Driven by distraction:
sustainable road safety and the impact of autonomous driving on vulnerable users

INTERNATIONAL FEDERATION OF PEDESTRIANS

ACA-M
ASSOCIAÇÃO DE CIDADÃOS AUTO-MOBILIZADOS

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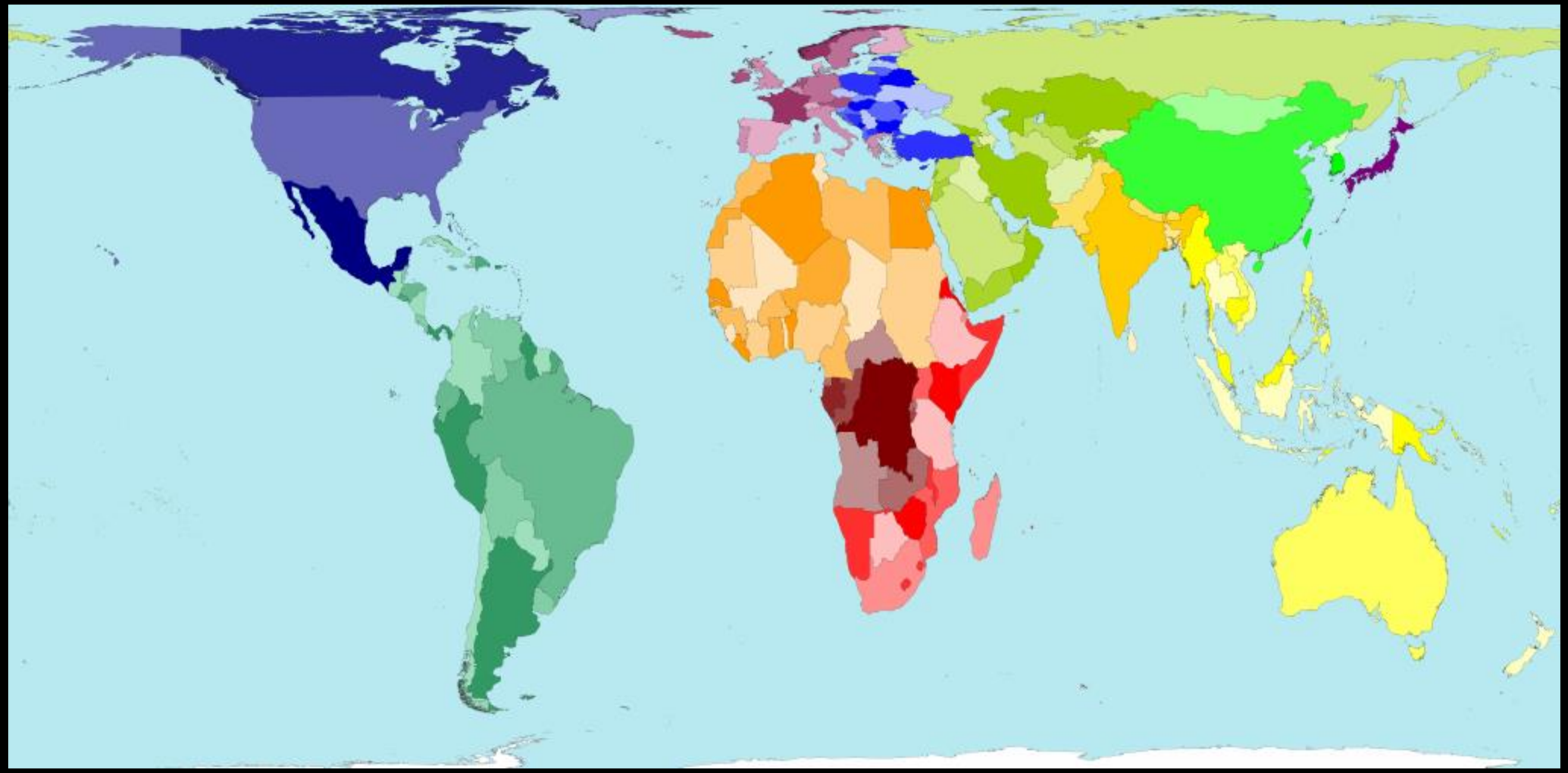
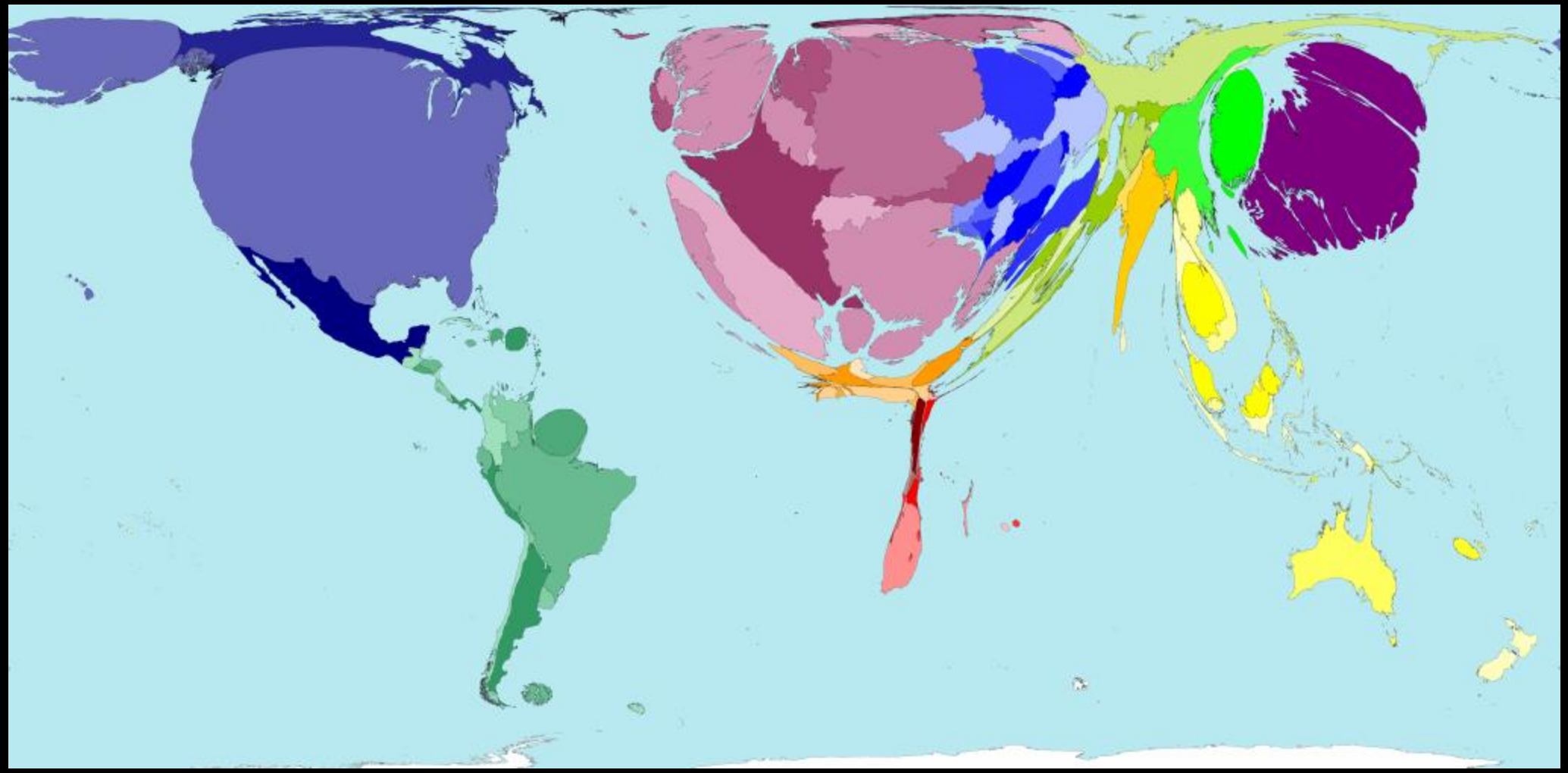
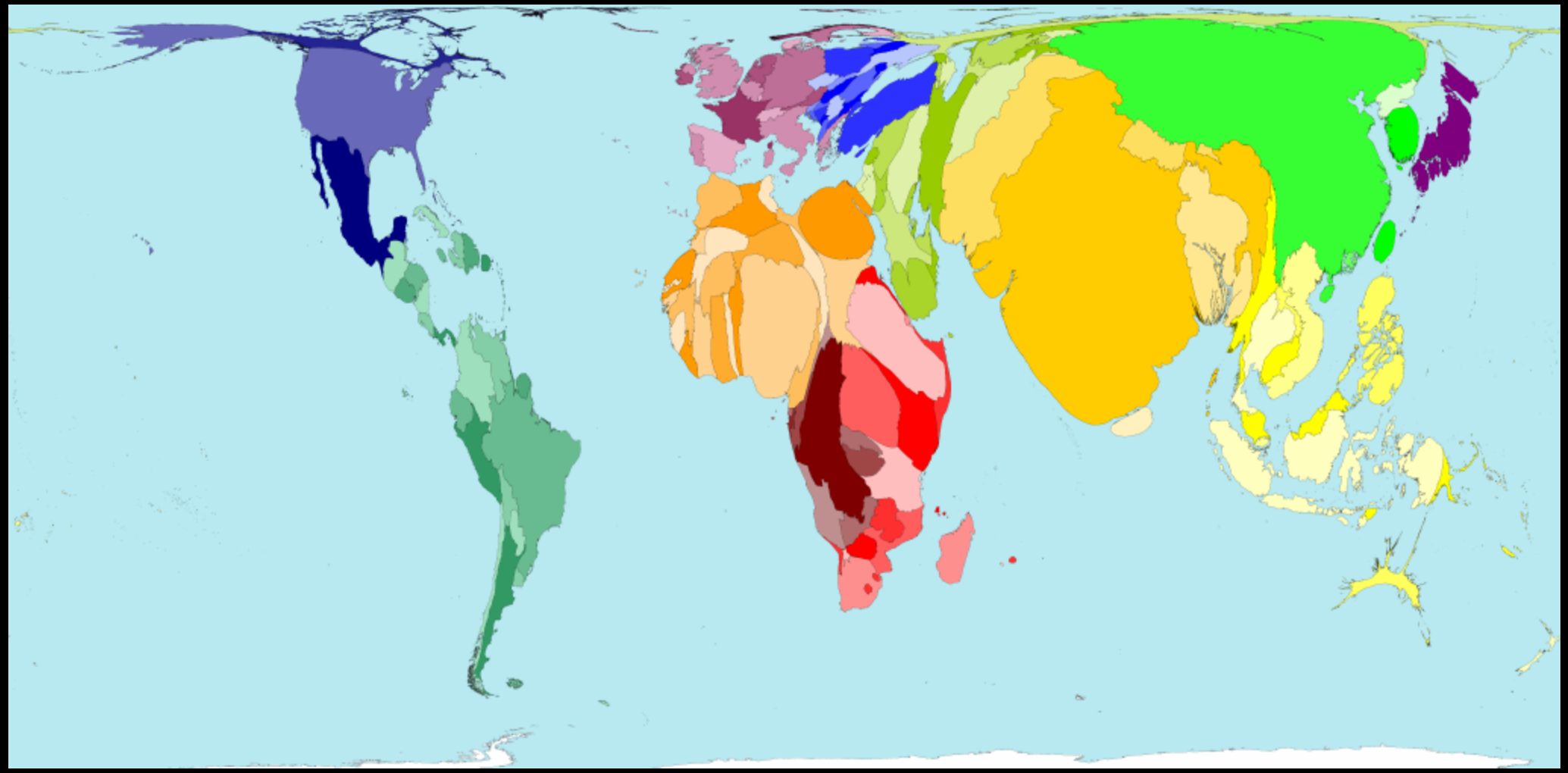
216

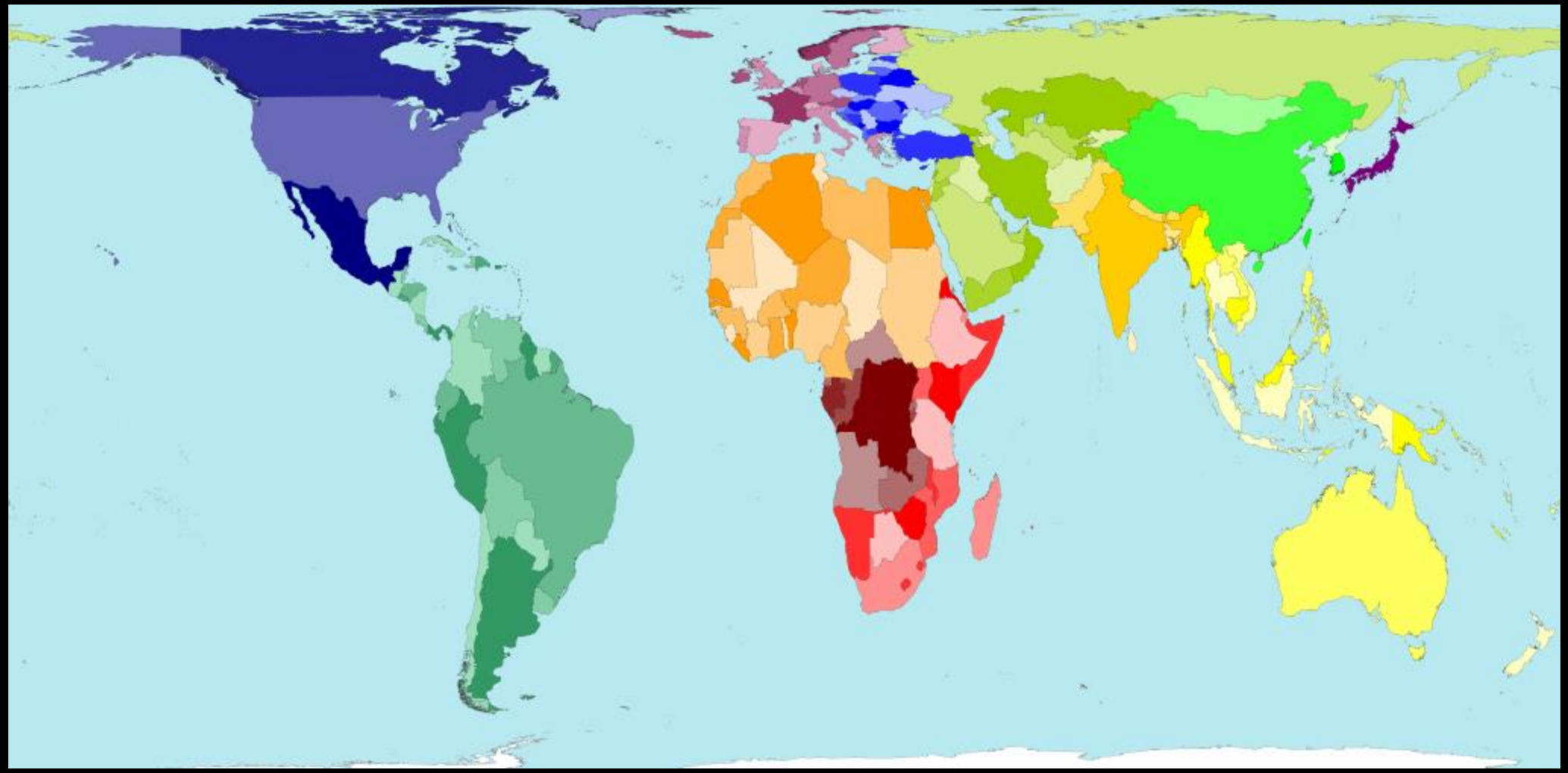
216

2
ZANDSTRA



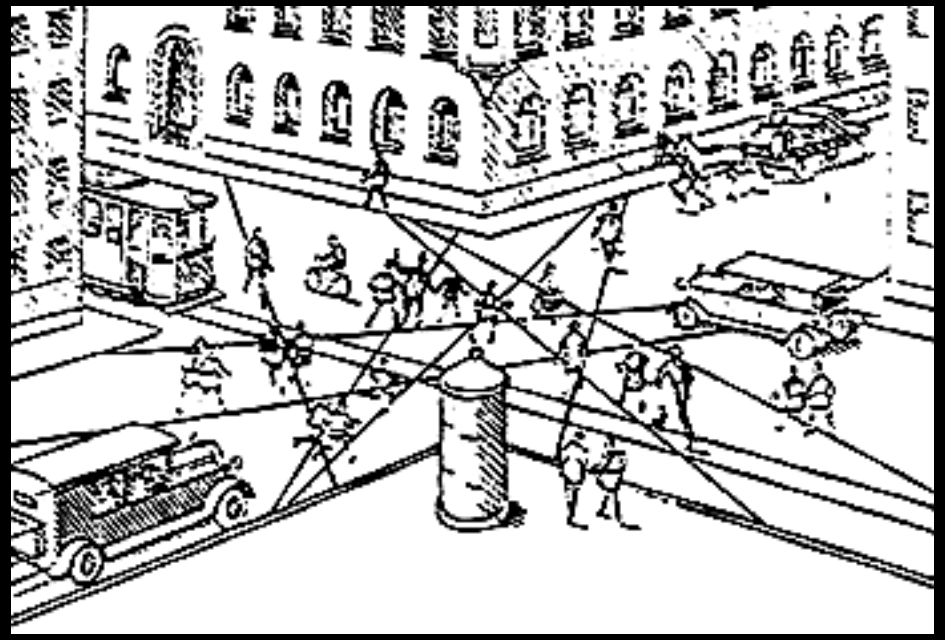


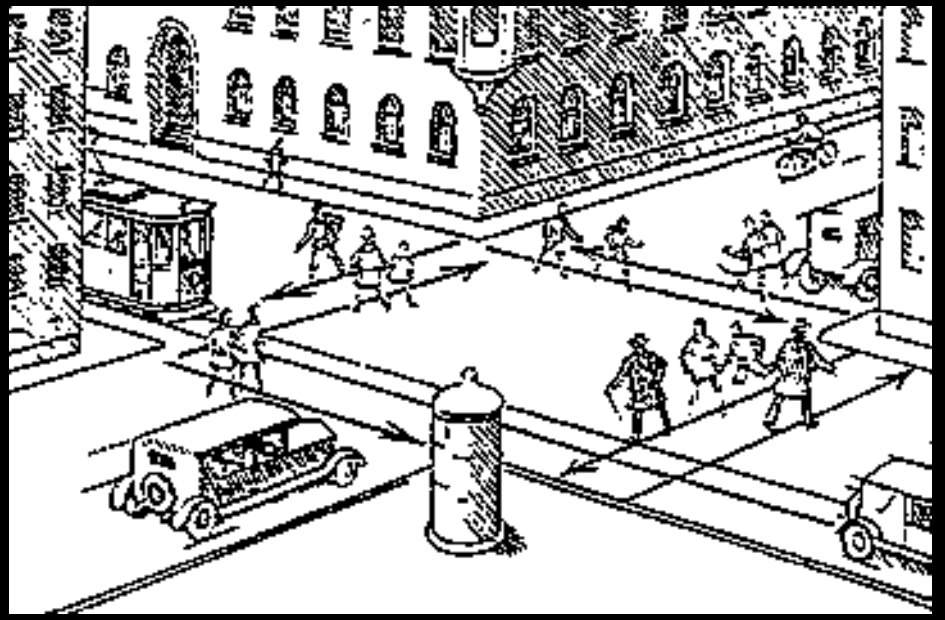




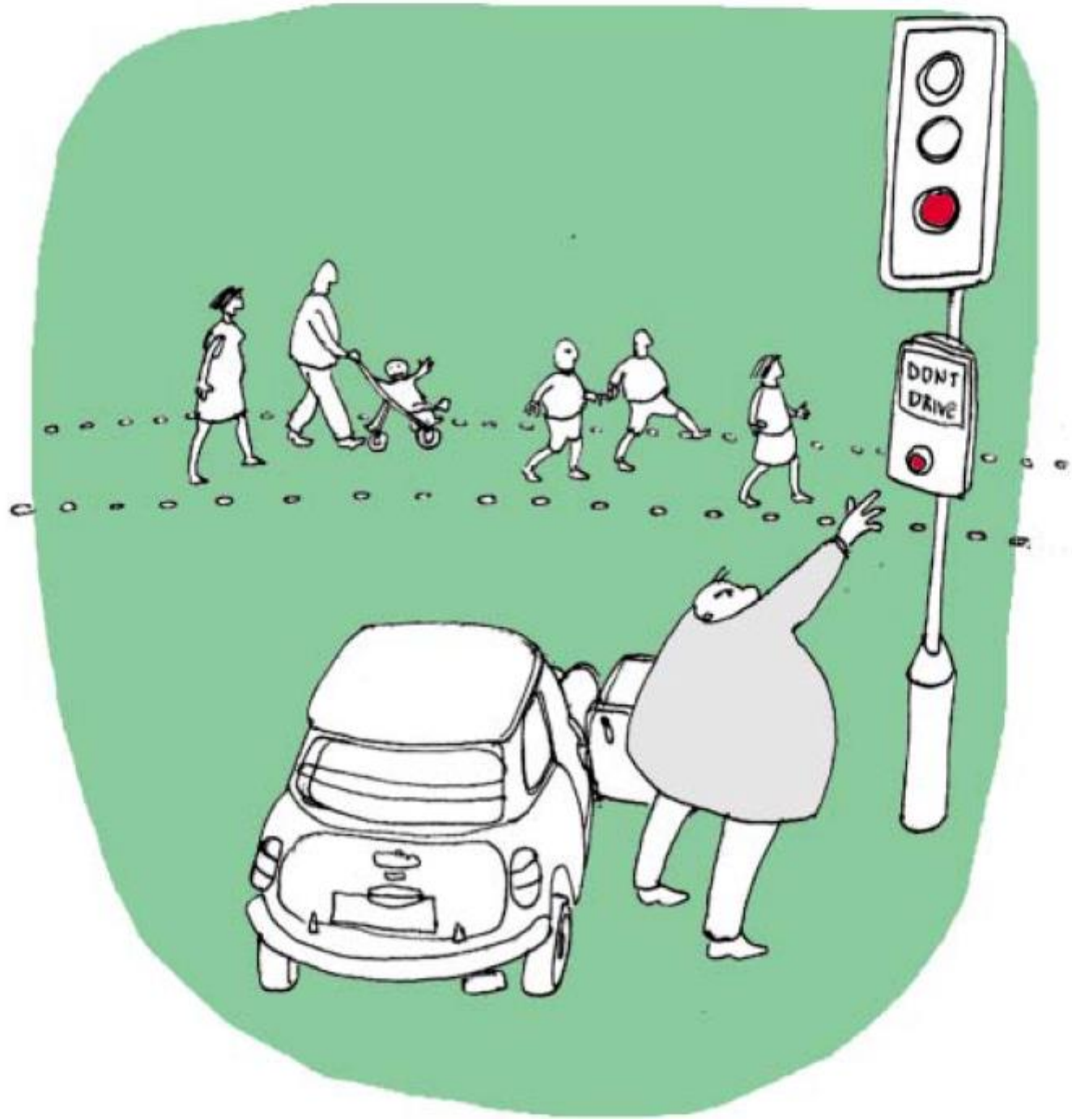
paradigm

Thomas Kuhn (1962)





No outono de 1935, a Polícia de Trânsito, com apoio do Automóvel Club, além do conselho geral anunciado pela faixa da foto, ensinava a subir pelos passeios da direita e a descer pelos passeios da esquerda.


DONT
DRIVE

Islamic
Arts
Festival
KFC Arabia

ARMAX

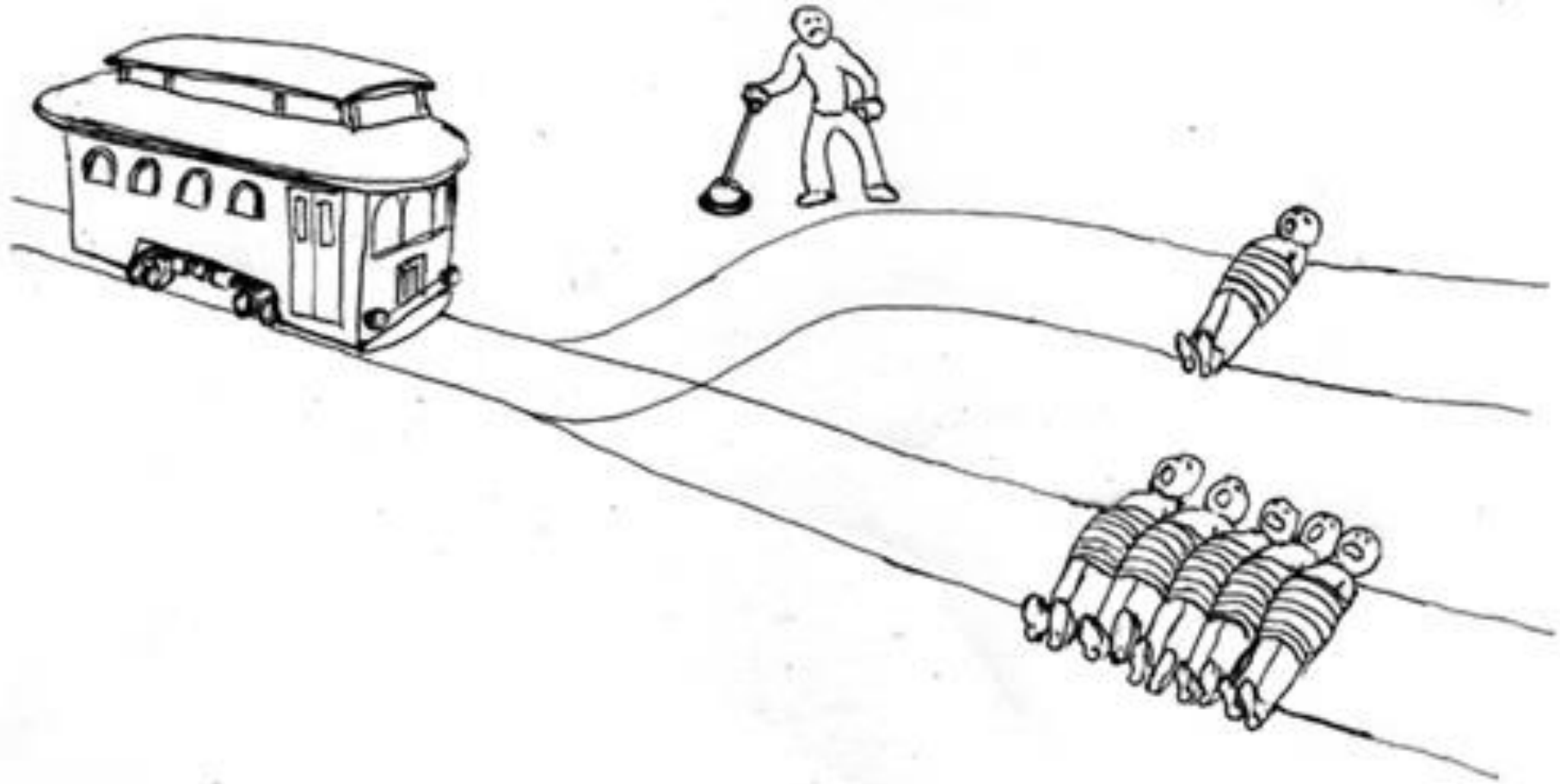
1.3 million road traffic deaths every year.

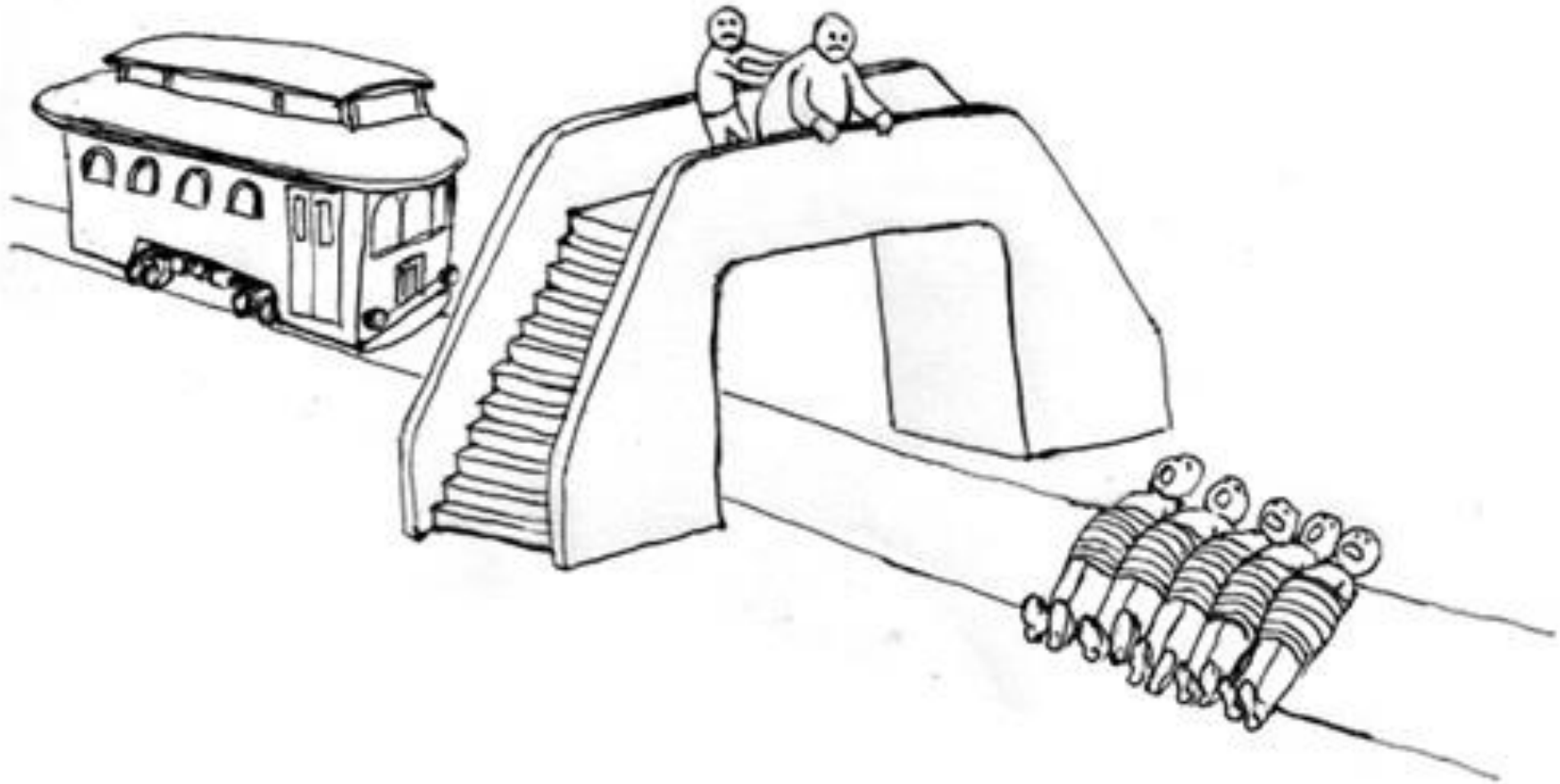
WHO

More than **270 000 pedestrians** lose their lives on the world's roads each year.

WHO

Ethics





distraction
or
elephant in the room?

“Mercedes autonomous cars
will protect occupants before pedestrians”

“Self-Driving Mercedes-Benzes Will Prioritize Occupant Safety over Pedestrians”

All of Mercedes-Benz's future Level 4 and Level 5 autonomous cars will prioritize saving the people they carry, according to Christoph von Hugo, the automaker's manager of driver assistance systems and active safety.

“If you know you can save at least one person, at least save that one. Save the one in the car, If all you know for sure is that one death can be prevented, then that’s your first priority.”

Christoph von Hugo, Mercedes

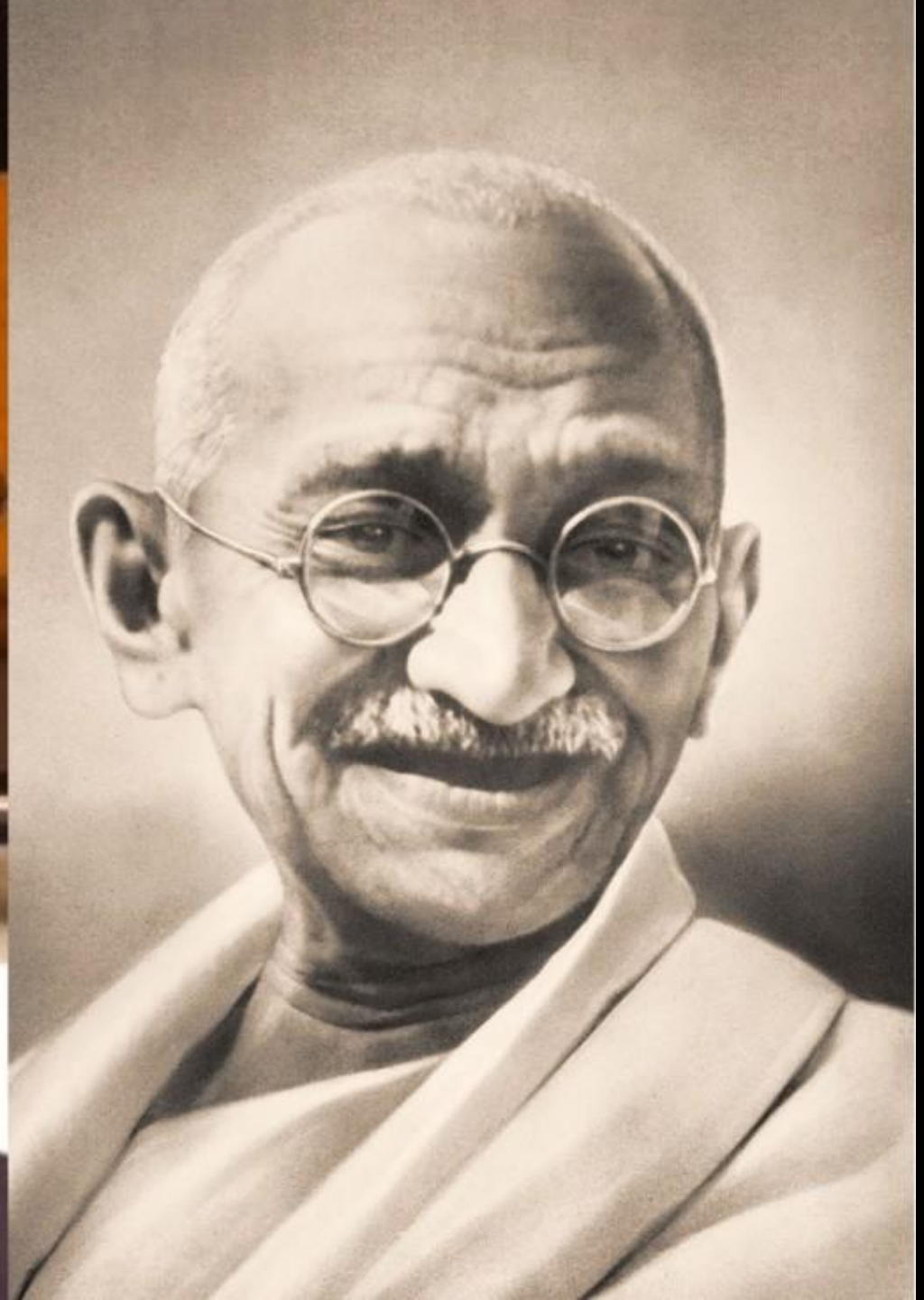
Betriebsgefahr

Strict liability

Loi de Badinter

DIRECTIVE 2009/103/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

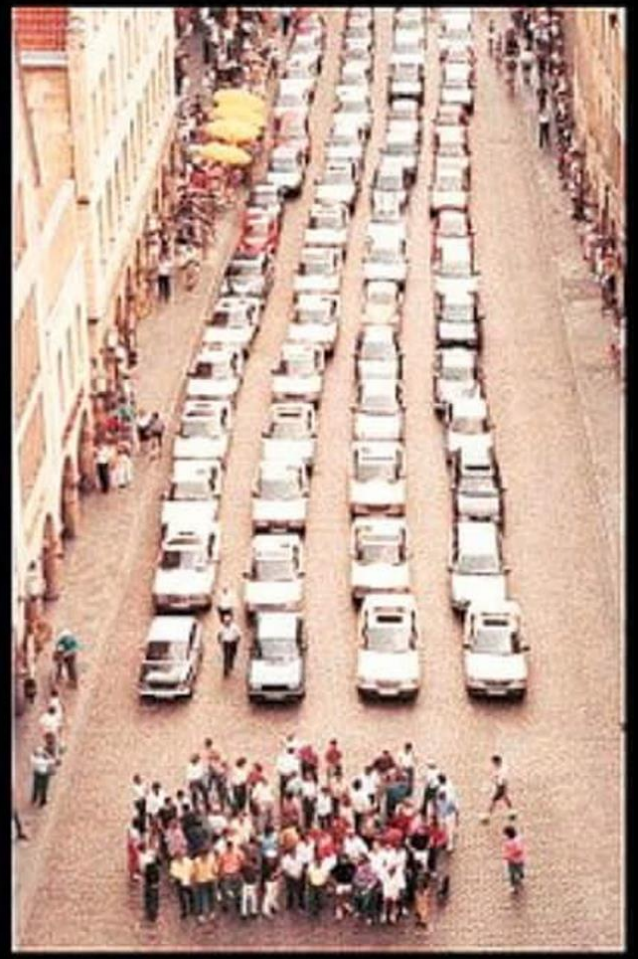
Personal injuries and damage to property suffered by pedestrians, cyclists and other non-motorised road users, who are usually the weakest party in an accident, should be covered by the compulsory insurance of the vehicle involved in the accident where they are entitled to compensation under national civil law.



Sustainable mobility

space required
to transport **60 people**

space required to transport 60 people



car

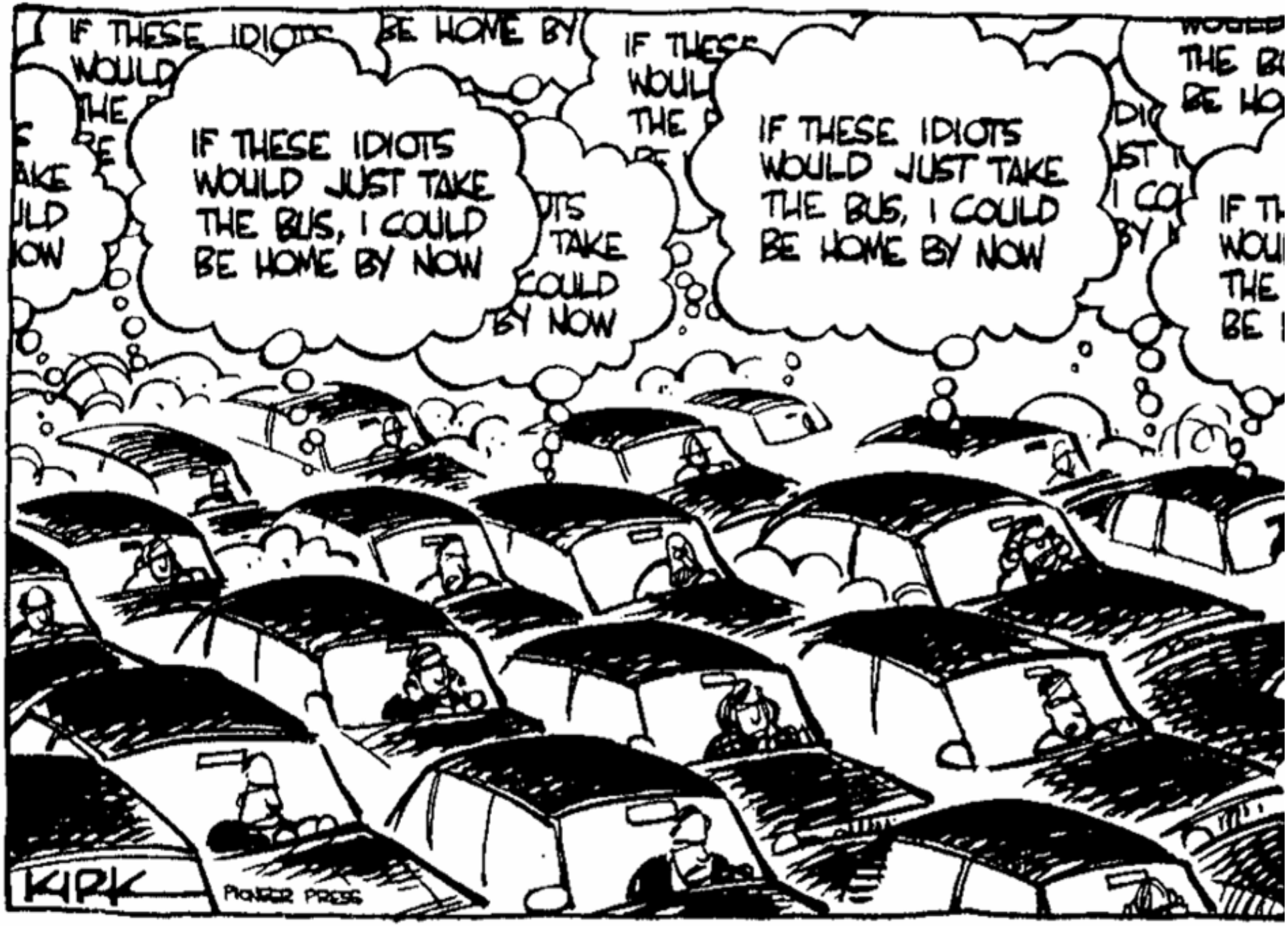
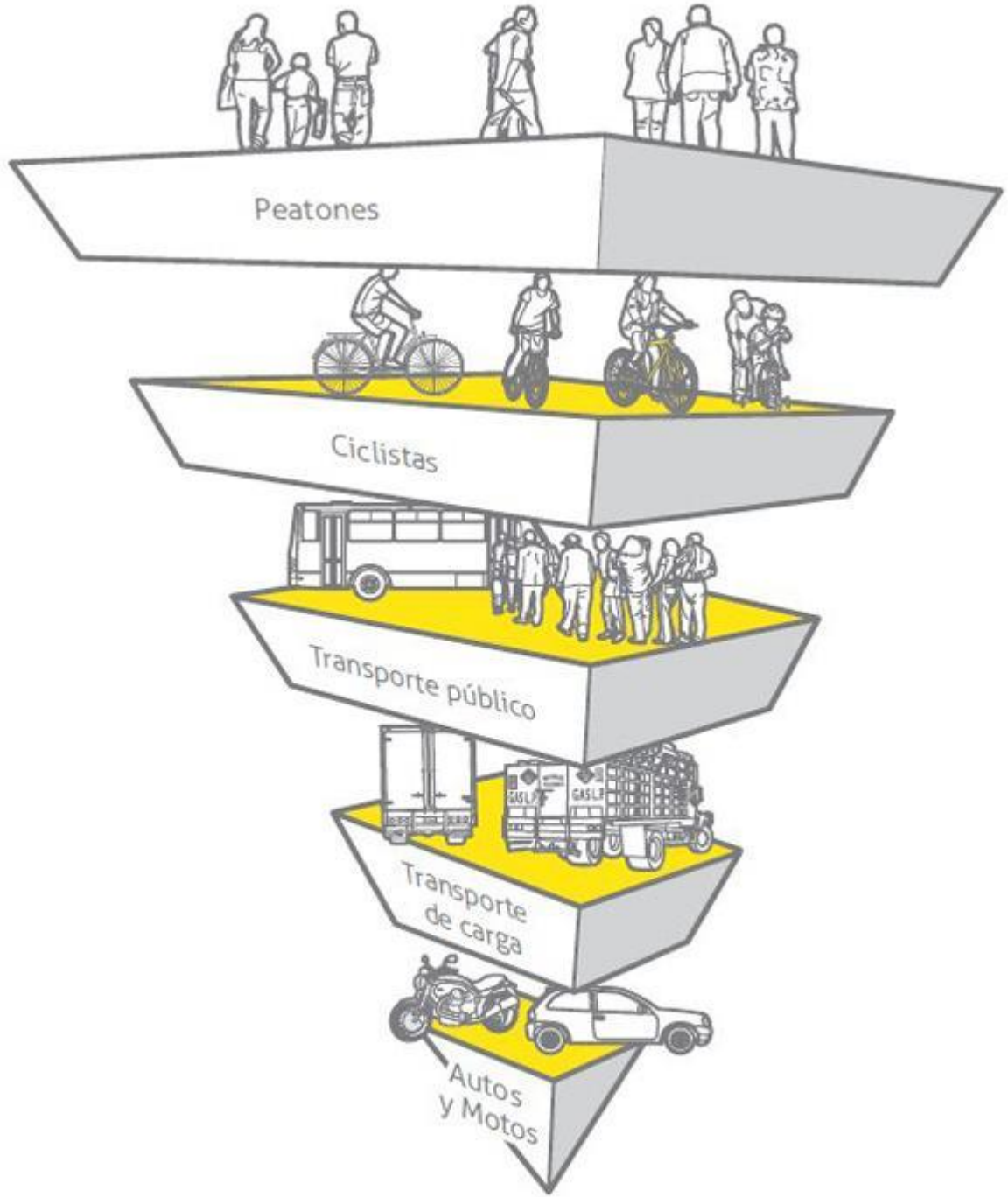
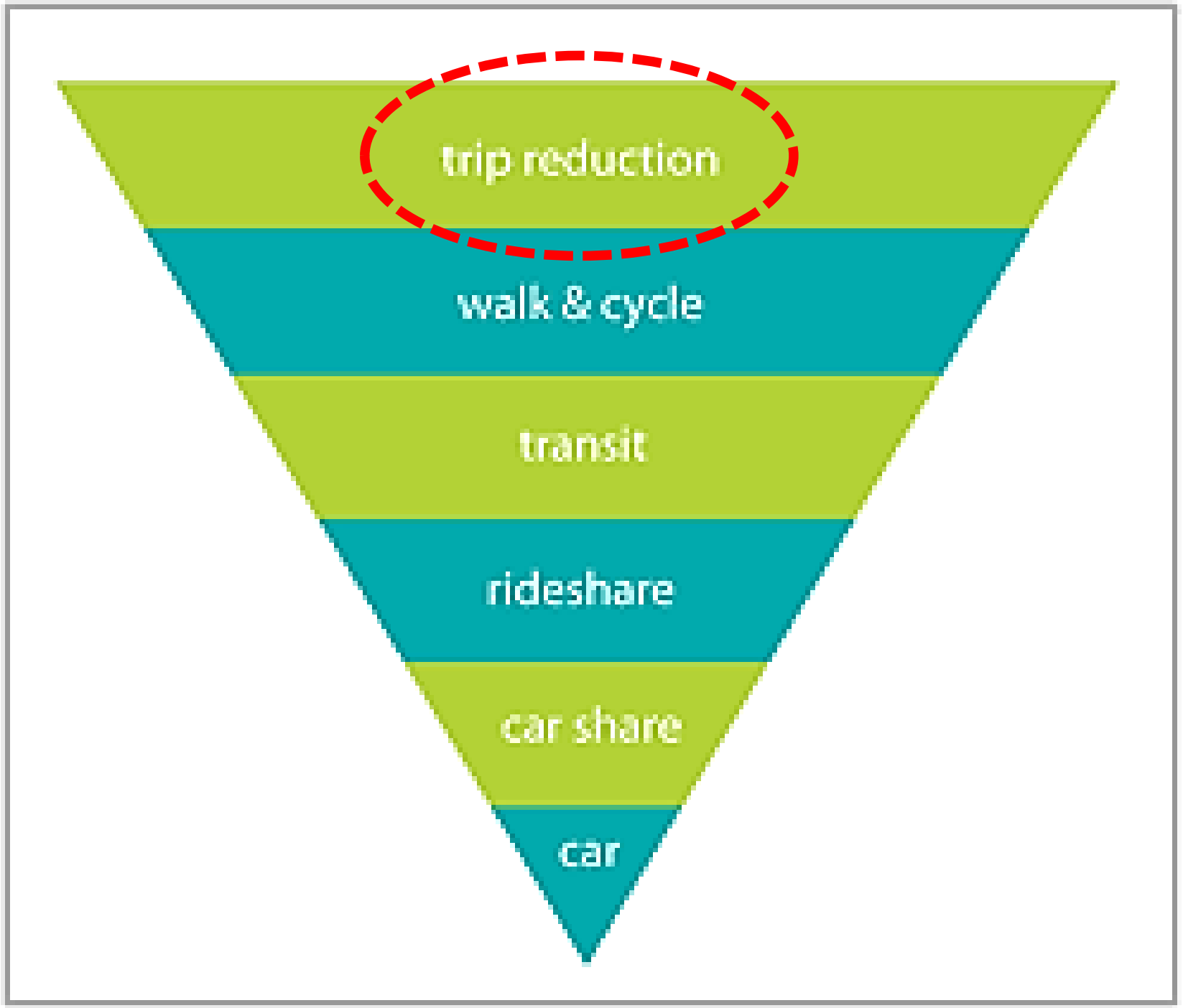
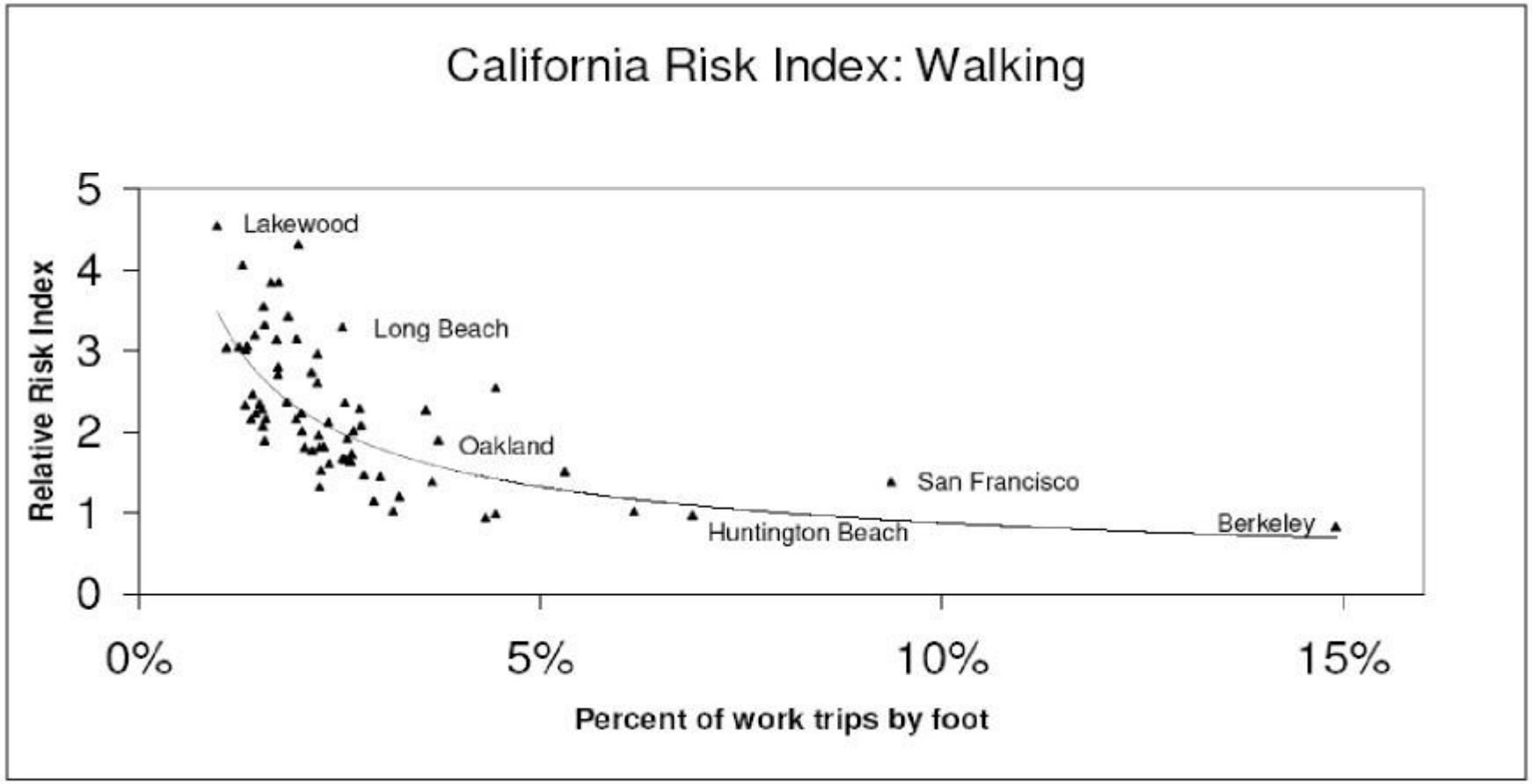

IF THESE IDIOTS WOULD JUST TAKE THE BUS, I COULD BE HOME BY NOW
IF THESE IDIOTS WOULD JUST TAKE THE BUS, I COULD BE HOME BY NOW
KIRK
PIONEER PRESS

Table 2.2:
Road user hierarchy

Priority	Road user group
1	emergency vehicles
2	children, elderly people, people with sensory or mobility impairments
3	other pedestrians
4	cyclists
5	public transport
6	public services
7	local business collection and deliveries
8	residents' cars
9	non-local motor traffic


Peatones
Ciclistas
Transporte público
Transporte de carga
Autos y Motos


trip reduction
walk & cycle
transit
rideshare
car share
car


California Risk Index: Walking
Relative Risk Index
5
4
3
2
1
0
Lakewood
Long Beach
Oakland
San Francisco
Huntington Beach
Berkeley
0%
5%
10%
15%
Percent of work trips by foot

Corollary

The safety of the most vulnerable should be yardstick to measure the quality of an ethically acceptable automated transport system and should be the centerpiece of the debate.

From the point of view of sustainable safety and quality of life we are all better off with carless drivers instead of driverless cars .