

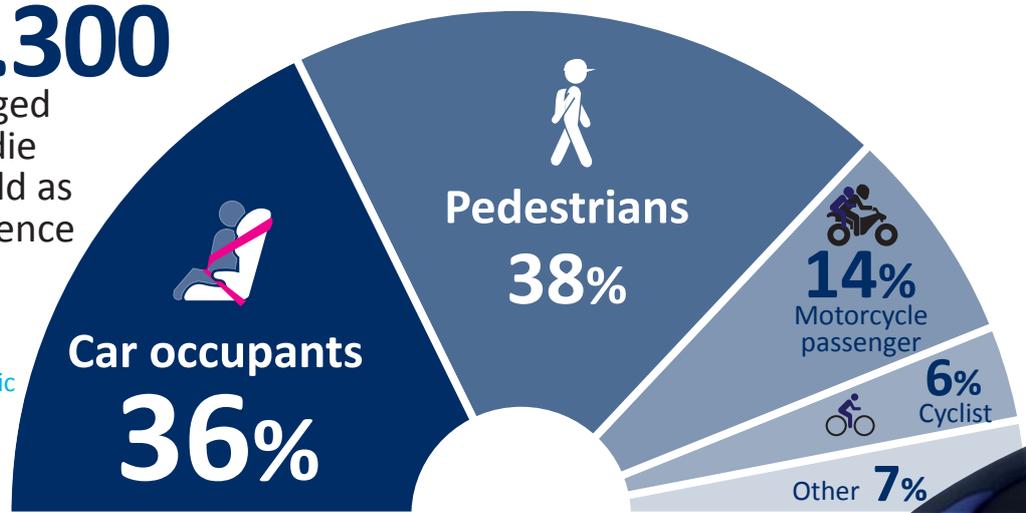
CRS AND ROAD SAFETY

Every year,

186.300

children aged under 18 die in the world as a consequence of traffic accidents.

36% of dead children in traffic accidents were occupants in a four-wheeled vehicle.



Every 8 minutes a child dies in a car accident

* The Convention on the Rights of the Child considers every human being under 18 a "child".

The Child Restraint System (CRS) is the only element of passive vehicle safety adapted for children

IT HELPS TO REDUCE THE CONSEQUENCES ON CHILDREN OF A CAR ACCIDENT

Other main passive safety elements are:



The body shell



Airbags



Seat belts



Head rests

Unlike CRS, the rest of passive safety elements are not designed for specific child protection and do not protect them properly in the event of collision.



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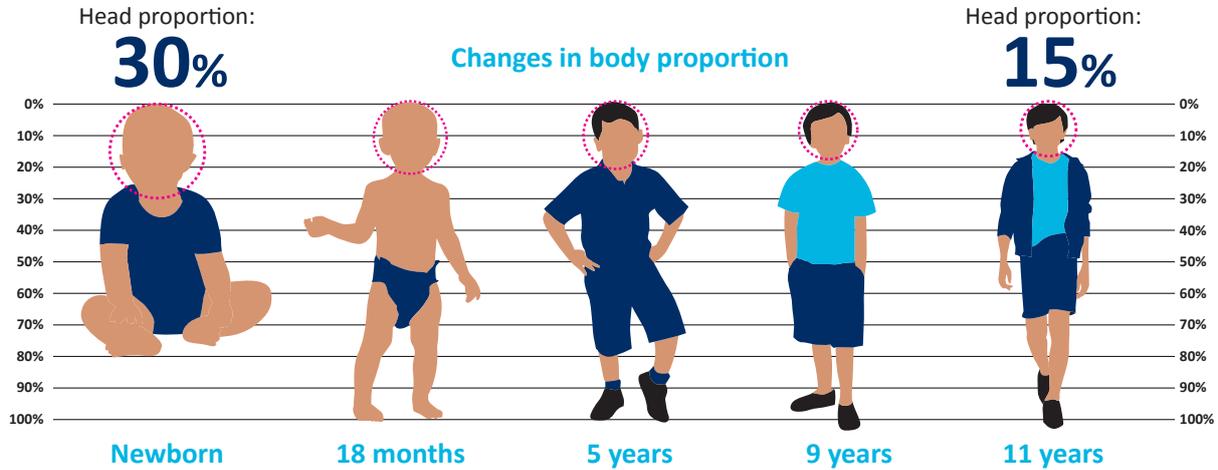
ROAD SAFETY GRANT PROGRAMME



A CRS for each growth phase

BODY EVOLUTION

In the countries with a specific regulation, **child seats are usually mandatory since child's birth until they are 10-12 years old**. During this period, the child's body undergoes an extraordinary transformation.



TYOLOGY OF CHILD SEATS

There are four basic types of child seats designed to provide the best protection in each growth phase.

(*) Homologated system which is not advisable because it does not provide any protection.



Rear-facing installation child seat (with harness):

It reduces, in case of a crash, the pressure on the neck and backbone which are very fragile.



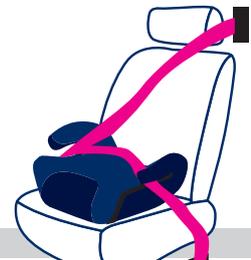
Forward-facing installation child seat:

the harness offers a maximum level of restraint to distribute the impact's force and prevent serious injuries to the head and abdomen.



Booster with backrest:

It restrains the child with the help of the vehicle's seat belt. The backrest offers a higher lateral protection.



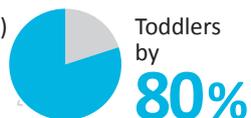
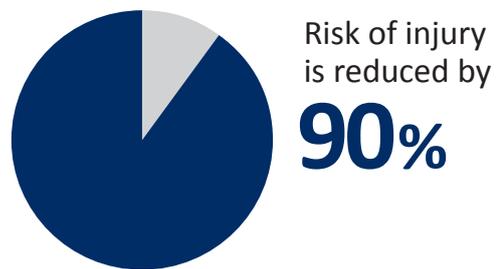
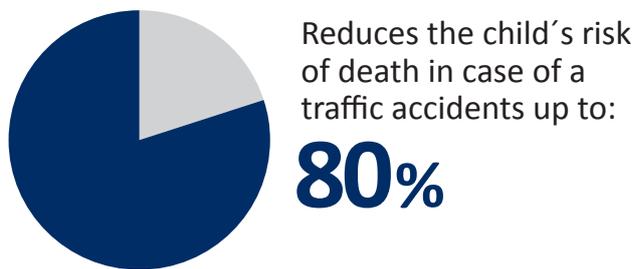
Booster without backrest*:

It restrains the child with help of the safety belt. It is recommended to use the booster with backrest as much as possible.



EFFECTIVENESS

The correct use of a Child Restraint System (CRS):



Legislation: countries with specific regulations on CRS

96 countries have a specific act on CRS use

56% countries
Child restrain law

44%
No child restrain law

But they only represent 32% of the global population

32%

68%

...and only 23% adequately supervises its enforcement

23%

77%

Main sources

Global status report on road safety 2013/15 (WHO).

Ten strategies to preserve child road safety (campaign #Savekidslive).

Seat belts and child restraint systems. A manual of road safety for decision-makers and professionals (FIA Foundation).

Seatbelts: current issues (University of California Berkeley Traffic Safety Center Newsletter, 2002).



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