

IBTTA, 84<sup>th</sup> Annual Meeting & Exhibition Denver, 11-14 September 2016



8:30am – 10:00am \* GENERAL SESSION PREPARING FOR PROGRESS - WHAT'S ON THE MAP AHEAD?

## It's a Commitment,

### Not Just a Communication Campaign

Bill M. Halkias, PE, F. ASCE, F. ITE

President, Hellenic Association of Toll Road Network \* HELLASTRON Managing Director & CEO, Attica Tollway Operations Authority \* Attikes Diadromes SA 2<sup>nd</sup> Vice President, Association Européenne des Concessionnaires d'Autoroutes et d'Ouvrages à Péage\* ASECAP

ellenic Association of Toll Road Network "HE	LLASTRON"		DENVER			
HERENALDINIKI	Members					
IQANNINA LARISSA ICOLIMENITSA TRIKALA	Project	Motorway Length (Km) (Including Sections Under Construction)	Completion (As of April 2016)			
LAMIN CAN	ATTIKI ODOS	70	Completed			
Real and a second	GEFYRA	3.5	Completed			
PATRA KORINTHOS ATHENS	EGNATIA ODOS	1.000 Including vertical axes	Main line completed Balkans axes in the nearfuture			
TRIPOLIS.	NEA ODOS	380	75%-Fully completed by 2017			
Legend SPART	MOREAS	205	95%-Fully completed by 2017			
Altica Tollway KALAMATA	AEGEAN MOTORWAY	256	90%-Fully completed by 2017			
- Nea Odos	OLYMPIA ODOS	202	76%-Fully completed by 2017			
- Moreas Motorway - Aegean Motorway		1000	and a second sec			
- Olympia Odos	KENTRIKIODOS	231	72%-Fully completed by 2017			
Kentriki Odos	TOTAL	2.344				





Build state of the art Motorways, Bridges and Tunnels

Sustain and improve Infrastructure quality and reliability

Implement Advanced Incident & Traffic Management

> Inform and Educate Current Road Users

Educate Children as Future Road Users

Provide continuous monitoring & improve road safety actions Focus of this presentation



## Priorities built on "Lessons Learned" by the first Greek Road Infrastructure Operators:

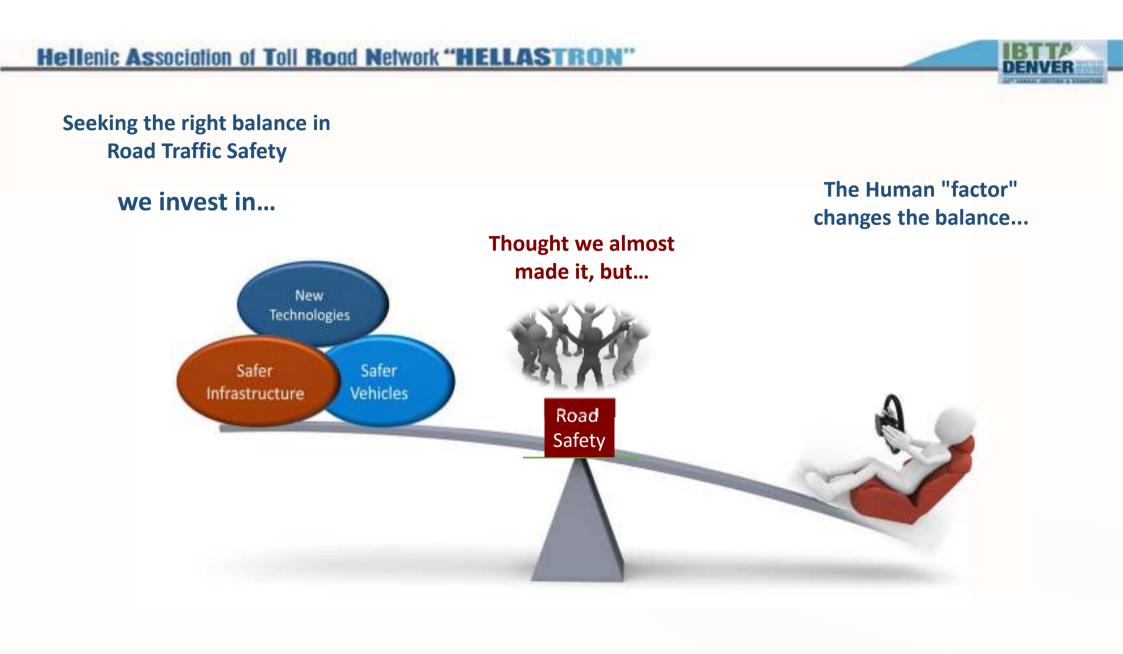


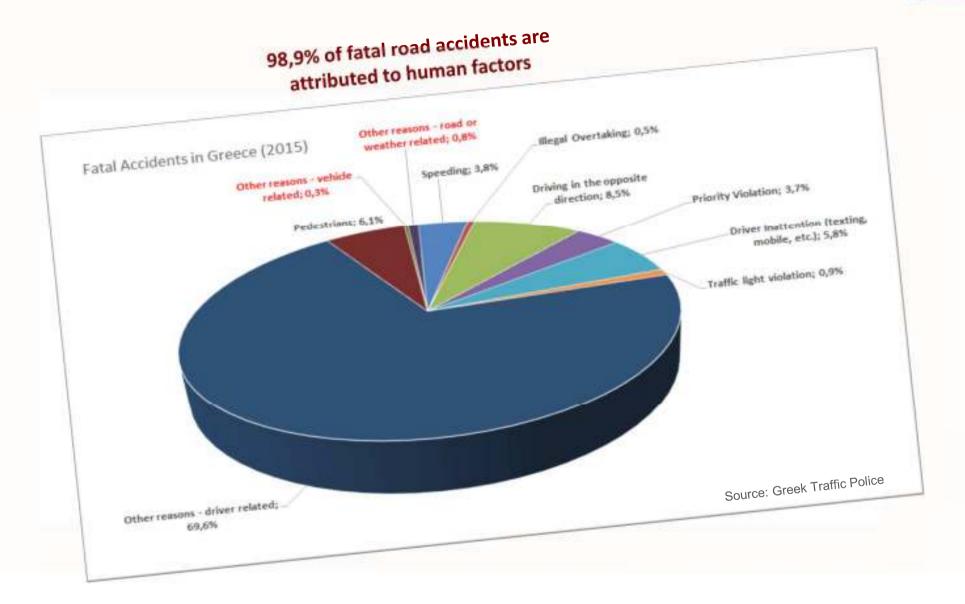
Attica Tollway (Attiki Odos)



**Gefyra** (Rion-Antirion Bridge)



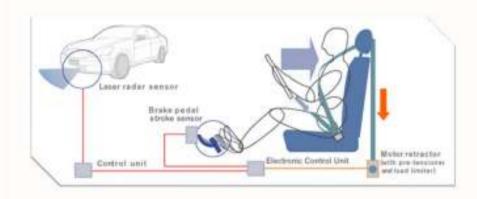


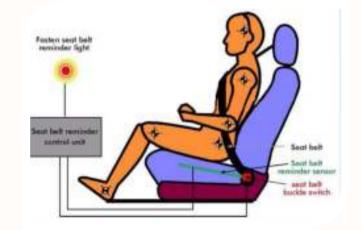


DENVER

### The Automobile Industry:

- Improves the Efficiency and the effectiveness of Seat Belts and Air Bags
- Employs <u>Space</u> and <u>Nano</u> technologies to design and produce "<u>Active</u>" and "<u>Smart</u>" seat belt mechanisms to protect vehicle passengers
- Follows International legal framework regulations and integrates "Not wearing seat belts" <u>Warning Systems</u> in all vehicle models...











The Added Value of the

device....

You can use it as a bottle opener! (While driving)?





#### Apparently,

Buyers of the "Seat Belt Buckle Alarm Stopper" think their body has been built to look like

#### Mr Graham (Australia's Superman)



"...Graham project: A reminder of just how vulnerable our bodies really are when speed and impact forces **as low as 30km/h** are at play. Graham becomes a catalyst for conversation and ultimately an educational tool. Graham shows us, what we might look like if we were built to survive on our roads..."



http://www.meetgraham.com.au

The Motorway Industry:

After thousands of scientific studies and papers, hundreds of methodologies and case studies used to design and implement vertical and horizontal signage to guide and inform the road users...



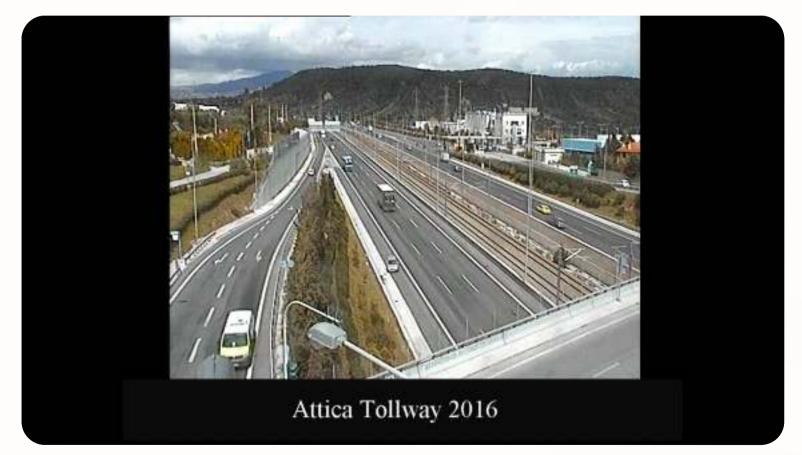


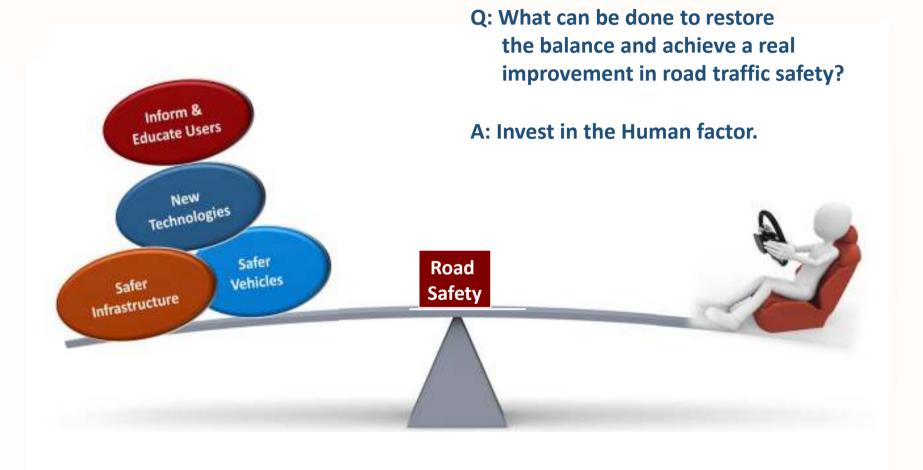


...and the Human Reaction:



I will go where I want to go, ... "no mater what"





DENVER



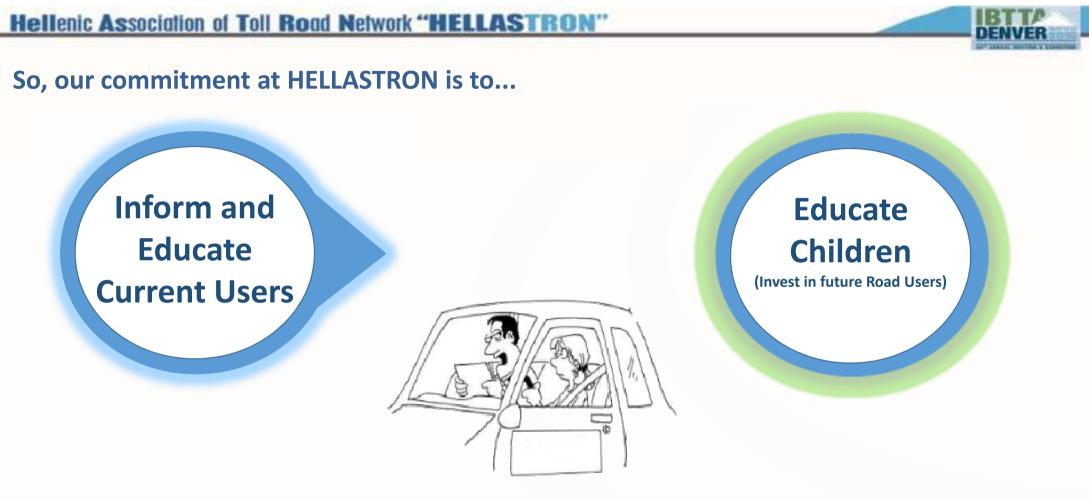


..and a Key European issue for Corporate Social Responsibility (CSR)

- Corporate social responsibility (CSR) actually embraces corporate issues such as occupational safety and health. Road safety is nowadays one oft he key issues in CSR. In Europe, *six over ten fatal work accidents are road accidents,* including both accidents while driving for work and commuting accidents. (\*)
- Recent estimates of the cost of road traffic crashes in the European Union indicate that health care costs are in the range of 9.000 euros per fatality and 16.000 euros per serious injury and the cost of road traffic injuries is an estimated 2% of a country's gross domestic product. (\*\*)

"In Europe, non-financial reporting (CSR) is expected to become a reality in 2017 for all corporations employing more than 500 employees, according to the EU Directive 2014/95/EU"

<sup>(\*)</sup> The work-related road risk in Europe: which extent? which prevention? February 2004 – Eurogip (<u>http://www.eurogip.fr/en/publications/index.htm</u>) (\*\*) "Preventing road traffic injury: a Public Health Perspective for Europe", WHO, 2004 (http://www.mobilityweek-europe.org/IMG/pdf/who\_mobility\_2. pdf) – Adjusted to 2015 prices



"Charon" Driving School

Okay. Now...., you have to drive into this modern motorway, while talking on your cell phone and changing songs on your smart phone...



Inform and Educate Current Users

## **Road Traffic Safety Campaigns**

Actions to increase <u>awareness</u> and change <u>dangerous habits</u> of users.



Inform and Educate Current Users

## **Road Traffic Safety Campaigns**

Actions to increase <u>awareness</u> and change <u>dangerous habits</u> of users.

The numerous campaigns, Increase the probability of success





Although humans tend to make systematic errors in judgment and bad decisions due to ingrained ways of thinking and thoughts or preconceived notions, continued education and intensive road traffic safety campaigns are used to change the balance...



- In 2004, only <u>10%</u> of the Greek motorway users knew the purpose of the Hard Shoulder Emergency Lane
- In 2016, <u>81%</u> of motorway users know the purpose of the Hard Shoulder Emergency Lane

And this action has made a positive impact throughout the country!

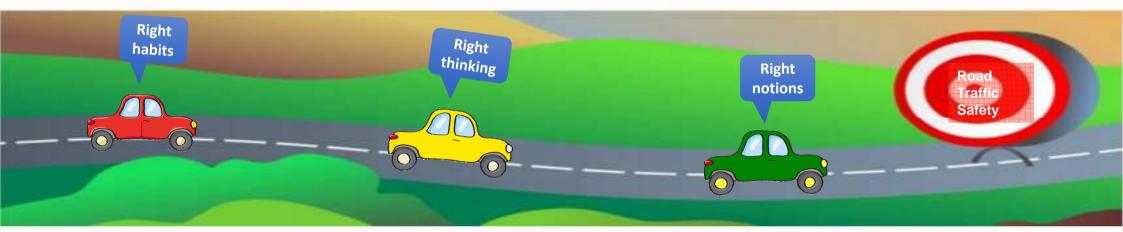








HELLASTRON members are focusing on the education of "future users" aiming to create:



# ...to leave the seeds of the importance of road safety...

#### Using:

- Experiential educational programs
- Interactive theatrical plays



Educate Children

Road Users)



More than 1,000 activities have been implemented for the education of "future users" during the last ten years.









# In total more than 100,000 "future users" have been educated on road safety during the last ten years.





## "Eyes on the Road"

#### **Road Safety Training Program by Attica Tollway**





- ➢ For students aged 14 − 18 (near future users)
- > A two hours training program, accredited by psychologists, teachers and physicians
- It Covers basic principles of road safety and road safety for motorcyclists (both as drivers and passengers).
- Participants complete an evaluation form before and after the program about their habits and thinking regarding road safety.





### The impact of the program is shown by the change of thinking and the preconceived notions of "future users"

Possible consequences of a "head on" crash with a speed of 60 Km/h



Based on the answers of 2,100 high-school student participants in the "Eyes on the Road" Program of Attica Tollway.



And the success of the "Eyes on the Road" Program of Attica Tollway, was acknowledged throughout Europe!!!





For the best road safety actions and initiatives undertaken within the framework of the European Road Safety Charter

> Attikes Diadromes, the Operator of Attiki Odos

Brusse 4th February 20

> Together we are road safety

The "Excellence in Road Safety" prize for 2015, was awarded to Attica Tollway (Attikes Diadromes) for:

"The Best road safety actions and initiatives undertaken within the framework of the European Road Safety Charter"





The European Commissioner for Mobility and Transport Mrs Violeta Bulc, handed out the award to Attikes Diadromes CEO, Mr Bill Halkias, in a special ceremony in Brussels on February 4, 2015.



## **Road Traffic Safety**

Requires <u>continuous monitoring and improvement</u> of the effectiveness of operations, especially when this "effectiveness" relates to the safety and convenience of 500,000 users driving daily on HELLASTRON's Network!





## Key Performance Indicators, Dedicated to Road Traffic Safety

## **Road Traffic Safety indicators**

Results	2009	2010	2011	2012	2013	2014	2015	2016
Total Crashes	72,30	56,70	65,60	55 <mark>,</mark> 80	48,60	46,20	35,40	39,10
Crashes due to object on the road	6,60	6,30	6,50	7,10	5,60	5,10	4,00	4,30
Crashes due to moving hazard	0,00	0,10	0,20	0,20	0,30	0,00	0,00	0,30
Crashes due to other incidents	10,20	7,20	5,60	5,30	4,40	3,80	3,20	3,50

(per 100 million vehicles x Kms)

Based on Attica Tollway (Attiki Odos) KPI monitoring system-2016 results





## At **"HELLASTRON"** we believe that the continuous Improvement of Road Traffic Safety

**CREATES and RETURNS** the appropriate "<u>VALUE</u>"

for the TOLL paid by the user.



## THANK YOU!



#### Bill Halkias, P.E., F.ASCE, F.ITE

President, Hellenic Association of Toll Road Network **\*** HELLASTRON bhalkias@hellastron.com **\*** www.hellastron.com

Managing Director & CEO, Attica Tollway Operations Authority **\*** Attikes Diadromes S.A. bhalkias@attikesdiadromes.gr **\*** www.aodos.gr

2nd Vice President, Association Européenne des Concessionnaires d'Autoroutes et d'Ouvrages à Péage \* ASECAP