

## **Ascendi's Speed Yearbook: a (new) step forward to increase Road Safety**

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## OBJECTIVE: TO PRESENT THE SPEED YEARBOOK

- MOTIVATIONS:
  - TRANSPARENCY: ASCENDI is one of the (few) road operators in the world that openly shares its road accident figures.
  - SPECIFICITY: 50% of road accidents in ASCENDI's network are run-off-road type.
  - DATA DRIVEN DECISIONS: increasing the information on operational speed in the network.

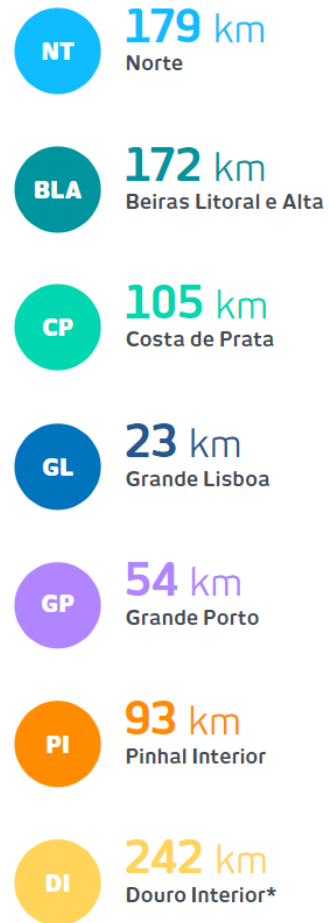
**OPERATIONAL SPEED**



**SPEED YEARBOOK**



- ASCENDI is a road operator responsible for 868 km of mainly highway network.
- The company's objective is to reduce the number of victims in its network by -5%/year as stated in its Road Safety Action Plan (2020-2023).
- The Road Safety Unit directly supports accidents risk mitigation actions, both with studies/reports and with specific local measures.
- Road safety data (namely accidents, traffic and speed) are the main source of information for those analysis and studies.



THE TECHNICAL REPORTS ARE BASED ON THE COLLECTION AND TREATMENT OF DATA FROM:

- **TRAFFIC DATA**

Recorded through both electronic and traditional tolls, as well as automatic vehicle counting equipment (AVCs) that are spread across the network.



THE TECHNICAL REPORTS ARE BASED ON THE COLLECTION AND TREATMENT OF DATA FROM

- SPEED DATA**

Continuously collected through Automatic Vehicle Counting equipment (AVCs) installed on the network.

This data is used to produce monthly speed reports and provides information for local studies whenever possible and/or necessary.



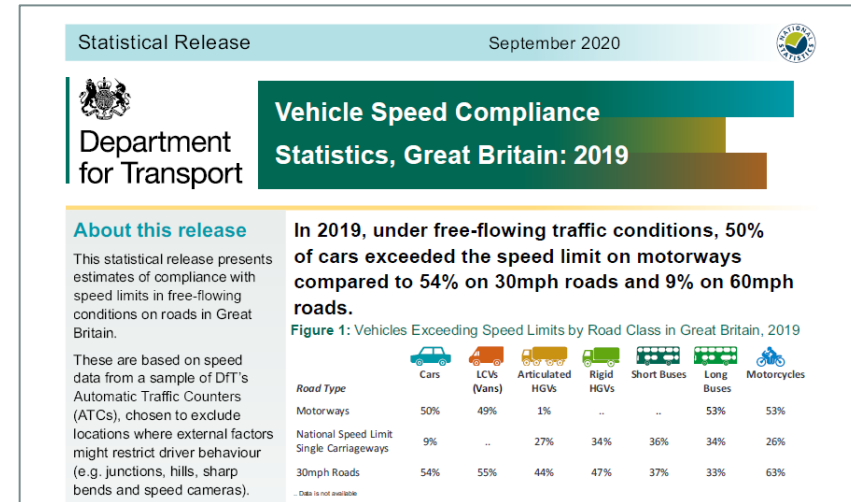


**ascendi**

Concessão: LCP AE A29  
 CAV 302 (Canelas - IC2 (Arrábida)) A29 PK 51+000  
 Mês: 2 Ano: 2020  
 VLegal Crescente: 100 km/h VLegal Decrescente: 100 km/h

Dia	V85 (km/h)		Média Velocidade (km/h)		Desvio Padrão (km/h)		Velocidade Máxima (km/h)		Velocidade Mínima (km/h)		Passagens acima Velocidade Máxima / N (%)		veículos/Dia		Amostr. (N) / Contagem (%)		% de vec. circula 10% acima da VLegal		Velocidade Média (01:00-02:00)	
	Cresc.	Decr.	Cresc.	Decr.	Cresc.	Decr.	Cresc.	Decr.	Cresc.	Decr.	Cresc.	Decr.	Cresc.	Decr.	Cresc.	Decr.	Cresc.	Decr.	Cresc.	Decr.
1	116	118	97,18	95,16	28,3	20,1	217	159	42	43	34	42	862	902	26,45	40,58	6,96	8,87	95,6	93,3
2	120	117	104,39	97,15	22,4	20,3	220	158	43	58	36	39	806	774	26,05	36,95	8,19	8,79	92,71	90,5
3	118	117	101,76	97,19	32,8	19,6	227	164	41	56	37	44	1294	1250	25,66	35,36	7,57	10,24	113,33	76,33
4	119	119	95,31	98,03	27,4	22,4	146	220	41	48	35	45	990	1062	19,39	37,85	6,87	11,3	76	115
5	120	121	99,89	103,98	27,9	17,4	222	155	41	61	35	50	1164	1054	23,71	33,4	7,39	11,01	108	121
6	120	122	100,83	103,65	28,1	17	222	145	41	61	35	48	1328	1084	22,44	32,29	7,68	9,78	106	
7	122	128	99,94	106,97	36,4	19,7	223	155	42	41	31	54	702	728	22,22	32,78	7,98	14,33	94	78
11	128	114	104,62	92,98	37,3	17,5	228	140	47	69	32	33	400	336	19,5	29,76	8,5	6,55		
12	125	118	107,02	97,58	35	18,6	217	148	43	55	33	41	578	586	22,15	37,54	8,65	9,9	111	98
13	116	117	99,73	96,62	25,9	19,6	211	145	42	56	31	41	728	644	21,15	33,23	7,14	8,39	90	88,5
14	115	118	98,22	100,66	21,7	19,7	147	150	41	53	31	39	804	728	16,67	28,65	3,98	7,99		
15	136	124	110,24	107,74	42,5	15,8	222	146	42	73	32	39	706	568	18,98	19,01	9,35	8,8	109	113,75
16	119	148	100,2	118	37,2	19,3	218	156	42	82	25	34	354	300	16,95	15,33	6,78	8,67	180	

## SPEED YEARBOOK

- The Speed Yearbook aims to annually characterize the speed on Ascendi’s network, specifically by quantifying average speed and speeding.
- This yearbook was based on the UK Department for Transport (DoT) document “Vehicle Speed Compliance Statistics”.
- The first edition was produced in 2021 and refers to 2020 data – Speed Yearbook 2020.
- The work is being elaborated by the *Instituto da Construção* that is an interface entity of the Faculty of Engineering of the University of Porto.
- The document analyzes the speed indicators for the network, concessions and highways levels.

## Anuário de Velocidades 2020

Análise das velocidades praticadas na rede Ascendi

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**SPEED YEARBOOK 2020**

Ascendi network operational speed analysis

Em colaboração com o Instituto da Construção (IC), outubro de 2021  
In collaboration with Instituto da Construção, October 2021



## SPEED YEARBOOK








- The Average Speed on the network in 2020 was 102,5 km/h and the average speeding reached 36%.
- Ascendi's road network has 107 active AVCs, corresponding to a coverage of about 38%.
- The PI concession was the one with the highest Average Speed (110,5 km/h), as well as speeding (49%)
- Speed limits range from 80 km/h to 120 km/h, and higher speeding was recorded in areas where it is set to 100 and 90 km/h.

Destaque 2020

### Limites de Velocidade

Speed Limits

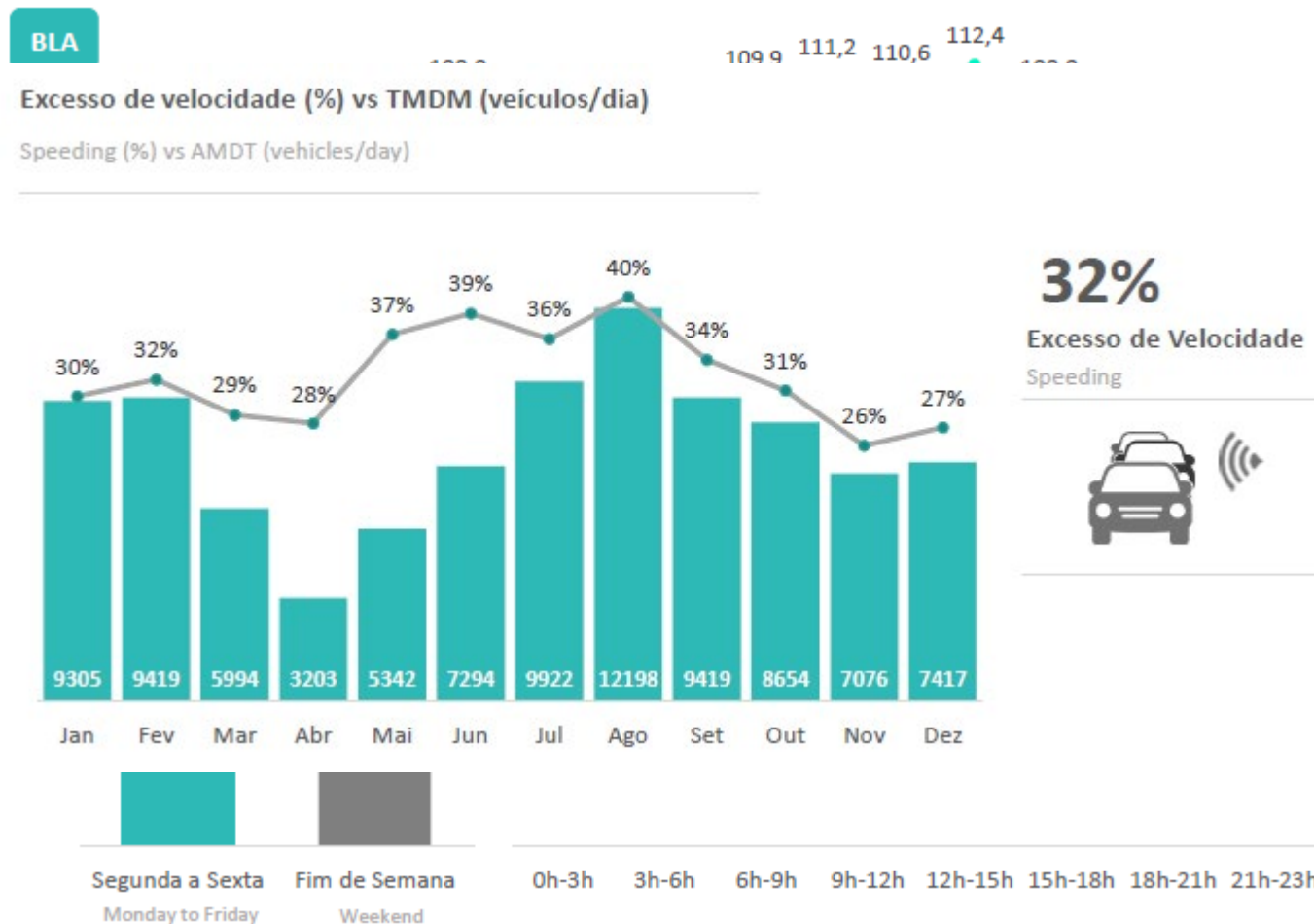


	 <b>Número de CAVs</b> Number of AVCs	 <b>Velocidade Média</b> Average Speed	 <b>Excesso de Velocidade</b> Speeding
	35 CAVs	110,3 km/h	32%
	38 CAVs	101,3 km/h	46%
	1 CAVs	72,6 km/h	32%
	3 CAVs	79,3 km/h	45%
	<b>Velocidade Média</b> Average Speed		<b>Excesso de Velocidade</b> Speeding

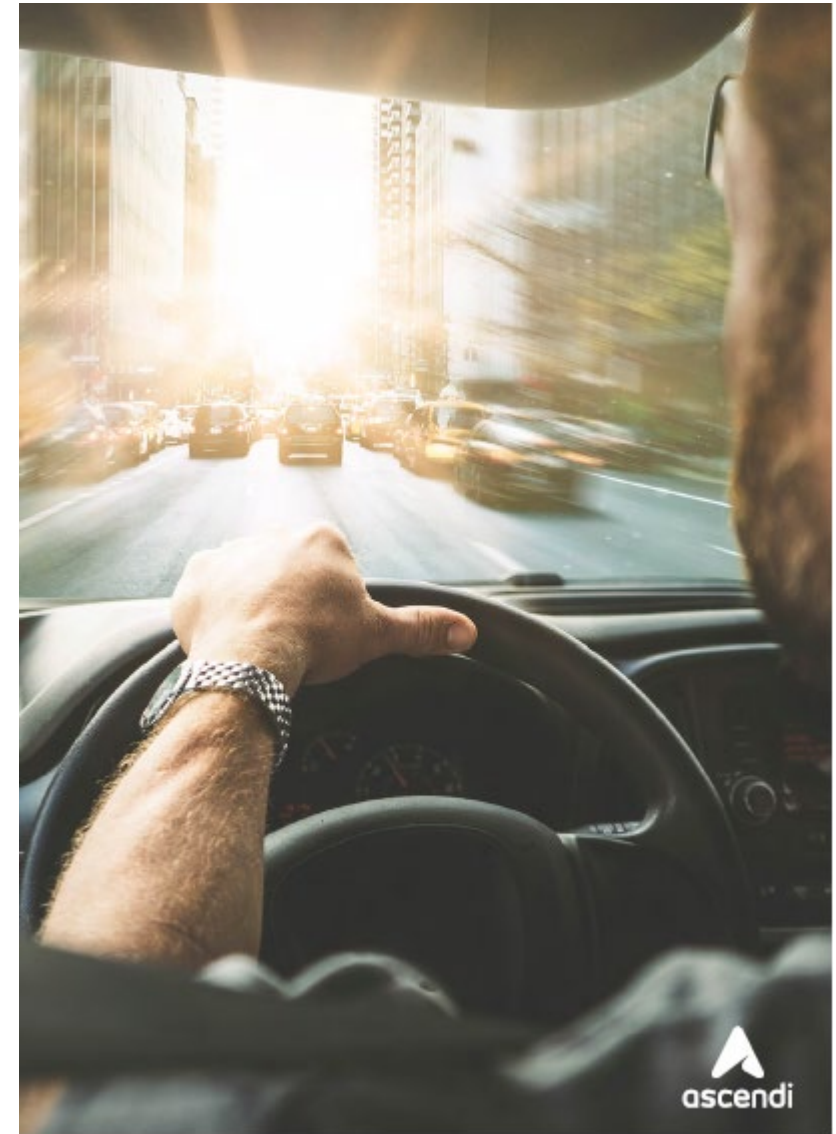



AS AN EXAMPLE OF ANALYSIS BY CONCESSION – BLA

- The BLA concession has 1 highway: A25 – 172 km (Aveiro – Viseu ).
- The Speed Limit varies from 100 to 120 km/h (in the AVC’s locations).
- The average speed in 2020 was 108,4 km/h, and the highest records were detected on weekends.
- There was a dramatic decrease in traffic in April (covid-19 lockdown) however, speeding suffered a slight decrease.



- The 2021's version of the Speed Yearbook is set to be ready by the end of April 2022, as Ascendi strongly believes that:
- Data-driven decisions are the best way to consistently reduce road accidents
- Therefore, collecting information and producing road safety indicators are a key instrument to any road operator
- The public dissemination of this information is advantage because it quantifies the problem (both internally and externally) as also opens the way to improvements on:
  - Quality of data and indicators.
  - Compare and benchmark the best examples.
  - Setting the problem of road safety on an operator's strategic level.





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