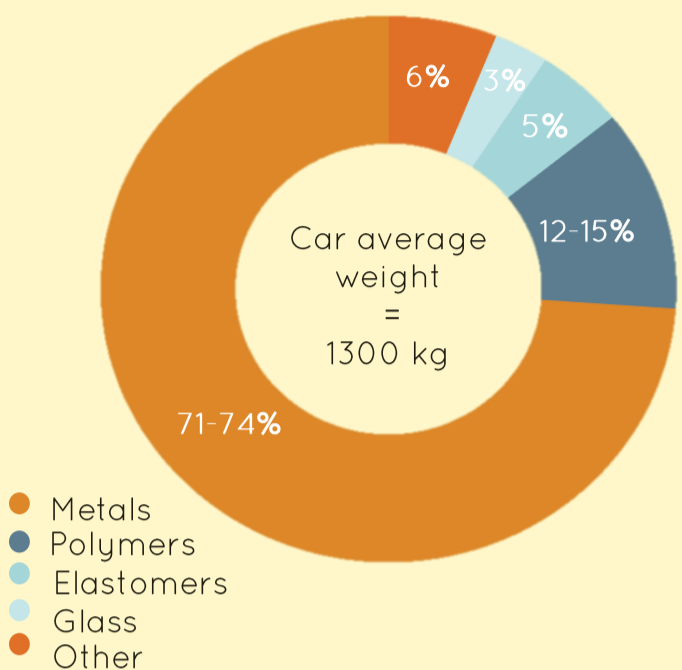
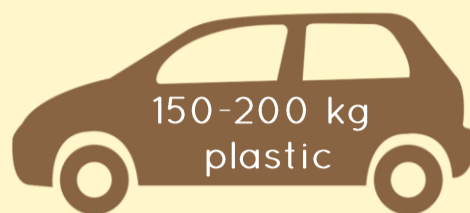


Plastic is the second material in vehicles after metals¹



Plastics represent 12-17% of car weight ...



... and their use is increasing yearly¹

Plastics contribute to **car mass reduction** = lower fuel consumption and **lower emissions**²

A car contains about 39 different types of plastics and polymers³

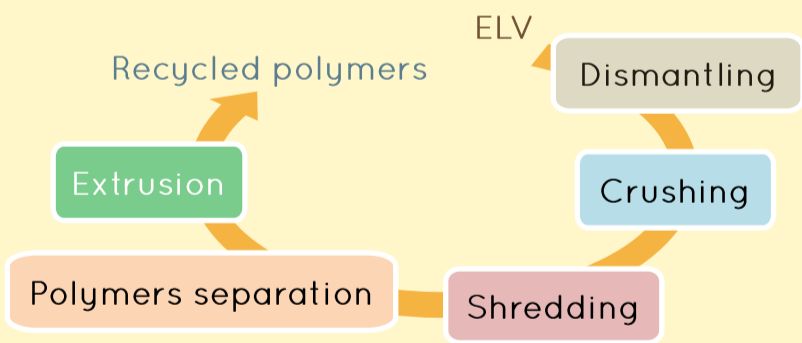


~6.6 million cars reached the end of life in 2017⁴

= **>1.000.0000 tonnes⁵** of plastic waste to be managed

The potential for recycling plastics from in the automotive sector is there, but it has not yet been fully exploited

Recycling process



Recycled plastics are currently used in modern EU cars
Publicly available examples:

≈40% of recycled thermoplastics used in CHRYSLER's^{3,6}

20% recycled plastics used in a flagship RENAULT model⁷

25% of recycled plastics targeted by VOLVO from 2025⁸

European Commission ambitious target:



10 million tonnes of recycled plastics used to make products in the EU by 2025

EuRIC's target for post-consumer recycled content thermoplastics in new cars:

Scale up plastics recycling from cars by securing long-term demand through binding recycled content for thermoplastics used in new cars.

	%	%	%
20	25	20	35

¹ Merkisz-Guranowska, A. (2018). Waste recovery of end-of-life vehicles. IOP Conference Series: Materials Science and Engineering. 421. ² Weisbaum, H. (2006) What is the life expectancy of my car? NBC news. ³ The Plastics Industry Trade Association (2016). Automotive Recycling – Devalued is now Revalued. Plastics Market Watch – A series on economic-demographic-consumer & technology trends in specific plastics in markets. ⁴ Eurostat (2017). Recovery and recycling rate for end-of-life vehicles. ⁵ European Commission (2019). End of life vehicles – Introduction. ⁶ FIAT (2013). Sustainability Report – Economic, Environmental and Social Responsibility. ⁷ Chamagne, X. (2018) Jean-Denis Curt, Groupe Renault: We integrate up to 20% recycled plastic in our vehicles made in Europe. Autoact.com – The newspaper. ⁸ Volvo (2018). Volvo Cars aims for 25% recycled plastics in cars from 2025.