There are now over [700 million] 7 [motor vehicles] 1 in [the world] 16 - and [the number] 7 is rising by more than 40 million each year. [The average distance driven by car users is growing too - from 8 km a day per person in western Europe in 1965 to 25 km a day in 1995]2. [This dependence]2 on [motor vehicles]1 has given rise to major problems, including [environmental pollution]12, [depletion of oil resources]11, [traffic congestion]13 and safety. While [[emissions]21 from new cars]4 are far less harmful than [they]4 used to be, [city streets and motorways are becoming more crowded than ever, often with older trucks, buses and taxis, which emit excessive levels of smoke and [fumes]17]3. [This concentration of [vehicles]1]3 makes air quality in urban areas unpleasant and sometimes dangerous to breathe. Even Moscow has joined the list of capitals afflicted by [congestion] 13 and [traffic fumes] 17. In Mexico City, [vehicle pollution]12 is a major health hazard. Until a hundred years ago, most journeys were in [the 20 km range]8, [the distance conveniently accessible by horse]8. Heavy freight could only be carried by water or [rail]14. The invention of the motor vehicle brought personal mobility to the masses and made rapid freight delivery possible over a much wider [area]15. Today about 90 per cent of inland freight in the United Kingdom is carried by [road] 5. Clearly [the world] 16 cannot revert to the horse-drawn wagon. Can [it]16 avoid being locked into congested and polluting ways of transporting [people] 10 and goods? In Europe most cities are still designed for the old modes of transport. Adaptation to the [motor car]6 has involved adding ring roads, one-way systems and parking lots. In the United States, more [land]15 is assigned to car use than to housing. Urban sprawl means that life without a [car]6 is next to impossible. Mass use of [motor vehicles]1 has also killed or injured millions of [people]10. Other social effects have been blamed on the [car]6 such as alienation and aggressive human behaviour. A 1993 study by the European Federation for Transport and Environment found that [car transport]6 is seven times as costly as [rail travel]14 in terms of the external social costs [it]6 entails such as [congestion]13, accidents, [pollution]12, loss of cropland and natural habitats, [depletion of oil resources]11, and so on. Yet [cars]6 easily surpass trains or buses as a flexible and convenient mode of personal transport. It is unrealistic to expect [people]10 to give up private cars in favour of [mass transit] 30. [Technical solutions] 22 can reduce the pollution problem and increase the [fuel efficiency] 23 of engines. But fuel consumption and exhaust [emissions]21 depend on which [cars]6 are preferred by customers and how [they]6 are driven. Many [people]10 buy larger cars than [they]10 need for daily purposes or waste fuel by driving aggressively. Besides, global car use is increasing at a faster rate than improvement in [emissions]21 and [fuel efficiency123 [technology]22 is now making possible. One solution that has been put forward is [the long-term solution of designing [cities]20 neighbourhoods]31 so that car journeys are not necessary - all essential services being located within walking distance or easily accessible by [public transport] 30. Not only would [this] 31 save energy and cut [carbon dioxide emissions]21, [it]31 would also enhance the quality of community life, putting the emphasis on [people]10 instead of [cars]6. Good local government is already bringing [this]31 about in some places. But few democratic communities are blessed with the vision - and the capital - to make [such profound changes] 31 in modern lifestyles. A more likely scenario seems to be a combination of [mass transit systems] 30 for travel into and around [cities]20, with small 'low emission' cars for urban use and larger hybrid or lean burn cars for use elsewhere. [Electronically tolled highways]50 might be used to ensure that drivers pay charges geared to actual [road]5 use. [Better integration of transport systems]51 is also highly desirable - and made more feasible by modern computers. But [these]50,51 are [solutions]50,51 for countries which can afford $[them]\,50,51.$ In most developing countries, old cars and old technologies continue to predominate.