BIP AutObserver

Analysis of new car registrations

December 2022

Executive Summary

Analysis of new car registrations in Europe & Italy – December 2022

Europe*

+14,8%

Top Countries by growth of new registrations: 18 countries grew in December 2022 compared to December 2021, the highest rates for Estonia (+123,9%) and Norway (+92,0%). On a YTD base only 10 countries grew, double-digit increase for Iceland (+30,4%), Bulgaria (+16,9%) and Latvia (+16,5%)

Top 3 Countries by market share: Germany 23,5% (+1,2 p.p.), United Kingdom 14,3% (+0,3 p.p.) and France 13,5% (-0,5 p.p.) in December 2022 YTD compared to December 2021 YTD.

Brands: among the **Top 15 by volume**, highest growth comparing December 2022 to December 2021 for BMW (+35,9%), Audi (+35,0%) and Volkswagen (+26,5%). Considering YTD data, only Dacia (+15,8%), Kia (+7,9%), Toyota (+7,6%), Audi (+2,9%) and Hyundai (+0,5%) registered an increase

Premium brands: Audi** is the only brand that increased both in monthly (+35,0%) and YTD (+2,9%), while **BMW** (+35,9%) and **Mercedes-Benz** (+10,8%) grew in December 2022 but are still under 2021 on a YTD basis (-5,4% and -1,5% respectively)

Italy

+21,0%

Areas monthly results: North-East +19,0%, North-West +28,6%, Center +29,8%, South +0,6% and Islands +0,8%, comparing December 2022 to December 2021

Customer segments: Retail +8,0%, Fleet +78,2% and Business -4,8% December 2022 vs December 2021

Brands: considering YTD results, among the **Top 15 by volume** only **Dacia** and **Toyota** grew (+9,2% and +8,6% respectively); all the other brands registered a drop, the highest for **Fiat** (-19,9%) and **Renault** (-19,9%)

Premium brands: Audi** (+57,1%), **Mercedes-Benz** (+56,7%) and **BMW** (+28,9%) **registered an increase** in December 2022 compared to December 2021. On a YTD basis BMW, Mercedes-Benz and Audi fell less than the overall market (respectively -7,5%, -3,0% and -0,04% vs -9,7%)

Source: ACEA; UNRAE

(*) EU (26 Countries) + EFTA Countries (Iceland, Norway, Switzerland) + UK

(**) Considering only Premium brands in the top 15 by volume

01. Europe

- Market overview
- New car registrations by brands

02. Italy

03. New car models launches in Italy

04. News on key industry trends

Europe | *Market Overview*

Top 10 European Markets* – December 2022

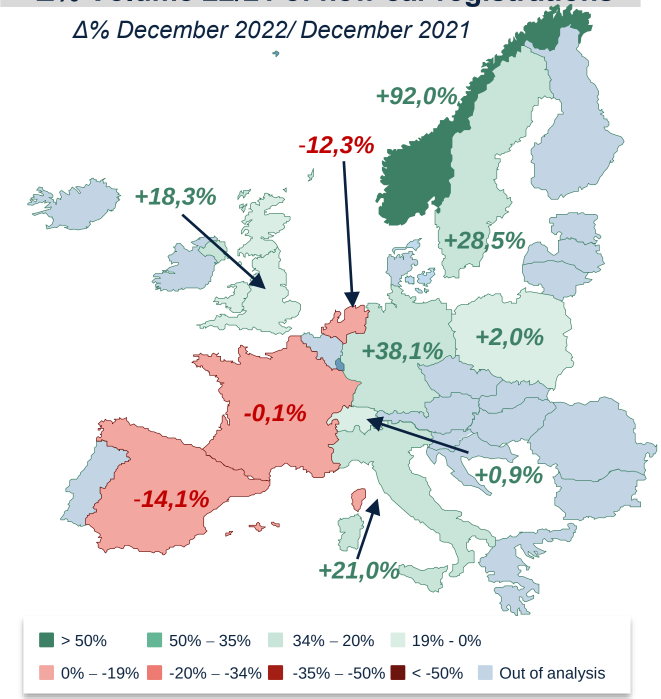
European Markets*
new car registrations

2021	950.052
2022	1.091.119

+14,8%

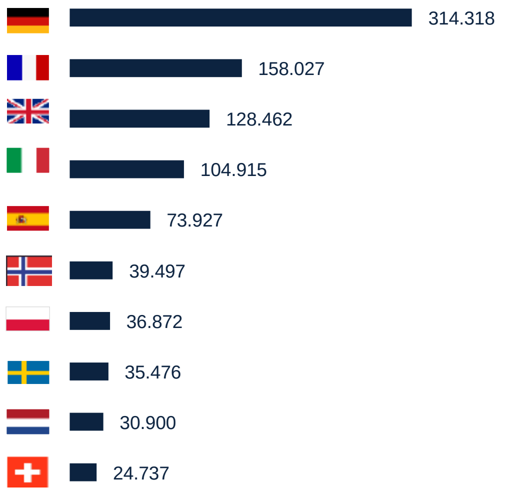
Δ% Volume 22/21 of new car registrations

Δ% December 2022/ December 2021



Number of EU new car registrations 2022

New car registration December 2022



Highlights

- The European market (EU+UK+EFTA) had an increase in **registrations** from 950.052 in December 2021 to 1.091.119 cars in December 2022.
- In line with the previous months the **EU car market confirmed an overall increase in registrations** compared to the other months of 2022.
- The **highest rates** among the top 10 markets for:
  - Norway (+92,0%)
  - Germany (+38,1%)
  - Sweden (+28,5%)
- Considering the top 10 by volume only Spain, Netherlands and France registered a decrease in December 2022 compared to the same month of 2021

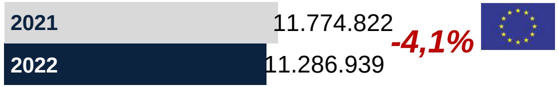
Source: ACEA

(*) EU (26 Countries) + EFTA Countries (Iceland, Norway, Switzerland) + UK

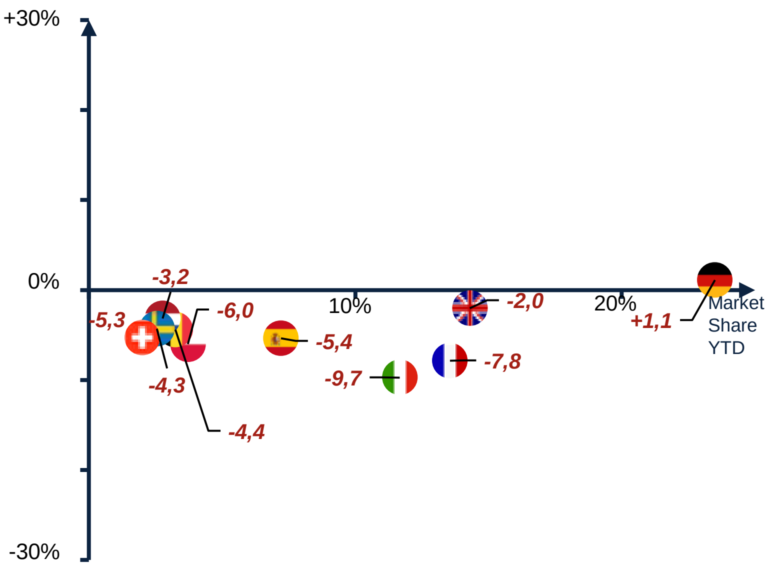
Europe | *Market Overview*

Top 10 European Markets* – December 2022 YTD

European Markets*
new car registrations



Highlights - ∆% Volume 22/21 & Market Share (MS)



#	Country	MS December 2022 YTD	∆ VS 2021	Sales Volume December 2022 YTD
1	GER	23,5%	+1,1	2.651.357
2	UK	14,3%	-2,0	1.614.063
3	FRA	13,5%	-7,8	1.529.035
4	ITA	11,7%	-9,7	1.316.702
5	SPA	7,2%	-5,4	813.396
6	POL	3,7%	-6,0	419.749
7	BEL	3,2%	-4,4	366.303
8	NET	2,8%	-3,2	312.129
9	SWE	2,6%	-4,3	288.087
10	SWI	2,0%	-5,3	225.934

Highlights

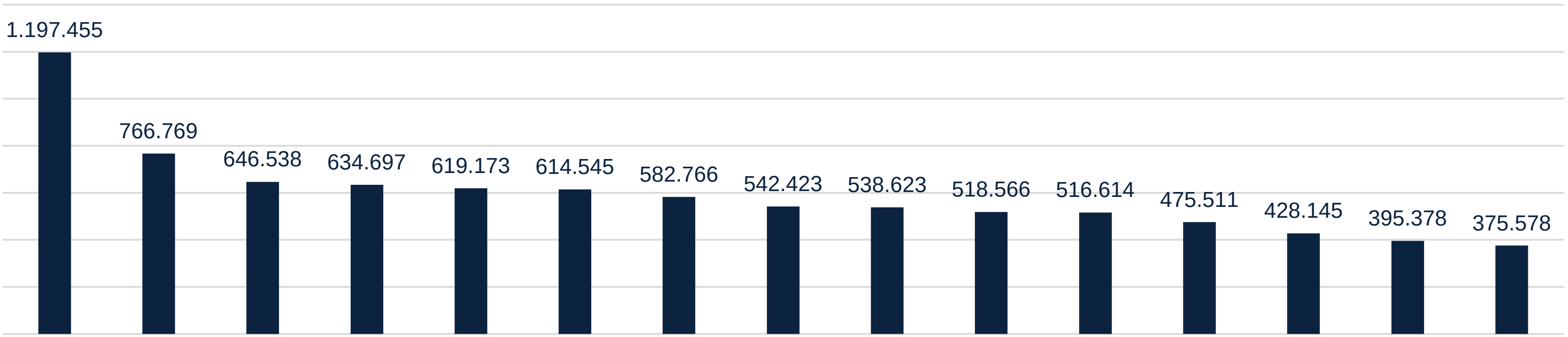
- Up to December 2022, **11.286.939 units** were registered in the European passenger cars market, with a **decrease of -4,1%** compared to the same period of 2021. The gap vs 2021 is reducing thanks to the positive results of the last 5 months
- Only 10 out of 30 countries registered an **increase** (Iceland confirmed the highest increase with +30,4%) and only Germany (+1,1%) considering the top 10 for registrations.
  20 countries recorded a **decrease:** considering the top 10 by volume highest decline for Italy (-9,7%)

Source: ACEA

(*) EU (26 Countries) + EFTA Countries (Iceland, Norway, Switzerland) + UK

Europe | *New car registrations by brand*

Top 15 – December 2022 YTD



Δ Vol. 22/21	-6,9%	+7,6%	-5,4%	-1,5%	-14,5%	+2,9%	-14,1%	+7,9%	-8,5%	+0,5%	-0,3%	+15,8%	-12,0%	-16,6%	-15,7%
MS '22	**10,6%**	**6,8%**	**5,7%**	**5,6%**	**5,5%**	**5,4%**	**5,2%**	**4,8%**	**4,8%**	**4,6%**	**4,6%**	**4,2%**	**3,8%**	**3,5%**	**3,3%**
Δ MS 22/21	-2,87%	+12,27%	-1,27%	+2,74%	-10,82%	+7,35%	-10,43%	+12,57%	-4,58%	+4,85%	+3,96%	+20,77%	-8,17%	-13,00%	-12,06%

Source: ACEA

(*) Opel includes Vauxhall New Car Registrations

01. Europe

02. Italy

- Market overview
- Market highlights
- New car registrations by brand
- New car registrations by group
- New car registrations by fuel type
- New car registrations by segment

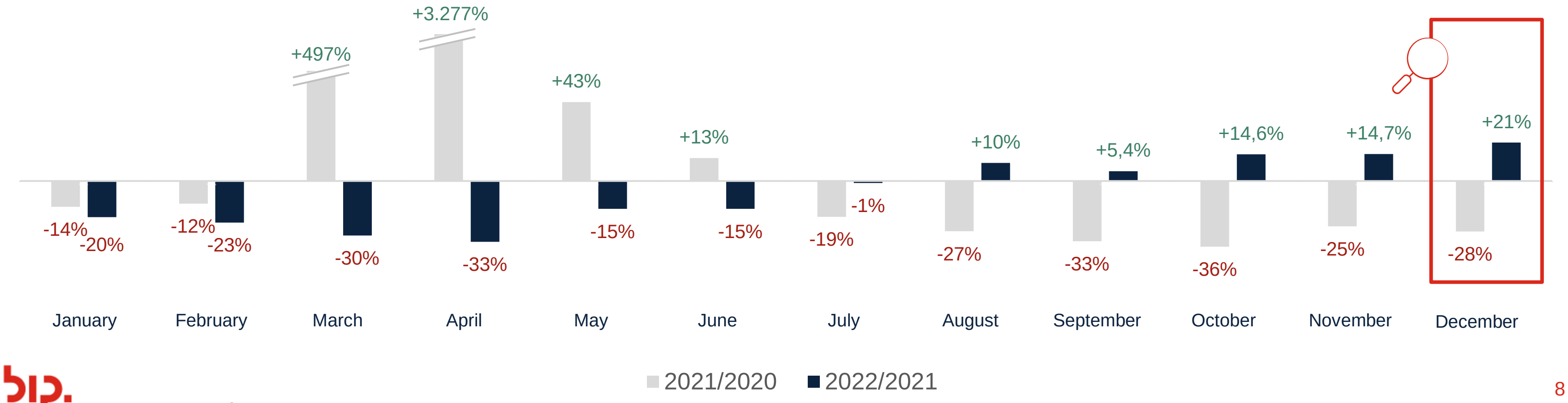
03. New car models launches in Italy

04. News on key industry trends

Italian Market – Variation of new car registrations 2022 vs 2021

December 2022 Highlights

December 2022 is the 5th consecutive positive month, with a **strong increase** (**+21,0%**) compared to the December 2021 registrations.
The end of this year confirms the **consolidation of the industry recovery**, thanks to the mitigation of production difficulties and at the Italian level, thanks to the government incentives and their boost especially on **fleet** registrations.
However, the **year** ended **negatively**, considering the total volumes for the whole 2022 compared to 2021 (-9,7%), recording a -31,3% compared to the year before Covid (2019). Overall, **2022 thus recorded lower volumes than 2021**, especially in relation to the performance in the first half of the year, the period most impacted by **microchips shortage** and the **Ukraine war**.
Analyzing **2022 full year results**, the **decrease** was **widespread geographically in Italy; LTR** is the only distribution channel with a **positive trend**; regarding the fuel type the **LPG** and **EV grew** while all the others declined.
Regarding the beginning of **2023**, the refinancing of the **incentives** (from 10th January) is **expected to continue to sustain the market**.



Source: UNRAE

Italy | *Market Overview*

Italian Market – December 2022 vs December 2021

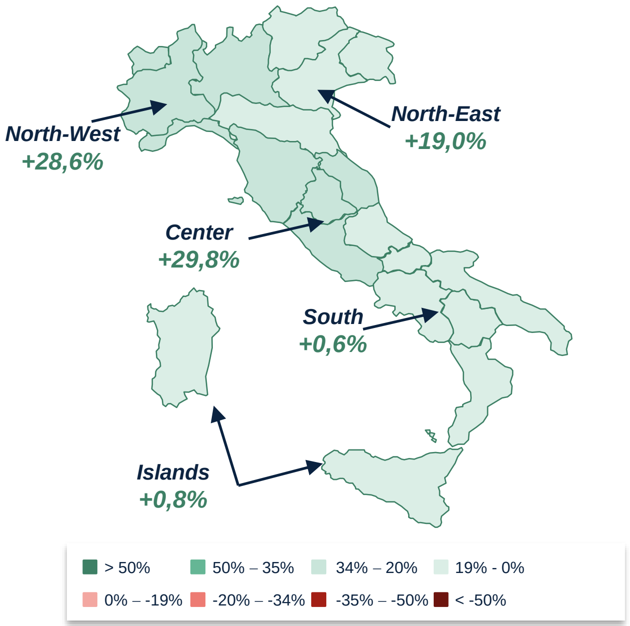
Italy New Car Registrations

2021	86.717
2022	104.915

21,0%

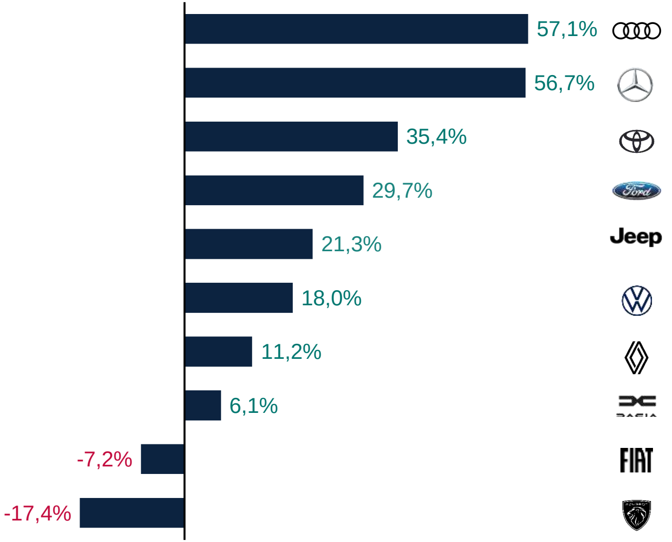
Δ% Volume 22/21 of New Car Registrations

Δ% December 2022/ December 2021



Growth of Top 10 Brands by Volumes

Δ% December 2022/ December 2021



Highlights

- In **December 2022**, the Italian market showed again a positive sign with an increase of +21,0% compared to December 2021
- **The highest growth** for **Audi** (+57,1%), **Mercedes** (+56,7%) and **Toyota** (+35,4%)
- Considering the top 10 brands by volume, only 2 out of 10 recorded a **drop**, **Fiat** (-7,2%) followed by **Peugeot** (-17,4%).
- In December, in line with previous months, the **growth** was recorded **mainly in central-northern Italy**, particularly in the Center.
- **Islands** also showed a growth, reversing the negative result of November.

Source: UNRAE

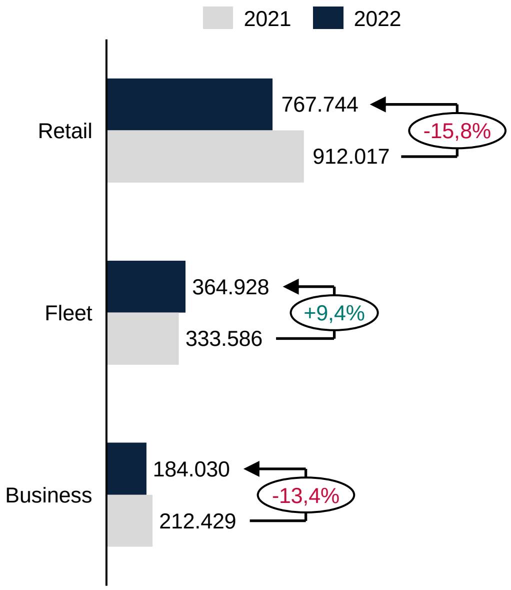
Italy | *Market Overview*

Italian Market – December 2022 YTD vs December 2021 YTD

Italy New Car Registrations (YTD)			
	2021	1.458.032	-9,7%
	2022	1.316.702	

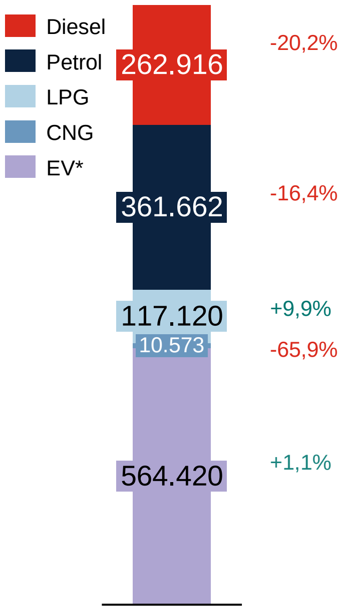
Analysis by "Customer Segment"

Registration YTD '22/'21



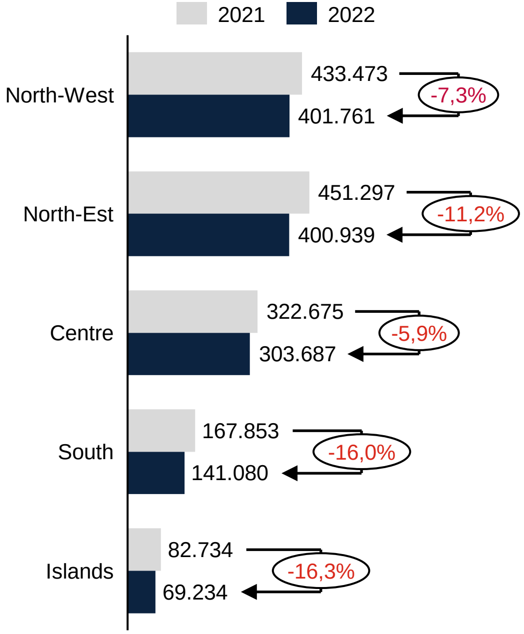
Analysis by "Fuel Type"

Registration YTD '22



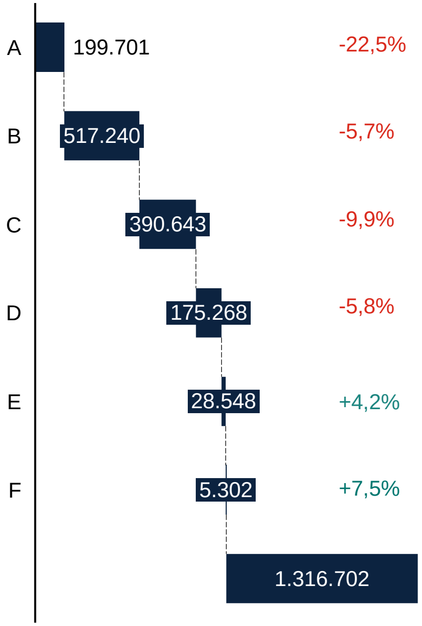
Analysis by "Geographical Area"

Registration YTD '22/'21



Analysis by "Car Segment"

Registration YTD '22/'21



Source: UNRAE

(*) EV: Electric Vehicle (Hybrid and Electric); CNG: Compressed Natural Gas (Methane and Ethanol)

Italy | *Market Highlights*

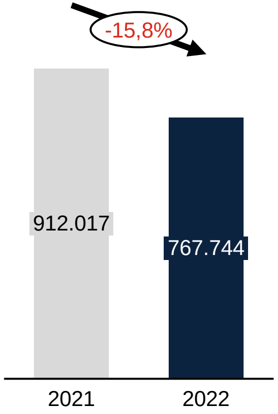
Italian Market – Distribution channels – December 2022 YTD vs December 2021 YTD

Italy New Car Registrations (YTD)			
2021	1.458.032	-9,7%
2022	1.316.702	

Retail (Private Customers)

MS: 58,3%

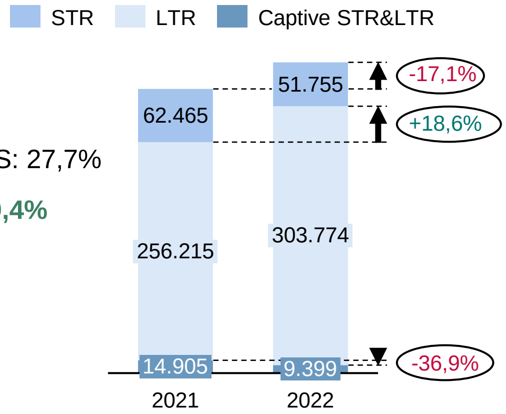
-15,8%



Fleet (LTR, STR and Captive LTR&STR*)

MS: 27,7%

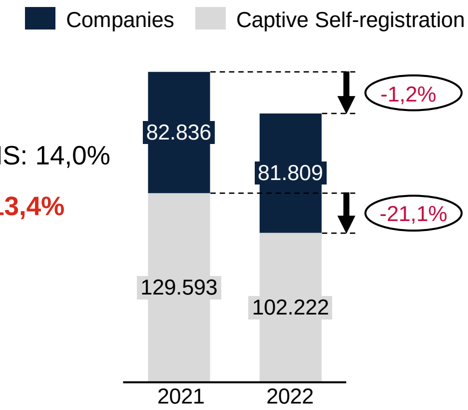
+9,4%



Business (Company registrations**)

MS: 14,0%

-13,4%



- Compared to **December 2021 YTD**, in **2022**, the **Retail** segment confirmed the decrease of 2022 with -15,8% (-144.273 units sold lost) and a further decrease in its YTD Market Share with respect to December 2021 (58,3% in December 2022 vs. 62,6% in December 2021, -4,3 p.p.)

- **Captive STR&LTR** (-36,9%) and **STR** (-17,1%) decreased in **December 2022 vs. 2021 YTD,** while **LTR** (+18,6%) registered a slight increase.
  The **Market share** of **Captive STR&LTR** (0,7% in December 2022 YTD vs 1,0% in December 2021 YTD) and **SRT** (3,9% in 2022 vs 4,3% in 2021) also decreased, while **LTR** market share increased from 17,6% in December 2021 YTD to 23,1% in December 2022 YTD

- The decrease of the **Business segment** registrations in **December 2022** vs. **December 2021 YTD** was related **both** to the reduction of **Captive self-registrations** (-21,1% or 27.372 units less sold) and **Companies registrations** (-1,2% or 1.027 units less sold)

Market Share YTD increase / decrease December 2022 / December 2021 (YTD)

∆% Volume December 2022 / December 2021 (YTD)

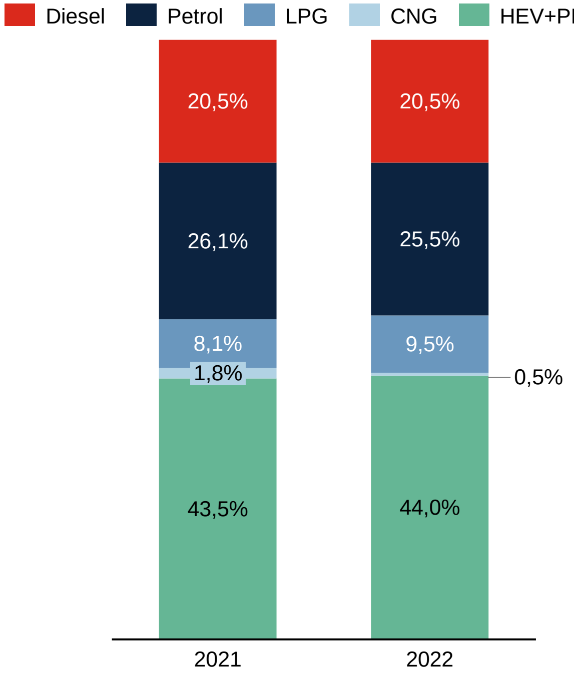
Source: UNRAE

(*) Self-registrations related to LTR&STR use made by Dealers and OEMs; (**) Including Dealers and OEMs self-registrations not related to LTR & STR

Italy | *Market Highlights*

Italian Market – December 2022 vs December 2021

"Fuel Type" mix evolution (Market Share)



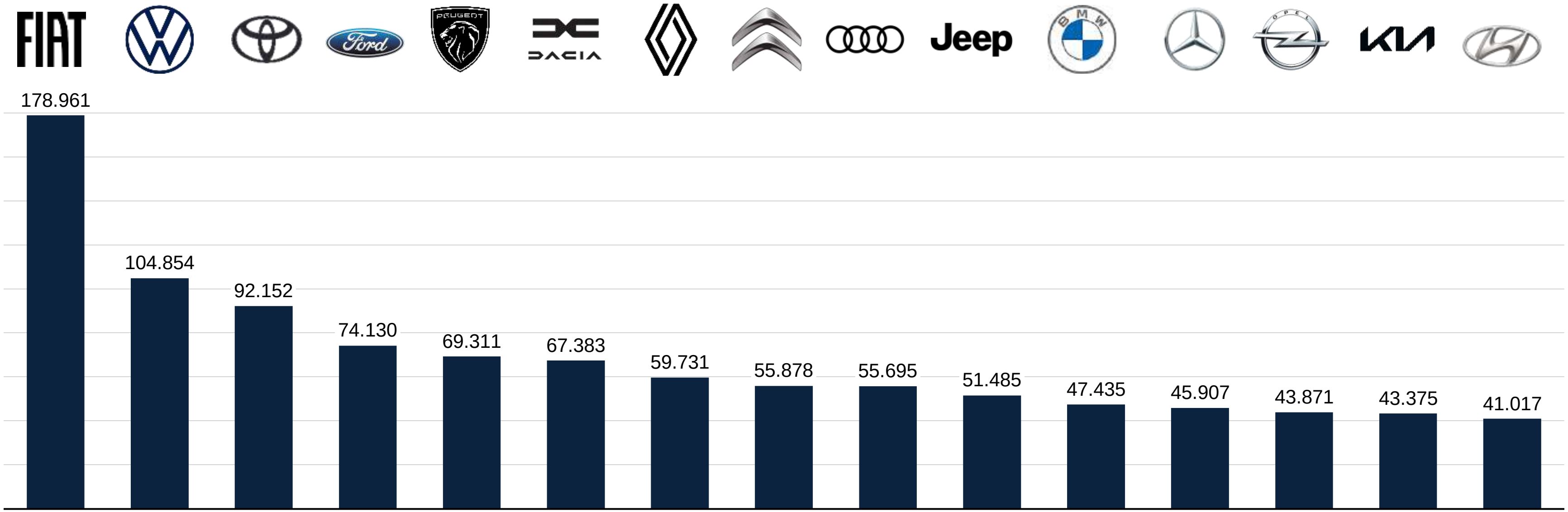
	HEV	PHEV	BEV
MS December '21	30,1%	6,4%	7,0%
MS December '22	34,6%	5,1%	4,3%
MS Delta December '22 vs. '21	+4,5 p.p.	-1,3 p.p.	-2,7 p.p.

- **The Market share of EVs continued to grow as in the past month**, although the shift from Diesel and Petrol to EVs is slower than in previous years.
- In December 2022, compared to 2021, **Petrol** registered a loss in market share (-0,6 p.p.), while Diesel showed no change
- **EVs increased** their market share from 43,5% up to 44,0%; however, the EV trend is mainly driven by **mild hybrid vehicles** (HEVs), while PHEVs and BEVs decreased their Market Share, 1,3 p.p. and 2,7 p.p. respectively

Source: UNRAE

Italy | *New car registrations by brand*

New car registrations by brand – December 2022 YTD (1/3)

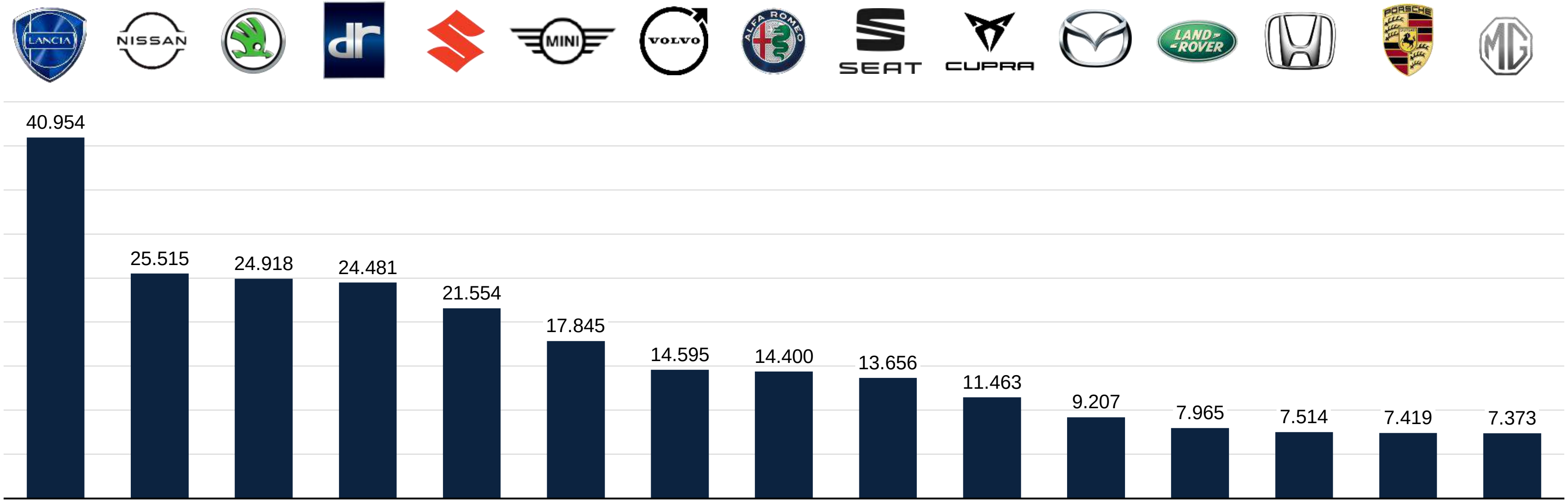


Δ Vol. 22/21	-19,95%	-16,85%	+8,60%	-8,47%	-17,75%	+9,21%	-19,88%	-13,86%	-0,04%	-19,09%	-7,49%	-3,01%	-18,24%	-1,18%	-8,86%
M.S. '22	**13,59%**	**7,96%**	**7,00%**	**5,63%**	**5,26%**	**5,12%**	**4,54%**	**4,24%**	**4,23%**	**3,91%**	**3,60%**	**3,49%**	**3,33%**	**3,29%**	**3,12%**
Δ M.S. 22/21	-11,35%	-7,98%	+20,27%	+1,44%	-9,00%	+21,04%	-11,15%	-4,72%	+10,73%	-10,32%	+2,27%	+7,38%	-9,51%	+9,30%	+0,97%

Source: UNRAE

Italy | *New car registrations by brand*

New car registrations by brand – December 2022 YTD (2/3)

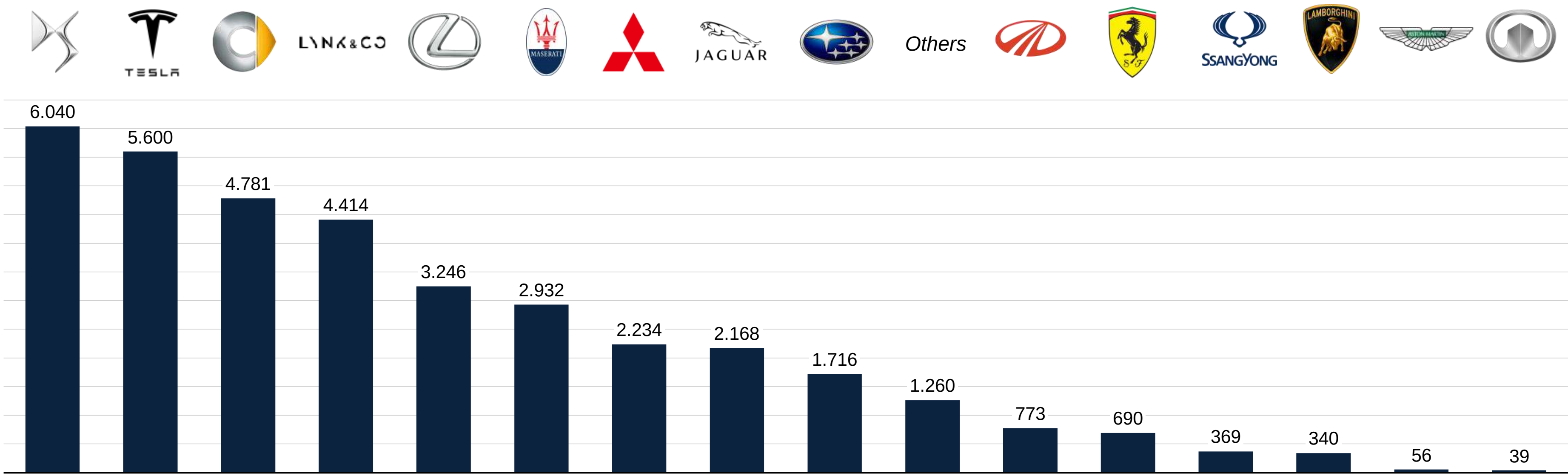


∆ Vol. 22/21	-6,24%	-6,23%	-0,19%	+192,76%	-45,18%	-2,57%	-22,14%	+27,37%	-35,78%	+81,26%	-25,73%	-32,26%	+17,37%	+18,80%	+697,94%
M.S. '22	**3,11%**	**1,94%**	**1,89%**	**1,86%**	**1,64%**	**1,36%**	**1,11%**	**1,09%**	**1,04%**	**0,87%**	**0,70%**	**0,60%**	**0,57%**	**0,56%**	**0,56%**
∆ M.S. 22/21	+3,67%	+3,74%	+10,53%	+226,32%	-39,26%	+7,94%	-13,95%	+39,74%	-28,77%	+102,33%	-17,65%	-25,93%	+29,55%	+30,23%	+833,33%

Source: UNRAE

Italy | *New car registrations by brand*

New car registrations by brand – December 2022 YTD (3/3)



Δ Vol. 22/21	+25,52%	-7,36%	-30,50%	+310,22%	-30,92%	+78,02%	-43,13%	-46,04%	-28,62%	+185,70%	-19,73%	+18,97%	-54,83%	+13,71%	+21,74%	-94,79%
M.S. '22	**0,46%**	**0,43%**	**0,36%**	**0,34%**	**0,25%**	**0,22%**	**0,17%**	**0,16%**	**0,13%**	**0,10%**	**0,06%**	**0,05%**	**0,03%**	**0,03%**	**0,00%**	**0,00%**
Δ M.S. 22/21	+39,39%	+4,88%	-23,40%	+385,71%	-21,88%	+100,00%	-37,04%	-42,86%	-18,75%	+233,33%	-14,29%	+25,00%	-50,00%	+50,00%	n.a.	-100,00%

Source: UNRAE

Italy | *New car registrations by group*

New car registrations by group – Top 15 – December 2022 YTD

	Group	Brand	Volume	∆% Volume '22 vs '21	Market Share (%)
1	Stellantis		463.832	-15,9%	35,2%
2	Volkswagen		210.926	-10,1%	16,0%
3	Renault		127.114	-6,7%	9,7%
4	Toyota		95.398	6,5%	7,3%
5	Ford		74.130	-8,5%	5,6%
6	BMW		65.280	-6,2%	5,0%
7	Mercedes-Benz		50.688	-6,5%	3,9%
8	Kia		43.375	-1,2%	3,3%
9	Hyundai		41.017	-8,9%	3,1%
10	Nissan		25.515	-6,2%	1,9%
11	DR Motor		24.481	192,8%	1,9%
12	Suzuki		21.554	-45,2%	1,6%
13	Volvo		14.595	-22,1%	1,1%
14	Jaguar – L.R.		10.133	-35,8%	0,8%
15	Mazda		9.207	-25,7%	0,7%

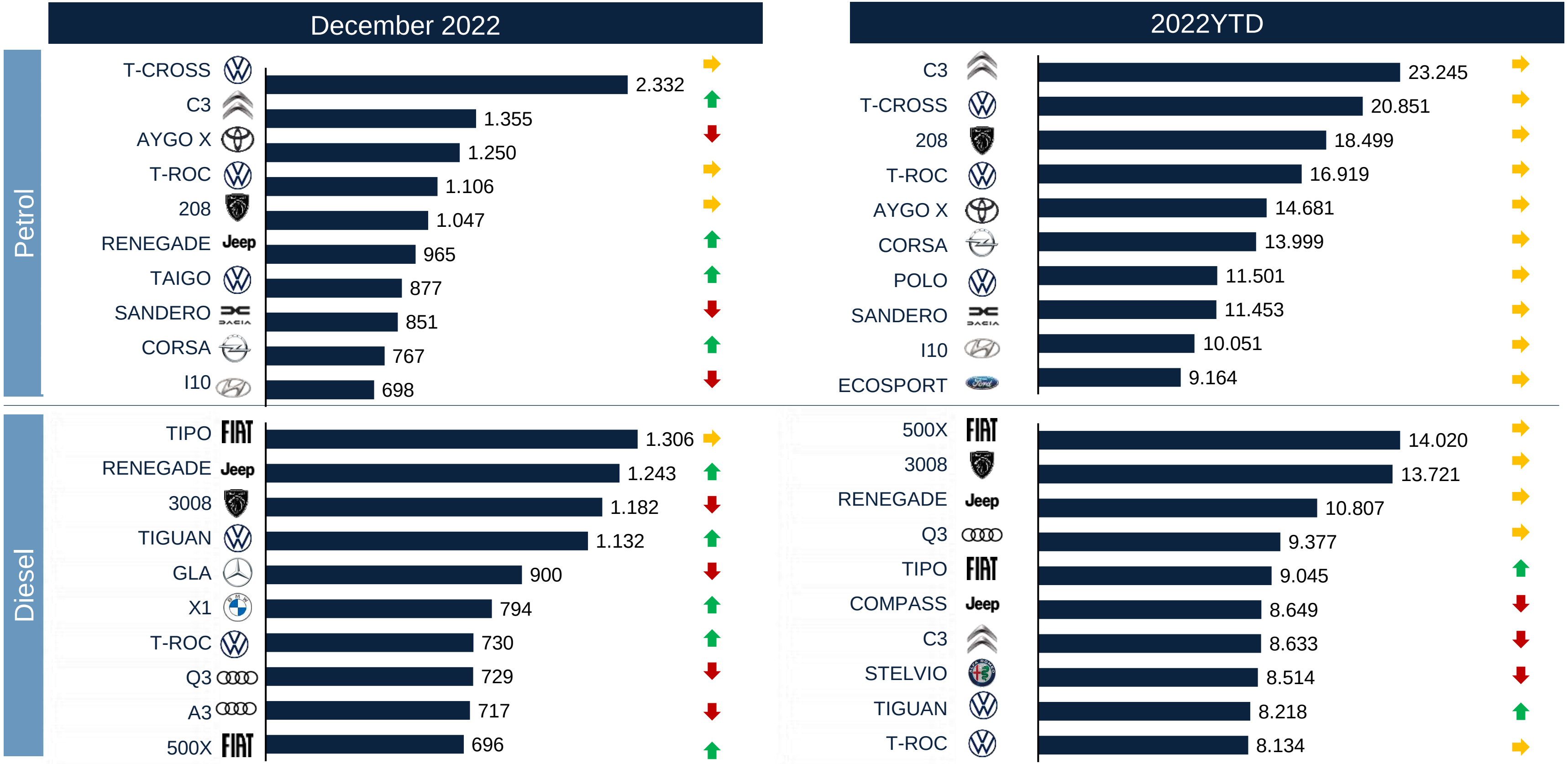
Top 5: 73,8%

Top 10: 91,0%

Source: UNRAE

Italy | *New car registrations by fuel type*

New car registrations by fuel type – Top 10 – Petrol and Diesel



Source: UNRAE

Ranking variation compared to previous period

Italy | *New car registrations by fuel type*

New car registrations by fuel type – Top 10 – LPG and CNG

LPG

December 2022			2022YTD		
SANDERO	1.628	→	SANDERO	22.469	→
DR 4.0	1.365	↑	DUSTER	16.729	→
DUSTER	1.355	↓	CAPTUR	11.617	→
CAPTUR	1.010	↑	DR 4.0	11.376	→
CLIO	999	↑	PANDA	10.089	→
PANDA	571	↓	CLIO	5.964	↑
JOGGER	506	↑	JOGGER	5.499	↓
YPSILON	354	↑	YPSILON	5.253	→
SPORTAGE	331	↑	DR 6.0	3.146	→
STONIC	289	↑	STONIC	3.079	→

CNG

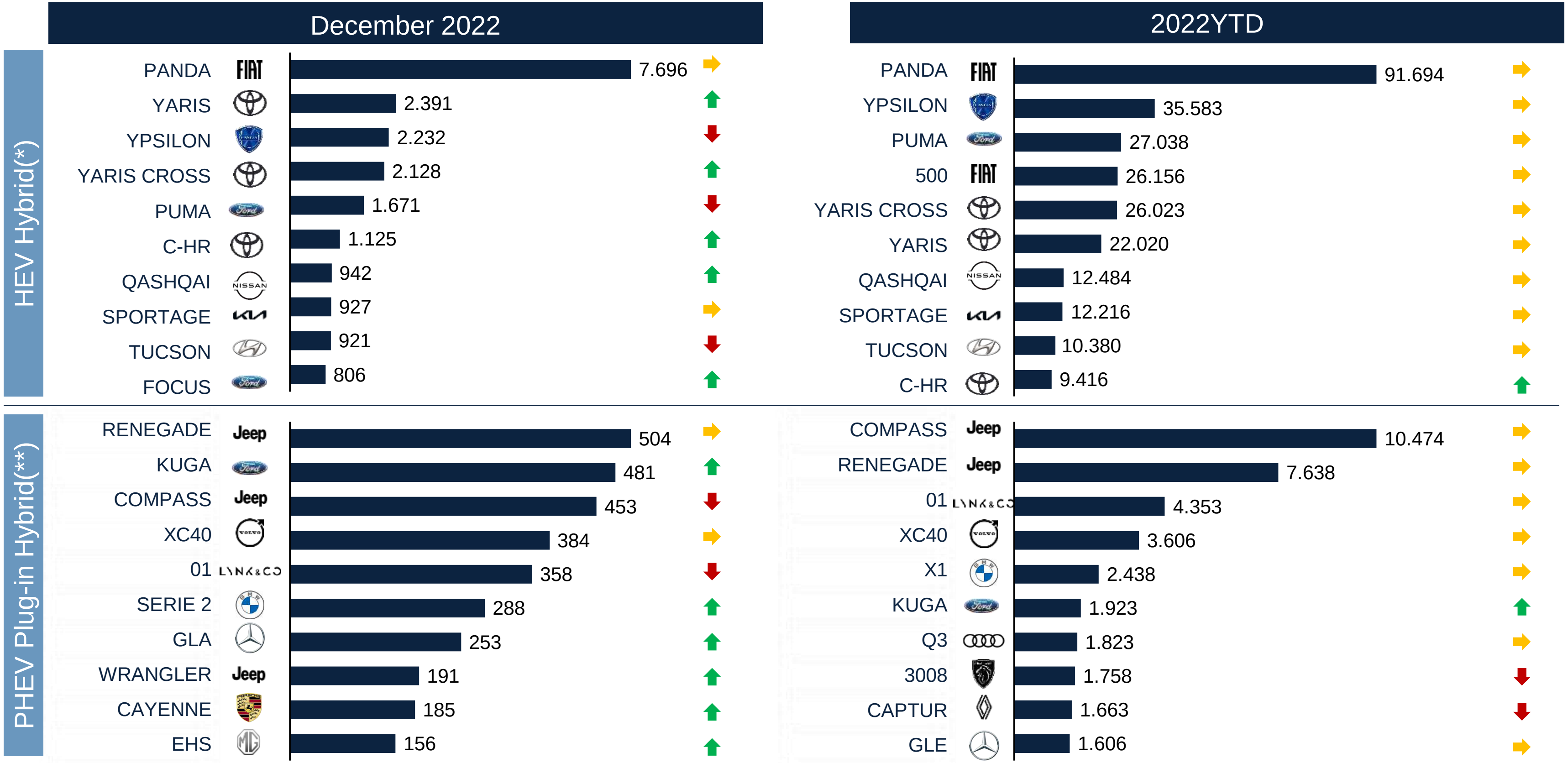
December 2022			2022YTD		
ARONA	174	↑	ARONA	1.883	↑
IBIZA	115	↑	KAMIQ	1.876	↓
LEON	60	→	POLO	1.351	→
POLO	47	→	GOLF	1.222	→
GOLF	40	↓	UP!	1.036	→
OCTAVIA	26	↑	IBIZA	725	→
A3	20	↓	OCTAVIA	581	→
UP!	15	↑	A3	574	→
KAMIQ	14	↓	PANDA	552	→
A4	8	↑	LEON	500	→

Source: UNRAE

↑ → ↓ Ranking variation compared to previous period

Italy | *New car registrations by fuel type*

New car registrations by fuel type – Top 10 – Hybrid (HEV and PHEV)



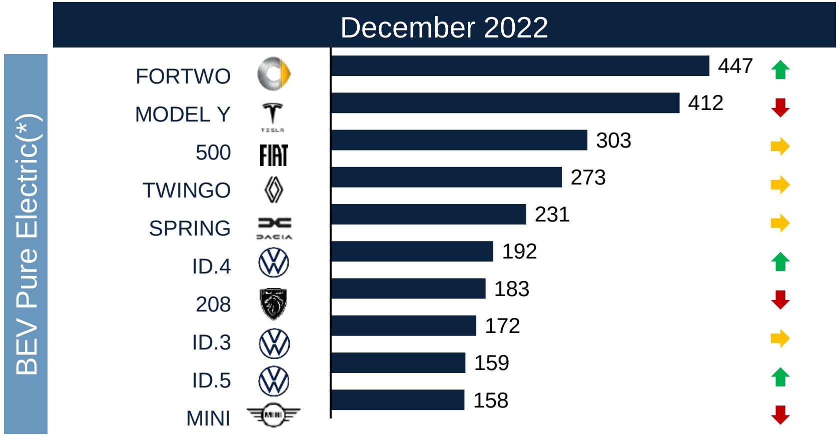
Source: UNRAE

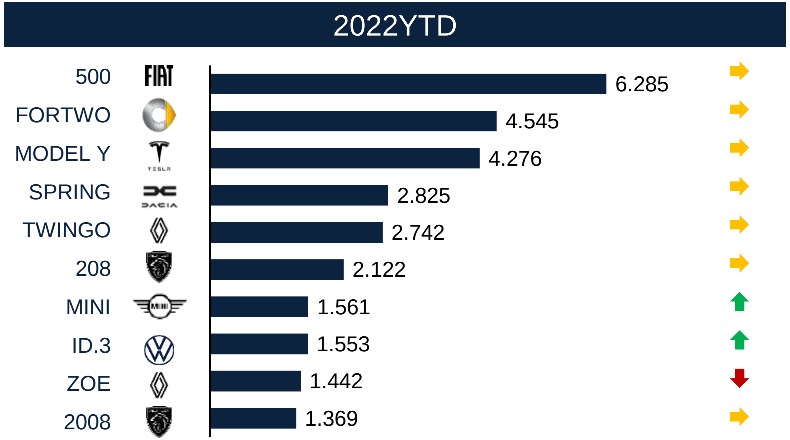
(*) Hybrid Electric Vehicle (HEV), (**) Plug-in Hybrid Electric Vehicle (PHEV)

Ranking variation compared to previous period

Italy | *New car registrations by fuel type*

New car registrations by fuel type – Top 10 – Pure Electric (BEV)





Source: UNRAE

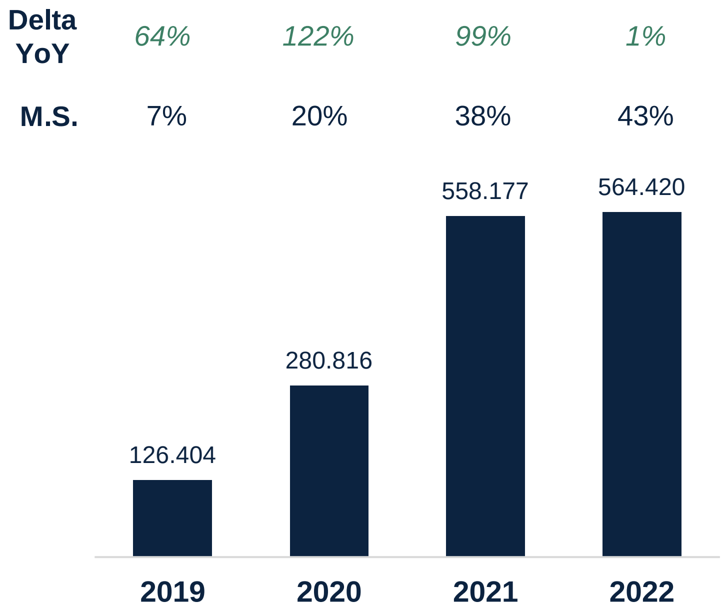
(*) Battery Electric Vehicle (BEV)

Ranking variation compared to previous period

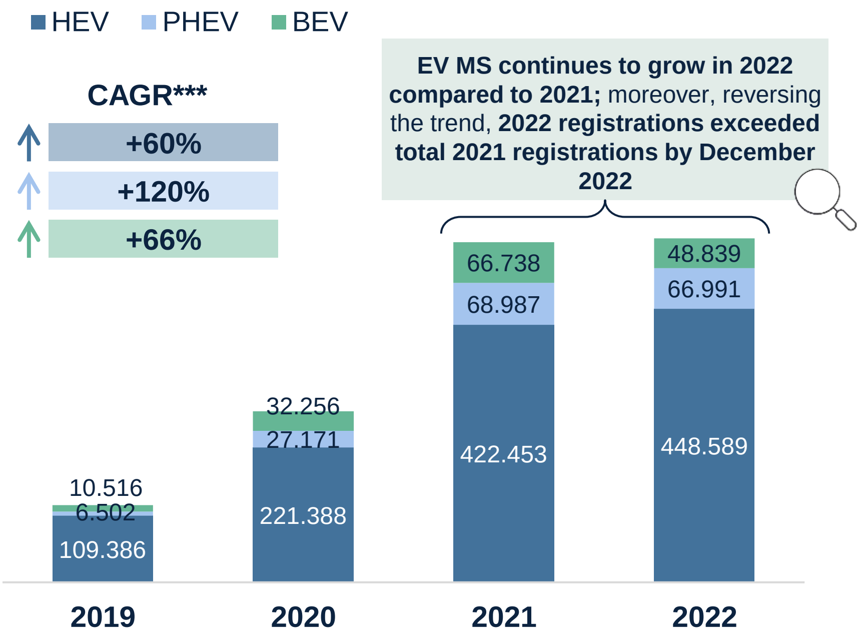
Italy | *New car registrations by fuel type*

New car registrations of Hybrid vs Pure Electric vehicles

EV Registrations Trend December ’22 YTD



HEV*, PHEV* and BEV** Vehicles Trend December ’22 YTD



Source: UNRAE

(*) HEV = Hybrid Electric Vehicles; PHEV = Plug-in Hybrid Electric Vehicles; (**) BEV = Pure Electric; (***) Related to the time frame 2019-2022

Italy | *New car registrations by segment*

Overview of new car registrations by segment

Segments Growth in Market Share*

A
«Utility/City»

-2,5 *p.p.*

B
«Supermini»

1,7 *p.p.*

C
«Medium»

0 *p.p.*

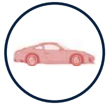
D
«Executive»

0,5 *p.p.*

E
«Luxury»

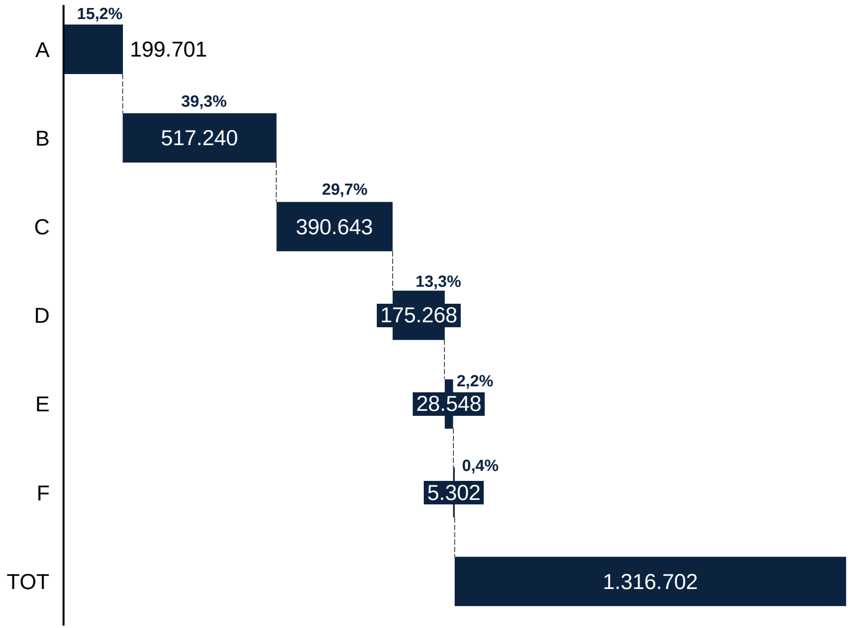
0,3 *p.p.*

F
«Ultra Luxury»



0,1 *p.p.*

Market Share and Volume**



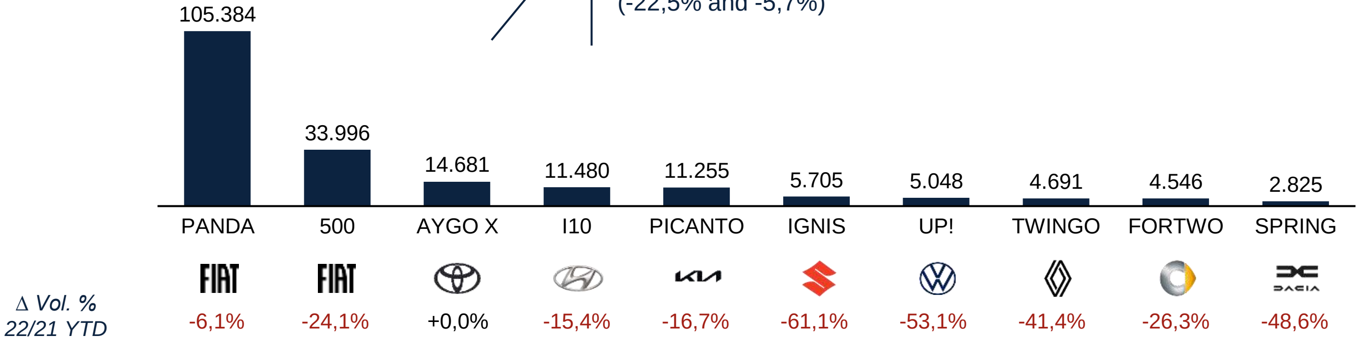
Source: UNRAE

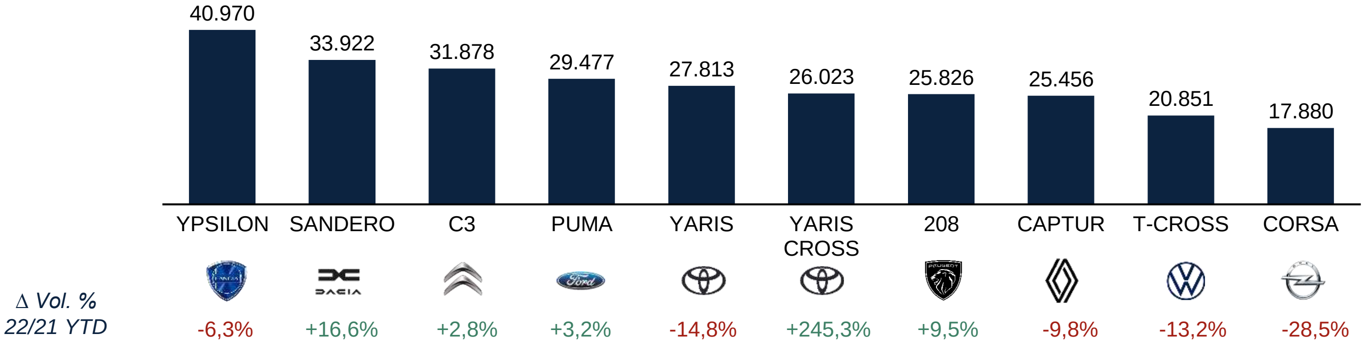
(*) Δ% December 2022 YTD / December 2021 YTD; (**) Market Share and Volume December 2022 YTD

Italy | *New car registrations by segment*

Segment A and Segment B – Top 10 – December ’22 YTD

In terms of **MS**, respectively vs December 2021 YTD, **Segment A** registered a decrease (-2,5 p.p.) while **Segment B** recorded an increase (+1,7 p.p.). Considering the volumes, in December 2022 YTD both **Segment A** and **Segment B** decreased vs. December 2021 (-22,5% and -5,7%)



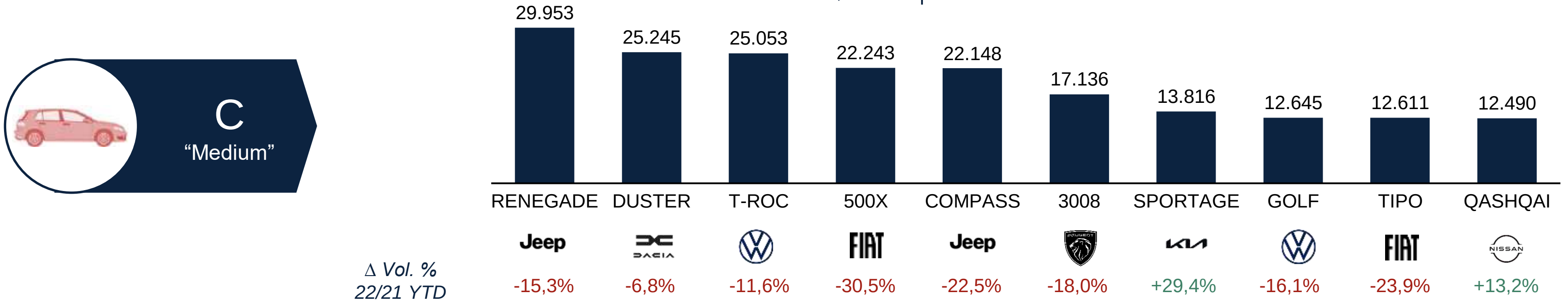


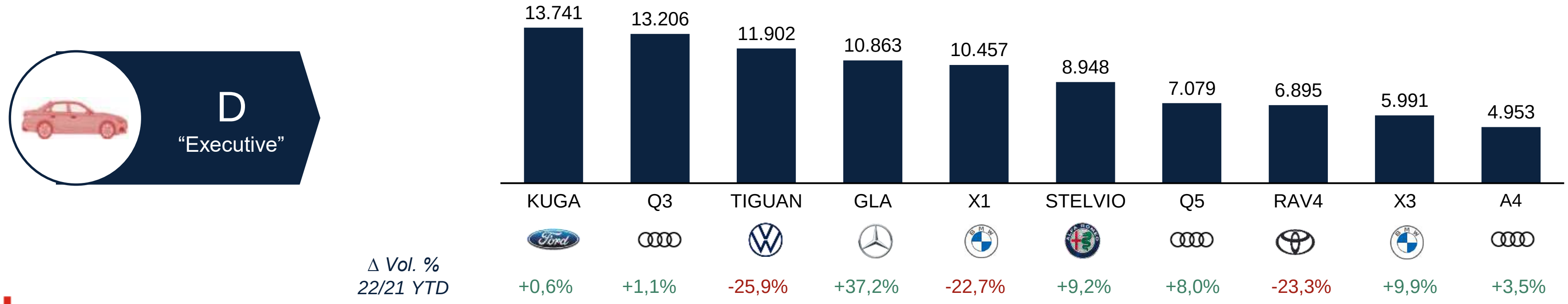
Source: UNRAE

Italy | *New car registrations by segment*

Segment C and Segment D – Top 10 –December ’22 YTD

In terms of **MS**, respectively vs December 2021 YTD, **Segment C** did not register any changes (+0,0 p.p.) while **Segment D** recorded an increase (+0,5 p.p.). Considering the volumes, in December 2022 YTD both **Segment C** and **Segment D** decreased vs. December 2021 (-9,9% and -5,8% respectively)





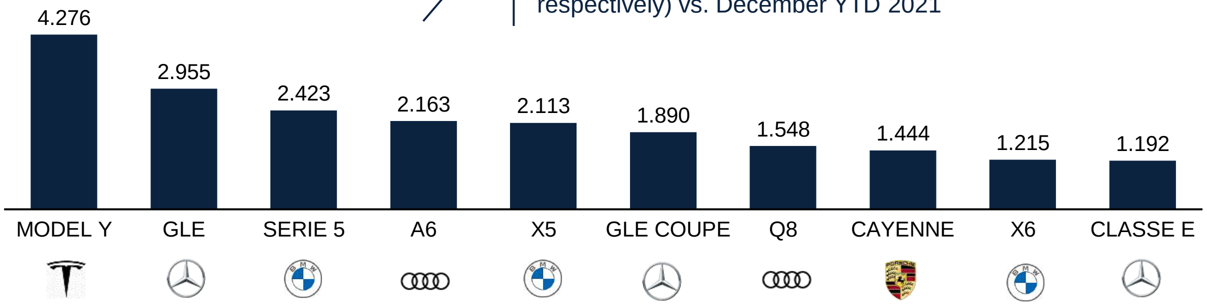
Source: UNRAE

Italy | *New car registrations by segment*

Segment E and Segment F – Top 10 – December ’22 YTD

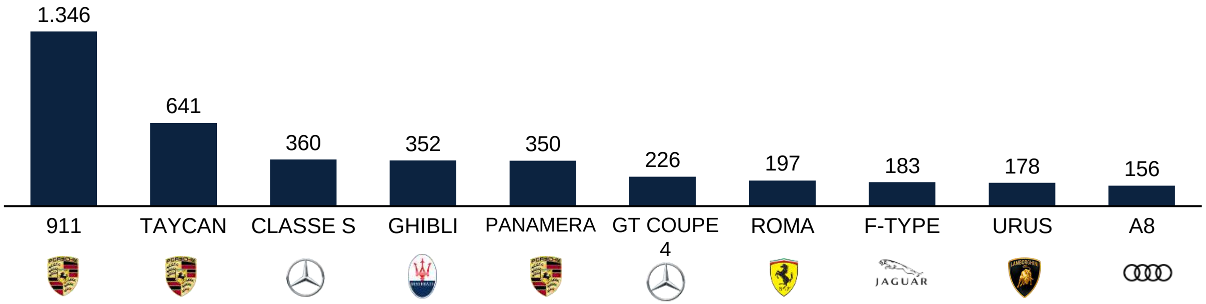
In terms of **MS**, respectively vs December 2021 YTD, **Segment E** and **Segment F** both registered an increase (+0,3 p.p. and +0,1 p.p.). In terms of volumes, in December 2022 YTD both **Segment E** and **Segment F** increased (+4,2% and +7,5% respectively) vs. December YTD 2021

E
“Luxury”



∆ *Vol. % 22/21 YTD*	MODEL Y	GLE	SERIE 5	A6	X5	GLE COUPE	Q8	CAYENNE	X6	CLASSE E
	+337,2%	-6,5%	+10,4%	-21,2%	+12,6%	-1,4%	+18,7%	-3,7%	-12,7%	-16,6%

F
“Ultra Luxury”



∆ *Vol. % 22/21 YTD*	911	TAYCAN	CLASSE S	GHIBLI	PANAMERA	GT COUPE 4	ROMA	F-TYPE	URUS	A8
	+10,5%	+3,9%	-9,8%	-36,9%	+4,8%	+193,5%	+19,4%	-2,1%	11,9%	+9,1%

Source: UNRAE

New Car Models Launches in Italy

New models launch per brand – Roadmap 2022-2023 (1/3)

		A		B	C			D			F		H	
						CUPRA	DACIA	dr			FIAT	Ford		
Sep				X1 ✓										
Oct				X7 ✓					DS7 Crossback ✓			Ranger ✓	Civic ✓	
Nov				iX1 ✓										
Dec														
Jan		DBX707 ✓	A3 Allstreet	M3 Touring						Purosangue				
Feb	Giulia		S4	XM	C4 X									
Mar	Stelvio		S5	X5	C5									Ioniq 6 ➡
Apr				M2			Jogger Ecosmart					Kuga		
May				Serie 5							595 E		Civic Type R	
Jun				Serie 7									Kona	
Jul				M3CS							B-Suv		CR-V	Santa Fe
Aug	Brennero													

✓ Launch Concluded
➡ Launch Postponed
⬅ Launch Anticipated

Commercial Launch of New Model
Facelift / Technical Update
(P) Premiere

Source: Quattroruote, Motor1

New Car Models Launches in Italy

New models launch per brand – Roadmap 2022-2023 (2/3)

	I	J		K	L				M				N	
		JAGUAR	Jeep	KIA			LAND ROVER					MINI		NISSAN
Sep											✓ AMG GT 63 S E			✓ X-Trail
Oct								✓ RZ			✓ GLC			
Nov														
Dec														
Jan		F-Type 75									EQS Suv			
Feb											AMG c 63			
Mar									Gran Turismo/ Folgore		GLE		ASX	
Apr											GLC Hybrid			
May			Avenger e								EQE Suv			
Jun									Gran Cabrio/ Folgore		GLC Coupè			
Jul				EV9	Urus Evo ➡					CX-80			Colt	
Aug					Aventador ➡				Grecale/ Folgore		Classe G			

✓ Launch Concluded
➡ Launch Postponed
⬅ Launch Anticipated

Commercial Launch of New Model
Facelift / Technical Update
(P) Premiere

Source: Quattroruote, Motor1

New Car Models Launches in Italy

New models launch per brand – Roadmap 2022-2023 (3/3)

	O	P		R	S						T		V	
					SEAT			SSANGYONG			TESLA			VOLVO
Sep						✓ Enyaq Coupè								
Oct												✓ Corolla Cross		
Nov									✓ ← Solterra				✓ Id Buzz	
Dec														
Jan		408		Austral			#1					BZ4x →		
Feb														
Mar	Astra GSe												Amarok	
Apr	Astra-E		Cayenne	5 E-tech Elettric								Corolla	Tiguan	
May								Korando E Motion →						
Jun		e-308											ID.3 GTX	
Jul		e-308 sv				Elroq				Swift			Touareg	
Aug			Macan EV	Gran Austral							Cybertruck →			

✓ Launch Concluded
→ Launch Postponed
← Launch Anticipated

Commercial Launch of New Model
Facelift / Technical Update
(P) Premiere

Source: Quattroruote, Motor1

News on key industry trends

5 key trends are expected to push the evolution of the automotive industry. For each one in the following slides there is a selection of main news published from 20/12/2022 to 20/01/2023

Sustainability
Increasing OEMs focus on the reduction or neutralization of environmental externalities along the automotive value chain

Digitalization
Towards a seamless online-offline customer journey with an increasing direct role of the OEM

Mobility Services
New emerging models (MaaS) of car usership to meet new customer mobility needs and behaviors are transforming OEMs' strategies

Electrification
Car parc evolution towards electric (full and hybrid) vehicles and creation of a new ecosystem based on EV needs

Connectivity
Connected cars are changing the way to interact with customers and opening new business streams related to data utilization

News on key industry trends

Digitalization

Stellantis creates data services business

The new unit, called Mobilisights, will license data to a wide range of customers including rival carmakers, drawing on Stellantis' connected vehicles, which are expected to total 34 million by 2030 (…)

https://europe.autonews.com/automakers/stellantis-creates-new-data-services-business

Geely & Alibaba to develop digital automotive solutions

Geely and Alibaba will further explore areas such as cloud computing, vehicle production and sales, digital plants, autonomous driving, intelligent cockpit, mobility services, and sustainable development (…)

https://telematicsnews.info/2023/01/16/geely-alibaba-to-develop-digital-automotive-solutions/

News on key industry trends

Electrification (1/2)

Mercedes-Benz launches branded HPC network

The German carmaker wants to build its own high-power charging network covering North America, Europe, China and other key markets. Overall, Mercedes-Benz targets installing more than 10,000 ultra-rapid chargers worldwide (…)

https://www.electrive.com/2023/01/06/mercedes-benz-launches-branded-hpc-network/

Stellantis signs binding agreement with Element 25 Limited for manganese sulphate supply for electric vehicle batteries

Stellantis N.V. and Element 25 Limited announced today the signing of a binding agreement for Element 25 to supply battery grade, high purity manganese sulphate monohydrate to Stellantis for use in electric vehicle (EV) battery packs (…)

https://www.automotiveworld.com/news-releases/stellantis-signs-binding-agreement-with-element-25-limited-for-manganese-sulphate-supply-for-electric-vehicle-batteries/

ZF develops range-saving 'Heat Belt' for EVs

The ZF 'Heat Belt' for electric vehicles allows drivers to reduce the energy used to heat the car, especially in combination with other contact heaters such as a seat heater, explains ZF(…)

https://www.electrive.com/2023/01/05/zf-develops-range-saving-seat-belt-for-evs-called-heat-belt/

bip.

News on key industry trends

Electrification (2/2)

VinFast and NXP collaborate on developing the next generation of smart electric vehicles	VinFast seeks to leverage NXP's processors, semiconductors and sensors. Both will engage in the early development phases of new VinFast automotive projects, leveraging NXP's rich portfolio of system solutions for innovative applications.(…)

https://www.automotiveworld.com/news-releases/vinfast-and-nxp-collaborate-on-developing-the-next-generation-of-smart-electric-vehicles/

Audi to upgrade all factories for EV production by 2029	By the end of this decade, the brand will manufacture electrically powered models at all production sites worldwide. The background to this is Audi's announcement that from 2026 it will only be launching new battery-electric models on the market (…)

https://www.electrive.com/2022/12/20/audi-to-upgrade-all-factories-for-ev-production-by-2029/

Shell acquired the US EV charging manufacturer Volta	Shell has officially announced the acquisition of Volta, a US manufacturer of mega-screen charging stations, known for having launched a business model based on free recharging at shopping centers: an energy supply that, in practice, is 'reimbursed' by (…)

https://e-ricarica.it/shell-ha-acquisito-il-produttore-americano-di-colonnine-volta/

News on key industry trends

Connectivity

MIMO and Indy Autonomous Challenge at CES for autonomous driving	A two-year agreement between MIMO and Indy Autonomous Challenge presented during the first day of the Consumer Electronics Show (CES) in Las Vegas. The collaboration that will lead to the futuristic challenge between universities around the world (…)

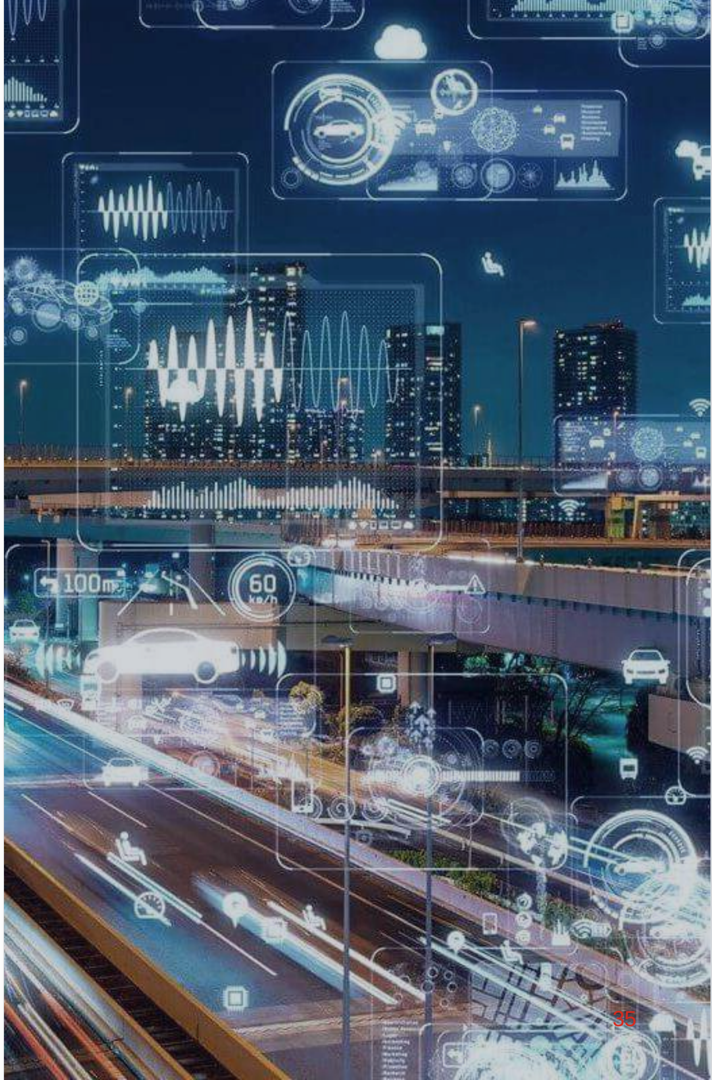
https://www.fleetmagazine.com/mimo-indy-autonomous-challenge-ces-las-vegas-guida-autonoma/

NTT DATA, Valeo and Embotech form consortium to provide automated parking solutions	Together, the three companies have built a consortium, VEN.AI, that aims to be the go-to solution provider for production ready parking automation with global roll out capabilities (…)

https://www.automotiveworld.com/news-releases/ntt-data-valeo-and-embotech-form-consortium-to-provide-automated-parking-solutions/

Stellantis completes acquisition of aiMotive to accelerate autonomous driving journey	Stellantis N.V. today announced that it has finalized the acquisition of aiMotive, a leading developer of advanced artificial intelligence and autonomous driving software. aiMotive will operate as a subsidiary of Stellantis (…)

https://www.automotiveworld.com/news-releases/stellantis-completes-acquisition-of-aimotive-to-accelerate-autonomous-driving-journey/



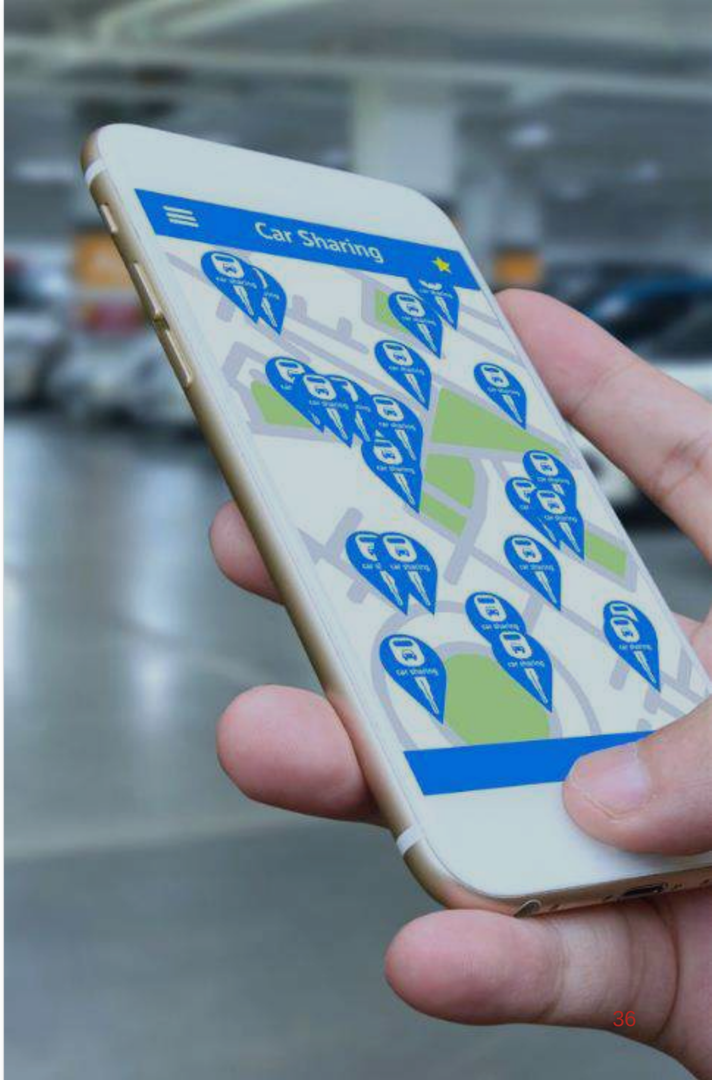
bip.

News on key industry trends

Mobility Services

Mobilize tech company Karhoo partners with Renfe to enable taxi booking directly from dōcō application	By using dōcō, travellers will be able to plan, book and pay for various modes of transportation including trains, cabs, scooters, and electric motorcycles, all in one application. The partnership with Karhoo gives dōcō users access to more than 22.000 taxis (…)

https://www.automotiveworld.com/news-releases/mobilize-tech-company-karhoo-partners-with-renfe-to-enable-taxi-booking-directly-from-doco-application/



News on key industry trends

Sustainability

Daimler Truck further expands CO_2-neutral energy supply at production sites through photovoltaics

The company aims to achieve CO_2-neutral production in all plants and business units worldwide by 2039. The European sites will already be CO_2-neutral from this year onwards – partly by sourcing electricity from solar, wind and hydroelectric power.(…)

https://www.automotiveworld.com/news-releases/daimler-truck-further-expands-co%e2%82%82-neutral-energy-supply-at-production-sites-through-photovoltaics/

Hyundai experiments with Vehicle to load technology by powering a farm with no electricity grid

Hyundai demonstrated how this e-mobility technology can be extremely useful in regions with no electricity grid. In fact, the car managed to power the arctic farm in Tromsø for 3 days, also allowing to cook a dinner (…)

https://e-ricarica.it/hyundai-sperimenta-la-tecnologia-vehicle-to-load-alimentando-una-fattoria-sprovvista-di-rete-elettrica/

Thank you.

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