



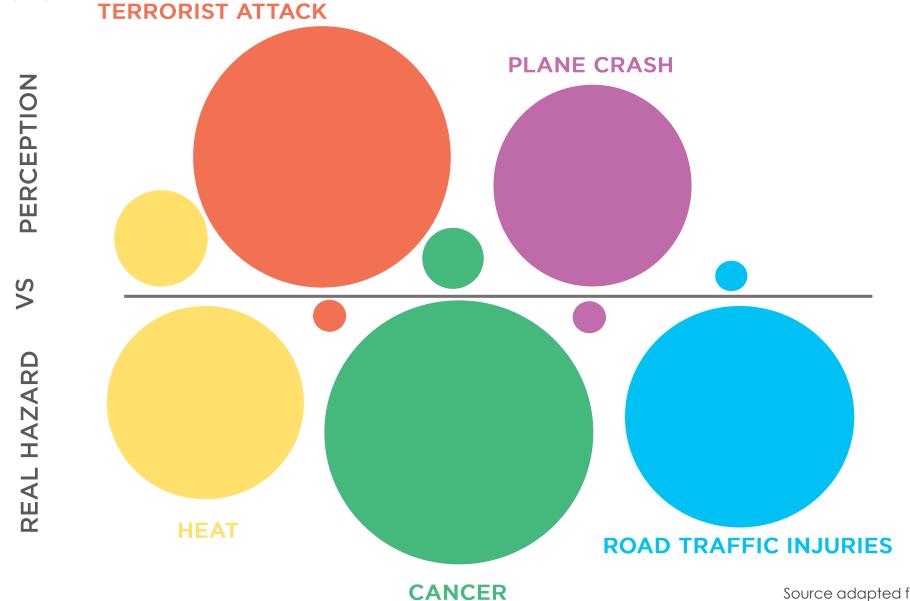
Deaths over 20 years of natural disasters



1.3 MILLION

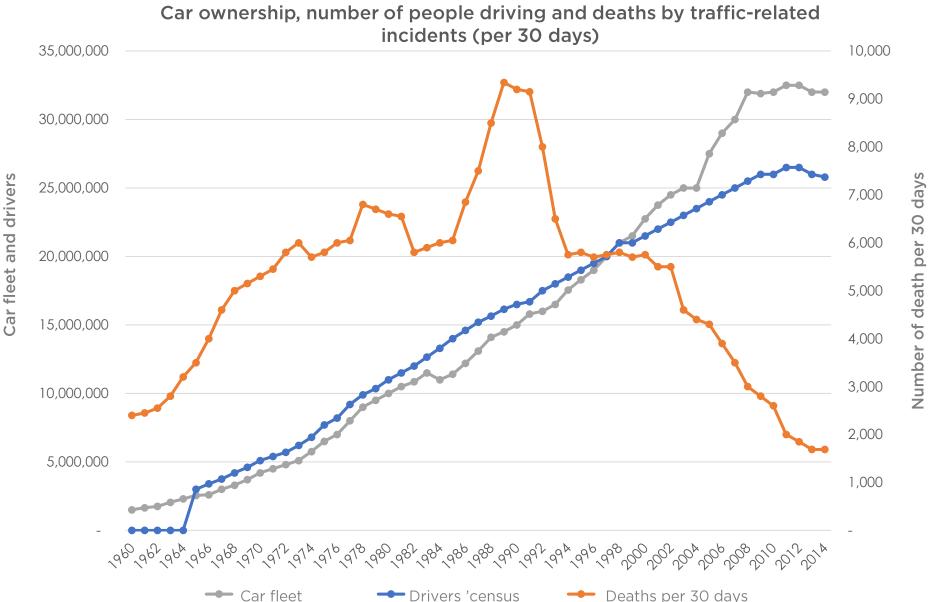
Source: UNISDR, 2013

Low risk perception of traffic-related incidents



It is a severe problem but it has solution







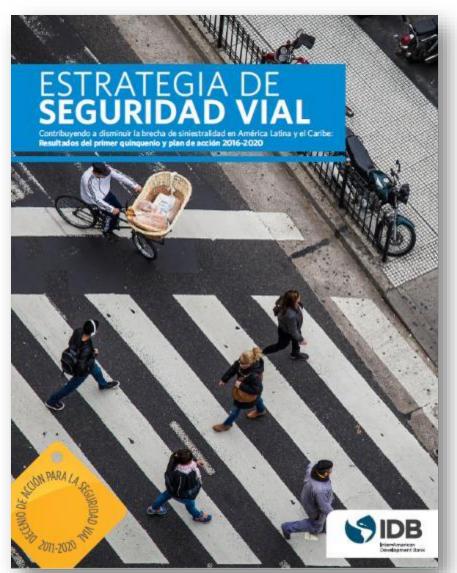


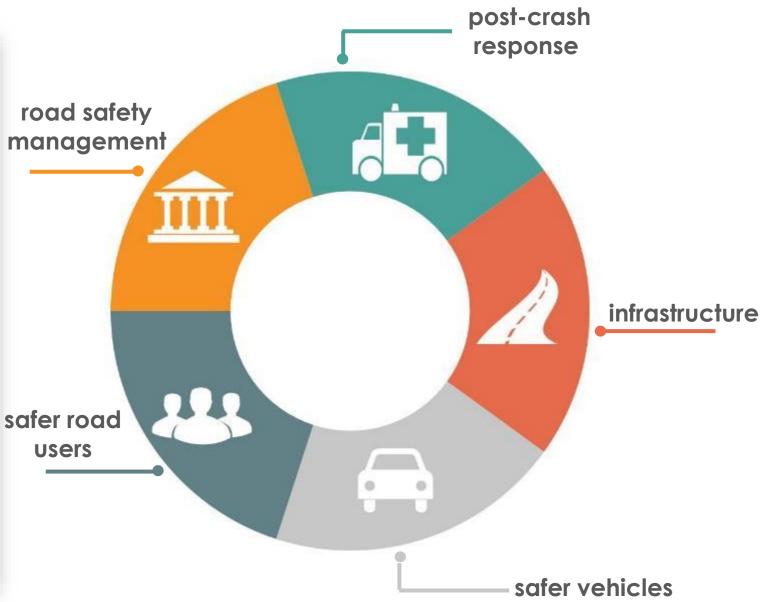
IDB Group Strategy and action plan

USD\$12 Bn Portfolio of transport projects

USD\$300 M investments in road safety

IDB Group - Road Safety Strategy





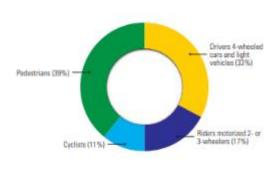




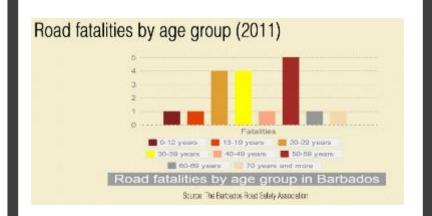
serious social and public health problem worldwide.

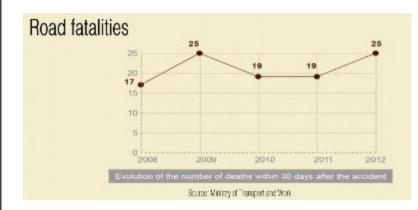
They should be considered as a health problem and thus be studied the same way as heart disease, cancer and cerebrovascular accidents,

because **they can be prevented**, and they respond well to interventions design for that"



Source: Royal Barbades Police Force (data from 2013).

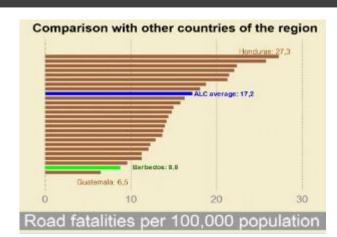




TRENDS IN REPORTED ROAD TRAFFIC DEATHS

Year	Deaths per 100 000 population
2010	6.8
2011	6.8
2012	10
2013	6.4

Source: Royal Barbados Police Force.

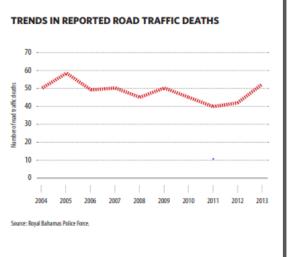


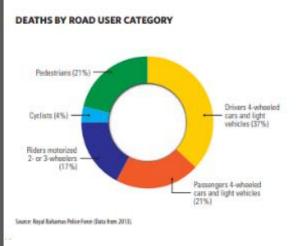
Barbados

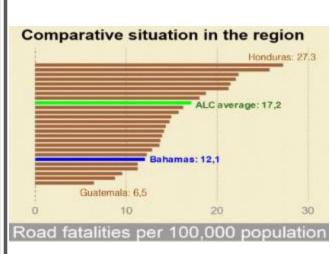


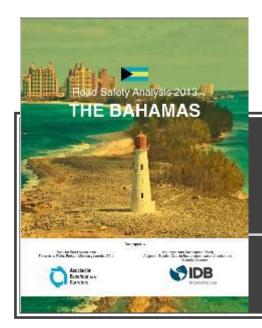


Road fatalities SU 76 68 68 44 45 69 10 2012 Evolution of the number of deaths within 30 days after the accident Source foc their operand.



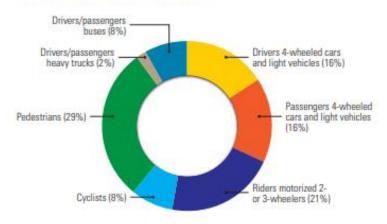






Bahamas

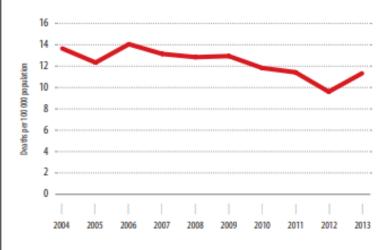




Source: Jamaica Constabulary Force (data from 2013).

Comparison with other countries of the region Honduras: 27,3 ALC average: 17.2 Jamaica: 9,6 Guatemala: 6,5 0 10 20 30 Road fatalities per 100,000 population

TRENDS IN REPORTED ROAD TRAFFIC DEATHS

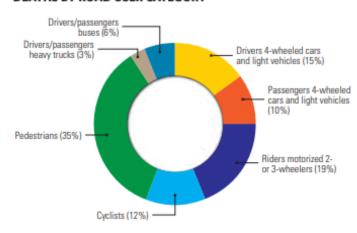


Source: Jamaica Constabulary Force.

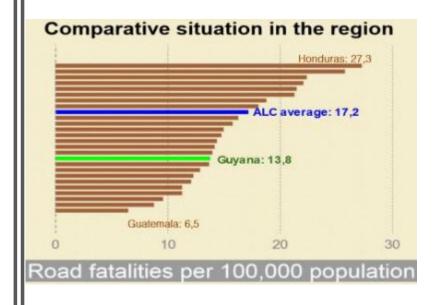


Jamaica

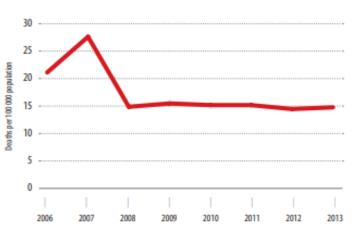




Source: Guyana Police Force (data from 2013).



TRENDS IN REPORTED ROAD TRAFFIC DEATHS

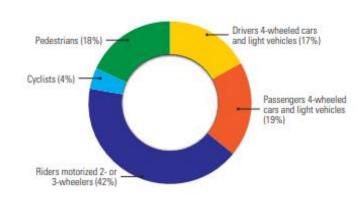


Source: Guyana Police Force.



Guyana

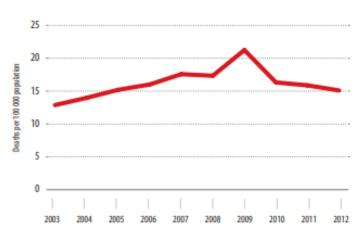




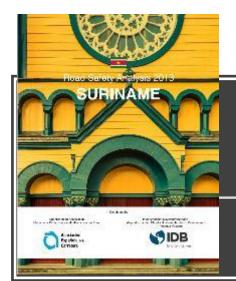
Source: Traffic Police/Ministry of Justice and Police (data from 2013).

Comparison with other countries of the region Honduras: 27,3 ALC average: 17,2 Suriname: 16,3 Guatemala: 6,5 0 10 20 30 Road fatalities per 100,000 population

TRENDS IN REPORTED ROAD TRAFFIC DEATHS

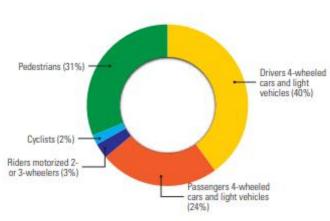


Source: Traffic Police/Ministry of Justice and Police / General Bureau of Statistics.

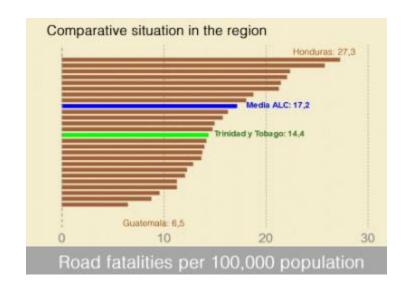


Suriname

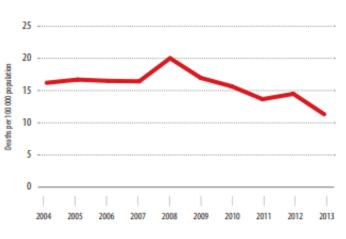




Source: Trinidad and Tobago Police Service (data from 2013).



TRENDS IN REPORTED ROAD TRAFFIC DEATHS



Source: Trinidad and Tobago Police Service

Road Sat Jawana Lais 2018 TRINIDAD AND TOBAGO Surrey of the second sec

Trinidad y Tobago



Safe System / Vision Zero

- Sweden approach to road safety.
- It is based on the simple fact that we are vulnerable humans and make mistakes.
- The road system needs to keep moving, but it must also be designed to protect us at every step.



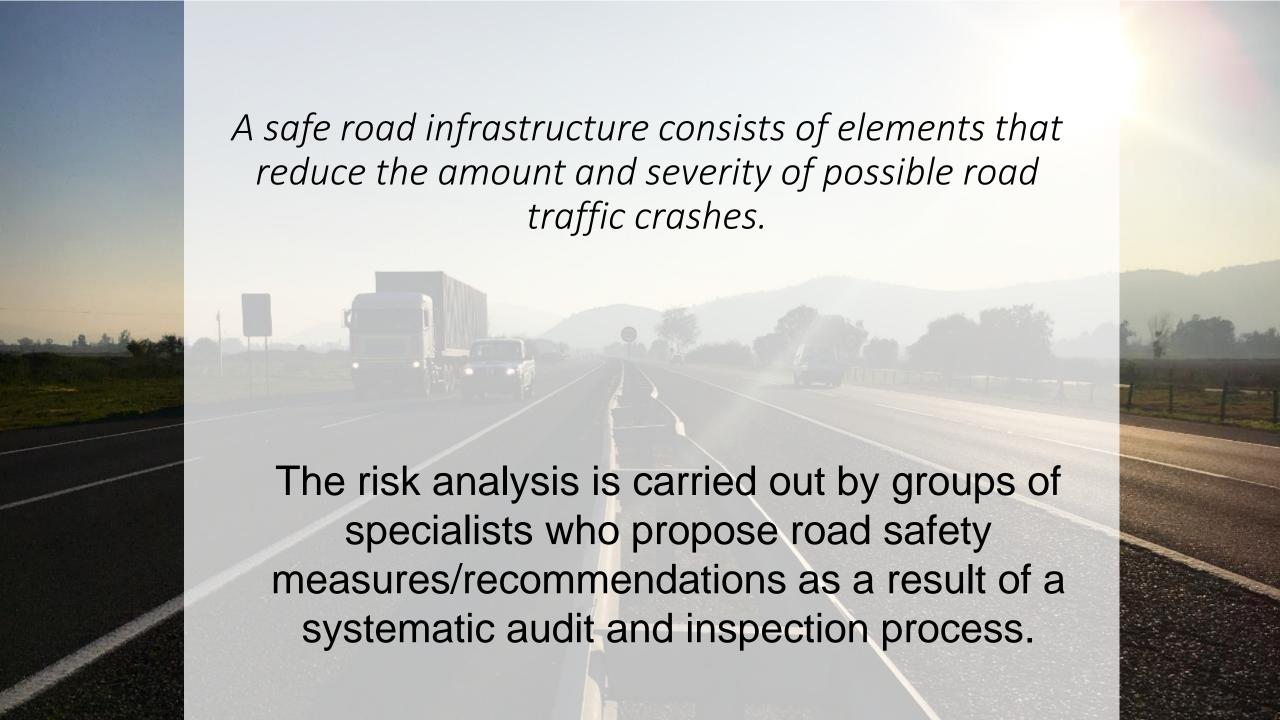
Traditional approach

Focus on accidents Perfect human behavior Individual responsibility Industry must be forced Saving lives is expensive

Vision Zero

Focus on fatalities and serious injuries Integrate human error into the design Shared responsibility System-design Industry can be stimulated Saving lives is not expensive Safe Road Infrastrucure





A RSA is a formal examination of a future route, in which the potential risk of road traffic crashes and road safety performance are reported; identifying the opportunity to improve safety for all users.



A RSI is a systematic review of an existing road or urban street, in order to identify potential hazards for different users and propose corrective measures.



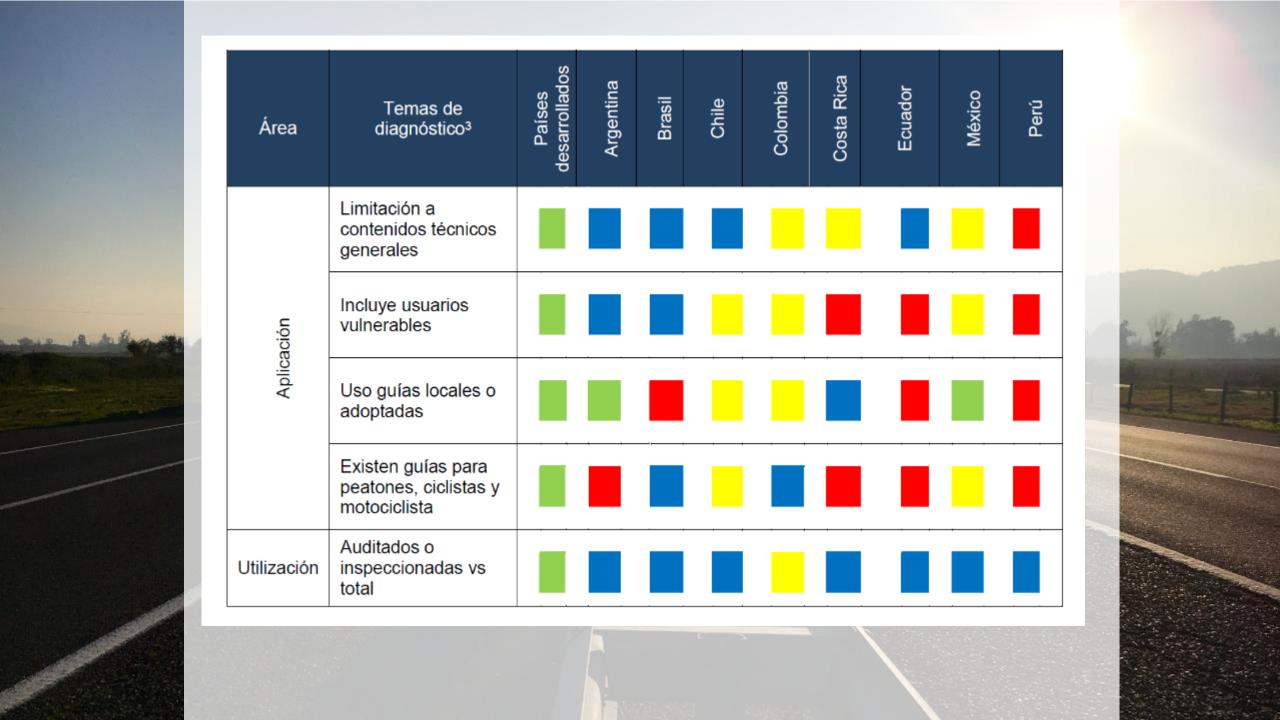
Resumen sobre el uso del ASV e ISV en los países latinoamericanos y en el conjunto los países desarrollados

Área	Temas de diagnóstico³	Países desarrollados	Argentina	Brasil	Chile	Colombia	Costa Rica	Ecuador	México	Perú
Gestión de la Seguridad Vial (SV)	La seguridad vial como política de estado									
	Existencia Plan de SV									
	Ejecución del Plan de SV									
Capacidad institucional	Existe entidad responsable de la SV									
	Existe entidad que reglamente las ASV e ISV									
	Acceso a la información sobre ASV e ISV									



Resumen sobre el uso del ASV e ISV en los países latinoamericanos y en el conjunto los países desarrollados

Área	Temas de diagnóstico ³	Países desarrollados	Argentina	Brasil	Chile	Colombia	Costa Rica	Ecuador	México	Perú
Aspectos normativos	Alcance									
	Obligatoriedad									
	TDR existentes									
contratación equipo auditor	Criterio de selección de los auditores									
	Formación académica mínima									
Requisitos	Certificación de auditores									





RSA and RSI Diagnosis and Guides

Best practices

Practical tools

Terms of References

Support in design and implementation



Technical guide for the aplication of Road Safety audits

- Developed from extensive international experience and advances in LAC.
- Contains detailed information on the basic principles, the application process, the profiles and obligations of those responsible for RSA.

Target Group

- The road safety audit teams and authorities in competent entities
- Professionals and technicians (planning, design, construction and operation of urban roads and highways).

RSA Principles

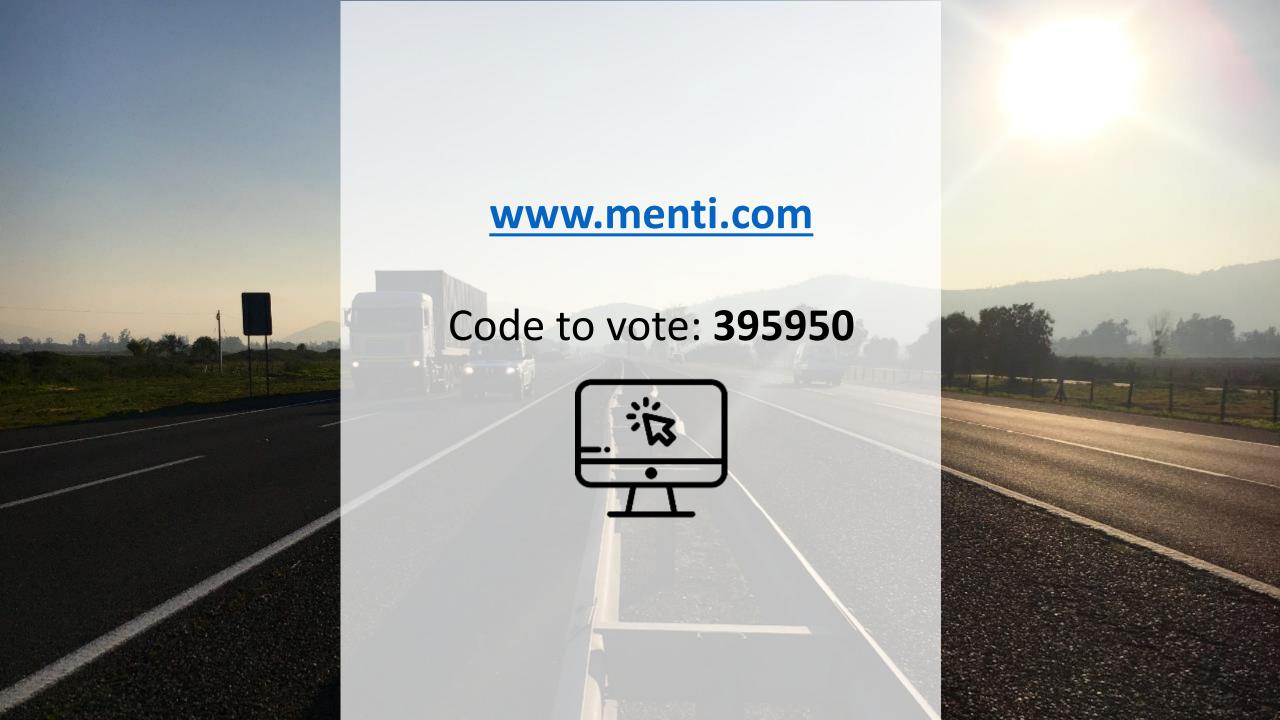
- ✓ It is up to the project developer to define the measures that he accepts to implement.
- ✓ The RSA do not replace the designer responsibility.
- ✓ The RSA must take into account all users of a road project.

- ✓ The earlier it can intervene, the lower the cost of road safety for society. IT IS BETTER AND EASIER TO PREVENT THAN REMEDY!
- ✓ The audit is based on **how users behave** and not on how they should behave or how we would like them to behave.
- ✓ The **homogeneity of the treatments** applied. Treat problems with similar characteristics with similar treatments to avoid confusion.
- ✓ Priorities must be **rational**. There will always be a shortage of resources and it is not enough to show an action to reduce the number of crashes. We must show that benefits outweigh the costs.
- ✓ The concepts of **cause and guilt must be abandoned**. It must be projected considering possible human errors and applying the concept of *Roads that Forgive*.
- ✓ Traffic exposure to dangerous situations must be reduced.

Technical guide for the aplication of Road Safety inspections

The Road Safety Inspection - RSI is a proactive tool developed through a systematic and regular review process on the site, of a section or of a road, by a trained team, expert in road safety and independent, in order to identify dangerous aspects, or deficiencies likely to trigger a road traffic crash, propose treatment measures and monitor their implementation.

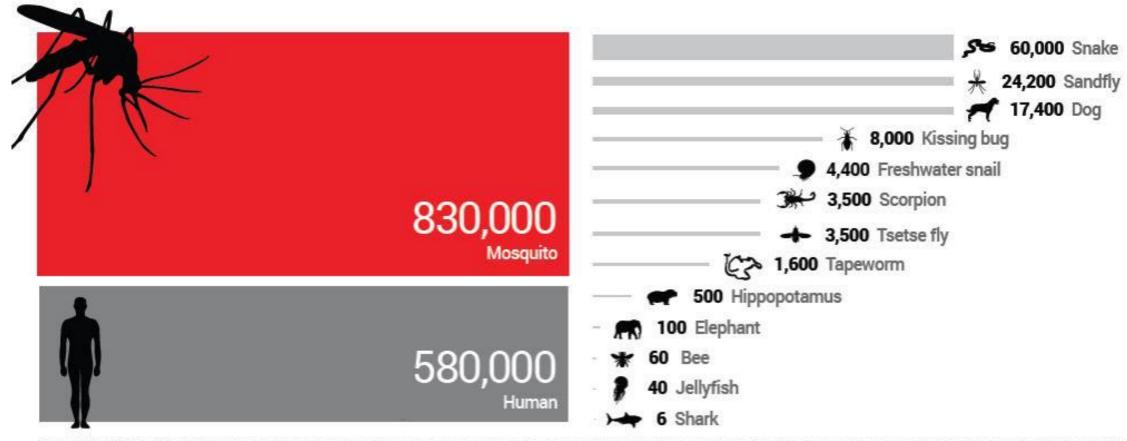
These are some criteria to select individual sections of roads to inspect: ☐ When a concentration of crashes is observed in the section, especially with various types of structures. ☐ When there is evidence or other information about problems in the section that makes a RSI prudent. ☐ When there are road safety deficiencies, potential hazards or the same type of crashes along the section. Inspections should be standardized and designed so that they can be systematic procedures and for this purpose it can be helpful to develop checklists.



The World's Deadliest Animals

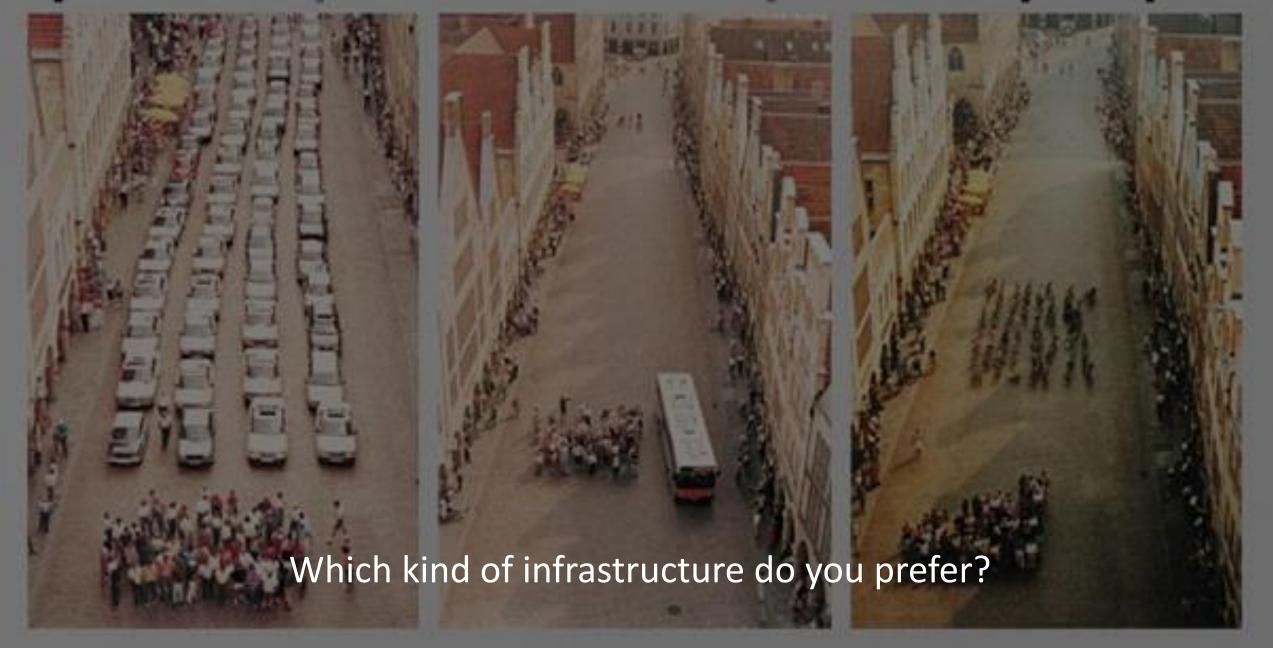
Number of people killed by animals, 2015





Sources: IHME, WHO, CrocBITE, FAO, Norwegian Institute for Nature Research, International Shark Attack File, National Geographic, PBS, National Science Foundation, CDC, WWF, Wilderness & Environmental Medicine, Nature, French Institute of Research for Development. All calculations have wide error margins.

space required to transport 60 people









1 Contextualization



Factors to considerer:

- Geographic diversity
- demographic
- Economic
- Social
- Politics
- Cultural

The "copy-paste" in solutions that serve in another location without considering these elements, can result in **poor results**

2 Key stakeholders and alliances

We commonly find the following involved:

School community (children, parents and teachers)

Surrounding community

Transit police

Planning agencies

Organized civil society (associations and organizations)

Private sector (sellers or businesses)

The projects in which more actors are involved with commitment are usually the most successful. A united community is vital!

3 Identifying the problematic



- With the support of the planning agencies and the traffic police, it is necessary to identify the points around the school that concentrate the highest frequency and severity where children are involved.
- In what time slots are the incidents concentrated?
- Which users are the most vulnerable?
- What land uses does the territory have in a radius range of 500 meters around?
- What speeds are recorded in nearby roads?



ANY SIMILARITY?





4 Diagnosis of school mobility



Some of the elements present in different initiatives are:

Origin-Destination Surveys

How do children get to school?

What are the most frequent routes?

School environment audits

- Sidewalk features
- School Transportation Features
- Characteristics of cycle paths
- Adjacent intersections
- Visual scope
- Traffic lights, beaconing, signage
- Barriers



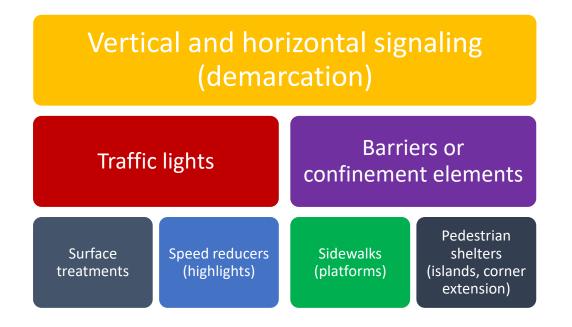
HOW DO CHILDREN ARRIVE TO SCHOOL?





5 Interventions (infrastructure)

In addition to <u>reducing and controlling speed in school environments</u>, the main elements that have been found in the initiatives studied are



6 Comunication

Communication is essential throughout the project:

- Before
- during
- After

It is very important that the project has its own identity. This will facilitate understanding and dissemination.



7 Financing - Funding

There are different funding sources for these projects that range from:

- 1. National or local grants or subsidies.
- 2. Multilateral Banking

Sustainability is a great challenge, so it is recommended to **integrate private initiative locally**



8 Monitoring and Evaluation

It is essential to have quantitative and qualitative measures; these measurements facilitate timely decision making as well as a clear surrender of externalities that are expected to be positive.

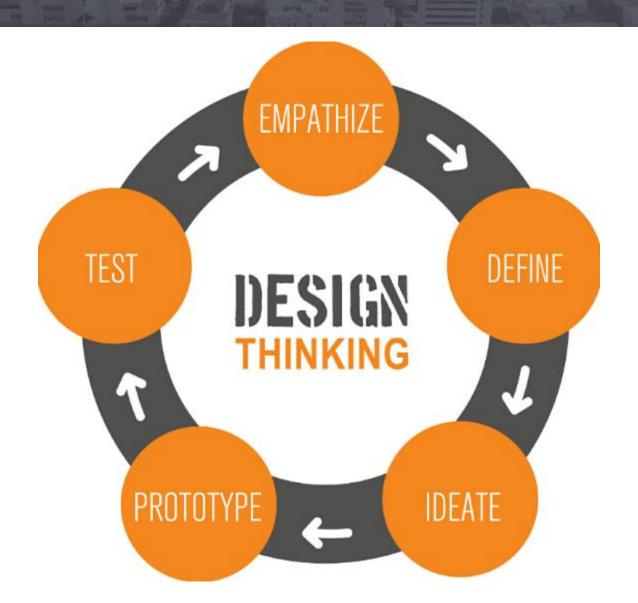


- Has the road risk problem decreased?
- Is there greater empowerment of children and their environment?
- Is there greater use of active modes (pedestrians and cyclists)?
- Is there a higher quality of service in public transport modes?
- Is there greater social cohesion?
- Who are the direct or indirect beneficiaries?
- Is there greater equity and inclusion?

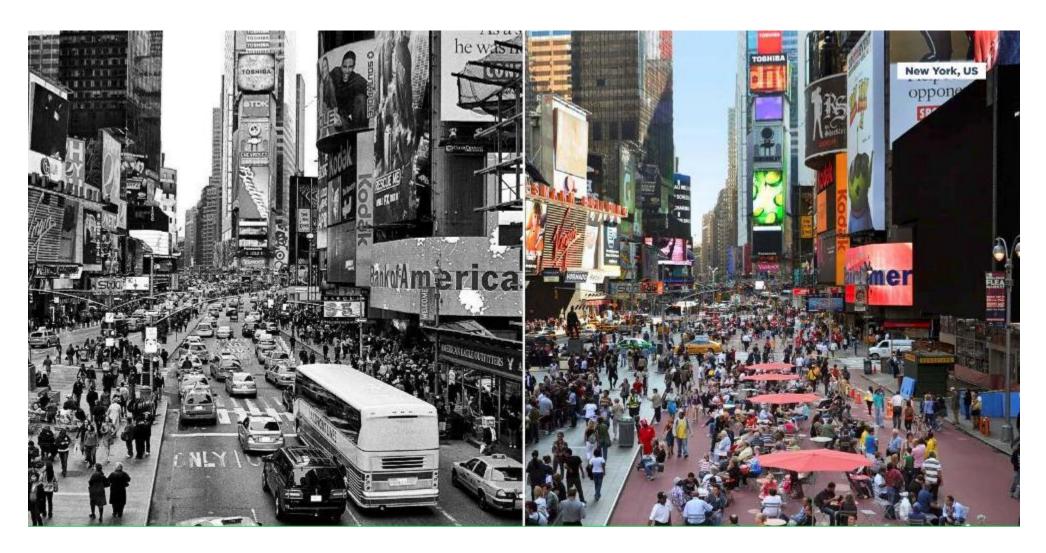


CONCEPTUAL FRAMEWORK

DESIGN THINKING



EXAMPLETIMES SQUARE, NYC



EXAMPLETIMES SQUARE, NYC









THE SURROUNDING AREA AS AN OPPORTUNITY

Panamá Camina: comparte la Central





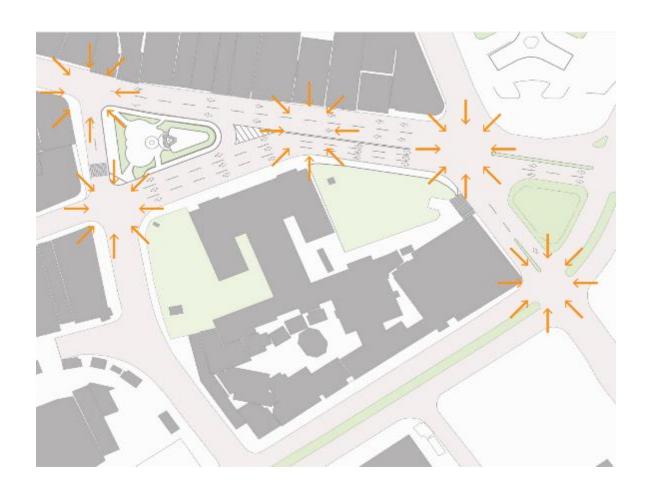






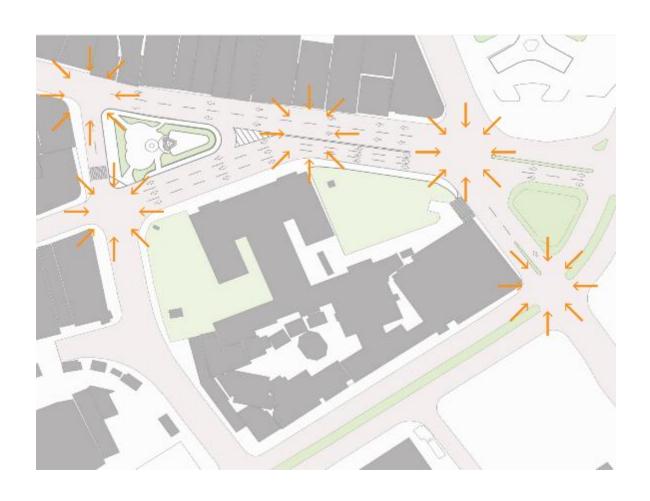


CONFLICT POINTS: PEDESTRIANS VS VEHICLES



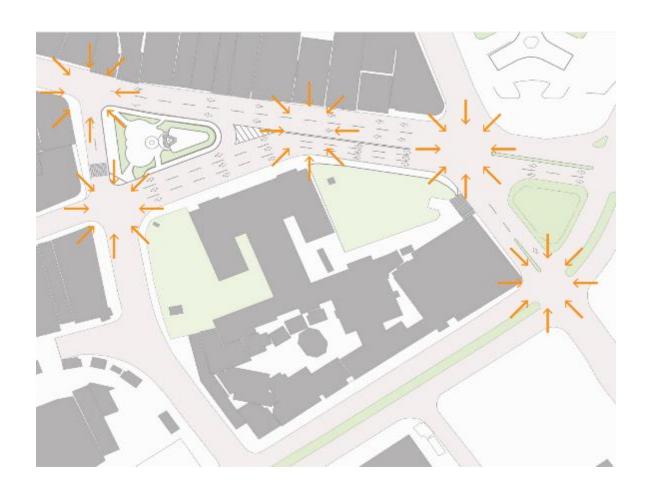


PEDESTRIANS LOOKING FOR THE SHORTEST ROUTE



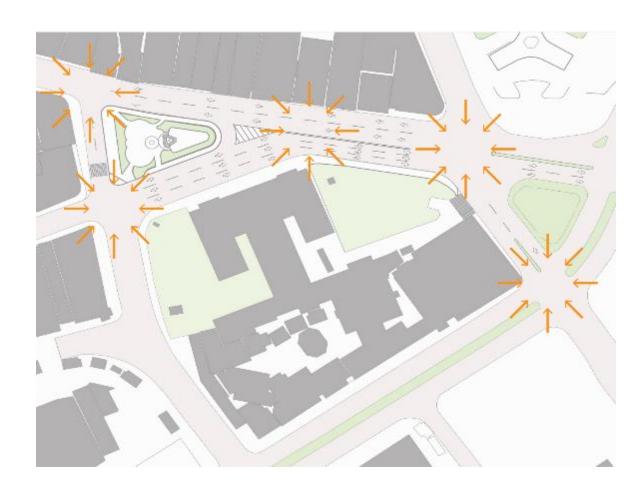


ROADS ARE WIDE AND DIFFICULT TO CROSS



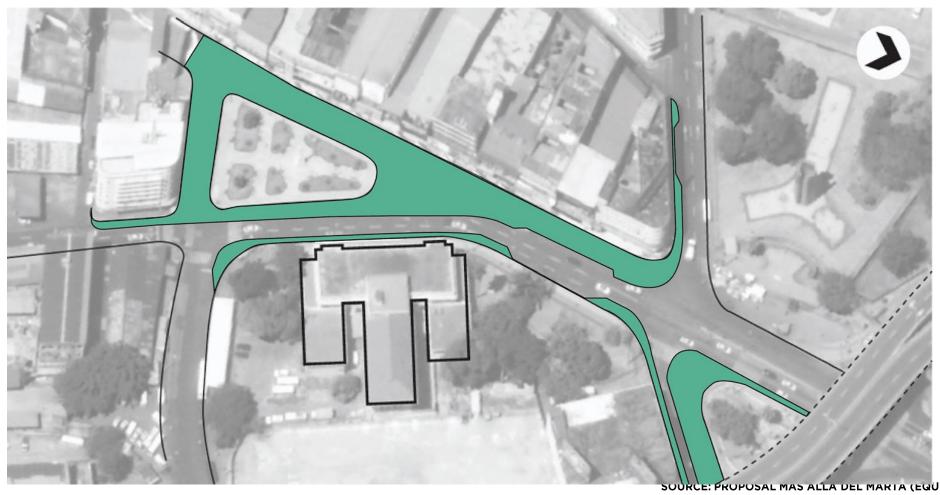


PUBLIC SPACE = ~80% FOR CARS; ~20% FOR PEDESTRIANS



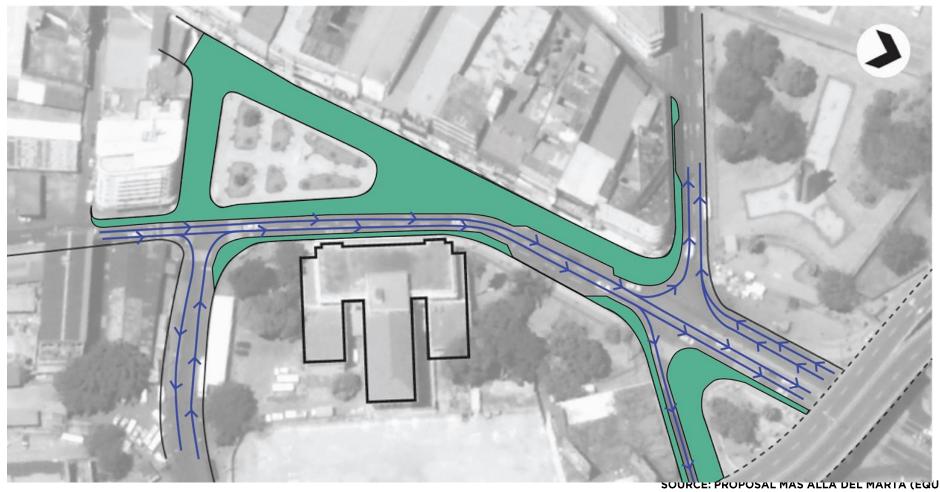


OBJECTIVE 1: INCREASE PEDESTRIAN SPACES



PROPOSAL MAS ALLA DEL MARTA (EQUIPO DE PROYECTO PN-L1146)

OBJECTIVE 2: SIMPLIFY VEHICLE CIRCULATION



ROPOSAL MAS ALLA DEL MARTA (EQUIPO DE PROYECTO PN-L1146)

OBJECTIVE 3: FACILITATE PEDESTRIAN MOVEMENT



USAL MAS ALLA DEL MARTA (EQUIPO DE PROYECTO PN-L1146)

EXPERIMENT WITH TEMPORARY PAINT



VISUAL SIGNALS MARKING CONFLICT SPOTS



SENSIBILISATION CAMPAIGN





Some innovative/creative ideas based on evidence #PanamaCamina #ComparteLaCentral





MOOC Modules

1. Road safety as a problem for the development of sustainable growth

2. Road safety in the world: current situation and main challenges.

3. Institutional management of road safety

4. The role of data in road safety

5. Safe infrastructure

6. Safety in the urban environment: sustainable transport

7. Our responsibility with vehicles and safe behaviors

8. Education and communication

