

# Google unveils self-driving car

Google has begun building a fleet of experimental electric-powered cars that will have a stop-go button but no controls, steering wheel or pedals.

Google claims that the two-seater vehicle will revolutionise transport by making roads safer, and decrease congestion and pollution

## 1 GPS receiver

Matches position with customised version of Google's road maps

## 2 Laser range finder:

Rotating sensor scans 180m distance through 360° to generate 3D map of surroundings

**Windscreen:** Flexible plastic designed to reduce injuries

**Front:** Foam-like material minimises impact in case of crash

Car would be summoned with smartphone application

## 3 Video camera

Identifies other road users, lane markers and traffic signals

## 4 Radars:

Located at front and rear, detect proximity of obstacles

**Speed:** Limited to 40km/h to help ensure safety

**Engine:** 160km-range electric motor – equivalent to one used by Fiat's 500e

Inertial motion sensors determine velocity and direction



Radar

