Chile: Universal Collection, Open Access, and Innovation in the use of Attendance and Absenteeism Data





Chilean education system



- Population 17.5 million
- Language of instruction: Spanish
- Compulsory Education: 12 years

Diagram of Chilean education system



Mixed financing system



Chilean education system

Laws and legislations that consider attendance



1998 law-ranking decree N2

Subsidy to schools



Norm of evaluation and promotion

 Promotion from one grade to another



Law on educational quality assurance

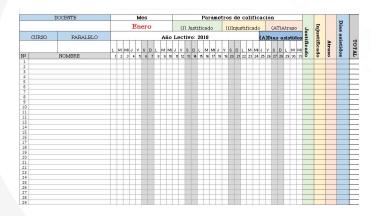
Assess the quality of the school



Chilean school attendance data

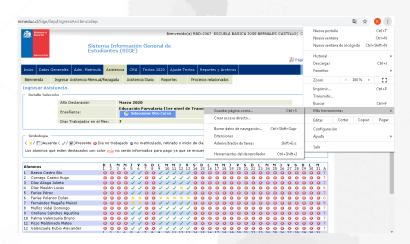
Attendance process

1.- Class roll



 Teacher are responsible for recording attendance (present, absent, or late) in a class roll every day. Circular № 30 of the Superintendence of school Education. 2.- General student information system (SIGE)





• The attendance officer or the school's general inspector is responsible for reporting attendance to MINEDUC by the online digital system SIGE.



Collection

Reporting

Use data

Chilean school attendance data

Attendance process

3.- Attendance/ absence data usage

Payment of subsidies to schools

- Characteristics of the school (rural o urban)
- Characteristics of the students
- The average daily attendance (% of students enrolled and attending daily, on average in the month)

Promote students from one grade to another

- Reach the learning objectives established in the curriculum.
- Achieve attendance equal to or greater than 85% of the days in the year.



Assess the quality of the school

- Considering different indicators:
- The distribution of students in the levels of learning.
- Personal and social development (student attendance)
- The outcomes of the SIMCE test.



Chilean school attendance

Attendance process

4.- How is attendance data reported by the government to schools?



5.- Attendance data access





- The MINEDUC study center provides a variety of school data, including attendance.
- Chilean school data is available for researchers, external organizations and local authorities.

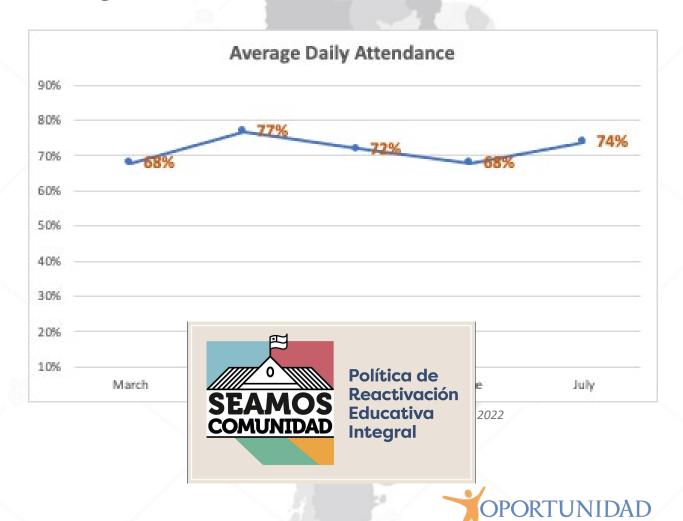


Chilean education system

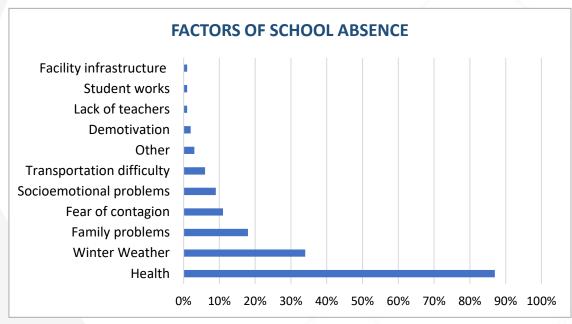
The number of days a student attends classes, in relation to the total number of annual school days. MINEDUC, 2018

Attendance categories							
Outstanding attendance	≥ 97%						
Normal attendance	≥ 90% - 97%						
Repeated absenteeism	≥ 85% - 90%						
Serious absenteeism	≤ 85%						

Average National Attendance.



Chilean education system



School of Government UC and CIAE university of Chile 2022

- Attendance process limitation
- SIGE platform does not allow registration of partial attendance.
- The average proportion of enrolled attended children each day.



Oportunidad Educational Foundation



• Improving language development of preschool children from rural communities in Chile

Building professional capabilities to enhance the school system



UBC: A story of perseverance



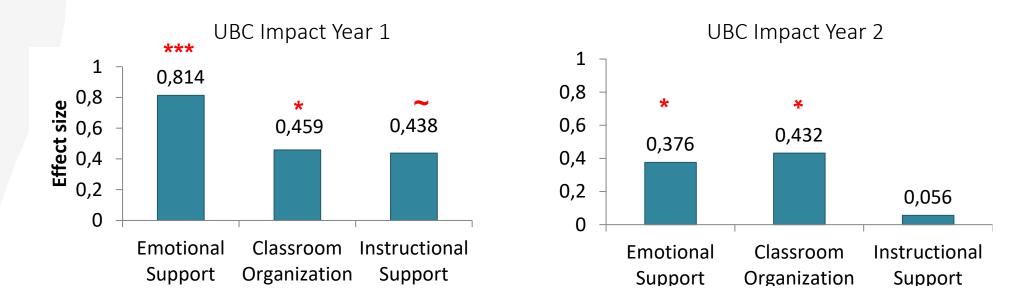
· 2006 - 2010

- Design and experimental phase
- Based on best evidence
- Private public collaboration
- Experimental evaluation

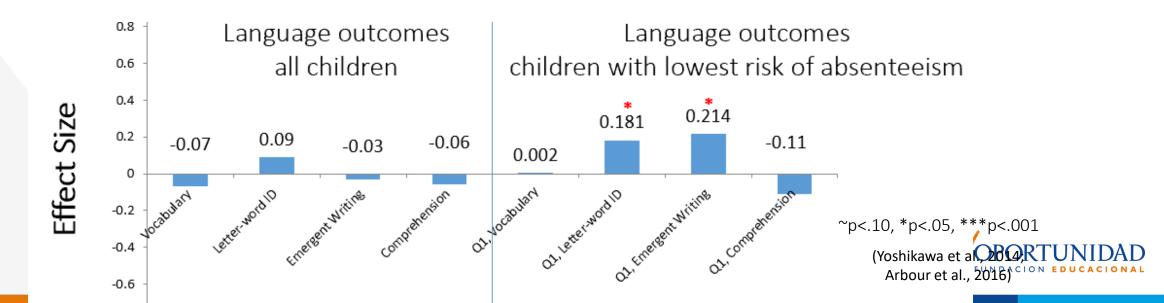
- 6 Municipalities in the Metropolitan Region (Santiago)
- 32 Schools
- 3.200 Children



UBC had positive impact on classroom quality



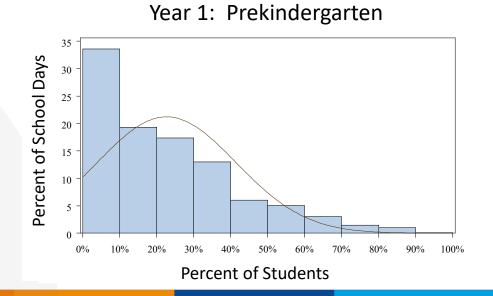
Effects on child language and literacy skills moderated by absenteeism

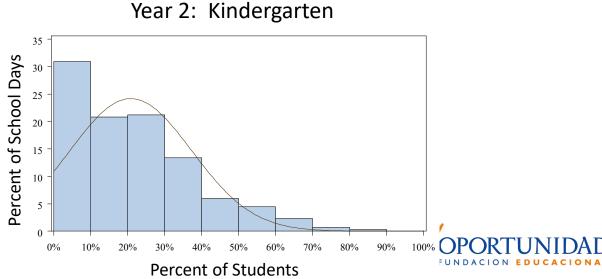


 Absenteeism rates among 4- and 5-year-old children attending public preschool

	Average Individual- Level Absenteeism	% of students with chronic absenteeism
Prekindergarten	23.2% (19.6)	66%
Kindergarten	21.3% (17.7)	69%

Percent of School Days Absent Among Children Attending UBC Schools

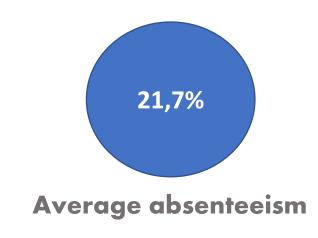




Learning

67% of children have chronic absenteeism











UBC: A story of perseverance



· 2011 - 2015

Model consolidation phase

- Continuous Improvement Model (IHI)
- Voice & participation of teachers and school leaders

• 13 Municipalities in the Libertador General Bernardo O'Higgins region.

- 60 Schools
- 1.636 Children



Institutional School Attendance Board







Campaign with the educational team and parents

The campaign "Enough of I was not"





Theory of improvement: Driver Diagram

PRIMARY DRIVERS

AIM: 80% of pre-K and 90% of K children reach advanced language proficiency **Instructional time**

Effective classroom interactions

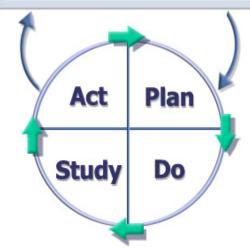
Students' attendance

Model for Improvement

What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?





Building capacity at 3 levels

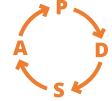
	March	April	May	June	July	August	September	October	November	December
Classroom			*	*		*		*	*	
School			*	*		*		*	*	
Network		*			*					*

CLASSROOM level strategies



Teachers:

- Propose ideas
- Test
- Measure
- Evaluate



Teachers and school leaders:

- Analyze data to make decisions
- Adapt innovations to context

SCHOOL level strategies



Teachers and school leaders:

- Conduct school-to-school visits
- Model and observe testing changes in pedagogical practices
- Analyze shared experience based on data analysis

NETWORK level strategies



Full teams and sponsors attend learning sessions

- Embrace a shared aim
- Analyze progress using common metrics
- Share innovations
- Set new challenges



UBC: A story of perseverance



· 2016 - 2022

Improvement Network

- Innovation for sustainability
- Collaboration
- **UBC Improvement Network**

- 23 Municipalities in the Libertador General Bernardo O'Higgins region
- 153 Schools
- 12.400 Children



Attendance Driver Diagram: Theory and Interventions

Multi-tier Approach INTERVENTIONS PRIMARY DRIVERS Health corner + V. Sinforoso **Infectious Disease** Prevention **Change of clothes Attendance Superhero + videos** Children's motivation to **Attend School Attendance Panel + incentives** All parent-teacher meeting include Universal attendance Interventions School leaders champion preschool Awareness among parents attendance and the school community of Informational campaign on CA consequences of CA AIM: Less than 15% **Success Plan** of children from the collaborative have **School Van** chronic absenteeism Parents with cars drive other children (CA) by the end of 2017 **Absenteeism Committee Interventions Conduct and monitor** Success Plan for individual interventions with continuous children at **Attendance sponsors** improvement methods - CIECIN LUMIUM D risk of CA Individual or group interviews with

parents of children with CA

School attendance program



Building capacity at 3 levels

	March	April	May	June	July	August	September	October	November	December
Classroom			*	*	****	*		*	*	
School			*	*		*		*	*	
Network		*			*					*





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level strategies

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level strategies



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- Share innovations
- Set new challenges





Plan de Escuela

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Descripción de Pruebas de cambio trabajadas

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Equipo de Escuela



Planear

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Estudiar

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Equipo Directivo

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Planear

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Estudiar

Planear

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Estudiar

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Hacer

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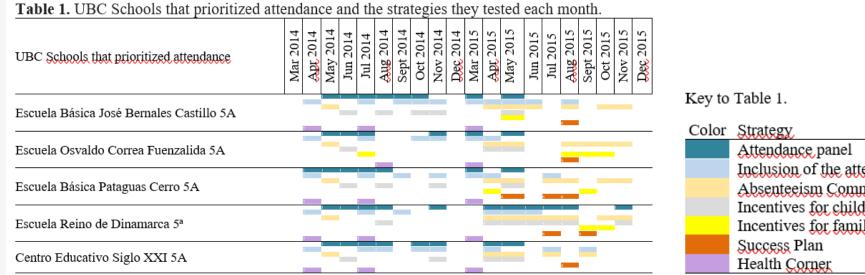
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Ajustar

Attendance program results



Attendance panel
Inclusion of the attendance issue in all parent-teacher meetings
Absenteeism Committee
Incentives for children
Incentives for families
Success Plan
Health Corner

Results: RQ1

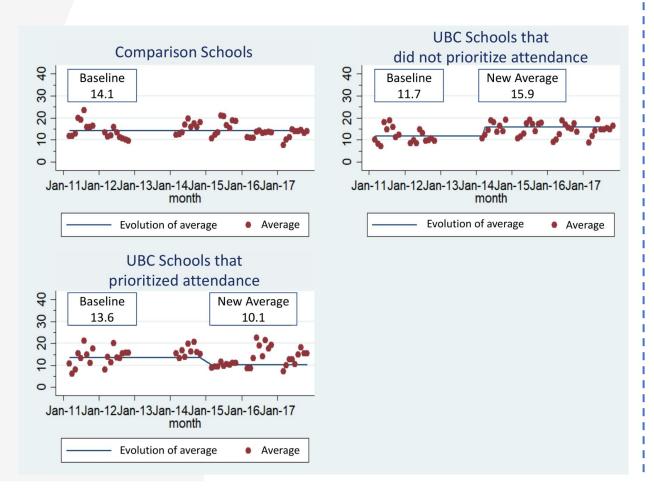
Table 3: Average percent of days absent per child and the percent of children with chronic absenteeism in preschools in the VI Region.

Average, 2011-2017	Total	Comparison Schools	UBC Schools that did not prioritize attendance	UBC Schools that prioritized attendance
Percent of days absent	14.2	14.4	14.0	14.2
per child	(10.4-17.3)	(12.1-16.3)	(10.8-15.3)	(10.4-17.3)
Percent of children with	52.1	50.9	51.2	54.2
chronic absenteeism	(33.5-68.9)	(33.5-68.9)	(40.3-57.1)	(35.3-62.0)

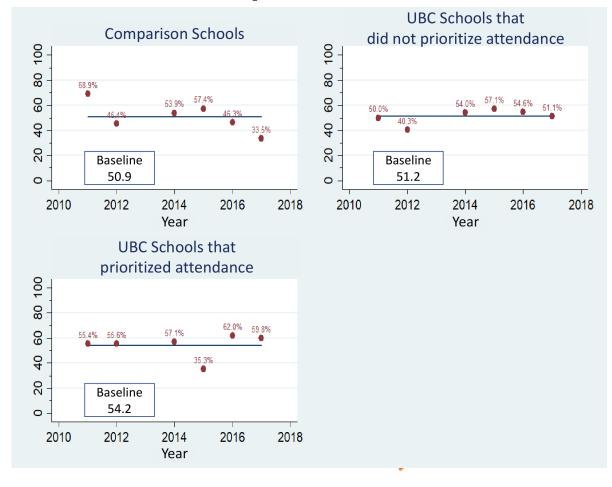
Attendance program results

• Results: RQ2 Is there a difference in evolution of absenteeism?

Average percent days absent per child per month



Percent of children with chronic absenteeism per year 2011-2017





Power of Networks for Learning

- Carolina Soto <u>csoto@funacionoportunidad.cl</u>
- Mary Catherine Arbour <u>marbour@bwh.harvard.edu</u>