



Smart Transportation Alliance

2020 Annual Conference  
& Innovation Awards

# **SAFE, GREEN AND CONNECTED ROADS IN A POST-COVID MOBILITY**

**Elena de la Peña**

**Chair of STA Technical Committee on Smart Mobility  
Deputy Director of Spanish Road Association**

24 November 2020

# Our context - our proposal



"We will only get out of this with a massive investment in infrastructure"  
(Erik Maskin, Nobel Prize in Economics 2007)

Estimated unemployment rates of 21% by 2021.

GDP reduction estimations: 9,5-12,4%.

Most affected sectors: hotels & restaurants, entertainment, tourism, commerce, etc.



## OUR PLAN:

### SAFE, GREEN & CONNECTED ROADS

- Creation of new jobs (lost in other sectors)
- Activation of economy (entertainment, tourism, etc.)
- Adaptation to mobility of the future (electromobility, micromobility, etc.)
- According to Agenda 2030
- Fits into the Spanish Strategy for Safe, Sustainable and Connected Mobility 2030

# Rural roads

## SAFE ROADS

### Road safety actions in highways (single carriageways).

- Roads 2+1.
- Forgiving roads. Safe System approach.
- High Risk road sections.

### Adaptation of roads for connected and autonomous mobility.

- Different levels 1-5.
- Stage 1: only motorways (60% of mobility).
- Stage 2: main road network (75%).

### Roads to improve freight transport in rural areas.

- Safe and guaranteed transport for rural and depopulated areas.
- Mini-logistic centres for storage and distribution.

## GREEN ROADS

### Well maintained roads for significant CO<sub>2</sub> savings .

- +9% for light vehicles.
- +6% for heavy vehicles.

### Electric car charging stations along roads.

- Stage 1: at petrol stations.
- Stage 2: Stage 1 + every 50 km (15.000 new spots).

### Safe tourism road network in depopulated areas.

- Improvement of local roads in rural areas.
- Roads for sustainable mobility of vulnerable road users, close to small villages.

# Urban roads

## SAFE ROADS

## GREEN ROADS

## CONNECTED ROADS



Improvement of sidewalks and pedestrian areas.

- Walking, cycling, scooters, etc.
- Sustainable mobility, focused in safety.



Specific lanes for cycling and scooters.

- Physical separation of motorized traffic.
- Cities >50.000 inhabitants.



Redistribution of parking spaces.

- Linked to multimodal stations.
- Cities >100.000 inhabitants.



Low-emission zones.

- By 2030; all cities > 500.000.
- Rapid implementation of at least 1/3.



Massive deployment of electric car charging stations.

- Spain objective: 5 M electric vehicles by 2030; today only 81.000.
- At least 150.000 charging stations.



Priority dedicated lanes for high-occupancy vehicles.

- Low cost solutions: based in ITS.
- Cities >100.000 inhabitants.

# Benefits

Investment: 32.000 million €

12 measures to overcome the crisis

+ 1 million new jobs (direct & indirect)

Focused on the most vulnerable workforces



## RURAL ROADS

- 24.700 M€.
- 790.000 new jobs (direct & indirect).



## URBAN ROADS

- 7.400 M€.
- 236.000 new jobs (direct & indirect).



Smart Transportation Alliance

**THANK YOU  
FOR YOUR  
ATTENTION**

Tribes European Quarter  
Avenue Marnix 17  
1000 Brussels (Belgium)  
Tel: + 32 2 808 60 50

Email: [info@smart-transportation.org](mailto:info@smart-transportation.org)

[www.smart-transportation.org](http://www.smart-transportation.org)