

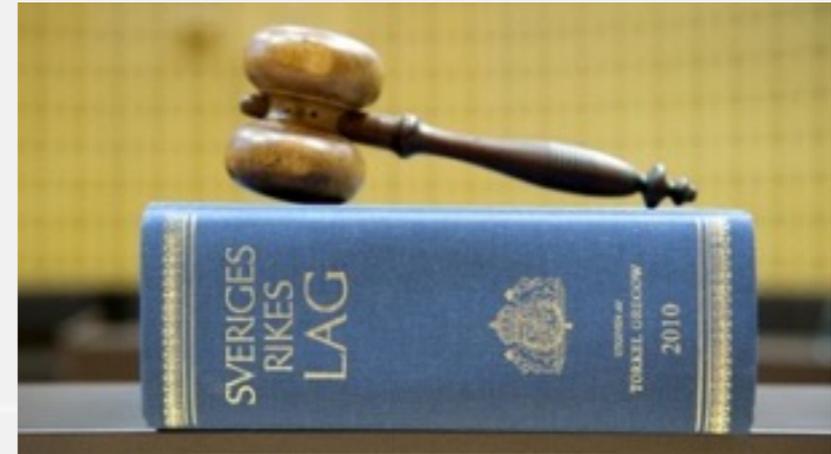
9. gmttb Jahrestagung
20 Jahre Vision Zero – Utopie oder Realität?
11. – 12. April 2019
Hochschule Konstanz

20 years Vision Zero

Claes Tingvall



Going downstream
(or simply finding the victim)





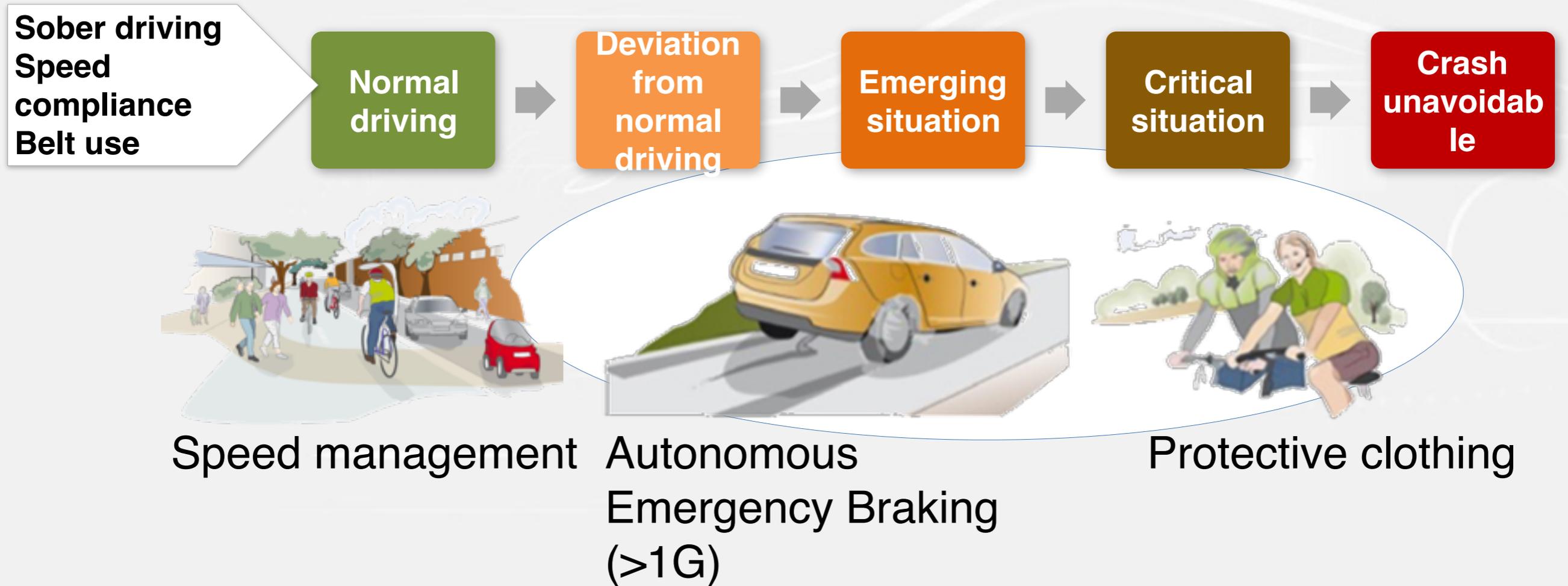
Going upstream

(or simply finding the systemic prevention)



Combined effect

~ 95 percent injury reduction

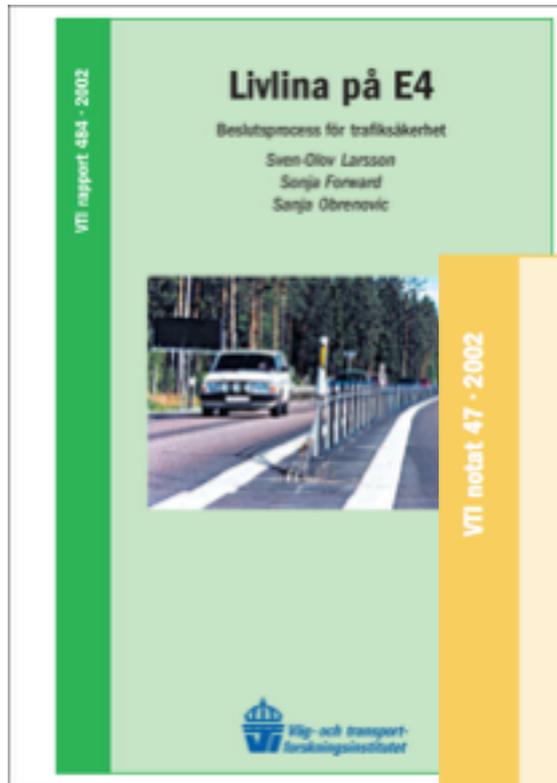




minimum 3500 Euro/meter

**1995 300 mill Euro invested;
1 less fatality/year**





2+1 road: 150 Euro/meter
= 23 times



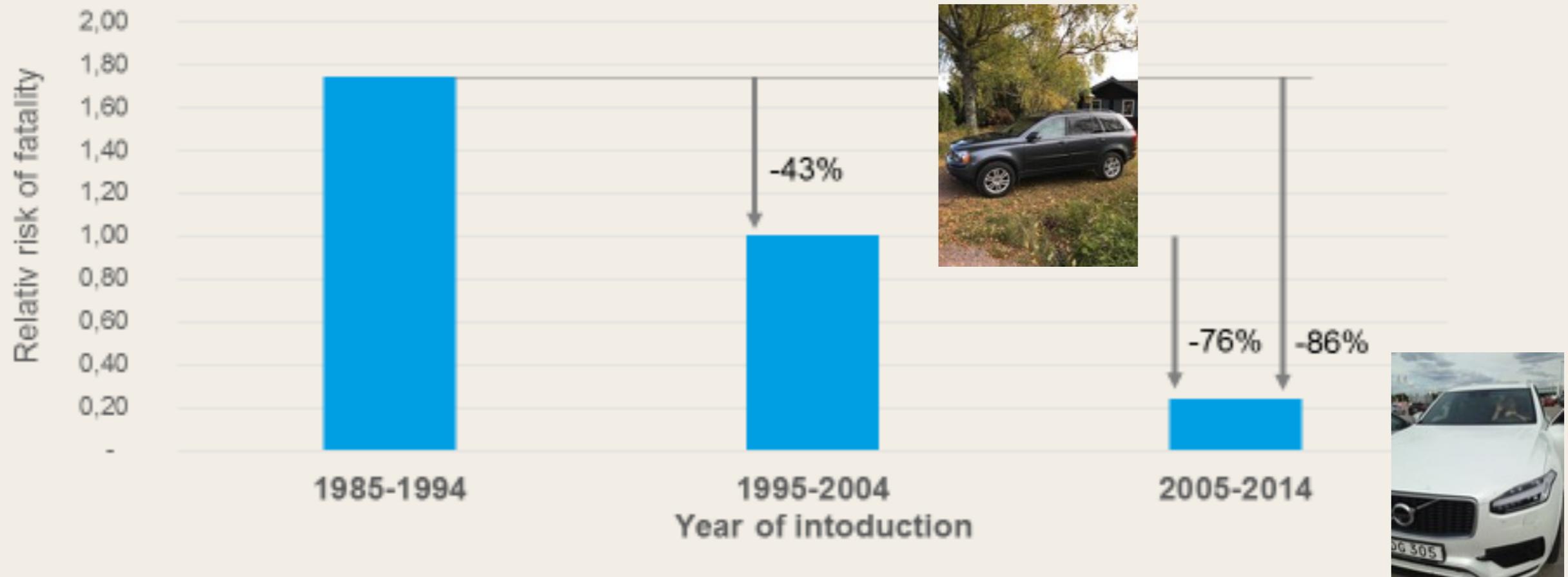


 **CRASH TEST** 1997 Rover 100 **VS** 2017 Honda Jazz 



Development in risk of fatality

Cars with year of introduction 1995-2004
colliding with other cars





Volvo 855 SE 2,5 1995
237 000 = 301 000 2018

Airbag driver only
No ESC
No radar
No camera
Euro NCAP 0 stars

Volvo V60 Momentum D4
2019 317 000

6 airbag systems
ESC
Autonomous braking
**for frontal/rear/animal/
pedestrian/cyclist**
Autonomous emergency
steering
Euro NCAP 5 stars



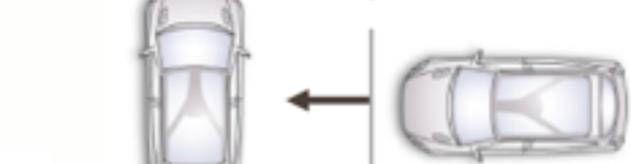
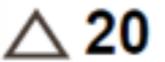
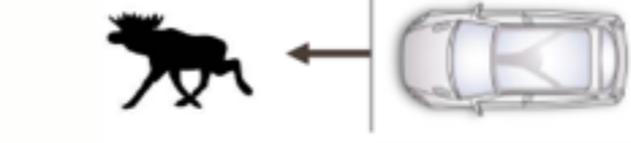
***“OUR VISION IS TO DESIGN CARS THAT SHOULD NOT
CRASH AND BY***

2020

NO ONE WILL BE KILLED OR INJURED IN A VOLVO”



Joint effort to define boundary conditions

				Passivt	Aktivt
		Head-on		+	
		Pedestrians		+	
		Side		+	
		Rear-end		+	
		Large animals		+	







Ethics
Responsibility
Scientific methods
Driving forces and
systematic development
Innovation



= Vision Zero

Sustainable – not just more sustainable!

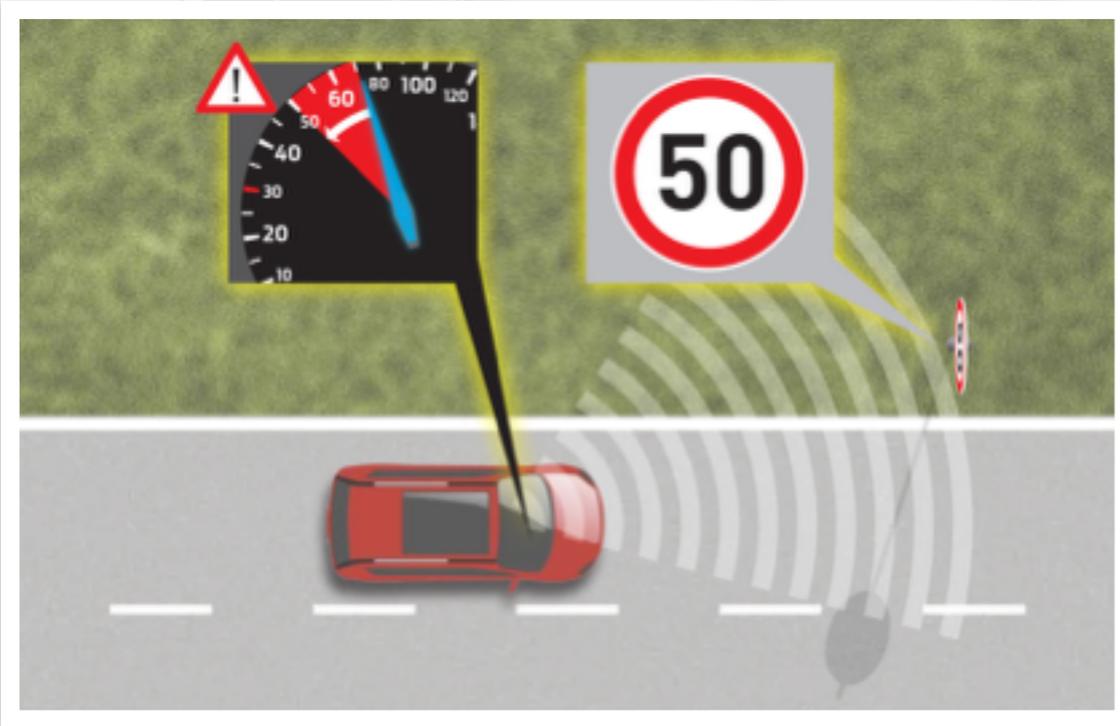


- Compact and space efficient
- Fossil free
- Silent
- Clean air
- Safe
- Mobility for all
- Affordable
- Shared economy
- ...and new technologies





Geofencing "ISA" that limits speed and access only for certain vehicles





The Global Goals are indivisible and integrated!



THE GLOBAL GOALS

For Sustainable Development



By 2020, halve the number of global deaths and injuries from road traffic accidents.



By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons.



Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle.



Promote public procurement practices that are sustainable, in accordance with national policies and priorities.

ΣΟ



Do not harm!

Trends
Climate
Urbanization
Digitalization
Globalisation
Health

Processes
CSR
Electrification
Trade, E-trade
Agenda 2030

Qualities
Livability
Affordable for all
Clean and safe
Sum Zero

Tools
Regulation(trpt, work, vehicles)
Enforcement, self control
Trade, procurement
CSR, ISO 39001
Consumer tests, rating



Health sector

Travel (hotels,
car hire)

Automotive
industry

Nations

E-Trade
(Amazon, Alibaba)

Cities
(incl developers)

Logistics
(DHL..)

Energy sector
ABB, Shell..

Transport Services
(Taxi, public)

Global platforms
(Google, Uber..)

Multi national
(IKEA, HM...)



Who buys many cars, trucks and buses?

Who decides what safety level they have?

Who decides how they are equipped?

Who decides how they are driven?



How are safety, emissions, CO2 and noise related to speed?

Who decides on speed limits?

On what grounds are speed limits set today?

”

*By 2050, move close to **zero fatalities** in road transport. In line with this goal, the EU aims at **halving road casualties** by 2020.*

*Make sure that the EU is a **world leader** in safety and security of transport in **all modes of transport**.*

”





3RD
OF

GLOBAL
MINISTERIAL CONFERENCE
ON ROAD SAFETY

**ACHIEVING
GLOBAL GOALS**
STOCKHOLM
19-20 FEB 2020