

The **external** costs of transporting freight affect society, but are not paid for by the transport users who cause them...



external costs = green costs + other social costs

Average External Costs in 2000

Euro/1000 tonne-kilometre (tkm)	Road*		Rail	Air	Water
	LGV	HGV			
Accidents	35.0	4.8	0.0	0.0	0.0
Noise	32.4	4.9	3.2	8.9	0.0
Air pollution	86.9	38.3	8.3	15.6	14.1
Climate change	57.4	12.8	3.2	235.7	4.3
Nature and landscape	10.9	2.0	0.3	3.8	0.8
Up/down stream	22.4	7.4	2.4	7.4	3.3
Urban effects	5.2	1.1	0.5	0.0	0.0

* LGV = Light Goods Vehicle, HGV = Heavy Goods Vehicle

This is the most recent external cost data – but it is...

- from the year 2000
- measured in tkm
- in Euros.

Adjust the cost data so it is up to date, in tonne-miles and in £s.

Which of these contribute to the **green** costs?

What is the total **green** cost of each mode of transport?

Exchange rate in 2000 1 = £0.61
Rate of inflation av 2.5%pa
Distance conversion 1 km = 0.62 m