

Speed management in France

Reducing speed limits vs automated speed cameras

03/05/2019

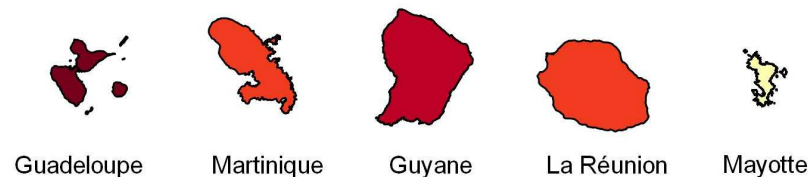


Manuelle SALATHE

Head of the French Road Safety Observatory

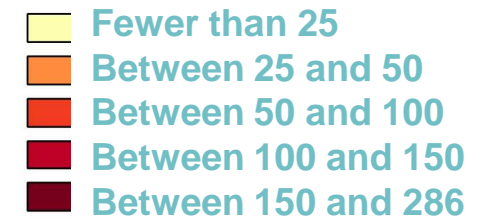
March 3rd, 2019
Speed management in France

- Population : 66 million inhabitants
- Area : 600.000 km²
- Exposure : 606 billion veh.km



Fatalities on the rural network over 5 years (2012-2016)

Legend

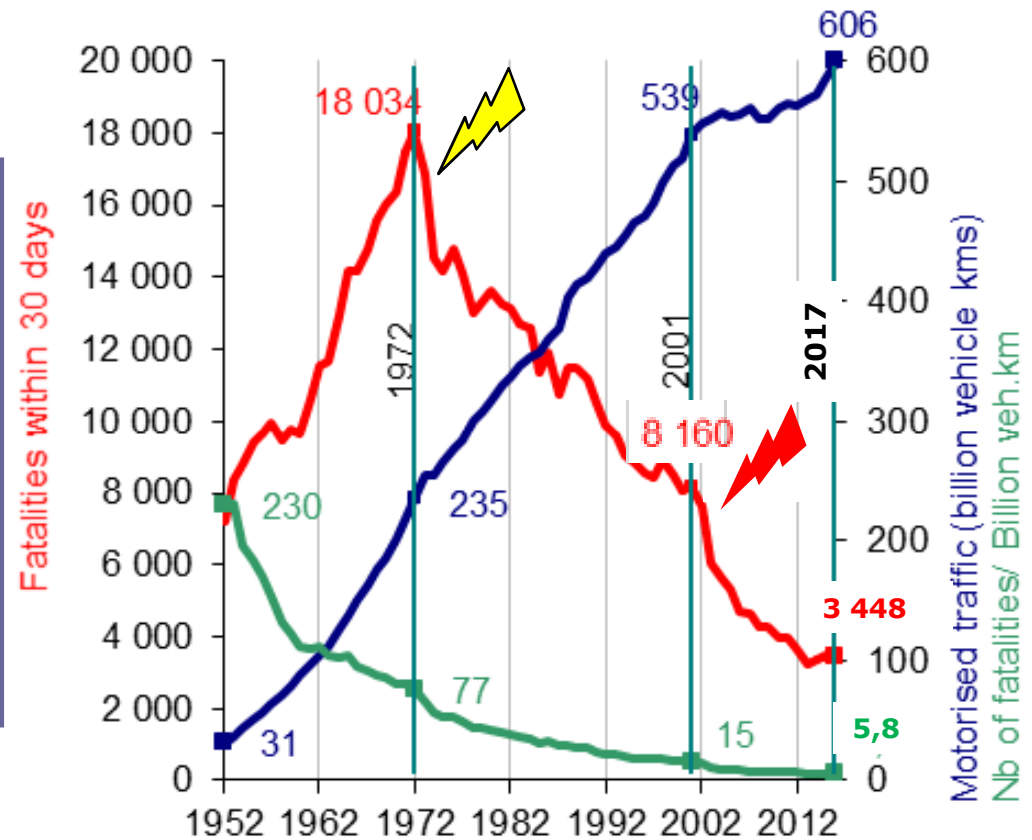
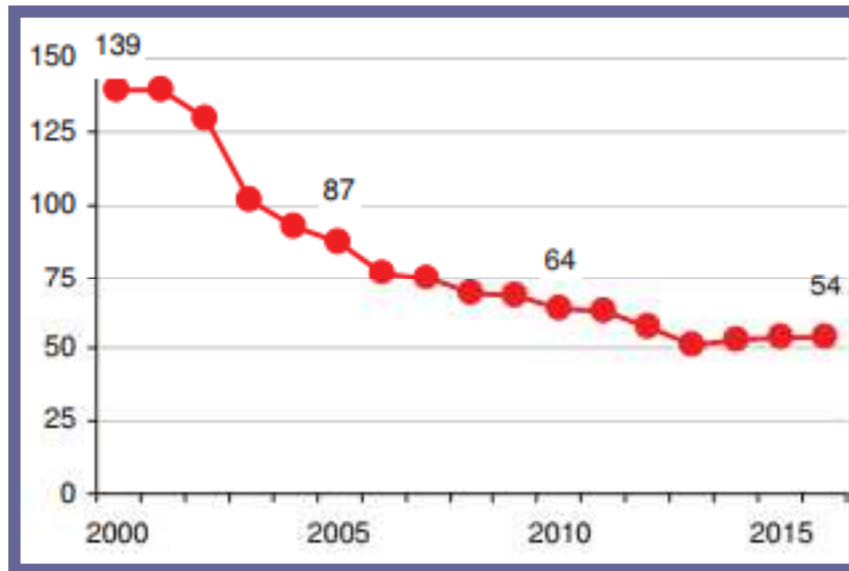


- 3 700 RT fatalities (incl overseas)
- 80% population lives in urban area
- 63% RT fatalities on rural network

Fatality trends against population and traffic

Fatality trend (red), traffic (blue), and number of fatalities per billion veh.km (green) since 1952

Development of the number of fatalities per million inhabitants since 2000



- Setting speed limits up

- Implementing automated speed cameras

March 3rd, 2019
Speed management in France

Evolution in radar technologies – static equipments

Static basic speed cameras

2003 : Phase 1

2005 : Phase 2

2007 : Phase 3 urban

2 000 units



Static speed cameras discriminating
several lanes, vehicle shapes (HGV),
catching vehicles from rear or front
2011:

400 units



Average speed :
2012:

100 units



Evolution in radar technologies – mobile equipments

**Portable speed cameras
2010, 2013**



500 units

**Moveable / works speed cameras
2016 :**

250 units



**Car built-in speed camera technology
2016:**

400 units



**March 3rd, 2019
Speed management in**

26 million flashes

among which 17 million offences sent

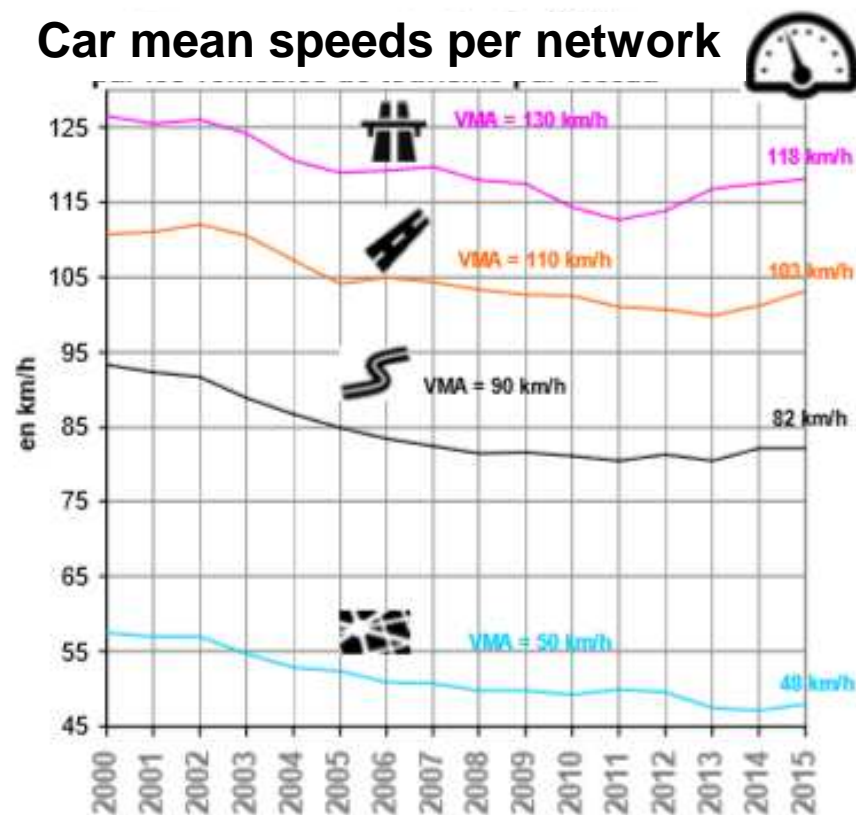
1 billion euros collected

92% of the money goes to road safety

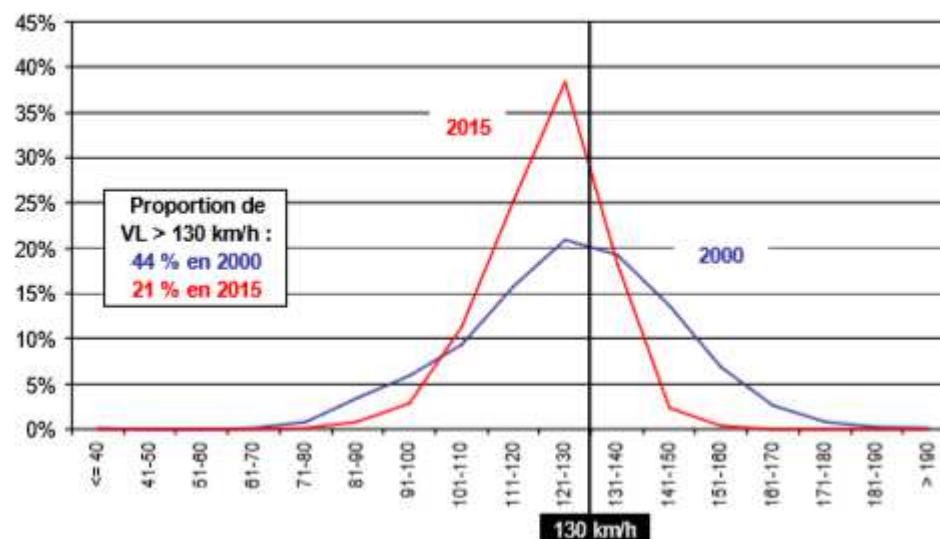
- radar maintenance and upgrade
- road safety research and actions
- road improvements

Evaluation of the impact of radars on speed

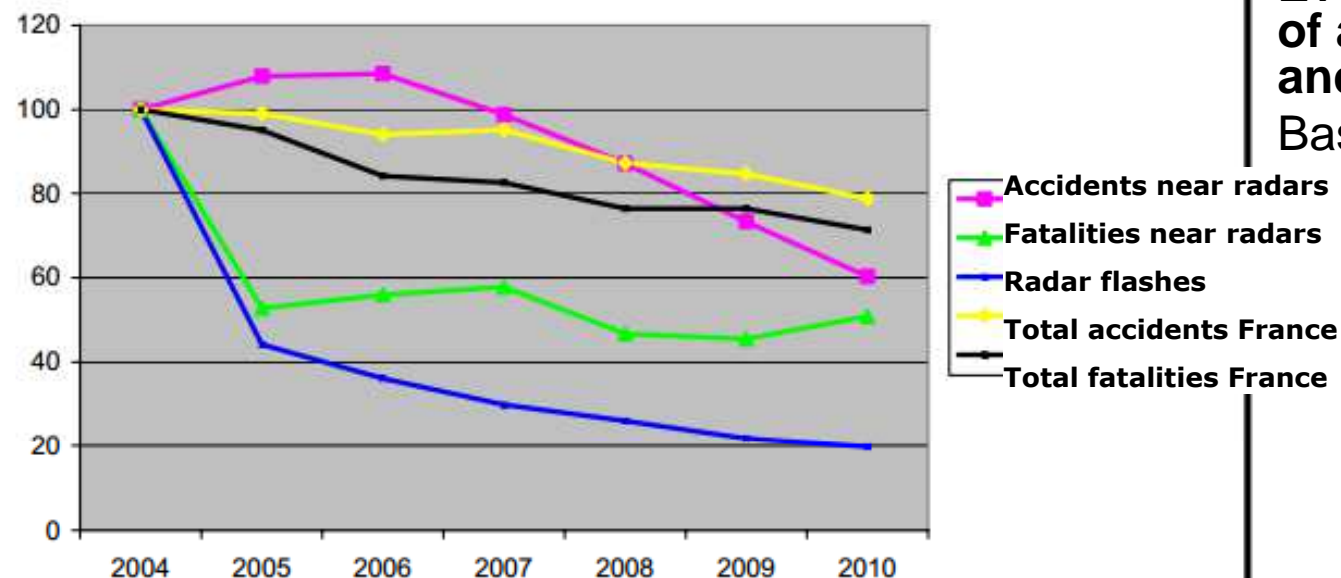
Car mean speeds per network



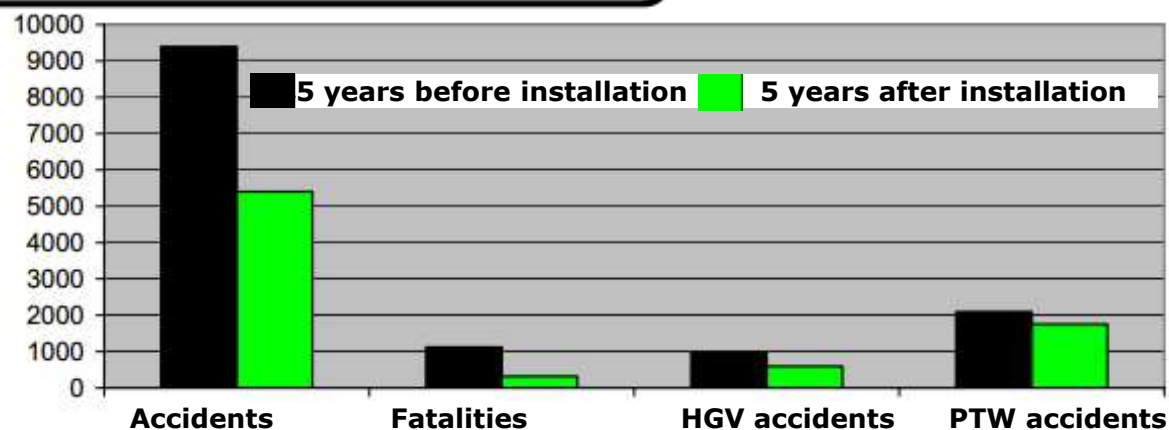
Car speed distribution on motorways (speed limit 130 km/h)



Evaluation of the impact of radars on road safety



Evolution of the number of accidents within 1000m of a radar, for 1540 radars



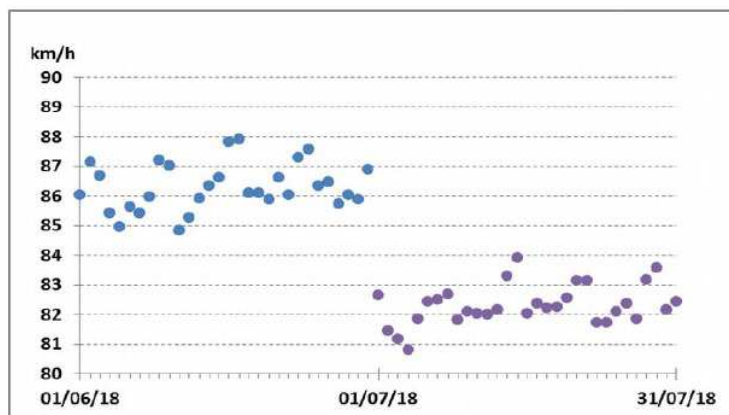
March 3rd, 2019
Speed management in France

First results from lowering the speed limit on rural single carriageways

Implementation on 1st July 2018

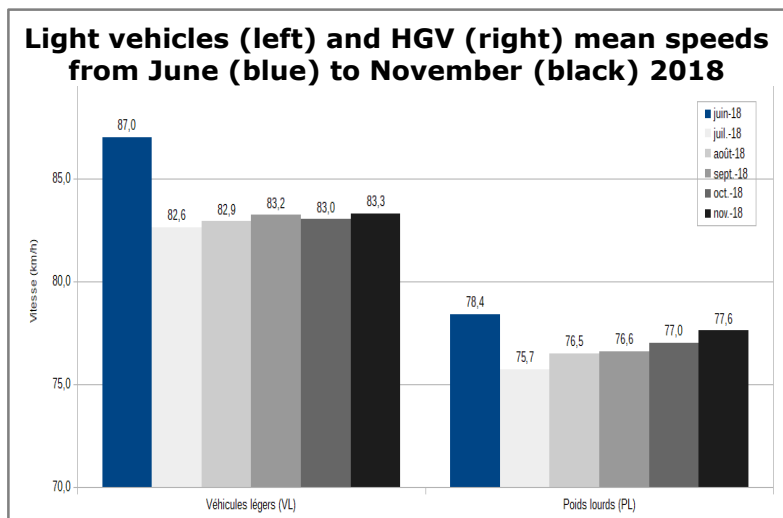


Average speed changes before and after (June to November 2018)



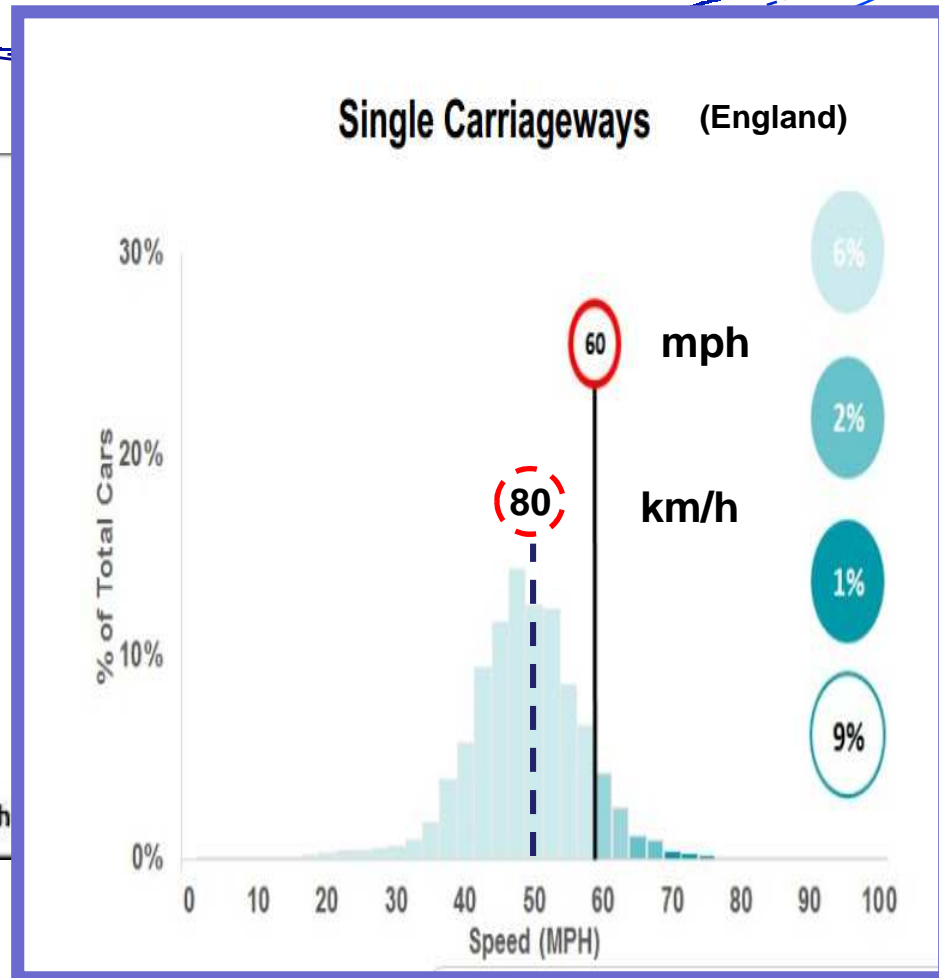
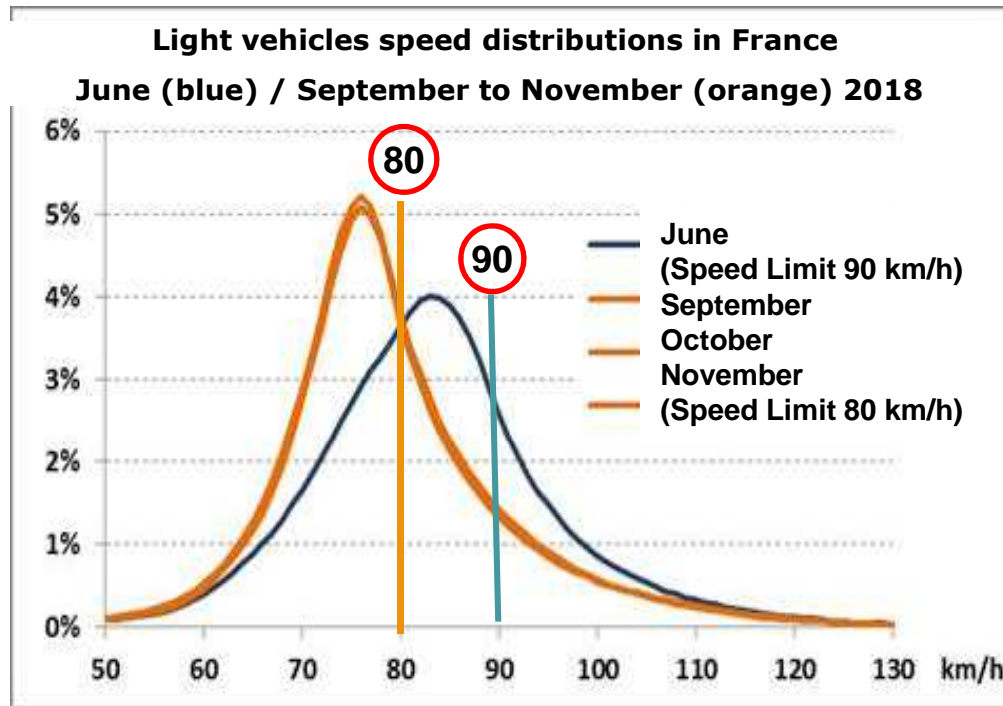
Daily average speeds in June (before) and July (after) 2018 on the network impacted by the 80 km/h on 1st July

- A sudden drop of light vehicles driving speeds from the very 1st July 2018, although it was a Sunday



- The decrease on average driving speeds for light vehicle and heavy goods vehicles :
 → -3.9 km/h for LV between June and September
 → -1.8 km/h for HGV between June and September
- A stability on driving speeds between July and November 2018 for light vehicles. A slight increase for heavy goods vehicles over the months.

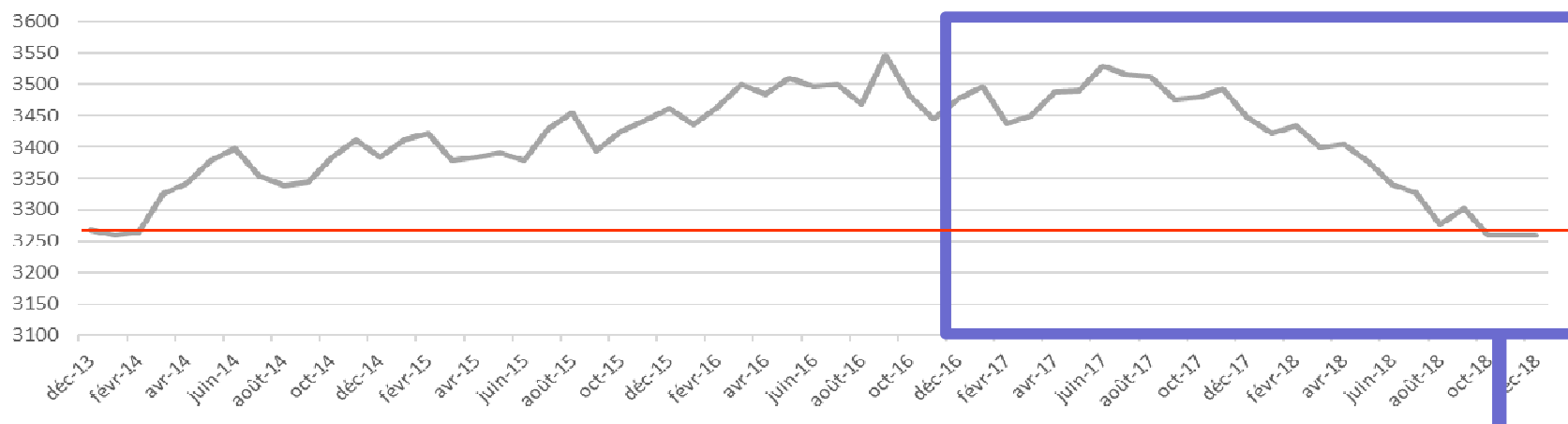
Driving speeds changes before/after (June to November 2018)



- The whole driving speed distribution has moved to the left and narrowed, which means a decrease in driving speeds.
- The diagram curves of distributions between September and November are similar, which means a stability in drivers behaviours once the measure is in place.

Road safety performance on rural roads fares better than on the remaining network

Gliding 12- months fatalities 2013-2018 in France mainland

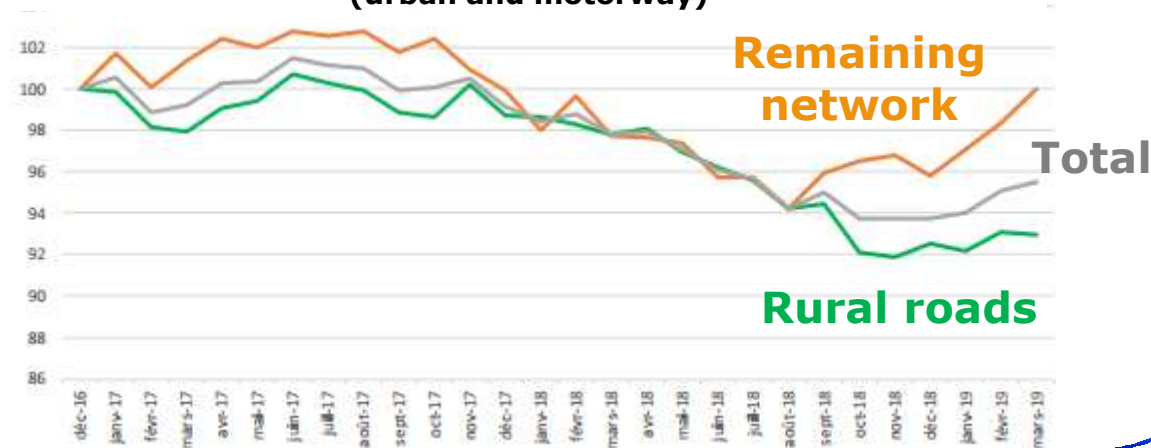


The falling trend initiated in the third quarter of 2017 was first a decrease due to the « remaining network» (urban streets and motorways), then for all networks during the 1st semester 2018.

In the second semester 2018, only rural roads fatalities decrease while road fatalities from the remaining network rise.

Base 100 development of gliding 12-months fatalities 2016-2019
per network type : rural roads vs remaining network

(urban and motorway)

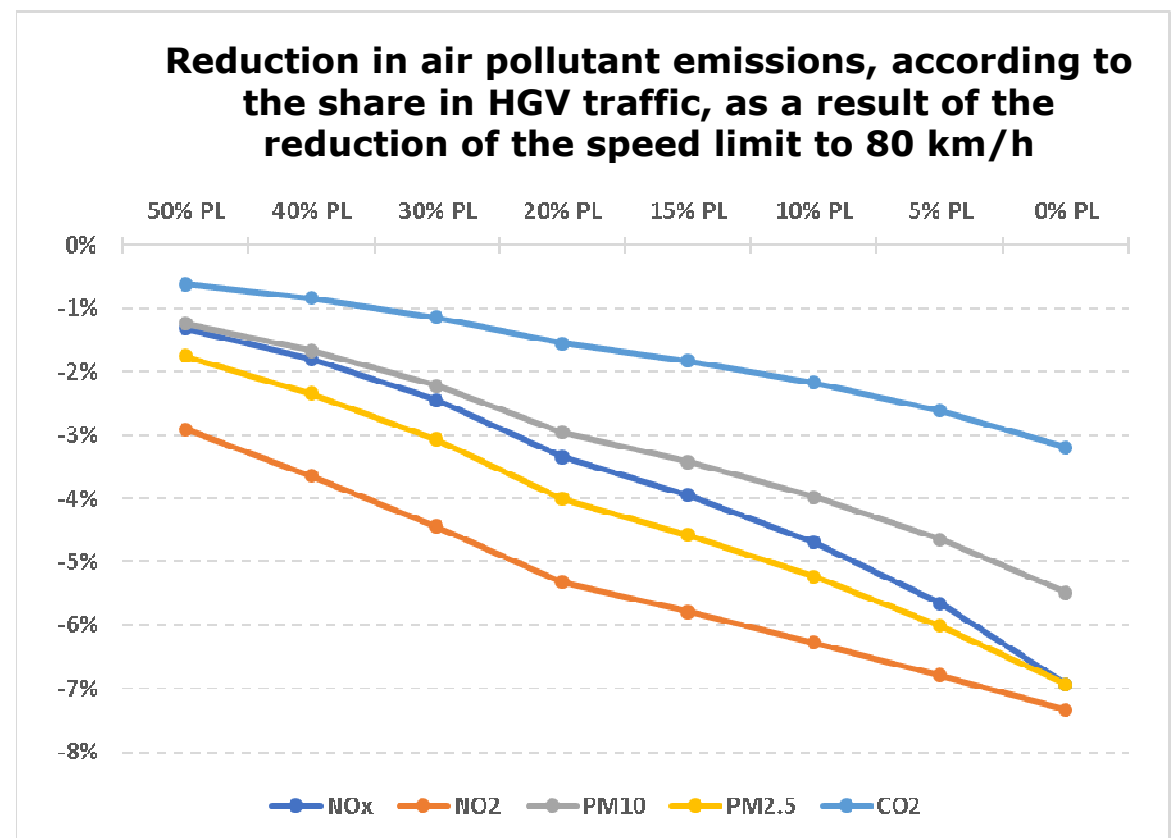


Good news expected also on air pollutant emissions

A study from ATMO Auvergne Rhône-Alpes based on models currently available concerning air pollutants expects that the speed limit reduction will :

- reduce greenhouse gases (CO₂) by **3% at most**
- reduce pollutants harmful for our health (Nitrogen oxide and fine particles) **by 7% at most**. This would benefit the population living within 50m from rural roads.

The gain decreases as HGV traffic share increases.



Make sure you target the right network : check your data

Reducing individual risk is important
(number of fatalities per km travelled)

but

Most fatalities occur where the traffic flows
(number of fatalities per km of network)

Website: <https://www.onisr.securite-routiere.interieur.gouv.fr>

