest challenges

- Changing the teacher
- Dealing with violence in and around the school
 - Improving math results
- Institutionalizing and deepening the changes already in place



**KEY INITIATIVES:
Digital Classes or the
Educopédia**



An online platform for collaborative digital lessons, where students and teachers can access self-explanatory activities through play and practice anywhere, anytime.

Google Analytics	Visitors	Views
2013	597.340	10.070.752
2012	567.894	10.465.858
2011	64.289	1.060.029

	2012	2013	%
Desktop	560.970	577.037	3%
Mobile	3.655	10.633	191%
Tablet	3.269	9.669	196%



KEY INITIATIVES: GENTE
Experimental Middle School
of New Educational
Technologies

GENTE

GENTE is a new school concept that makes the learning process personal, adjusting it to each student's needs.

We have changed everything: content, method and management.

No classes, grades or classrooms. To develop skills and competencies, teachers and students use digital classes from Educopedia and tablets and smartphones as part of the school material

The role of educators reinvented. At **GENTE**, teachers become mentors guiding students' academic and social-emotional development

Gain scale throughout the years:

2011 - xx schools

2012 - xx schools

2013 - xx schools

2014 – xx schools

Preliminary Results- 2013:

- Parents and teachers have noticed relevant development of the student's **social and emotional skills** – especially in terms of autonomy, collaboration and solidarity.
- Relevant **academic results** have also been noticed: in general, GENTE's general results grew more than those of the municipal schools, especially in Maths, Science and Writing.
- Results of the qualitative evaluation show that the students:
 - Think this school is far better than any school they have been before (due to technological aspects, infrastructure and the respect to everyone's rhythm);
 - Multigrade classrooms are positive (younger students like to learn from older peers, and the older students like to be regarded as references);
- The main focus of the school in **2014** will be:
 - To solidify the pedagogical practices within the school
 - To build a technological solution which will integrate the tools of diagnostic assessments, the construction of personalized Formative Itineraries, adequate digital educational contents and formative/adaptive assessments
 - To disseminate GENTE's components to other schools



KEY INITIATIVES:
Schools of Tomorrow

Escolas de Amanha

Schools Of Tomorrow

The Program In Numbers

*Caring for Rio de Janeiro's
most vulnerable*

- **155** - Schools of Tomorrow in Rio de Janeiro
- **38%** - Decrease in dropout rates since 2009
- **105k** - Students benefitted by the Program
- **6k** - Teachers working in the Schools of Tomorrow
- **33%** - Growth on Brazil's 2011 Basic Education Development Index
- **40%** - Growth on Rio's 2012 - Basic Education Development Index

Schools of Tomorrow – Main Pillars

Remedial Classes

Reduce the gap between ST and network schools improving student performance significantly, with remedial classes when needed

Full time education

Keep students inside schools and/or cultural or sports centers from 7am to 5pm, offering a safe and stimulating environment

Health Program

Program of comprehensive health care (health promotion, prevention and care) for children and youth

Community integration

Learning happens not only in schools, but in other places in the neighborhood



Science program

Establish innovative Science teaching, with the training of teachers and the installation of a science laboratory inside each classroom

Dynamic way of learning

Enhance attendance levels by sparking the curiosity of students with creative and innovative teaching techniques (Educopédia)

IDEB 2011 – Schools of Tomorrow

IDEB (Nota Padronizada X Indicador de Fluxo) ANOS INICIAIS (1° ao 5° ANO)				
2005	2007	2009	2011	Diferença 2009-2011
3.8	4.1	4.6	5.0	+8%

IDEB (Nota Padronizada X Indicador de Fluxo) ANOS FINAIS (6° ao 9° ANO)				
2005	2007	2009	2011	Diferença 2009-2011
3.3	3.9	3.1	4.0	+33%

Results

- Percentage of schools that received bonuses was higher among the Schools of Tomorrow;
- Dropout rate fell from 5,1% to 2.3%;
- Test scores have increased in all years;
- Attendance rates have increased dramatically

Innovative Middle Schools

- Ginasio Carioca Program: integrated approach to teaching adolescents. 3 axes (excellency in teaching, high expectations, character education or developing social and emotional skills, and structured teaching resources);
- Character Education: Youth protagonism, Life plan, Mentors for each student, Electives.
- Started with 10 schools and now 30 schools, that will be extended to the whole system.



How to Keep Improving

Biggest challenges and Next Steps

The goals behind our strategies

- Develop autonomous, caring, and competent young adults
- Redeem the admiration for public schools and teachers
- Involve the entire society in the positive transformation of public education

Next wave of actions

- What we teach –
 - Strategic persistence with curriculum guidelines, tests and learning reinforcement
 - Emphasize reading;
 - English language starting in 1st grade;
- How we teach – focus on excellence and innovation in teacher practice
 - Higher standards for new teachers
 - Extend the *Ginasio Carioca* Program to the other middle schools
- How we manage – focus on results, reward excellence, hold





THANK YOU!

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