Driving patterns of young drivers within a graduated driver licensing system

Tsippy Lotan, Or Yarok, Israel Tomer Toledo, Technion, Israel

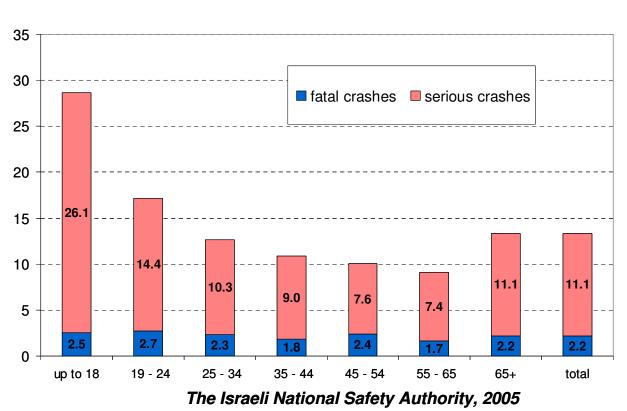
TRB, January 2007





Young Drivers in Israel

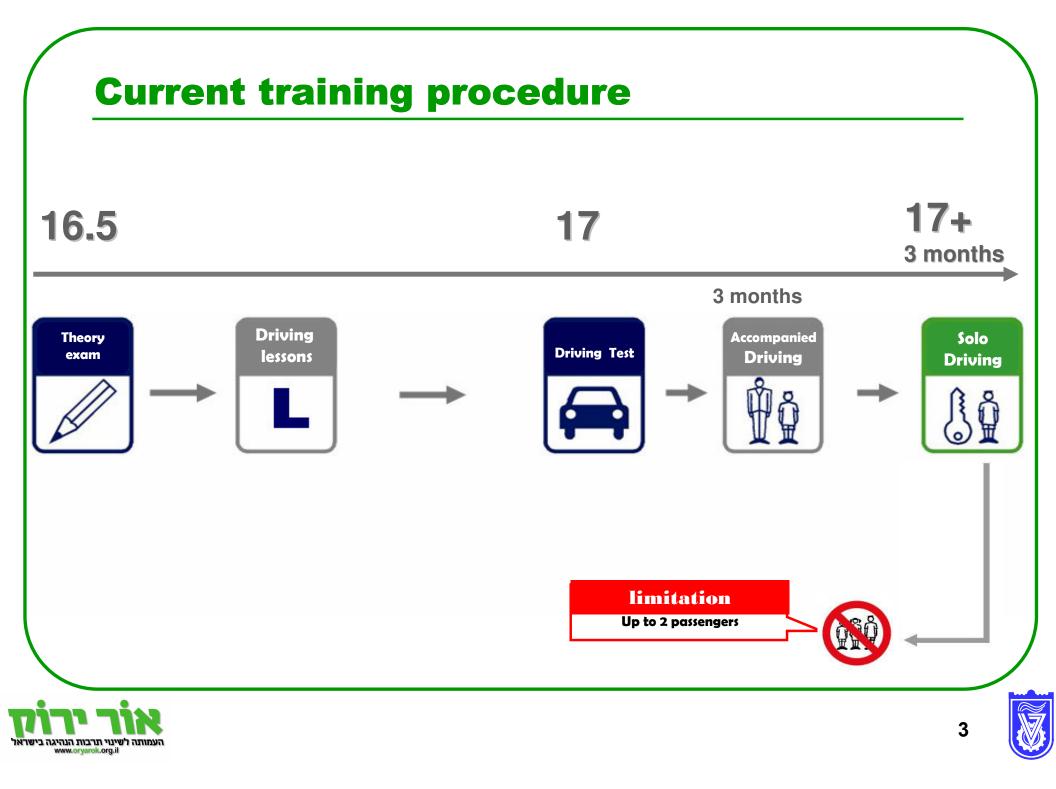
Basically they are like young drivers elsewhere



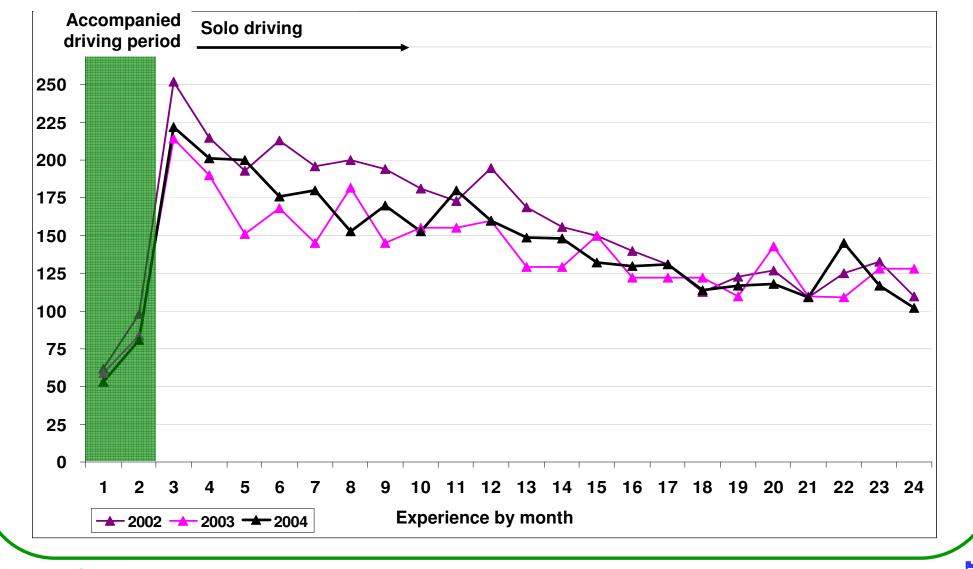
Driver's involvement rate in car crashes drivers involved for 10,000 drivers







Young drivers involved in car crashes by experience (2002-2004)

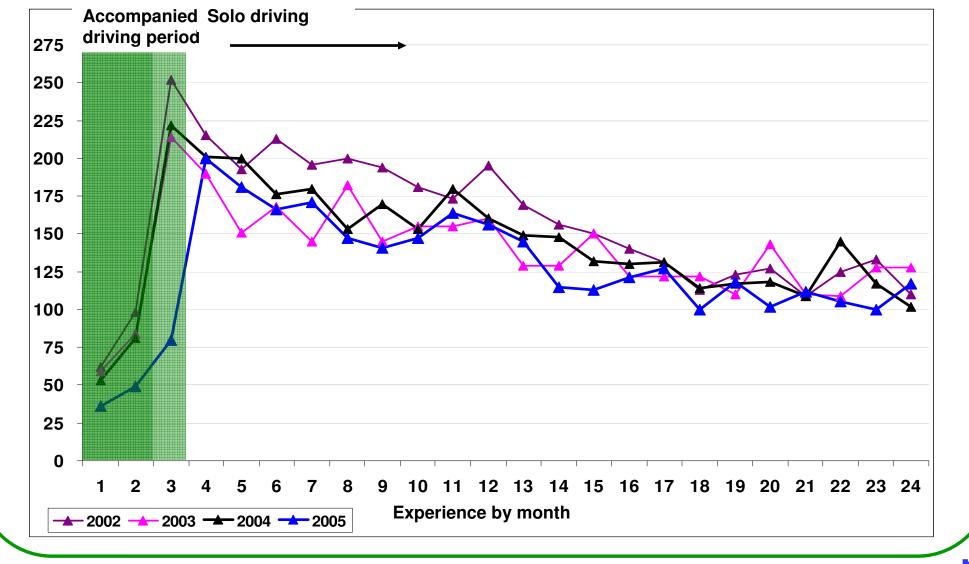


הלשכה המרכזית לסטטיסטיקה

CENTRAL BUREAU OF STATISTICS



Young drivers involved in car crashes by experience (2002-2005)







GREEN BOX



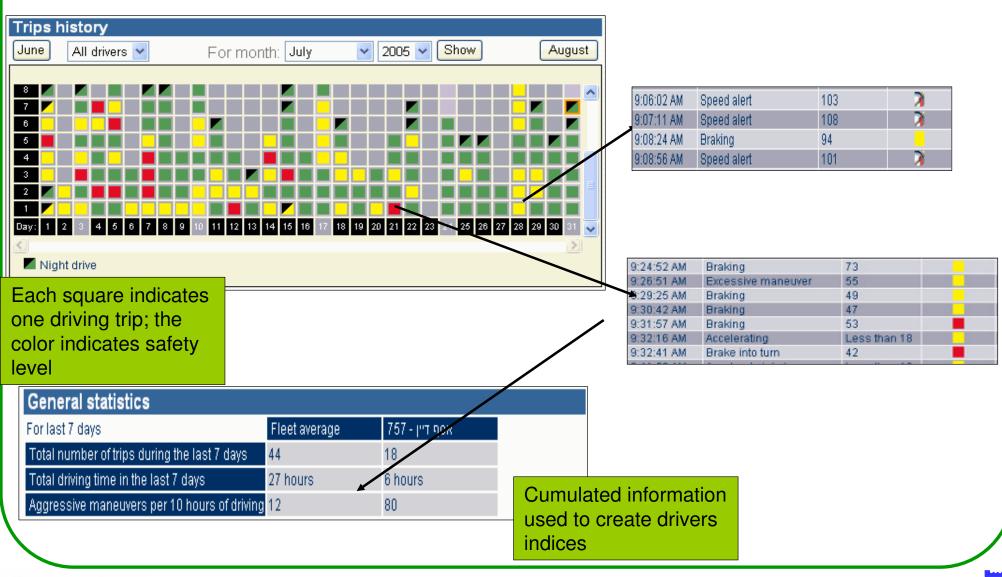








Web reports





Profiles of Drivers

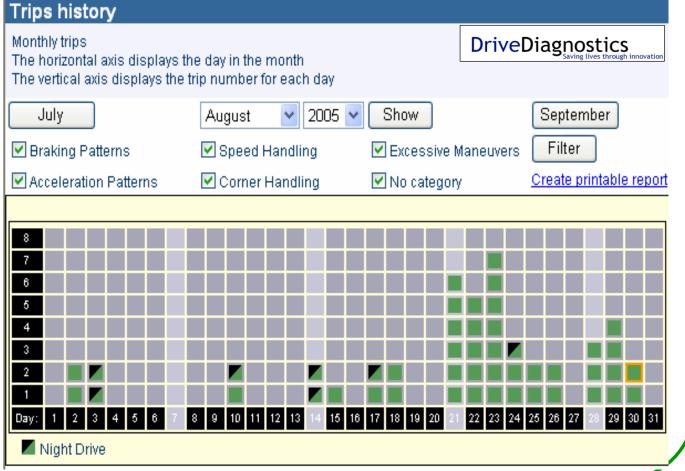
<u>Green driver</u>	
	4 3 2 1 1 2 3 4 5 6 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 28 29 30 31 31 31 31 31 31 31 31 31 31
<u>Yellow driver</u>	7 7 8
<u>Red driver</u>	5 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 30 31 30 30 31 30 30 30 31 30 30 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31





How do young drivers really drive?





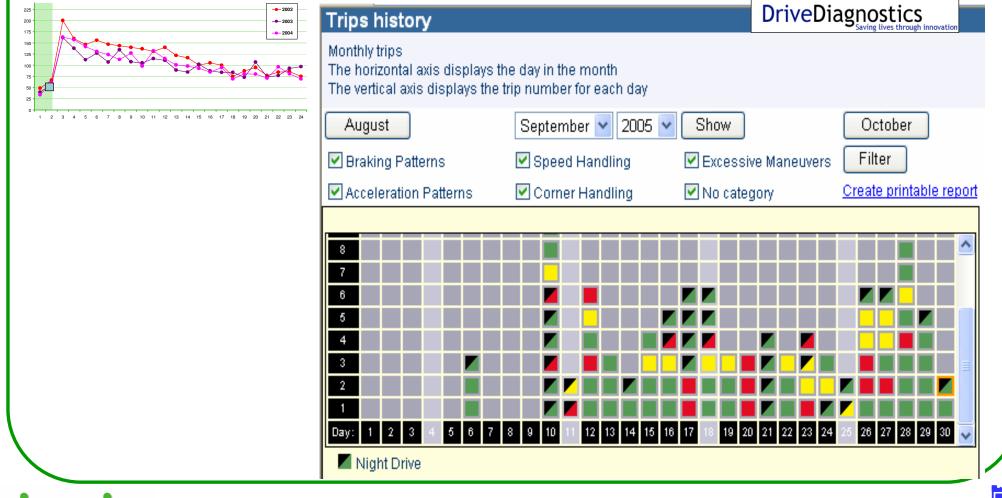


ACCOMPANIED PHASE, NO FEEDBACK



9

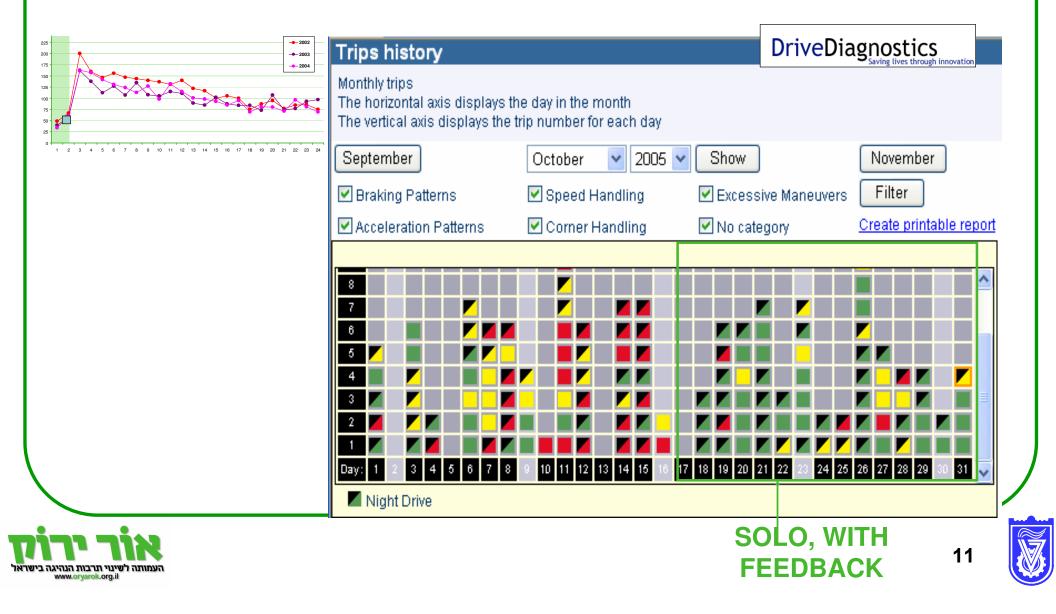
How do young drivers really drive?







How do young drivers really drive?





31 YOUNG DRIVERS 20 MALES 11 FEMALES

AVERAGE AGE: 17 and 4 MONTHS

2842 DRIVING HOURS

8246 TRIPS





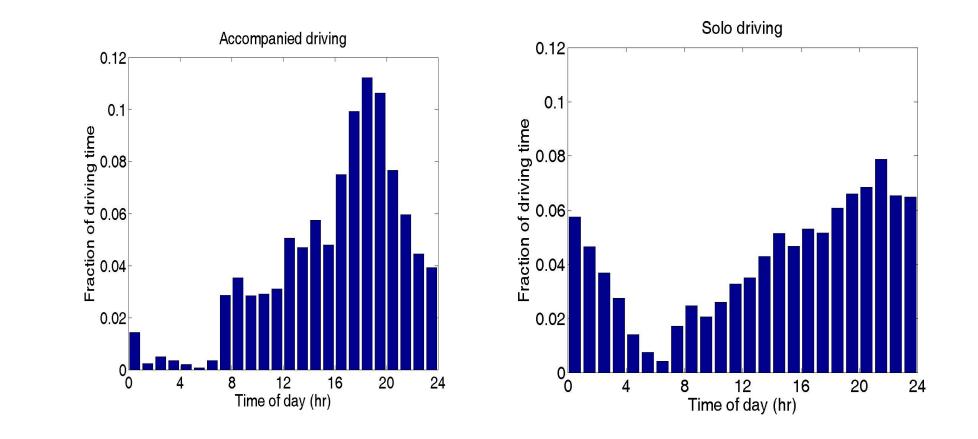
12

How much do young drivers really drive?

	accompanied driving	solo driving			
hours per week	2.02	4.45			
trips per week	4.82	13.22			
trip length	25.2	21.3			

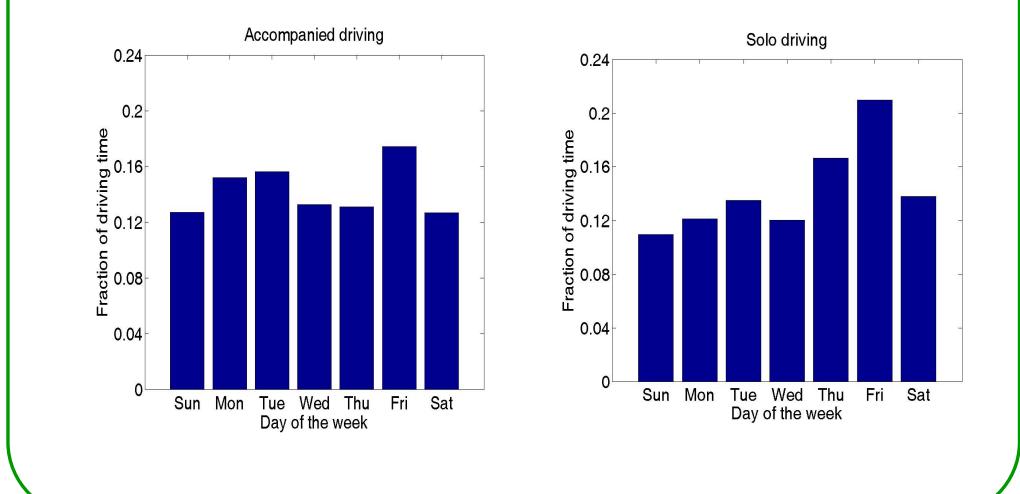


Distribution during the day



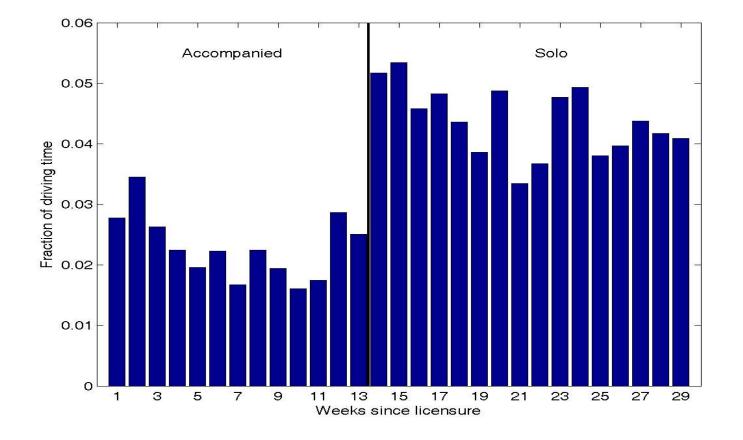


Distribution during the week





Distribution of the weeks







Difference between boys and girls

	bo	ys	girls			
	accompanied	solo	accompanied	solo		
hours per week	2.25	2.25 4.99		3.55		
% of weekend driving	31.3	36.1	31.0	30.4		





Comparison with self reports

Ne Dive	Date	Mecra Place	Глубина Depth	Время Dive Time	Подробности Dive Details	Подлиси партноров Signature of partners
360	5.11.03	Maldives Kuda Gioi Wrick	30.2	55	Cynep! Chorean wreck c frog grundan, voren Turne c equan a esterperanue, richtur genegt is jack-prima.	HALEESHA Januar
367	5.11.03	Maldive 8 Kandooma Thila	28.5	47	Скогала пратов сригкного тиския. По праство! Бенна, препака, послада, прока, тосяне бавака практа.	MALEESHA
368	5.11.03	Maldives Felidu Atoll Fushi Kandu	28.2	48	виделя иринно акуля, сказа, полетров, напо- псопов. Гопанся за нам, цаже устал.	Phing CRUISE
369	6.11.03	Maldives Fotteyo Out	30.2	52	Ucean xandrepse, into the blue" Betain 6 5.30 Xpin tan, a ne xantepar!	MALEESHA
370	6.11.03	Maldives Fottego	42.1	52	Characa jack-fish ball na my- dune 42n, action because unappen a obspream spread	Phing CRUISE

About your Organ	nisation								
Please lick asingle cales	pory only								
1 In years, which of the following time spans most organisation has been running?	closely illustrate	s how long ti	ne	3)	Av g.	-	of quest		nes: 289 No ans.
					0.03	Contraction of the	Data and	1-10-725	10000000000
0-5 years 🔲 6-10 years 🔲 11-15 years	16-25 ye	ars 🛛 2	Spius years 💷		8,83	210	48	7	24
2 Which of the following structures most closely re	present the orga	anisation?			7.28				
single unitsile 🔲 hao unitsile 🔲 ha	ee uni islie 🛛 🛙	a mulip	le uni isile 🔲		7,23	156	100	29	4
3 Which of the following categories most accurate	ly illustrate the n	umber of em	ployees		9,24				
that work for the organisation?					9,35	256	19	9	6
0-5 employees 🔲 6-10 employees 🔲 11-15 employees	16-25 employ		employees 🗖		9,41	249	16	8	16
Us employees a situ employees a This employees	10-25 employ	es 🔲 Spin	employees 🔤		8,95	202	33	9	45
Section 2					7,83	1			
Your Views on Rec					80,8	192	78	16	3
Tour views on Rec	ruument				7,85	117	44	16	112
Please lick he box halmosiciosely represent your fedin	or, about each of be	stilouina s laieros	nt		7,55	117	56	19	97
from strongly agree lostrong	ly disagree	aloung raking			8,63				
	tonaly		stonaly		8,70	226	49	13	at a
 We have experienced problems in recruiting staff 	agree agree	disagree	disagree		8,56	147	26	14	102
 versite esperences provens interacting situal 					8,21				
5 We prefer to employ staff that are dready gudified	D D				8,36	175	53	13	48
					8.06	127	41	15	106
6 We rely on indning our own slatffor the purpose of recruitment.							- 24.		15.0
7 We would consider practing slaff from other organisations if					9,22				
necessary for our own recruitment reeds					9,39	258	23	6	2
8 The other or itigher wages by compellors has caused some of					9.04	190	23	10	66
our slam" bleave					7,38				
					7,48	142	60	28	59
Please ick asingle cales	pory only				7.57	135	54	25	75
9 We expect to keep staff for:					7.51	106	45	20	118
					6,94	55	15	20	199
underiyear 🔲 1 – 3 years 🔲	∔−6 years [1 7	plus years 🔲		8,87)	84	1980		100
					10100				









Comparison with self reports

	Green Box	self reports			
Hours per week	2.02	~6			
Trips per week	4.82	~7.5			
% of night driving	13.9%	~40%			



summary

- Significant differences between accompanied and SOLO driving
- During SOLO young drivers drive more, drive later at night, and drive more on weekends
- Results have been used to support policy





Current and future research

- Trip characteristics
- Relations with parents' driving
- Tools for wider dissemination
- Other target audiences





Thank you

Tsippy@oryarok.org.il



