

EUROPEAN FUNDING FOR THE RENEWAL AND DECARBONISATION OF THE STCP FLEET



Cofinanciado por:



UNIÃO EUROPEIA
Fundo de Coesão

STCP's fleet evolution (2017-2021)

TYPE OF ENERGY	2017	2018	2019	2020	2021
CNG Buses	258	245	268	324	333
100% electric buses	0	15	15	15	20
Diesel buses	162	160	137	81	67
Fleet total	420	420	420	420	420

Table 1: Annual characterisation of the STCP fleet (on 31 December of each year) by type of Energy used

STCP's fleet renewal using European funds: dates and types

POSEUR-01 Call for Applications

- Application in 2017 for the purchase of 173 CNG + 15 EV
- Delivery of buses between April 2018 and December 2020

POSEUR-02 Call for Applications

- Application in 2019 for the purchase of 81 CNG + 5 EV
- Delivery of buses between February 2021 and December 2021

ENERGY	2017	2018	2019	2020	2021	TOTAL
CNG	0	35	59	79	81	254
Electric	0	15	0	0	5	20
Total	0	50	59	79	86	274

Table 2: Number of vehicles purchased per year by type of Energy used

274 BUSES WERE PURCHASED TO REPLACE THE SAME QUANTITY OF SCRAPPED DIESEL AND NATURAL GAS VEHICLES:

Scrapping of 95 diesel buses, mainly due to their age (>20 years) and high maintenance costs.

Scrapping of 179 CNG buses, due to the legal limit on the duration of the gas tanks (20 years).

Fleet renewal: reduction of CO₂ emissions

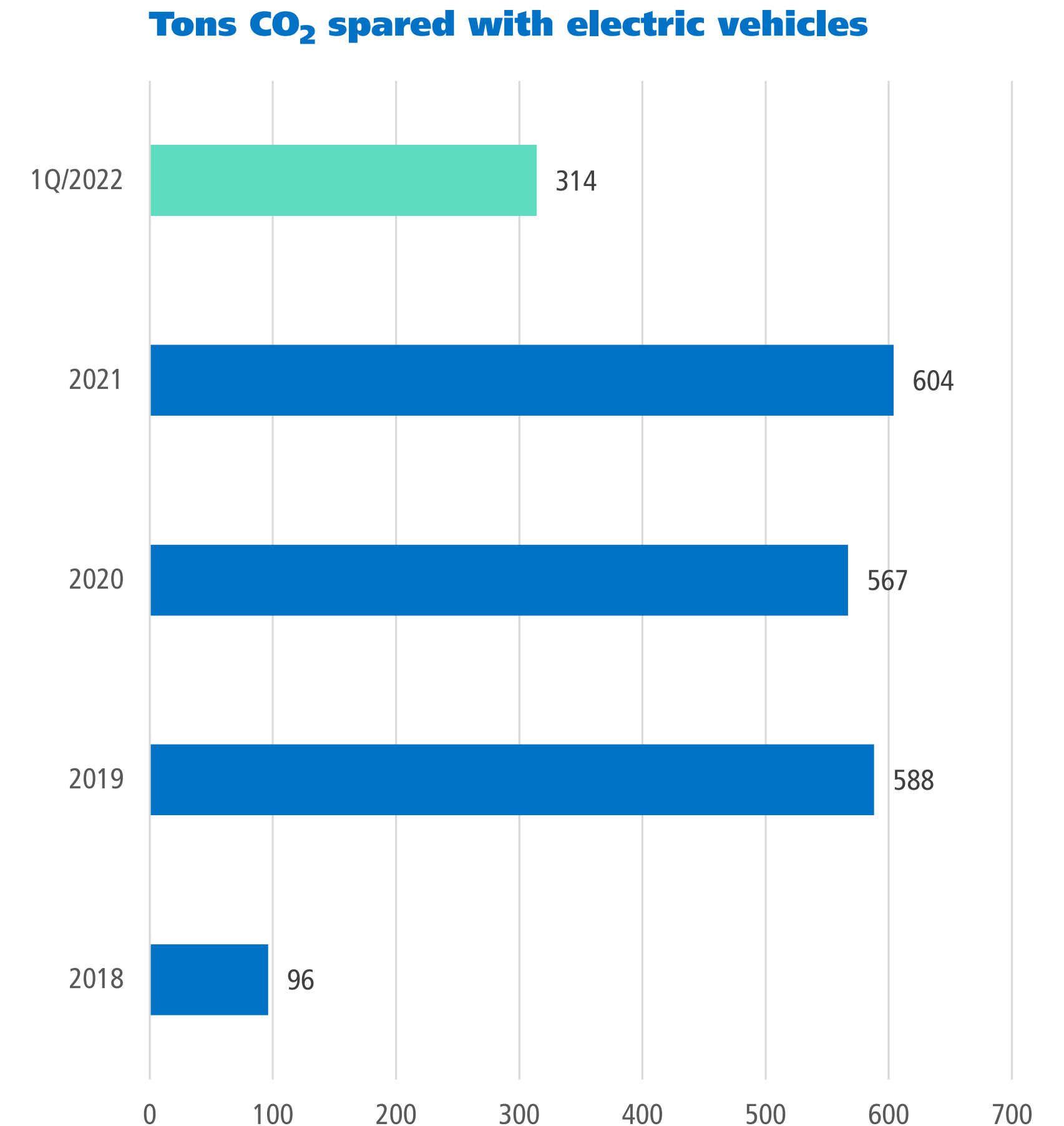
INDICATOR	2018	2019	2020	2021	1Q/2022
Electric vehicles Km	63 196	388 305	373 848	398 492	207 530
Tonnes of CO ₂ savings with electric vehicles	96	588	567	604	314

BETWEEN 2018 AND 2021

- 15 electric buses
- 200 kWh autonomy (less kms travelled/ bus)

END OF 2021

- 5 new electric buses with increased autonomy
- Greater emissions savings and more kms travelled



Prospects for the future: new purchases

PRR (Environmental Fund)

- Purchase of 48 new buses
- Supply and installation of 24 150 kWh double output chargers

EXPECTED DELIVERY

Start – May 2023
End – November 2023

IMPACT ON STCP'S FLEET

50% of the vehicles to be acquired are destined to replace 24 diesel buses

The rest will be used to reinforce the fleet, which will have 444 buses

Prospects for the future: investment and fleet at the end of 2023

HEADLINE	UNIT COST (€)	QT	TOTAL INVESTMENT (€)	ELIGIBLE INVESTMENT (€)	REQUESTED FUNDING (€)
Electric buses	398 795	48	19 142 160	11 034 960	11 034 960
Charging stations for electric buses	40 000	24	960 000	960 000	960 000
Communication plan	5 040	1	5 040	5 040	5 040
Total			20 107 200	12 000 000	12 000 000

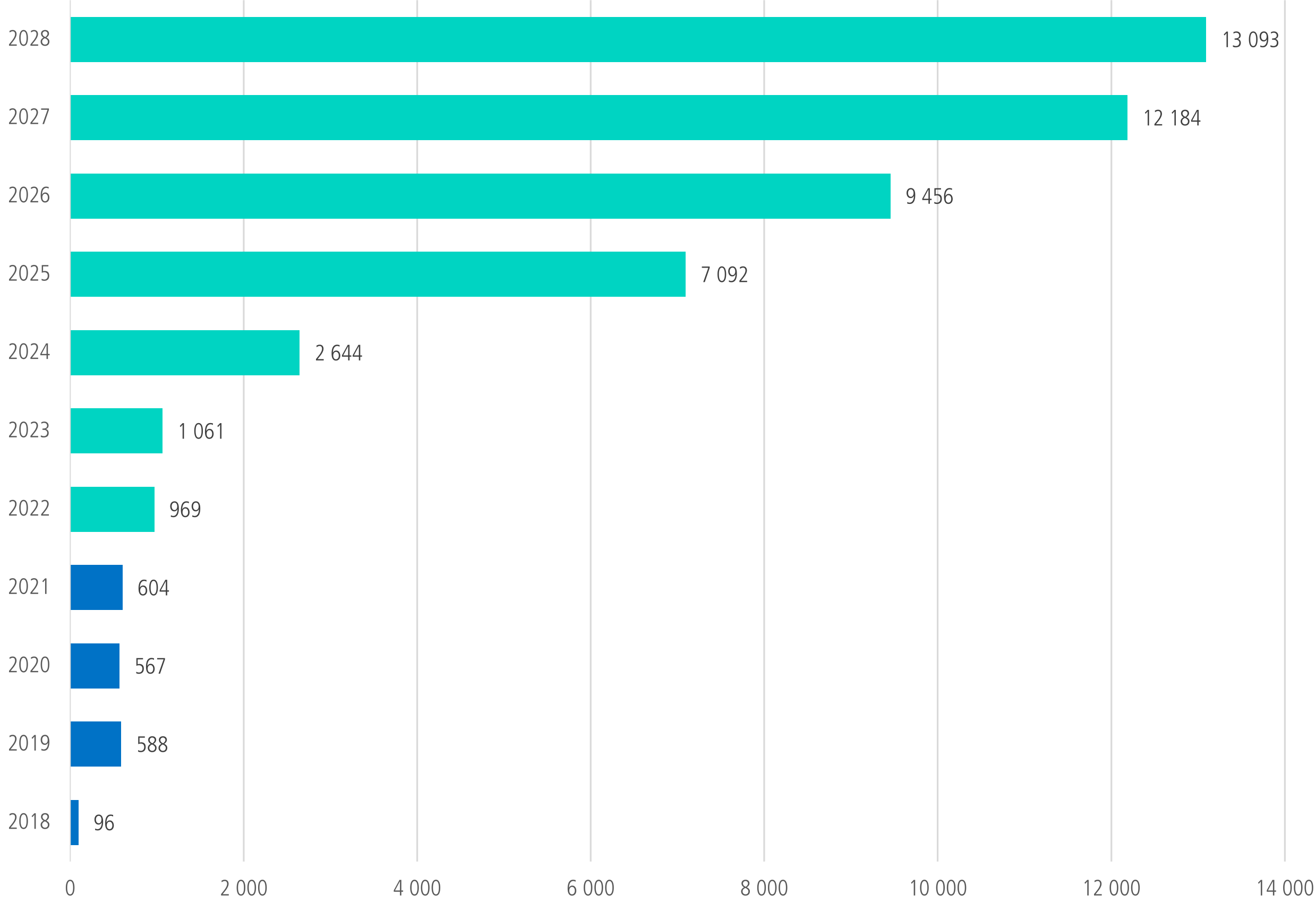
Table 3: Amounts involved in RRP procurement by heading

ENERGY	2023
CNG	324
Electric	63
Diesel	57
Fleet total	444

Table 4: Fleet in 2023

Prospects for the future: CO₂ emissions savings

CO₂ emissions savings 2018-2021 + 2022-2028 forecast [tons]



2018-2028
Total CO₂ saving:

48,838 tons

2030 Scenario:
**Full decarbonisation of
the STCP fleet**

Purchase:
425 EV buses

Total investment:
193 M€

Total annual CO₂
emissions saving:
>34,000 tons

PART

TARIFF REDUCTION POLICY



PARIS AGREEMENT

CONGESTION

PARIS AGREEMENT

CONGESTION

PARIS AGREEMENT

1,2%

19,1%

3,3%

1,3%

9,9%

65,2%

GREENHOUSE GAS EMISSIONS

AIR POLLUTION

- Car
- Bus
- Motorcycle
- Train
- Walk / Bicycle
- Other

source:IMOB2017 (INE, AMP, AML)

BASE SCENARIO
MODAL SPLIT
2017

Expand Intermodal system to cover all AMP territory

Simplification of the tariff scheme:

- 29 bus operators
- Metro
- Train

Strong reduction in fares

ADDRESSING THE PROBLEM

**INCREASE
PUBLIC TRANSPORT
RIDERSHIP**

INTERMODAL SYSTEM EXTENDED TO ALL PUBLIC TRANSPORT SERVICES



NEW FARES

- € 40 / month flat price to travel in all metropolitan area
- € 30 / month flat price to travel in one municipality
- Free public transport for children under 13 years
- € 80 / month family price for all members of household

MEASURES
**SIMPLIFICATION
AND REDUCTION
OF TARIFF SCHEME
POLICY**

Simplification and reduction of tariff scheme policy

Some examples:



OLD PRICE

€ 159,75



NEW PRICE

€ 40



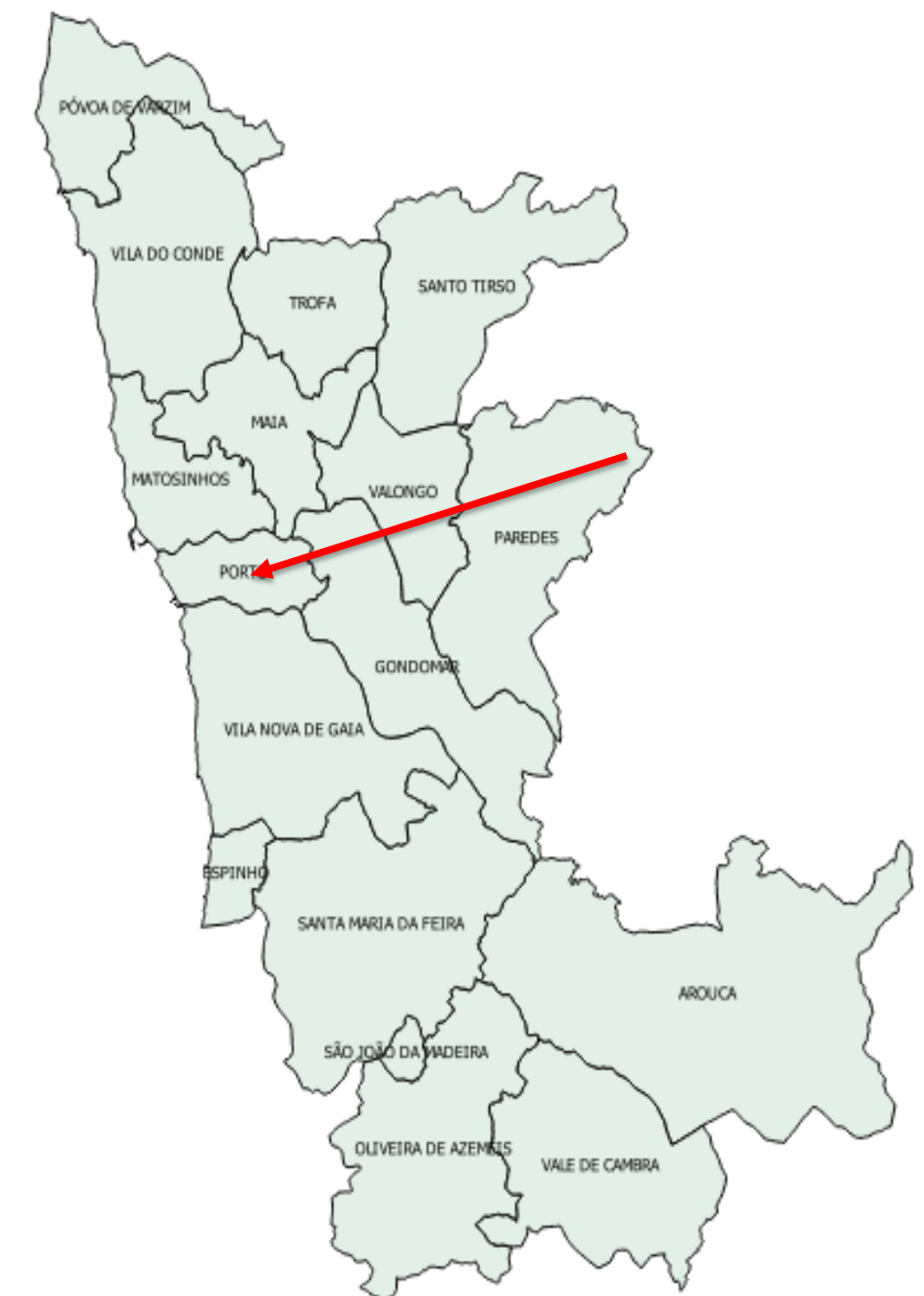
OLD PRICE

€ 78,35



NEW PRICE

€ 40



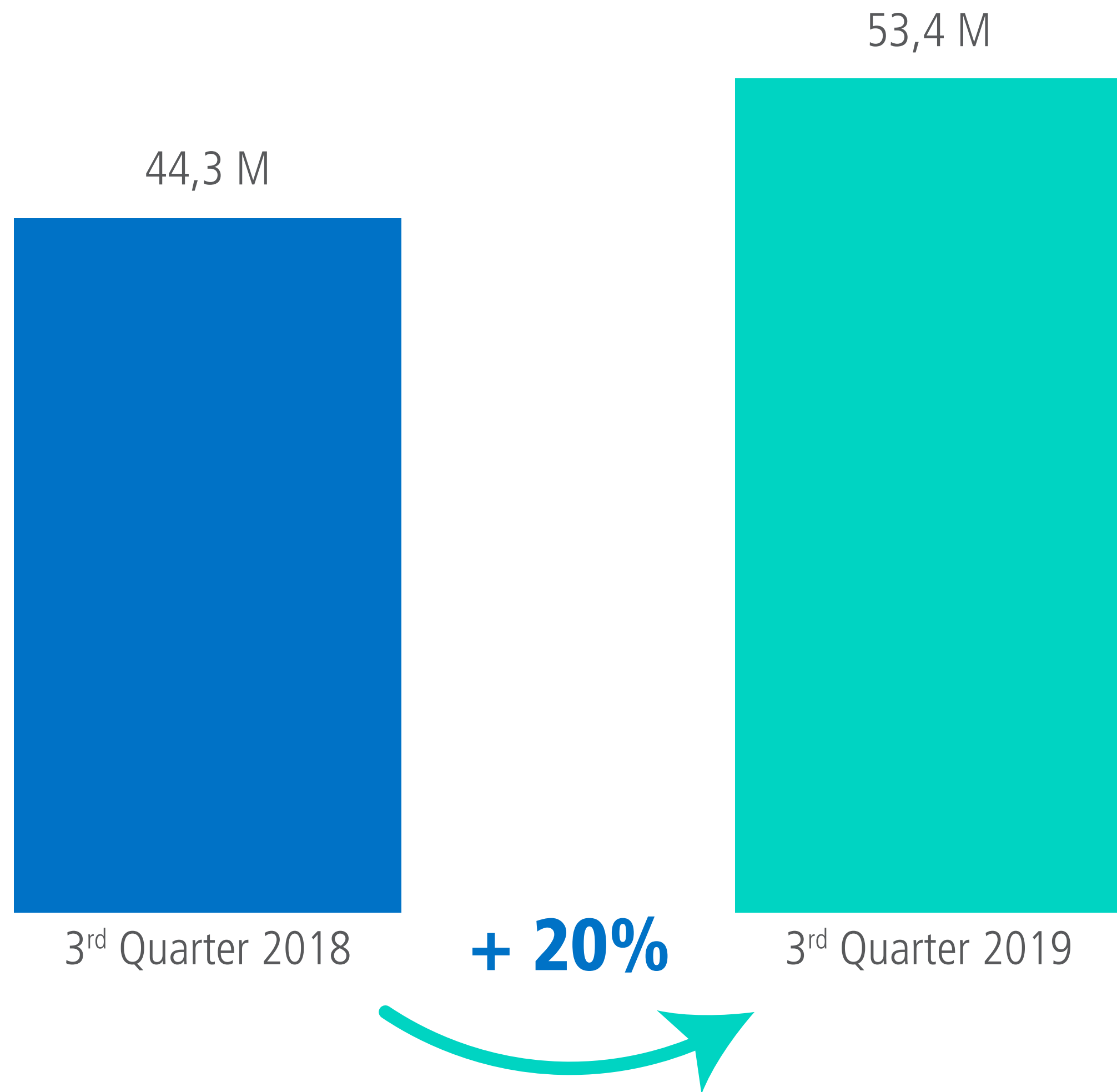
OLD PRICE

€ 121,15



NEW PRICE

€ 40



RESULTS
**INCREASE IN
NUMBER OF
PASSENGERS**



VALONGO • CÂMARA MUNICIPAL



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