

MÃOS AO AR!



RESULTS 2019

ISTO É UMA VOTAÇÃO POPULAR!



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Mãos ao Ar Lisboa is a municipal initiative to take a snapshot of school mobility, seeking to know the transportation used daily by pupils of primary and high schools, state and independent schools. This survey reports key results on the filling-in of a simple and brief questionnaire by teachers, with pupils answering “hands up” in each class.

This was inspired by the Hands Up Scotland survey (Sustrans), which examines how pupils from all over Scotland travel to school. Since it started, in 2008, this is the largest data set about travelling to school in the UK. This report was drafted for the first time in Lisbon on October 8th to 12th, 2018; note that October 11th was World Obesity Day. This year’s edition took place on October 7th to 11th.

In this report pupils complete a classroom inquiry answering “hands up” to the question: How do you usually come to school? *with the following options:*

COD	MEANS OF TRANSPORTATION HOME-SCHOOL	# STUDENTS
1	Walking (exclusively)	
2	Cycling (Includes scooter, rollerblades, skate)	
3	Bus (Carris or other operators)	
4	School Bus	
5	Train	
6	Underground	
7	Tram	
8	Driven	
9	Motorbike	
10	Other (Who has not answered yet? Boat, taxi, ride hailing, etc.)	
	TOTAL	

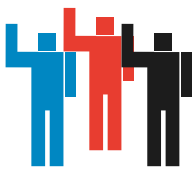
TABLE 1 | TRAVEL MODES

This report is the result of the second survey carried out in Lisbon.

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Results 2019

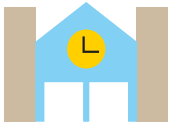
Snapshot of Lisbon



47 141
answered

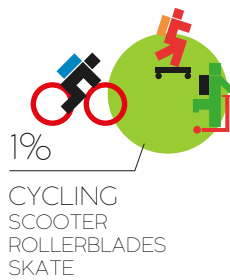
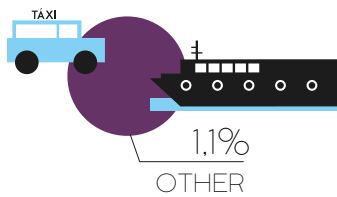
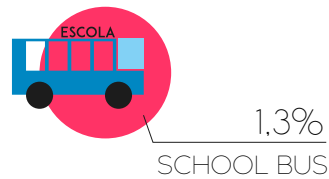
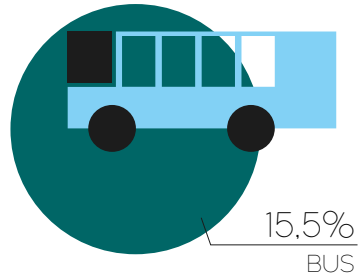
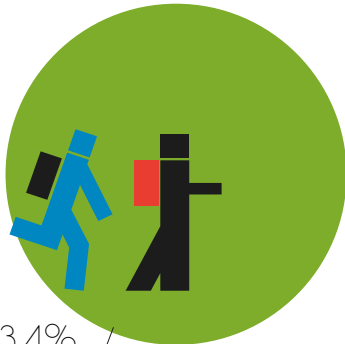
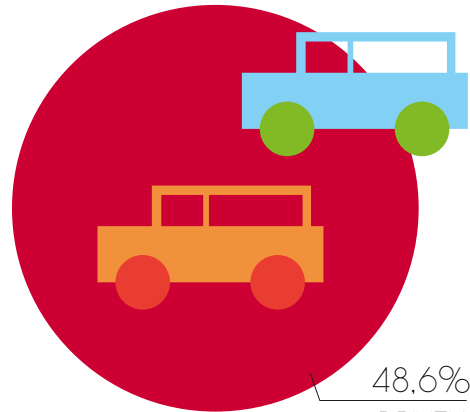
SCHOOLS

117
state education



71
independent school

188



GRAPH 1 | ALL SCHOOL RESULTS MÃOS AO AR 2019

ACTIVE TRAVEL

24,4% [11515] OF SCHOOL PUPILS
(STATE AND INDEPENDENT SCHOOLS COMBINED)
SAID THEY NORMALLY TRAVEL TO SCHOOL IN AN
ACTIVE WAY, WALKING AND CYCLING

23,4% [11033] of school pupils
said they normally walk to school

1,0% [482] of school pupils said they
normally travel to school cycling

PRIVATE MOTORISED TRAVEL

49,6% [23364] OF STATE AND INDEPENDENT
SCHOOL PUPILS SAID THEY NORMALLY TRAVEL
TO SCHOOL BY PRIVATE MOTORISED TRAVEL

48,6% [22890] of school pupils
said they normally travel by car

1,0% [474] of school pupils said
they normally travel by motorbike

PUBLIC SUSTAINABLE TRANSPORT

23,6% [11106] OF SCHOOL PUPILS
SAID THEY NORMALLY TRAVEL
TO SCHOOL BY PUBLIC TRANSPORT

15,5% [7289] of school pupils said
they normally travel to school by bus

5,1% [2381] of school pupils said they
normally travel to school by underground

2,5% [1200] of school pupils said they
normally travel to school by train

0,5% [236] of school pupils said they
normally travel to school by tram

OTHERS

2,4% [1156] OF STATE AND INDEPENDENT
SCHOOL PUPILS ANSWER WITH THE OPTION
"OTHER" OR "SCHOOL BUS"

1,1% [530] of school pupils said they normally travel
using other means (boat, taxi, ride hailing, etc.)

1,3% [626] school pupils said they
normally travel by school bus

The background of the top half of the page features several overlapping, horizontal brushstrokes in a teal color. The strokes are irregular and layered, creating a textured, artistic effect. The text is centered over these strokes.

Response rates

SCHOOL RESPONSE RATES

Of the 228 schools covered and for which Mãos ao Ar kits were prepared, 188 took part in the questionnaire with at least one class, which corresponds to 82.5% of the schools covered. This participation comprises 91.4% of state schools and 71.0% of independent schools.

More than 47,000 pupils answered the survey, corresponding to 57% of the total number of pupils in Lisbon attending primary and secondary education (INE).

Of the schools covered, in Basic Education 65% of school pupils answered the survey, in Secondary Education 55% of school pupils answered it. We realise that secondary education had less participation, with only 50%.

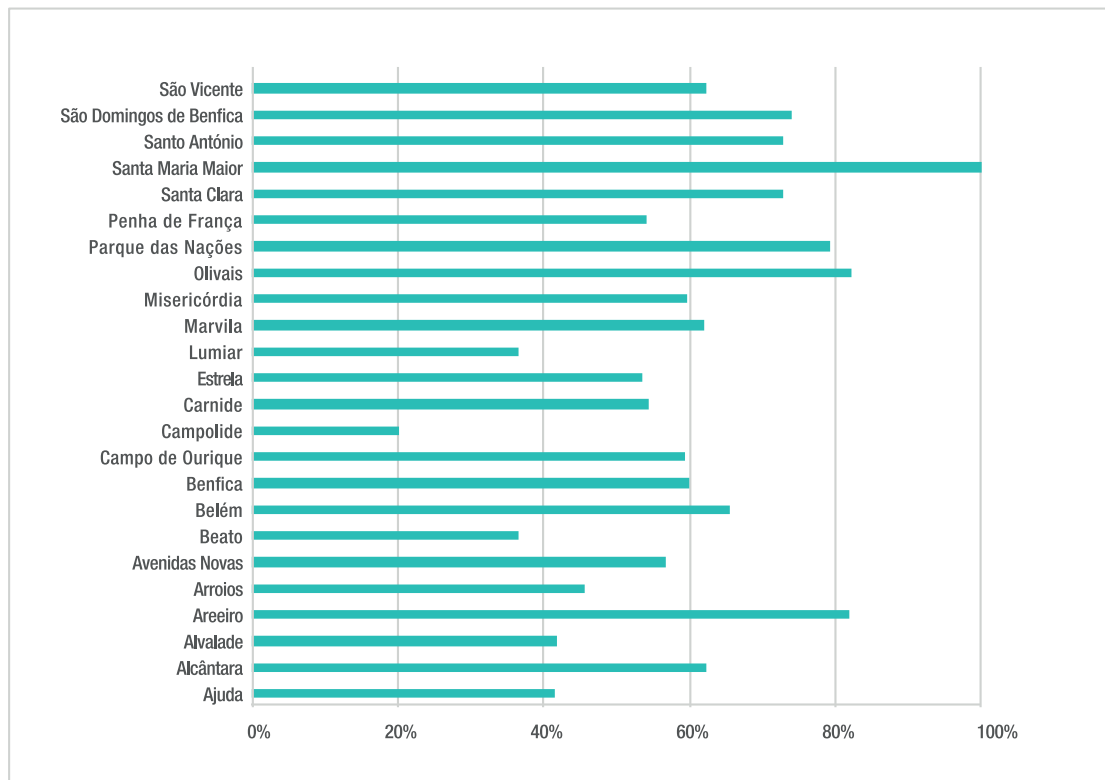
PARTICIPATION BY GEOGRAPHICAL LOCATION

A set of Mãos ao Ar kits was created for each school – a cloth bag with instructions and answer sheets for each class in each school, two advertising posters and a letter to the school head, calling for participation and publicising of the survey.

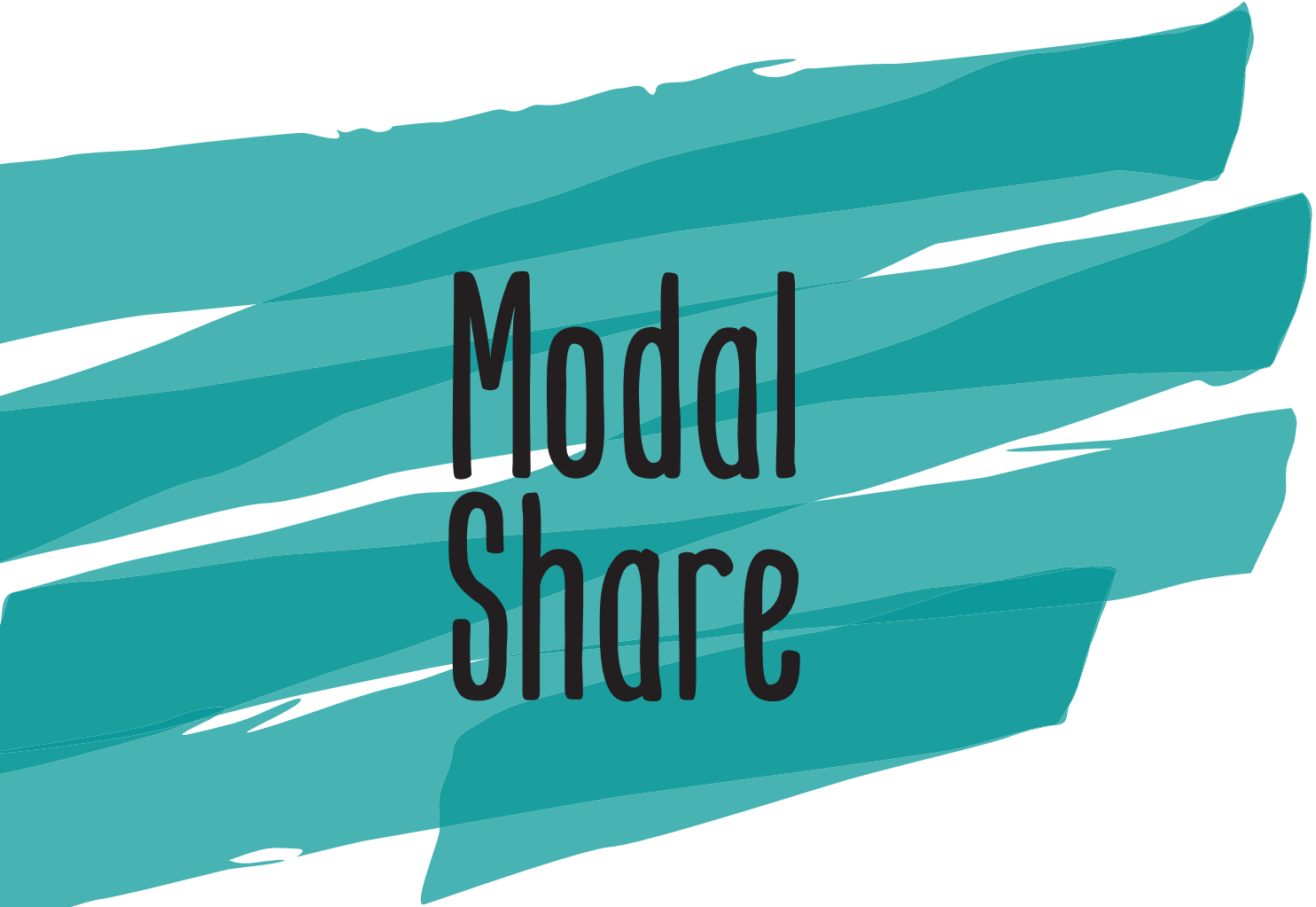
The kits were delivered to the borough councils of Lisbon. It was their mission to distribute and present to public and private schools in their area.

All borough councils of Lisbon were represented by at least one school.

As recorded in Graph 2, school response rates were more than 70% for the borough councils of Santa Maria Maior, Olivais, Areeiro, Parque das Nações, São Domingos de Benfica, Santo António and Santa Clara. In the borough councils of Arroios, Alvalade, Ajuda, Beato, Lumiar and Campolide, school response rates were below 50%.



GRAPH 2 | SCHOOL RESPONSE RATES TO THE SURVEY MÃOS AO AR 2019 BY BOROUGH COUNCILS

The background features several overlapping, horizontal brushstrokes in various shades of teal and turquoise, creating a layered, textured effect. The strokes are irregular and have soft, feathered edges.

Modal Share

Level of Education	Walking	Cycling	Bus	School Bus	Train	Underground	Tram	Driven	Motorbike	Other	TOTAL
1 st Cycle	24,2%	1,0%	8,1%	2,6%	1,3%	2,2%	0,5%	57,9%	1,2%	1,1%	17397
2 nd Cycle	20,7%	0,7%	12,3%	1,3%	1,1%	2,8%	0,7%	58,0%	1,1%	1,4%	7669
3 rd Cycle	25,9%	1,1%	17,7%	0,5%	1,7%	5,4%	0,4%	45,7%	0,8%	0,9%	11710
Secondary Education	21,3%	1,2%	27,7%	0,2%	6,7%	11,2%	0,4%	29,2%	0,8%	1,1%	10365
TOTAL	23,4%	1,0%	15,5%	1,3%	2,5%	5,1%	0,5%	48,6%	1,0%	1,1%	47141

TABLE 2- TRAVEL MODES

Type of Education	Level of Education	Walking	Cycling	Bus	School Bus	Train	Underground	Tram	Driven	Motorbike	Other	TOTAL
INDEPENDENT SCHOOL	1 st Cycle	10,2%	1,0%	2,1%	1,7%	0,4%	1,2%	0,5%	81,6%	1,0%	0,4%	6600
	2 nd Cycle	11,2%	0,9%	1,8%	1,5%	0,1%	1,7%	0,7%	80,0%	1,3%	0,9%	3173
	3 rd Cycle	11,8%	1,1%	3,6%	1,2%	0,4%	3,6%	0,1%	76,9%	0,6%	0,7%	3758
	Secondary Education	12,4%	3,0%	8,1%	1,0%	1,9%	6,1%	0,0%	65,6%	1,0%	0,8%	1649
Total Independent School		11,0%	1,2%	3,1%	1,5%	0,5%	2,4%	0,4%	78,4%	1,0%	0,6%	15180
STATE EDUCATION	1 st Cycle	32,7%	1,0%	11,8%	3,1%	1,8%	2,8%	0,5%	43,3%	1,4%	1,6%	10797
	2 nd Cycle	27,4%	0,5%	19,8%	1,1%	1,9%	3,6%	0,7%	42,4%	1,0%	1,8%	4496
	3 rd Cycle	32,5%	1,1%	24,3%	0,2%	2,3%	6,2%	0,6%	30,9%	0,8%	1,1%	7952
	Secondary Education	23,0%	0,9%	31,4%	0,0%	7,6%	12,1%	0,5%	22,3%	0,8%	1,2%	8716
Total State		29,3%	0,9%	21,4%	1,3%	3,5%	6,3%	0,6%	34,4%	1,0%	1,4%	31961
TOTAL		23,4%	1,0%	15,5%	1,3%	2,5%	5,1%	0,5%	48,6%	1,0%	1,1%	47141

TABLE 3: TRAVEL MODES BY TYPE AND LEVEL OF EDUCATION

48.6% of school pupils travel by car to go to school in the morning. About 23.4% walk to school and about 16% take the bus (Table 2).

There are, however, noticeable differences in the way pupils arrive at school in the morning, depending on the type and level of education they attend.

While 78.4% of independent school pupils arrive at school by car, only 34.4% of state school pupils do so; the same happens if we compare those that walk to school: 29.3% of pupils in state education, but only 11% of those in independent school do so.

The differences are greater as the education level changes. While in state education we notice a change in the way of travelling to school, private car losing terrain as pupils move from primary (43.3%) to secondary (22.3%) school, in independent education, the decrease in car use is less noticeable: in primary school this is the transport of 81.6% of the students, while in secondary school education it reaches 65.6%.

State school pupils start using more public transport in the 2nd Cycle, essentially bus, which means that in secondary school there are more students going to school by bus than by car. In independent schools, however, this is not the case. Secondary independent school pupils use less public transport as a way of travelling to school (Table 3).

The survey recorded that 24.4% (11,515) of state and independent school pupils who took part usually travel by active modes – walking or cycling, scooter, skate or rollerblades to go to school. If we add those that use public transport – 23.6% (11,106) –, the result is that 48% of pupils travel to school in a sustainable way.

Sustainable transport is much more used in state and secondary schools; 75.5% of secondary school pupils travel to school using sustainable modes. The transport used also varies greatly with the geographical location of the school. In the borough councils of Areeiro, Avenidas Novas, Beato, Misericórdia, Penha de França, Santa Maria Maior and São Vicente more than 60% of pupils arrive in a sustainable way; in the borough councils of Ajuda, Parque das Nações and São Domingos de Benfica more than 60% use the car (Table 4).

Borough	Walking	Cycling	Bus	School Bus	Train	Underground	Tram	Driven	Motorbike	Other	TOTAL
Ajuda	19,9%	0,0%	6,8%	1,4%	0,7%	0,0%	0,0%	69,2%	1,4%	0,7%	146
Alcântara	27,0%	0,5%	25,1%	0,8%	2,2%	0,4%	1,1%	41,0%	1,5%	0,4%	1612
Alvalade	17,9%	1,7%	9,5%	0,7%	1,4%	7,7%	0,0%	59,1%	1,0%	1,1%	3338
Areeiro	40,1%	3,4%	10,1%	0,0%	2,6%	8,4%	0,4%	32,4%	1,0%	1,6%	1942
Arroios	37,2%	1,1%	8,7%	0,4%	1,3%	5,9%	0,4%	43,1%	1,1%	0,7%	2286
Avenidas Novas	16,4%	0,6%	29,7%	1,7%	9,1%	20,6%	0,2%	20,0%	0,8%	1,0%	1575
Beato	29,7%	0,8%	32,8%	0,2%	1,3%	1,5%	0,0%	32,2%	1,3%	0,2%	478
Belém	6,9%	0,3%	24,3%	1,6%	5,6%	1,4%	1,7%	56,9%	0,6%	0,8%	3938
Benfica	33,9%	0,3%	17,2%	2,0%	1,4%	1,2%	0,3%	40,3%	0,7%	2,7%	2584
Campo de Ourique	28,1%	0,4%	10,6%	1,3%	2,4%	5,5%	1,2%	48,1%	1,6%	0,8%	3914
Campolide	22,2%	0,5%	9,8%	10,5%	4,2%	6,6%	0,0%	44,7%	0,9%	0,6%	640
Carnide	38,1%	2,0%	14,6%	0,1%	0,6%	3,0%	0,0%	40,4%	0,8%	0,3%	1459
Estrela	27,9%	0,2%	5,1%	0,8%	0,6%	1,4%	1,0%	58,6%	3,3%	1,2%	512
Lumiar	19,3%	1,6%	16,0%	1,5%	0,8%	6,0%	0,0%	59,5%	0,6%	1,7%	3488
Marvila	23,0%	0,9%	17,7%	1,8%	0,7%	3,4%	0,0%	51,3%	0,5%	0,5%	2758
Misericórdia	36,4%	0,6%	15,9%	0,5%	7,0%	17,1%	6,5%	13,1%	0,6%	2,2%	642
Olivais	20,7%	0,7%	16,8%	0,9%	1,2%	3,4%	0,1%	53,7%	1,4%	1,0%	5622
Parque das Nações	12,2%	3,4%	3,2%	1,4%	1,0%	0,3%	0,0%	77,6%	0,6%	0,3%	2682
Penha de França	20,8%	0,5%	33,4%	1,0%	10,4%	12,6%	0,2%	18,3%	0,9%	2,0%	2089
Santa Clara	26,4%	0,1%	14,6%	4,9%	0,5%	2,2%	0,0%	48,8%	0,6%	1,9%	1173
Santa Maria Maior	35,5%	0,0%	9,9%	0,0%	7,2%	13,2%	2,0%	25,0%	3,3%	3,9%	152
Santo António	36,8%	2,1%	5,4%	7,9%	2,5%	9,2%	0,0%	32,2%	3,8%	0,0%	239
São Domingos de Benfica	18,7%	0,3%	6,7%	0,4%	1,5%	4,2%	0,0%	57,8%	0,7%	1,3%	2932
São Vicente	41,5%	0,4%	16,1%	1,6%	2,2%	2,2%	1,6%	31,1%	1,8%	1,5%	940
TOTAL	23,4%	1,0%	15,5%	1,3%	2,5%	5,1%	0,5%	48,6%	1,0%	1,1%	47141

TABLE 4: MODAL SHARE BY BOROUGH COUNCILS

The background features several overlapping, horizontal brushstrokes in a teal color, creating a layered, textured effect. The strokes are slightly irregular and have soft edges, giving the appearance of hand-painted layers.

Data Collection

DATA COLLECTION

The second edition of the Mãos ao Ar! survey was carried out from October 7th to 11th, 2019; note that October 11th was World Obesity Day. Under the motto “Hands up, this is a popular vote”, schools were challenged to learn how their pupils usually travel to school.

Mãos ao Ar kits were sent to 23 borough councils of Lisbon, who were asked to distribute the surveys by state and independent schools in their area. Lisbon Municipality distributed in schools belonging to Alvalade borough, as well as to some independent schools.

SCHOOLS COVERED

Having reviewed all types of schools in Lisbon and the information of the databases used, military, professional and artistic schools (especially conservatories) were discarded. This was due to the impossibility of controlling (and, consequently, excluding or including) factors that could influence the relevance of the results obtained, such as the existence of pupils in boarding school (especially in the case of military schools); the impossibility of distinguishing, in the results, between night and day teaching (in the case of professional schools); and the existence of classes in non-integrated teaching, with the impossibility of distinguishing school years (in the case of artistic and vocational education).

THE FOLLOWING WERE PART OF THE CONTACTED DATABASE

- Basic Education comprising three cycles and Secondary Education, with the exceptions mentioned above:

1st Cycle: 1st, 2nd 3rd and 4th grades

2nd Cycle: 5th and 6th grades

3rd Cycle: 7th, 8th and 9th grades

Secondary Education, including: 10th, 11th and 12th grades (in Portugal)

THE UNIVERSE - SCHOOL POPULATION OF THE MUNICIPALITY OF LISBON

The survey involves the participation of primary and secondary schools, whether state or independent schools, cooperative or otherwise (referred to in this report always as independent school).

According to data from DGEEC (2017/2018), there are 83,178 pupils at these levels, 54,474 of whom attend state schools and 28,704 pupils attend independent schools.

RESULTS 2018-2019

The schools that took part in the two editions of this project differ, especially because there has been more engagement this year. In 2018, 88 schools were involved and 15,689 pupils responded to the survey. In 2019, 188 schools took part, 77 of which correspond to schools that also responded to the survey in the first edition. The number of responses in each school is also not equivalent between the two years. Given that the sample of schools and pupils varied in the first two editions, the overall results are not necessarily comparable, so a comparative analysis between the two years cannot be made.

DATASHEET

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