HICKO

driving mobility www.hiriko.com

a vehicle for social change



a new relation between people & cities & vehicles









90% of population growth will be an urban areas

Increased urban densification

60% of the population and 80% of the wealth

and a new concept of SNART CITES



Imperial College Urban Energy Systems Project



✓ technology everywhere and anywhere
✓ connected to internet
✓ personal user experience





1. Private Automobiles

- Major source of pollution and carbon emissions; massive congestion, parking and noise problems
- 40% of total gasoline use in cars looking for parking

2. Public Transport

Does not cover the entire city, inconvenient and inflexible schedules

3. First Mile - Last Mile Problem

Of public transit is not solved



rethinking the concept of urban mobility in the new sustainibility context



simple personal connected be technology electric electronic smart



a new electric and electronic vehicle concept









technical description

key data of the 2 passenger vehicle

✓ Dimensions:

normal: 2.634mm (long.) x 1.750mm (anch.) x 1.565mm (alt.) *fold*: 2.070mm (long.) x 1.750mm (anch.) x 2.070mm (alt.)

✓ Weight

- ✓ without batteries: 540 kgs.
- ✓ with batteries: 700 kgs.
- ✓ Power: 15 kw / 20 cv
- ✓ Loading time: from 20% to 100% in 15 minutes (for a fast charge)

- ✓ Integral steering
- ✓ Reach with full battery: 120 kms
- ✓ Slope ascent: up to 20%
- ✓ Speed:
 - *√ maximum*: 90 km/h
 - ✓ self limited: 50 km/h
- ✓ Homologation: light four-wheel motorcycle
- ✓ Frontal access
- ✓ Boot capacity: 210 ltrs.



technical features

key data of the 2 passenger vehicle

- \checkmark the car can move in all directions when folded
- ✓ driven by a haptic wheel
- ✓ 15 or 16 inch aluminium rims
- ✓ variable trunk concept

- ✓ sound system, windscreen wipers
- ✓ interface for an smartphone
- "urban" communication system (traffic, parking, charging)
- ✓ unbreakable, heated antisteam glass



power and safety features

- ✓ 4 electro-engines, one at each wheel
- ✓ two seets of separated battery packs
- ✓ roof integrated solar panel
- ✓ 2 little ventilators for ain circulation
- ✓ all glass is laminated glass
- ✓ disk breaks on all wheels
- ✓ due to the position of driving, the car does not need to be equipped with airbags

modular design

design and manufacture following modular conception of 6 modules

- 1. WHEELS: the Robo Wheels, incl. motor traction, steering, braking system and suspension
- 2. FRONT MODUL: including front door and lateral windows
- 3. REAR PART: includes the auxiliary batteries
- 4. COCKPIT: includes seats, driving console and folding driving wheel
- 5. STRUCTURAL FOLDING CHASSIS: includes the batteries
- 6. **ELECTRONIC MODULE**: includes the control electronic as well as the power transmission electronics



robo-wheels

included motor traction, steering, bracking system and suspension





a new urban mobility concept









Folded CityCar vs. conventional 4-door sedan Parking ratio = 3.3 : 1





A Market Economy of trips





"Mobility on Demand" systems

will generate an ecosystem for new business models to emerge



promote partners





MIT MEDIA LAB









timeline







Global Launch HIRIKO

Brussels 24 January 2012







Genius begins great works; labour alone finishes them

Joseph Joubert



www.hiriko.com www.drivingmobilitytv.com

