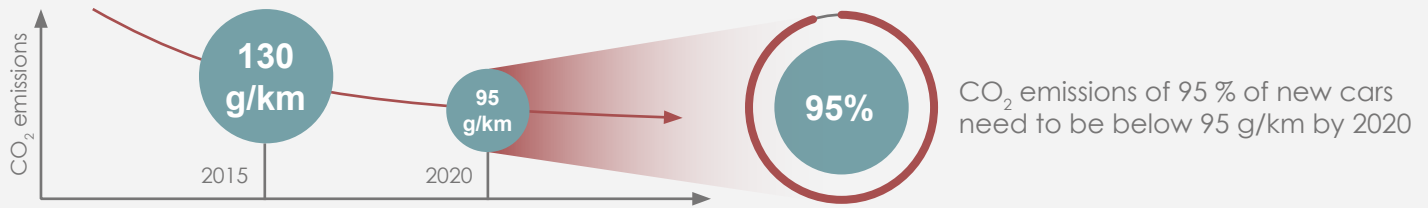
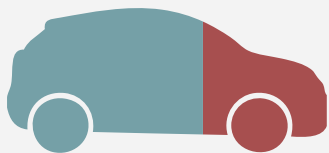


Weight, Fuel Efficiency and CO₂ Emissions

European Union regulations seek a significant reduction in CO₂ emissions for personal vehicles.

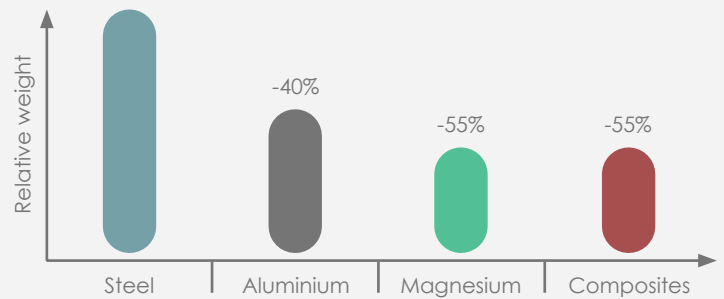


Approximately 1/3 of fuel passenger car consumption is weight related



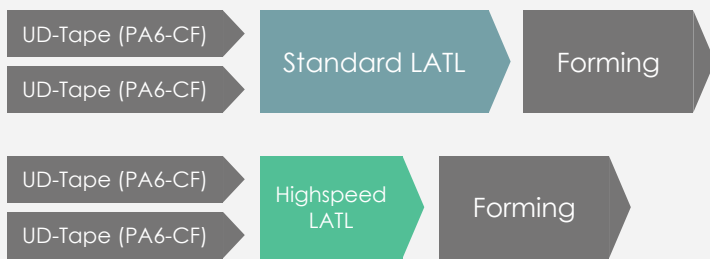
Potential fuel savings: Up to 0.35 litres per 100 km for 100 kg weight reduction (gasoline vehicles)

Lightweighting potential of different materials

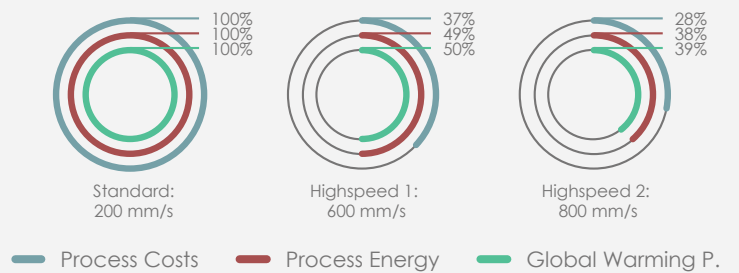


Stellar manufacturing stage process improvements

Increasing process speeds and reduction of waste



Tape laydown rate

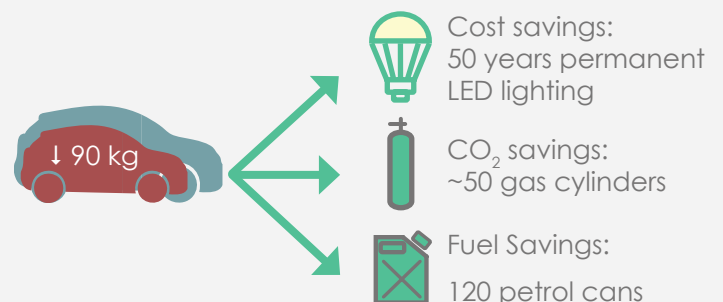


Automotive applications of Stellar

Stellar target: increasing material usage of at least 20%

Potential body weight reduction: 90 kg

Fuel Saving	Cost saving	Global Warming
~0.3 litres per 100 km	~0.38 € per 100 km	0.69 kg CO ₂ per 100km
Savings for life time scenario (200,000 km)		
600 litres	760 €	1.4 tonnes CO ₂



Stellar

