Making driving energy visible

The Physics of Driving

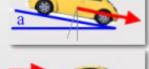
Fuel consumption is defined by:

$$P = mv \cdot (a_+ + g(\mu + \sin \alpha)) + \frac{1}{2} \rho \cdot A \cdot c_d \cdot v^3$$

Aggregate (electric, air condition, etc.)



- External & internal forces:
 - Standstill
 - Acceleration (positive)
 - Rolling Friction
 - Grade
 - Air drag (aerodynamics)



 All forces are speed related and can be estimated by simple GPS profiles after transmission by smart phones to Internet platforms for online monitoring

