#### Systematic Safety in the real world Few examples from The Netherlands Gijs (Chris) Hoogerwerf Senior advisor Transportation Policies

# From tackling high risk **locations** to

## tackling weaker spots in traffic system

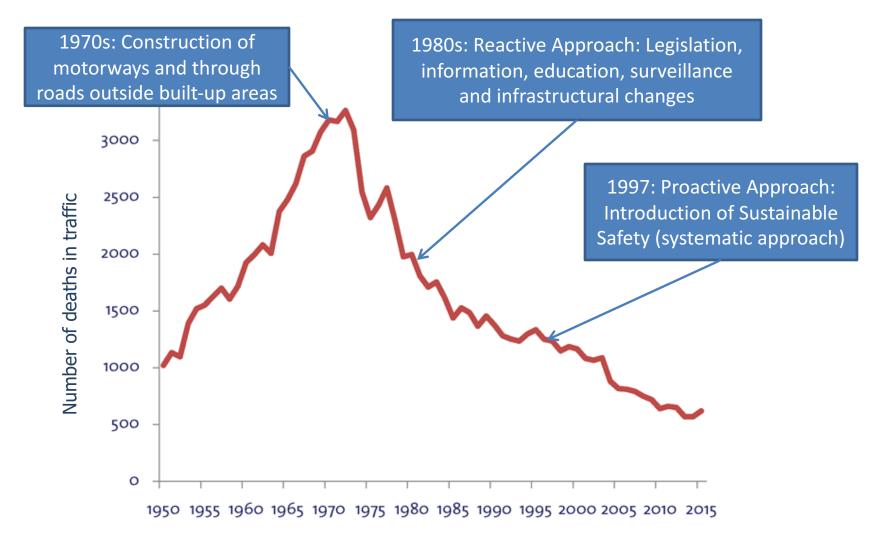


Black spots (5 or more injuries/deaths in 5 yrs) in The Hague, 2011-2015



All crash sites in The Hague, 2011-2015

## Safety approaches in The Netherlands



# Sustainable Safety in the real world

- 30 km/h zones (19 mph) in residential and commercial zones (urban area)
- 60 km/h zones (38 mph) in rural areas
- (Continuing) Separation of mass and speed on arterial and collector roads: separated bike paths
- Safe intersections and crosswalks



Before implementation 30 km/u zone



After implementation 30 km/u zone



#### Before implementation 30 km/u zone



After implementation 30 km/u zone



Before implementation 60 km/u zone: a 80 km/h road



Rural Road after implementation 60 km/u zone (2010)



Rural Road after implementation 60 km/u zone (2016)



Intersection after implementation 60 km/u zone

Alternative for speed hump: narrow the road. Only one car a time

After implementation 60 km/u zone

# 30 km/h zones: How was it financed?

- National program implementation 30 km/h zones (50% subsidized)
- Political will: invest in safety and livability
- Combined with other programs:
  - Road maintenance
  - Neighborhood improvement
  - Upgrading storm water sewers (climate change)
- Started in 1997, by 2010 most residential areas had been treated



## Road crossing: islands Groningen, The Netherlands



Downtown

## Road crossing: islands Groningen, The Netherlands



Office area

## Road crossing: islands Groningen, The Netherlands



Commercial zone

## Road crossing: islands Amsterdam, The Netherlands



Downtown, near Central Station

## Road crossing: islands Rotterdam, The Netherlands



Downtown, near Central Station

## Investments in Transportation

Investments / City	Utrecht *	Groningen	The Hague *
Implementation of projects Transit	€12.14	€5.80	€27.45
Implementation of projects Motor Vehicles	€22.27	€1.50	€11.96
Implementation of projects Bicycle and Traffic Safety	€25.13	€8.06	€32.45
Total costs	€59.55	€9.03	€107.79

In Euro's a year (2017), per capita

\*Utrecht and The Hague are investing a lot in projects to improve accessibility to city center and work areas (office zones)

