



# Barcelona Low Emission Zone

## ZBE Barcelona Rondes





## Barcelona LEZ

- 1. Environmental classification of vehicles**
- 2. Barcelona LEZ regulation**
- 3. Monitoring and control system**
- 4. Implementation schedule**
- 5. Traffic monitoring**
- 6. Mobility in COVID scenario**
- 7. Possible LEZ evolutionary approaches**





# 1. Environmental classification of vehicles

## Sticker badge by spanish traffic authority (DGT)



Moped      Motorcycle      Gasoline car      Diesel car



Euro 1		1999	1992	1992
Euro 2	2003		2003	
Euro 3			2000	
Euro 4				2006



## 2. Barcelona LEZ regulation

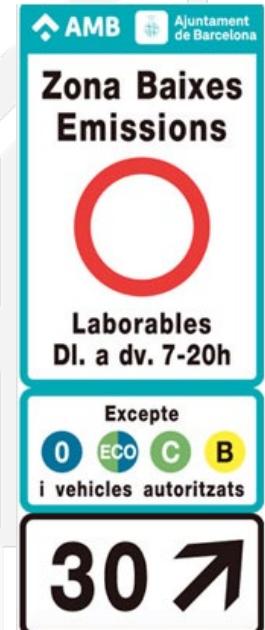
**Area of 95 km<sup>2</sup>**

**Includes Barcelona and the municipalities surrounding the ring road**

**Vehicles without DGT stickers not allowed**



**Working days from 7 to 20h**



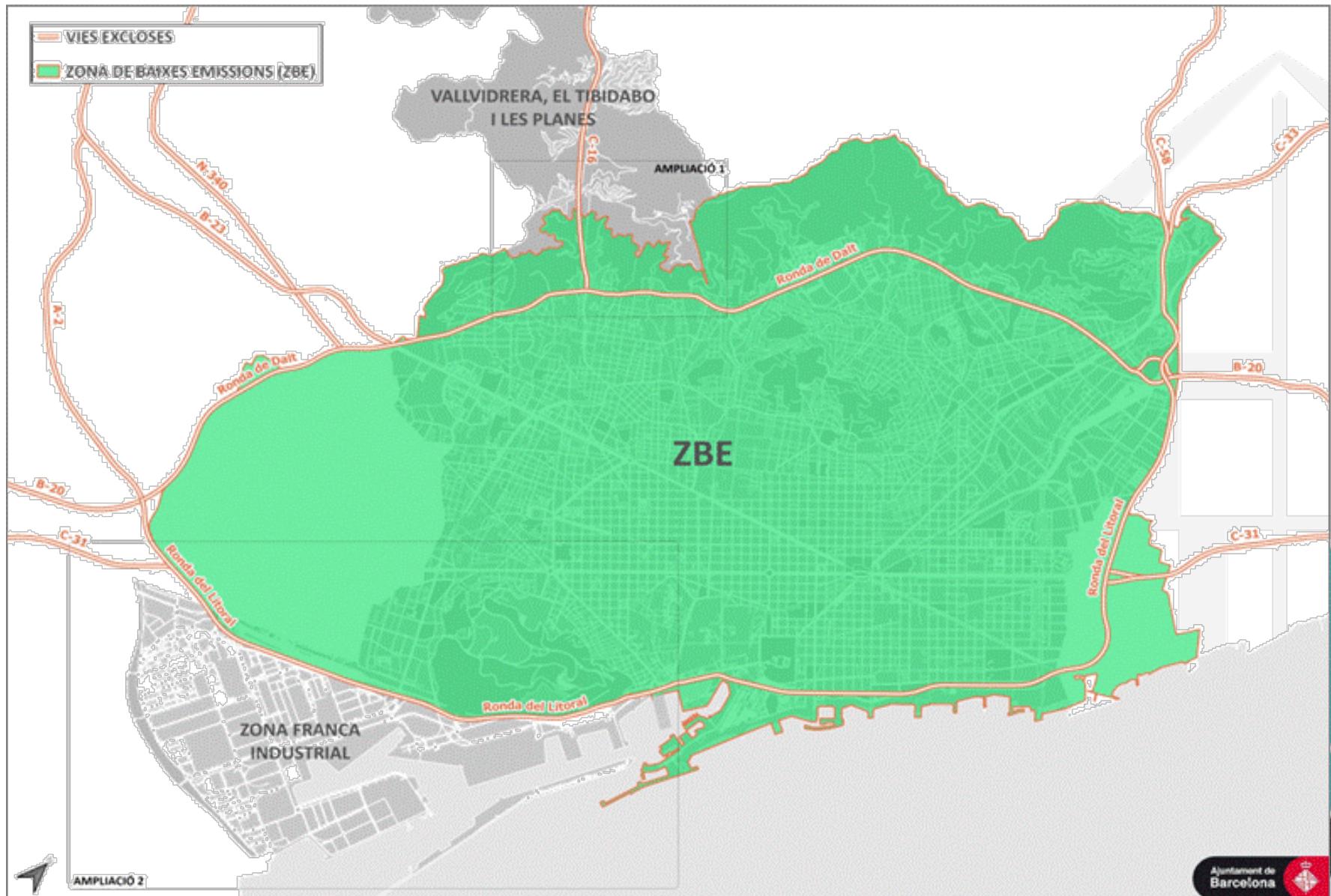
**Exemptions, authorizations (10 days/year) and grace period**

<https://www.zbe.barcelona/en/index.html>





Barcelona LEZ





# Authorizations and exemptions



## Daily permits

Registration of vehicles to be able to request up to 10 driving permits per year



## People with reduced mobility

For vehicles transporting people with reduced mobility.



## Emergency services and other essential services

Medical services, funeral services, civil protection, firefighters, police and law enforcement agencies.



## Foreign vehicles

Register of vehicles with foreign number plates in order to drive in the ZBE.



## People with health permit

Vehicles for people with health requirements.



## Vehicles for special services

Adapted vehicles used for the provision of special services which need temporary access.



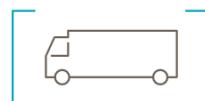
## Grace period for professional vehicles

Category M1 and L vehicles used for professional activities carried out by workers with low income.



## Dynamic tests in repair workshops

Vehicles in dynamic tests in authorised maintenance and repair workshops.



## Vehicles that are to be substituted

Grace period for category N1, N2, N3 and M3 vehicles which are substituted with a new vehicle.

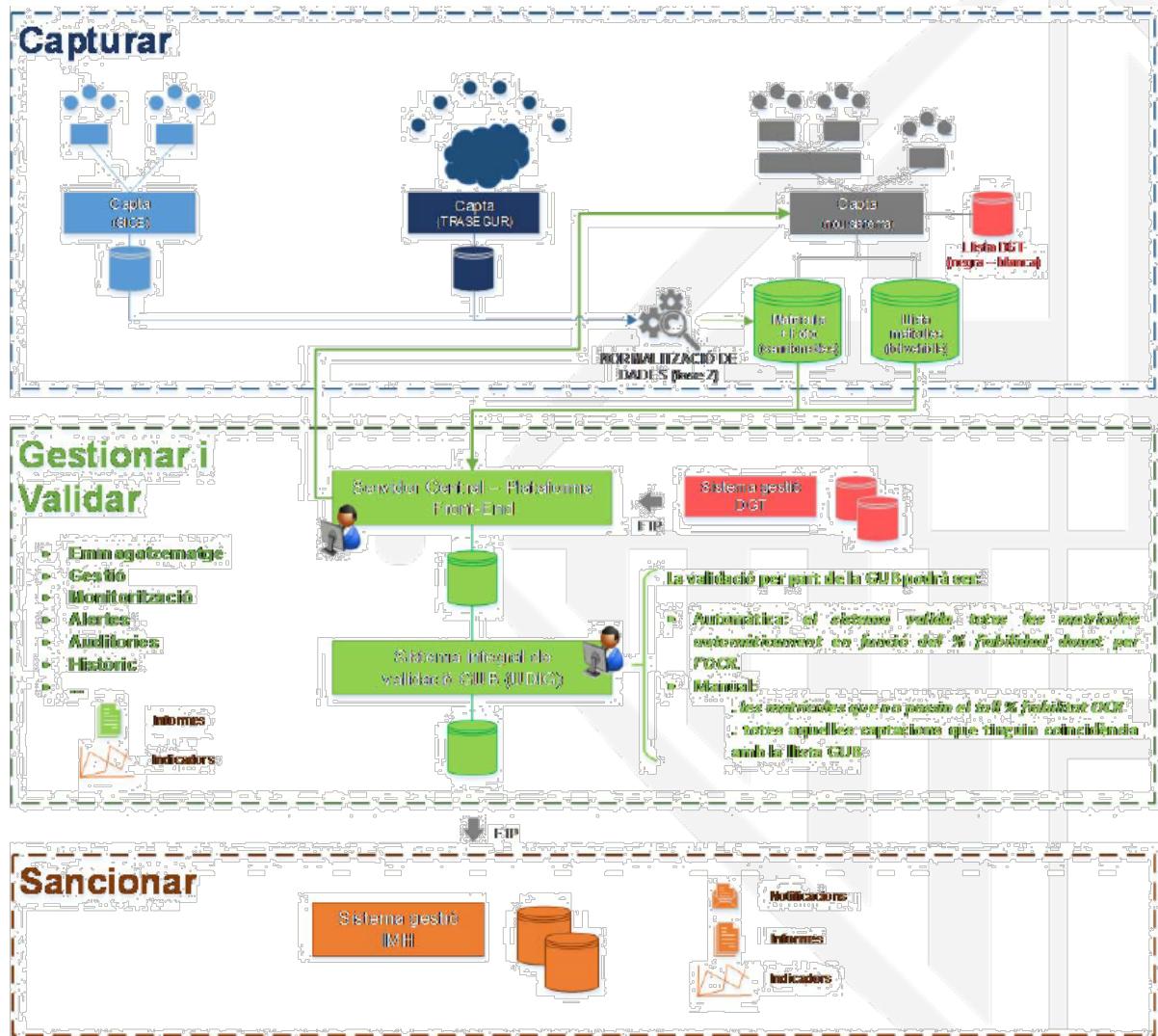


### 3. Monitoring and control system

AMB

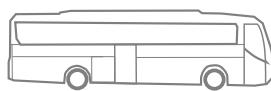


Ajuntament de Barcelona





## 4. Implementation schedule

- **2017 Announcement of implantation  
Environmental Characterization Study of the Circulating Vehicles**
- **01/12/2018 - LEZ only in high pollution episode**
- **01/04/2020 – Car, motorbike and moped LEZ** 
- **15/09/2020 - Sanctioning procedure**
- **01/04/2021 – Van LEZ** 
- **01/01/2022 – Truck LEZ** 
- **01/07/2022 – Bus LEZ** 

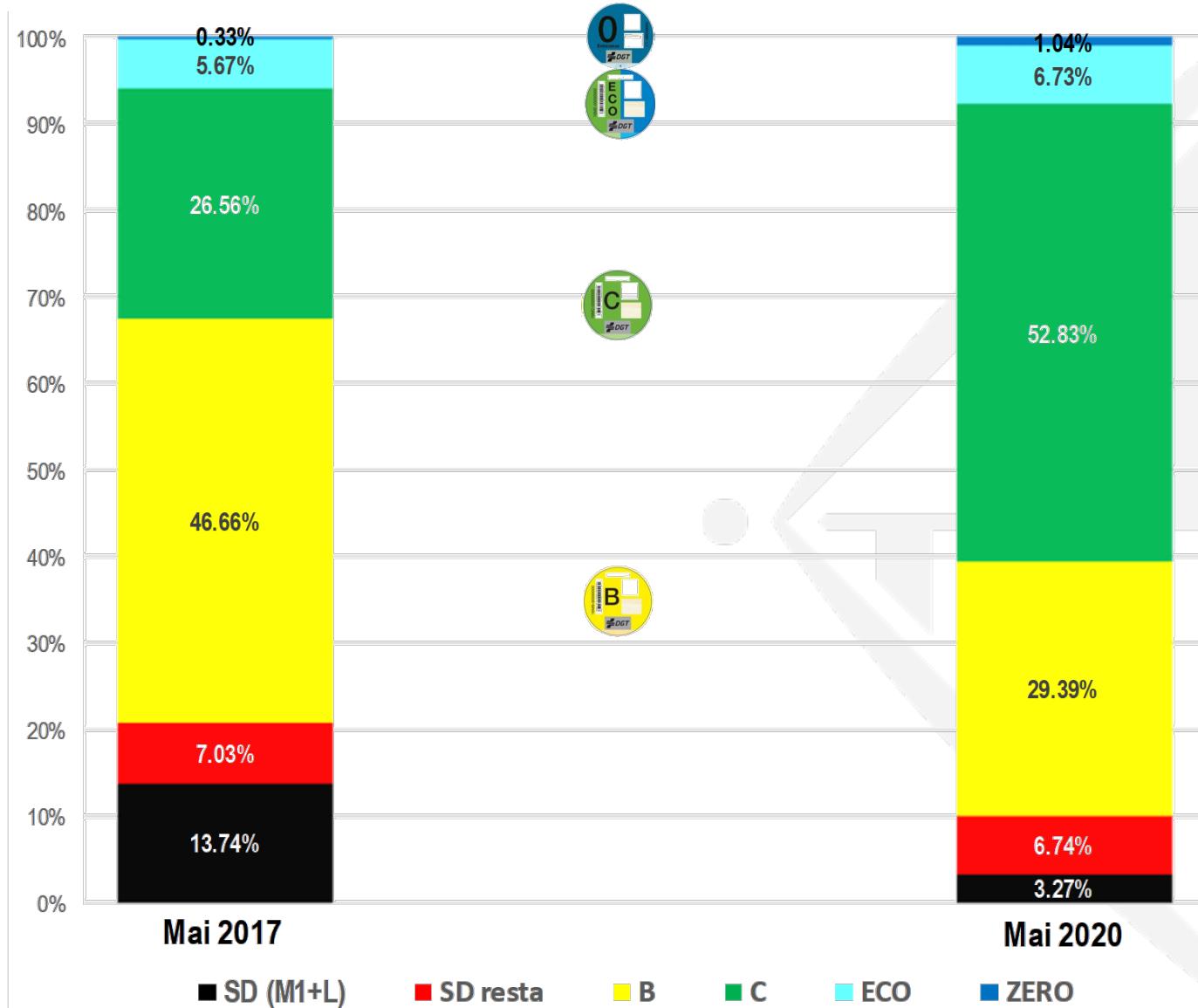


## 5. Traffic monitoring



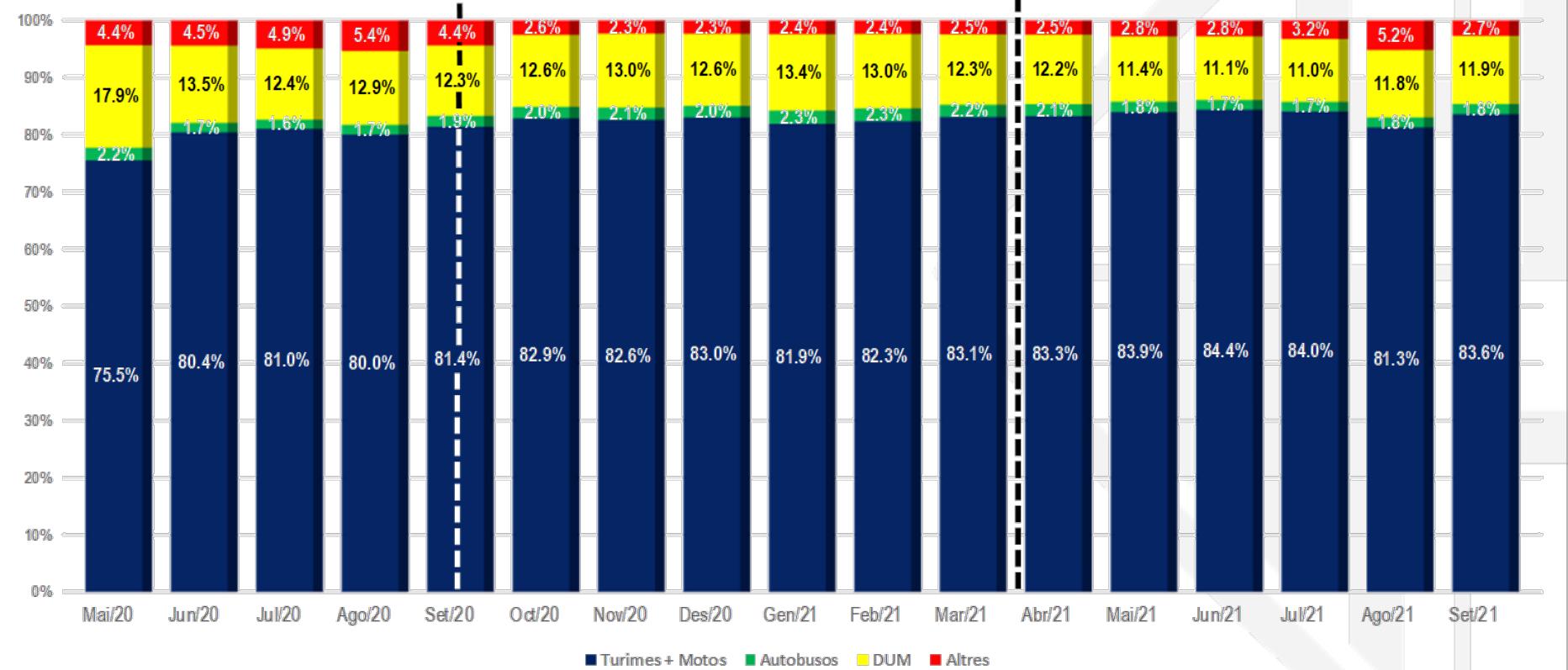
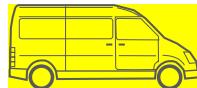


## Evolution 2017-2020 (before LEZ): environmental classification traffic distribution



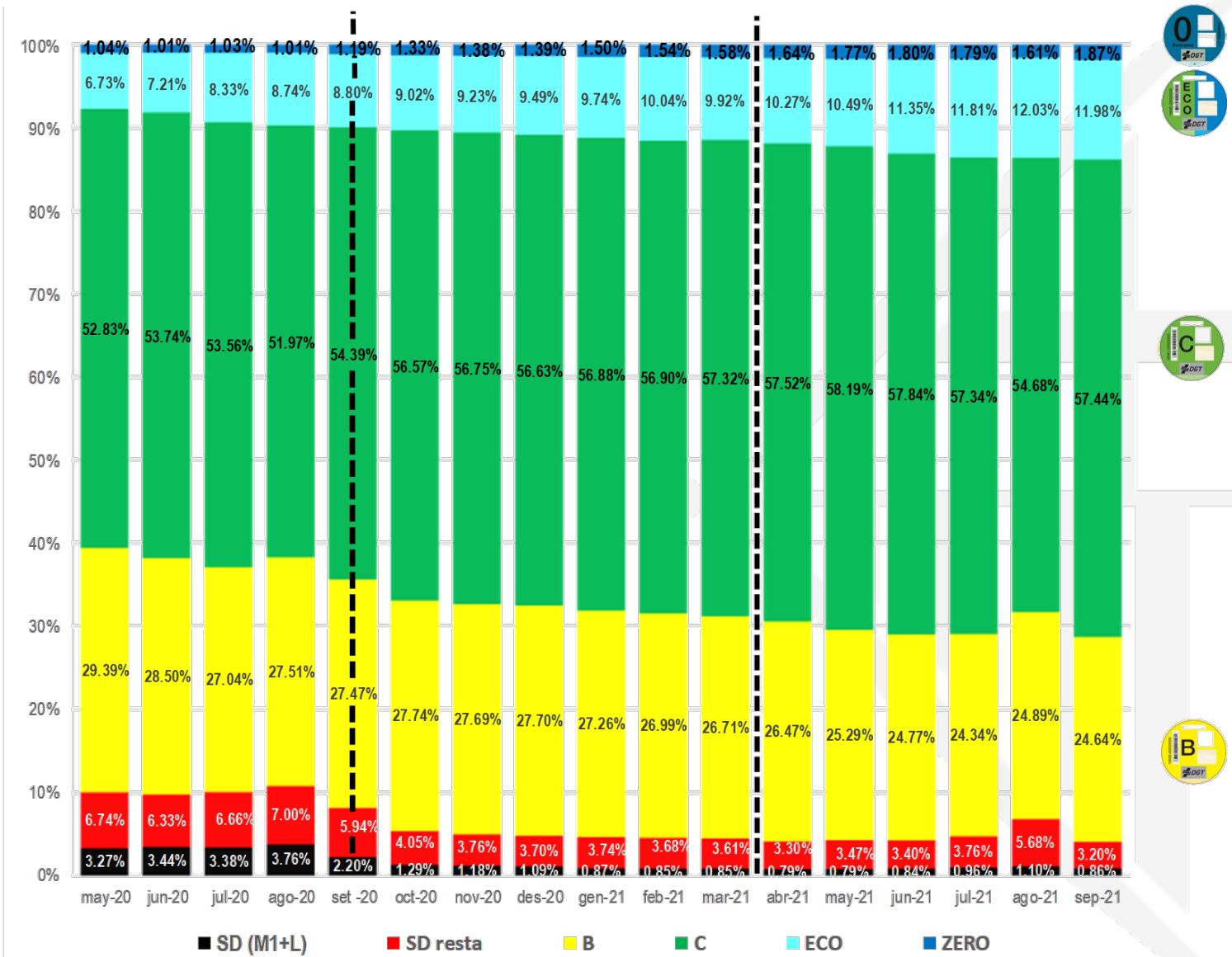


# Evolution since 2020: vehicle type





# Evolution since 2020: environmental classification traffic distribution

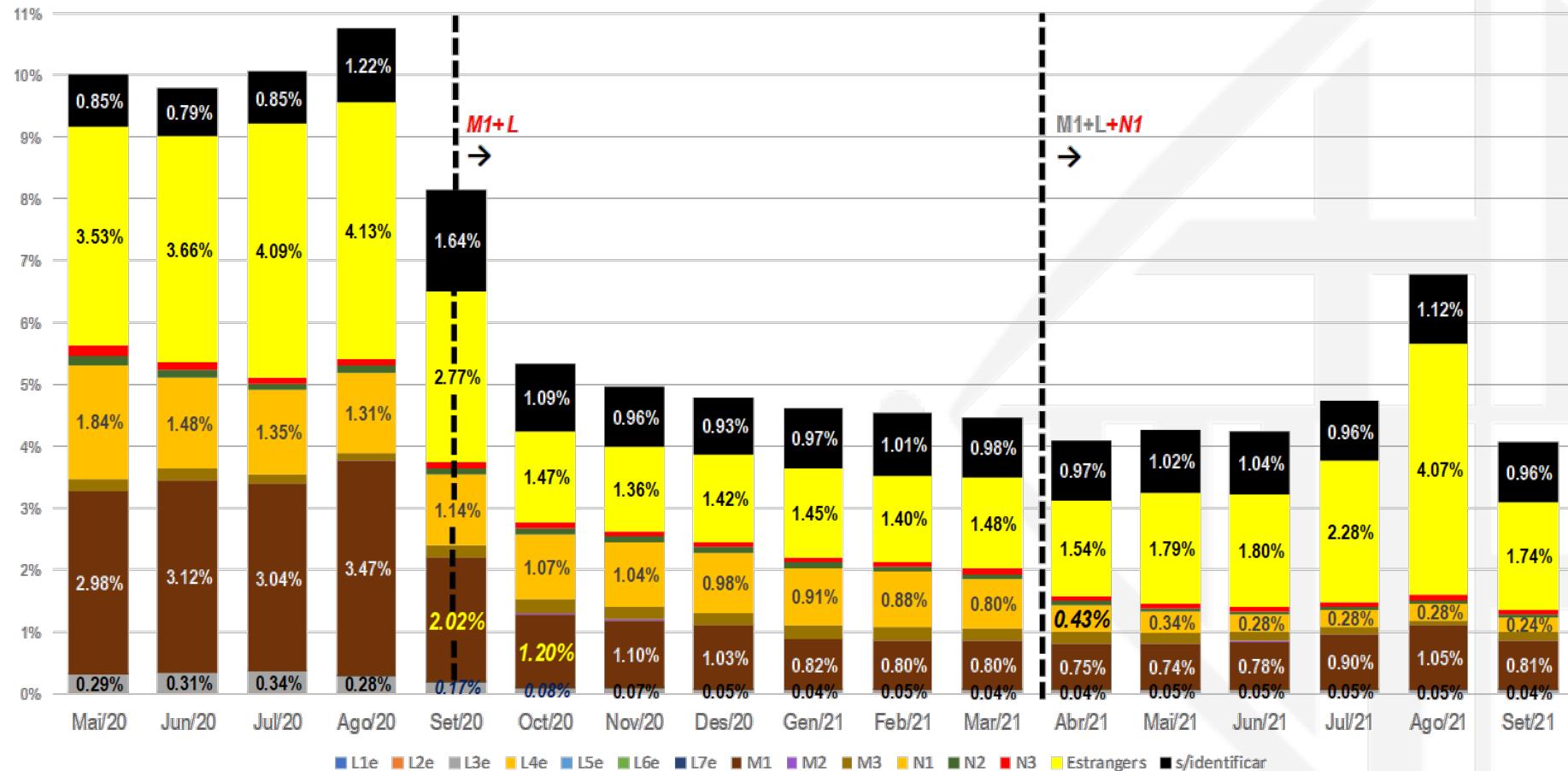




# Evolution since 2020: vehicles without environmental sticker badge

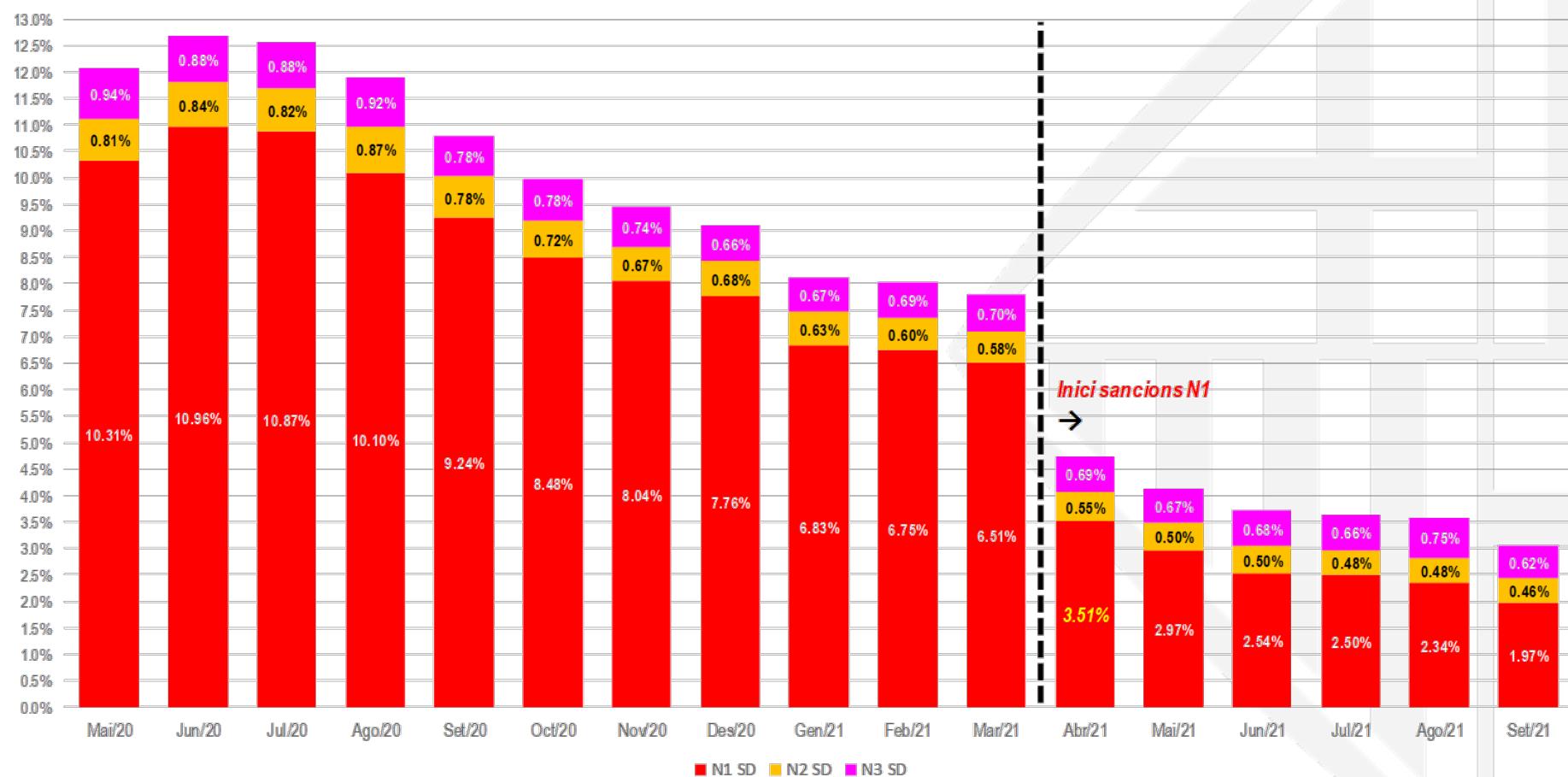


## Foreigner





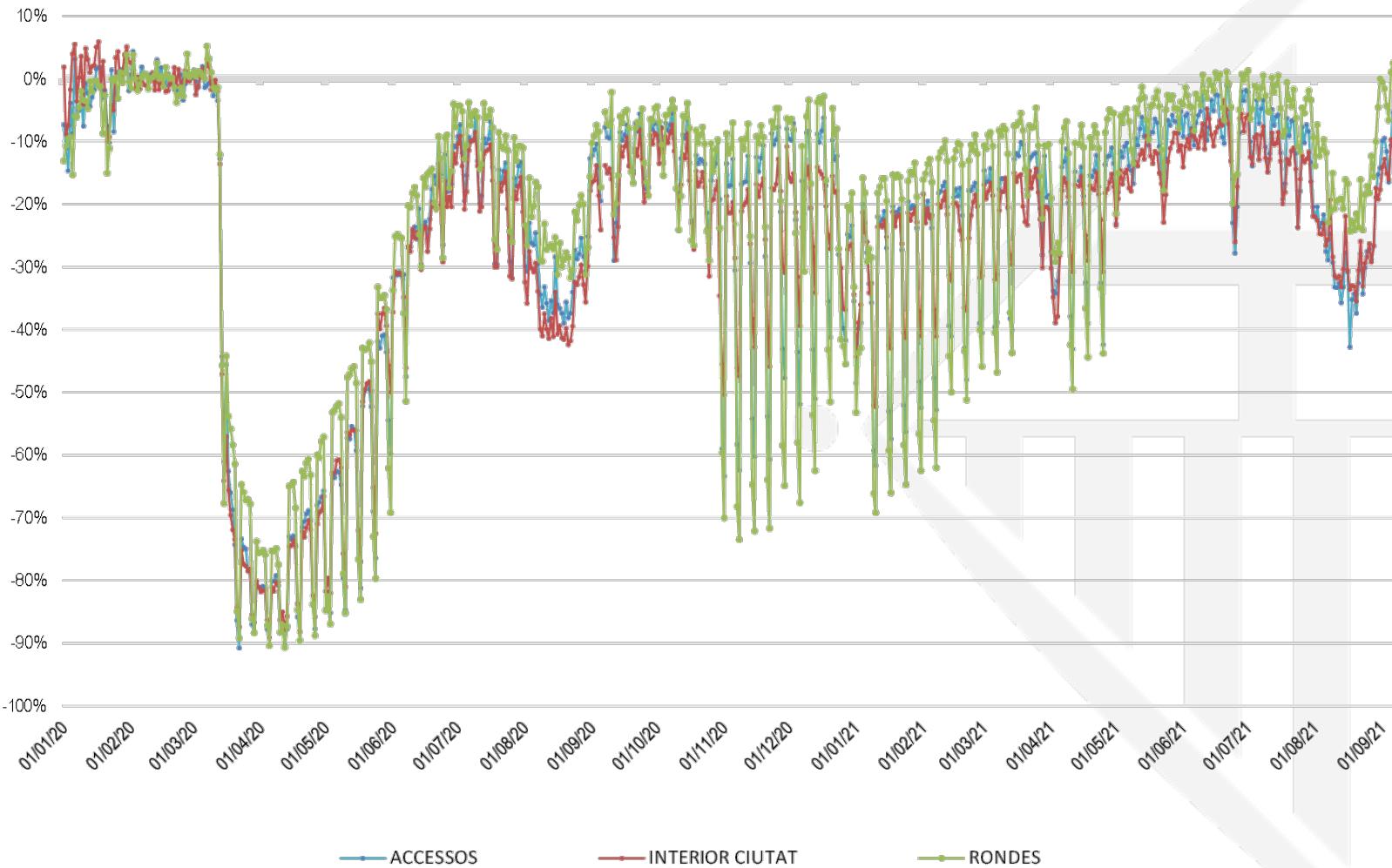
# Evolution since 2020: vans and trucks without environmental sticker badge





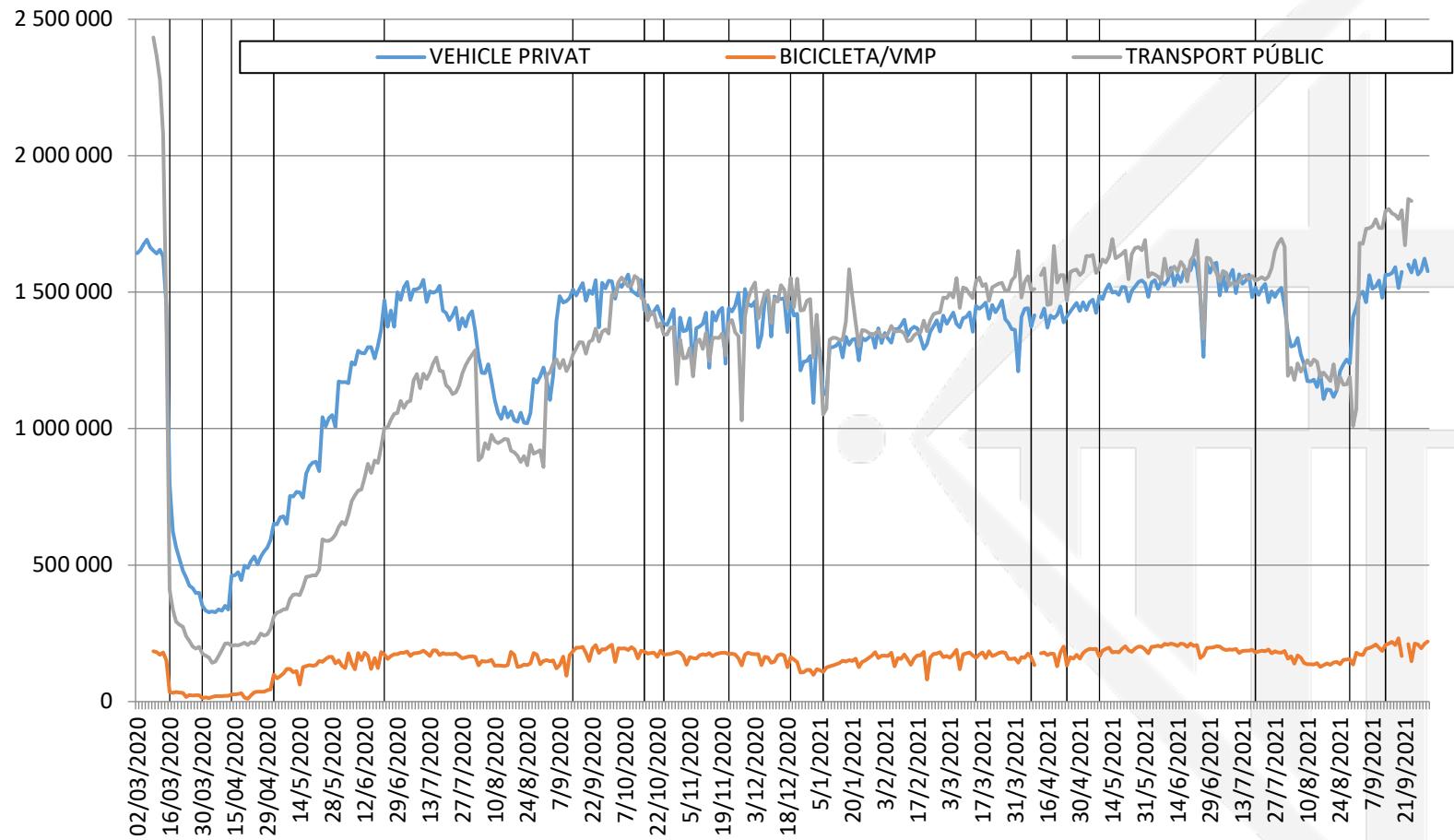
# 6. Mobility in COVID scenario

## Traffic evolution





## Displacements estimation



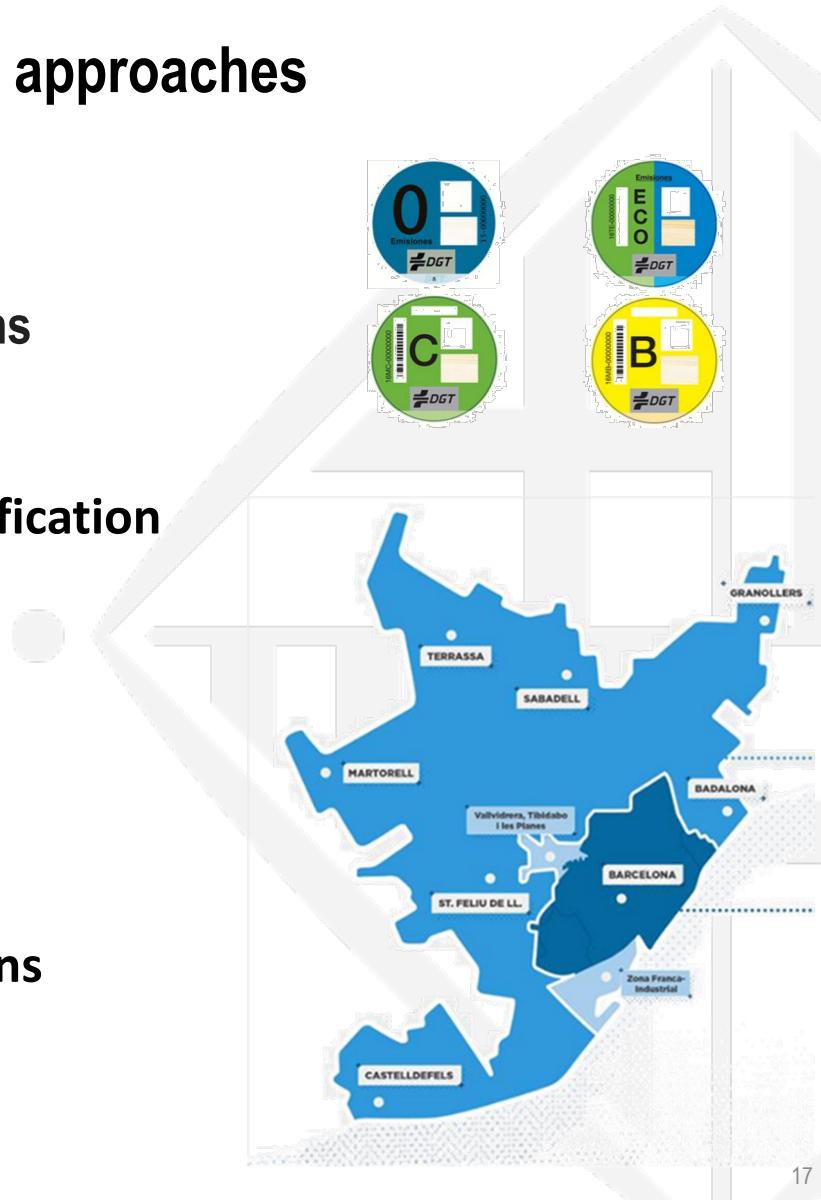


## 7. Possible LEZ evolutionary approaches

### Necessary evolution

### Collaboration among public administrations

- Spanish environmental vehicle classification
- Barcelona LEZ
  - Restricted vehicles
  - Days of the week and hours
  - Application area
- Interaction with other mobility actions





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2021 IMPACTS - Zurich

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