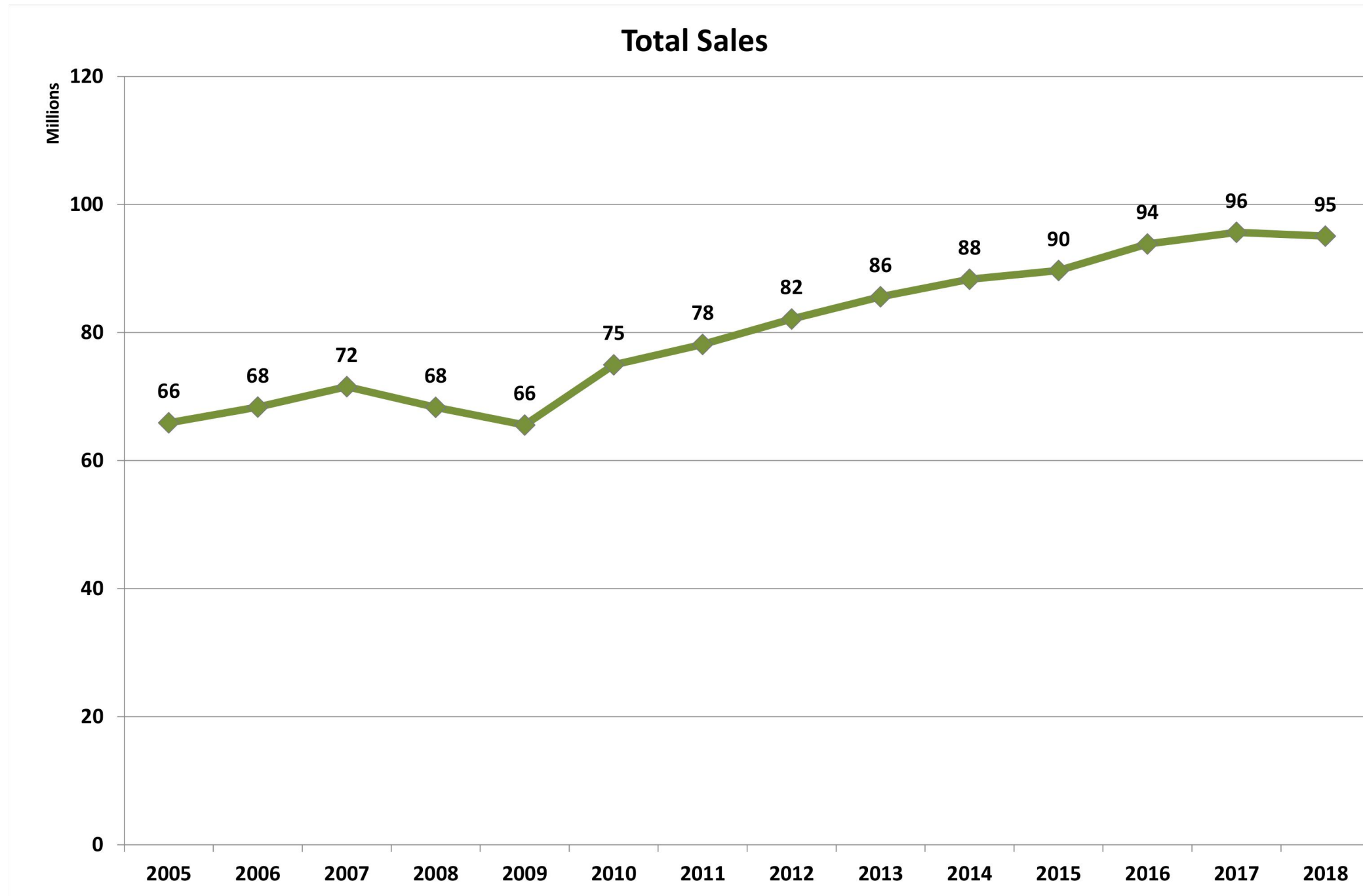


Optical Multi Gigabit Ethernet for Automotive

Market size estimation

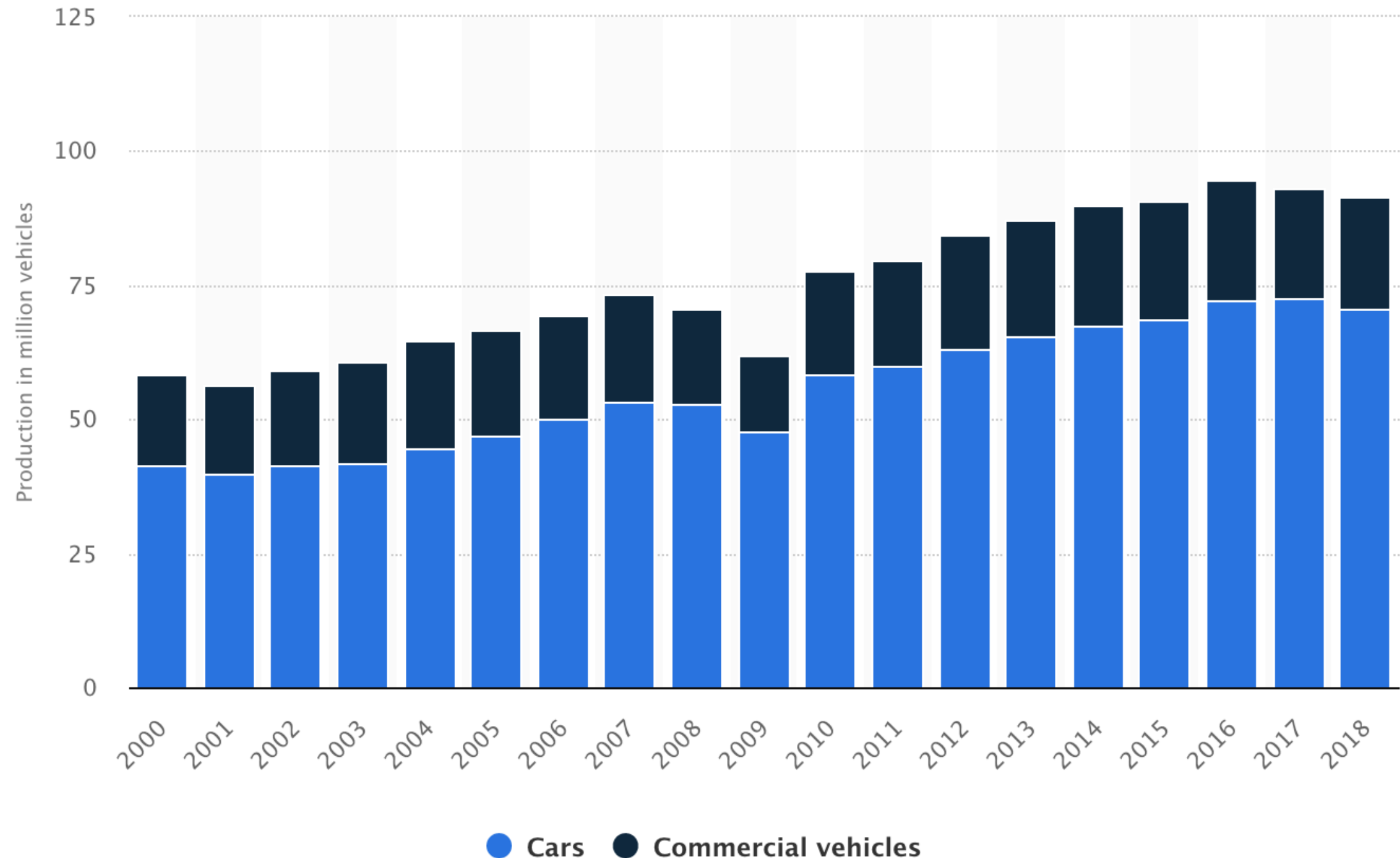
Automotive Market size

- Global sales in amount of cars is becoming stable



Automotive Market size

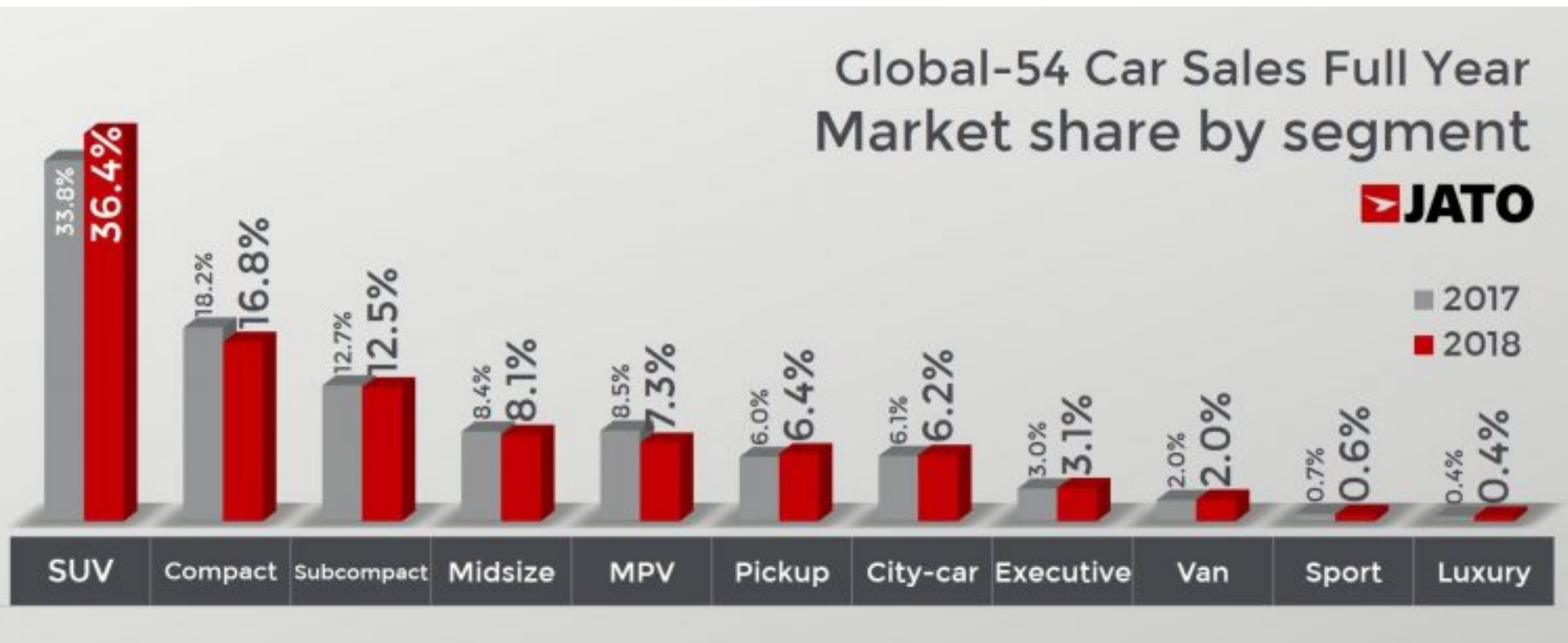
- Most of the market are regular cars



<https://www.statista.com/statistics/262747/worldwide-automobile-production-since-2000/>

Market Size by segment

- Penetration of each segment



<https://www.best-selling-cars.com/wp-content/uploads/2019/02/2018-Global-Car-Sales-by-Segment-768x305.jpg>







Market Size by segment

- In 000 units

	2017	2018	2017	2018
SUV	33,80 %	36,40 %	29213	31308
Compact	18,20 %	16,80 %	15730	14450
SubCompact	12,70 %	12,50 %	10977	10751
MidSize	8,40 %	8,10 %	7260	6967
MPV	8,50 %	7,30 %	7347	6279
Pickup	6,00 %	6,40 %	5186	5505
City-car	6,10 %	6,20 %	5272	5333
Executive	3,00 %	3,10 %	2593	2666
Van	2,00 %	2,00 %	1729	1720
Sport	0,70 %	0,60 %	605	516
Luxury	0,40 %	0,40 %	346	344

Market Segments

- 2016 segments in Europe

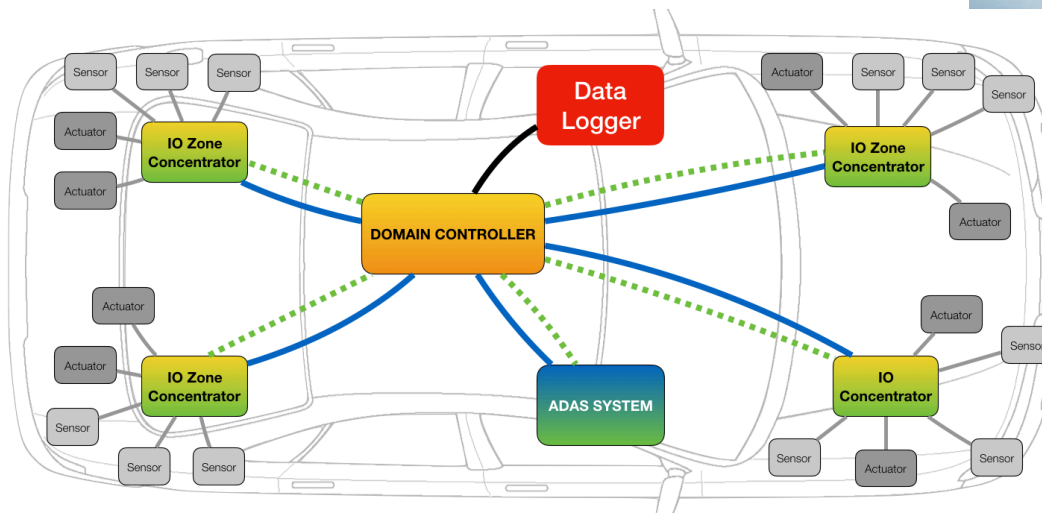
	TOP WINNER	2nd	3rd
SUV	 Hyundai Tucson	 Renault Kadjar	 Suzuki Vitara
Subcompact	 Skoda Fabia	 Peugeot 208	 Audi A1
Compact	 Opel/Vauxhall Astra	 Fiat Tipo	 Mini Clubman
MPV	 VW Touran	 Renault Espace	 Ford S-Max
City-car	 Fiat Panda	 Opel/Vauxhall Karl/Viva	 Suzuki Celerio
Midsize	 Skoda Superb	 Renault Talisman	 Jaguar XE
Large	 Volvo V70/XC70	 Audi A6	 Jaguar XF
Sport	 Ford Mustang	 Mazda MX-5	 Mercedes SLC
Luxury	 BMW 7-Series	 Jaguar XJ	 Bentley Flying Spur

Type of links by class

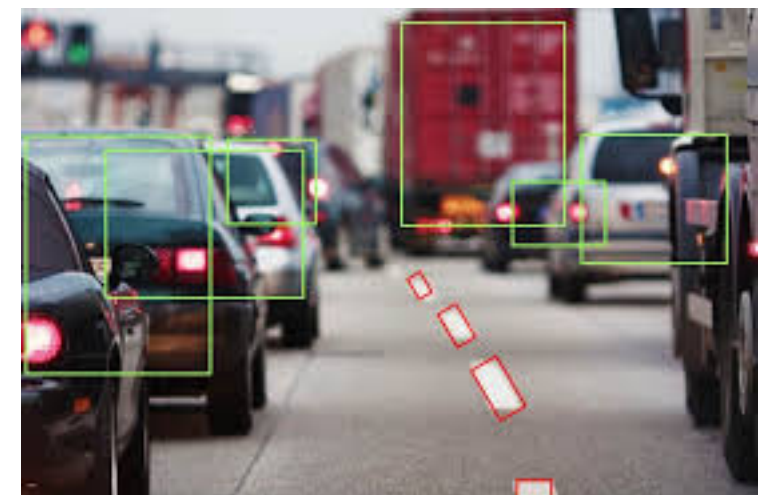
- Smart Antenna
 - One link per car



- Backbone
 - One to ten links per car



- Camera
 - One to eight links per car



- Display
 - One to four links per car



Number of links by Segment

- In 000 units

	2017	2018	2017	2018	Estimated penetration				Num of links			
					Smart Antenna	Backbone	Camera	Display	Smart Antenna	Backbone	Camera	Display
SUV	33,80 %	36,40 %	29213	31308	50 %	50 %	100 %	100 %	1	3	3	2
Compact	18,20 %	16,80 %	15730	14450	10 %	10 %	100 %	100 %	1	2	1	1
SubCompact	12,70 %	12,50 %	10977	10751			50 %	50 %	1	1	1	1
MidSize	8,40 %	8,10 %	7260	6967	10 %	10 %	100 %	100 %	1	1	1	1
MPV	8,50 %	7,30 %	7347	6279	10 %	10 %	100 %	100 %	1	1	1	1
Pickup	6,00 %	6,40 %	5186	5505	10 %	10 %	100 %	100 %	1	1	1	1
City-car	6,10 %	6,20 %	5272	5333			100 %	100 %	1	1	1	1
Executive	3,00 %	3,10 %	2593	2666	100 %	100 %	100 %	100 %	1	4	3	3
Van	2,00 %	2,00 %	1729	1720			50 %	50 %	1	1	1	1
Sport	0,70 %	0,60 %	605	516	100 %	100 %	100 %	100 %	1	8	3	2
Luxury	0,40 %	0,40 %	346	344	100 %	100 %	100 %	100 %	1	10	8	4

Total amount of ports

Smart Antenna	Backbone	Camera	Display
45.000	139.921	301.981	235.581

- In 000 units

- Total estimated annual ports: 722.484.000 units